

# VIDYASAGAR UNIVERSITY



## Curriculum for 3-Year B.A. (General) in Philosophy

Under Choice Based Credit System (CBCS)  
[w.e.f 2018-2019]

**VIDYASAGAR UNIVERSITY**  
**BA(General) in Philosophy**  
[Choice Based Credit System]

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
1	I	<b>SEMESTER-I</b>						<b>CA</b>	<b>ESE</b>	<b>TOTAL</b>
		Core-1 (DSC-1A)		Indian Philosophy	6	5-1-0	15	60	75	
		Core-2 (DSC-2A)		Other Discipline(Discipline-2)/TBD	6	5-1-0	15	60	75	
		AECC (core)		English-1	6	5-1-0	15	60	75	
		AECC-1 (Elective)		English/MIL	2	1-1-0	10	40	50	
				<b>Semester - I : Total</b>	<b>20</b>					<b>275</b>
	II	<b>SEMESTER-II</b>								
		Core-4 (DSC-1B)		Western Philosophy	6	5-1-0	15	60	75	
		Core-5 (DSC-2B)		Other Discipline(Discipline-2)//TBD	6	5-1-0	15	60	75	
		AECC (core)		Mil-1	6	5-1-0	15	60	75	
		AECC-2 (Elective)		Environmental Studies	4		20	80	100	
				<b>Semester - 2 : Total</b>	<b>22</b>					<b>325</b>

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks				
2	III	<b>SEMESTER-III</b>							<b>CA</b>	<b>ESE</b>	<b>TOTAL</b>
		Core-7 (DSC-1C)		Logic	6	5-1-0	15	60	75		
		Core-8 (DSC-2C)		Other Discipline(Discipline-2)//TBD	6	4-0-4/ 5-1-0	15	60	75		
		AECC (core)		English-II	6	5-1-0	15	60	75		
		SEC-1		SEC-1: Philosophy of Human Rights Or Ethics in Practice	2	1-1-0	10	40	50		
				<b>Semester - 3 : Total</b>	<b>20</b>				<b>275</b>		
	IV	<b>SEMESTER-IV</b>									
		Core-10 (DSC-1D)		Contemporary Indian Philosophy	6	5-1-0	15	60	75		
		Core-11 (DSC-2D)		Other Discipline(Discipline-2)/TBD	6	4-0-4/ 5-1-0	15	60	75		
		AECC (core)		MIL-II	6	5-1-0	15	60	75		
		SEC-2		SEC-2: Philosophical Analysis Or Man and Environment	2	1-1-0	10	40	50		
				<b>Semester - 4 : Total</b>	<b>20</b>				<b>275</b>		

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
3	V	<b>SEMESTER-V</b>						<b>CA</b>	<b>ESE</b>	<b>TOTAL</b>
		DSE-1A		Discipline-1(Philosophy)/TBD	6	5-1-0	15	60	75	
		DSE-2A		Other Discipline(Discipline-2)/TBD	6	4-0-4/ 5-1-0	15	60	75	
		GE-1		TBD	6	4-0-4/ 5-1-0	15	60	75	
		SEC-3		SEC- 3: Philosophy in Practice Or Value Education	2	1-1-0	10	40	50	
		<b>Semester - 5 : Total</b>				<b>20</b>				<b>275</b>
	VI	<b>SEMESTER-VI</b>								
		DSE-1B		Discipline-1(Philosophy)/TBD	6	5-1-0	15	60	75	
		DSE-2B		Other Discipline(Discipline-2)/TBD	6	4-0-4/ 5-1-0	15	60	75	
		GE-2		TBD	6	4-0-4/ 5-1-0	15	60	75	
		SEC-4		SEC -4: Computer Applications Or Logical Reasoning and Application	2	1-1-0	10	40	50	
		<b>Semester - 6 : Total</b>				<b>20</b>				<b>275</b>
	<b>Total in all semester:</b>				<b>122</b>				<b>1700</b>	

**CC** = Core Course , **AECC** = Ability Enhancement Compulsory Course , **GE** = Generic Elective , **SEC** = Skill Enhancement Course , **DSE** = Discipline Specific Elective , **CA**= Continuous Assessment , **ESE**= End Semester Examination , **TBD**=To be decided , **CT** = Core Theory, **CP**=Core Practical , **L** = Lecture, **T** = Tutorial , **P** = Practical , **MIL** = Modern Indian Language , **ENVS** = Environmental Studies

## **List of Core & Elective courses**

### **Core Courses (CC)**

- DSC-1A: Indian Philosophy**
- DSC-1B: Western Philosophy**
- DSC-1C: Logic**
- DSC-1D: Contemporary Indian Philosophy**

### **Discipline Specific Electives (DSE)**

- DSE-1: Philosophy of Religion**
- Or**
- DSE-1: Emerging Trends of Thoughts**
- DSE-2: Tarkasaṁgraha with Dīpikā**
- Or**
- DSE-2: Feminism**

### **Skill Enhancement Courses (SEC)**

- SEC-1: Philosophy of Human Rights**
- Or**
- SEC-1: Ethics in Practice**
- SEC-2: Philosophical Analysis**
- Or**
- SEC -2: Man and Environment**
- SEC- 3: Philosophy in Practice**
- Or**
- SEC -3: Value Education**
- SEC -4: Computer Applications**
- Or**
- SEC -4: Logical Reasoning and Application**

### **Generic Elective (GE)**

#### **[Interdisciplinary for other department]**

- GE-1: Western Philosophy**
- Or**
- GE-1: Indian Philosophy**
- Or**
- GE-1: Philosophy of Religion**
- GE-2: Social –Political Philosophy- I**
- Or**
- GE-2: Philosophy of Mind**
- Or**
- GE-2: Applied Ethics and Philosophy of Religion**

## Core Courses (CC)

### DSC-1A (CC-1): Indian Philosophy

Credits 06

#### DSC1AT: Indian Philosophy

##### Course Contents:

##### 1. Introduction:

- (a) General Features of Indian Philosophy

##### 2. Cārvāka:

- (b) *pratyakṣa* (perception) as the only Source of Knowledge
- (c) Refutation of *anumāna* (inference) and *śabda* (testimony) as Sources of Knowledge
- (d) *jaḍavāda* and *dehātmavāda*

##### 3. Jainism:

- (a) *anekāntavāda*
- (b) *syādvāda* and *nayavāda*

##### 4. Buddhism: (a) Four Noble Truths

- (a) (b) *pratītyasamutpāda*
- (b) *kṣaṇabhāṅgavāda*
- (c) *nairātmyavāda*

##### 5. Nyāya–Vaiśeṣika:

- (a) *pramāṇa*: *pratyakṣa* (perception), *anumāna* (inference), *upamāna* (comparison) and *śabda* (testimony)
- (b) *Saptapadārtha* (Seven Categories)

##### 6. Sāṃkhya:

- (a) *Satkāryavāda* (Theory of Causality)
- (b) *Pariṇāmavāda* (Theory of Evolution)

##### 7. Yoga :

- (a) *cittavṛttinirodha*
- (b) *aṣṭāṅgayoga*

##### 8. Mīmāṃsā

- (a) *arthāpatti*
- (b) *anupalabdhi*

##### 9. Advaita Vedānta:

- (a) (a) Brahman, *jīva* and *jagat*

##### Suggested Readings:

- S. C. Chatterjee & D. M. Dutta: *An Introduction to Indian Philosophy*
- C. D. Sharma : *A Critical Survey of Indian Philosophy*

- Haridas Bandyopadhyay : *Bhāratīya Darśaner Marmakathā*
- J. N. Mohanti : Classical Indian Philosophy
- Niradbaran Chakraborty : *Bhāratīya Darśan*
- Karuna Bhattacharya : *Nyāya-Vaiśeṣika Darśan*
- Panchanan Shastri : *Cārvāka Darśan*
- Panchanan Shastri : *Bauddha Darśan*
- Rajat Bhattacharya : *Sāṃkhyakārikā O Sāṃkhyatattvakumudī*
- Niradbaran Chakraborty : *Bhāratīya Darśan*
- Deepak Kumar Bagchi : *Bhāratīya Darśan*
- Debabrata Sen : *Bhāratīya Darśan*
- Pradyot Kumar Mandal : *Bhāratīya Darśan*
- Kanakprabha Bandyopadhyay : *Sāṃkhyapātañjaladarśan*
- Tarakishor Sharma Choudhury : *Pātañjaladarśan*
- Gobindagopal Mukhopadhyay : *Yoger Kathā : Patañjalir Drṣṭite*
- Purnachandra Vedanta Chunchu : *Pātañjal Darśan*

## DSC-1B (CC-2): Western Philosophy

Credits 06

### DSC1BT: Western Philosophy

#### Course Contents:

1. **Metaphysics:** Nature of Metaphysics, Elimination of Metaphysics
2. **Realism:** Naïve Realism, Scientific Realism, Representative Realism
3. **Idealism:** Subjective Idealism, Objective Idealism
4. **Critical Theory of Kant**
5. **Theories of Causation:** Regularity Theory and Entailment Theory
6. **Substance:** Views of Descartes, Spinoza, Locke and Berkeley
7. **Relation between Mind and Body:** Interactionism and Parallelism
8. **Theories of Evolution:** Mechanistic and Emergent

#### Suggested Readings:

- Falkenberg : History of Western Philosophy
- Sibapada Chakraborty : General Philosophy
- Sibapada Chakraborty : *An Introduction to General Philosophy*
- Ramchandra Pal : *Darśan Parichaya*
- Rama Prasad Das & Sibapada Chakraborty : *Pāścātya Darśaner Rūprekhā*
- Niradbaran Chakraborty : *Pāścātya Darśaner Bhūmikā*

## DSC-1C (CC-3): Logic

Credits 06

### DSC1CT: Logic

#### Course Contents:

- 1. Basic Concept of Logic:** (a) Nature and Scope of Logic, (b) Sentence, Proposition and Statement, (c) Inference and Argument,
- 2. Types of Argument and Inference:** (a) Deductive Argument and Inductive Argument, (b) Immediate inference and Mediate inference, (c) Categorical Syllogism, (d) Truth Functional Argument and Quantificational Argument
- 3. Opposition of Propositions:** Rules and Fallacies
- 4. Immediate Inference:** Rules and Fallacies
- 5. Categorical Syllogisms:** Rules and Fallacies, Venn diagram
- 6. Truth functional Argument:** Rules and Fallacies
- 7. Inductive Argument:** Rules and Fallacies
- 8. Analogical Reasoning**
- 9. Science and Hypothesis**

#### Suggested Readings:

- M. Copi, C. Cohen, P. Jetli & M. Prabhakar : Introduction to Logic (14th Edition)
- R. S. Agarwal: A Modern Approach to Logical Reasoning, Paperback, 2007
- Bo Bennett : Logically Fallacious: The Ultimate Collection of Over 300 Logical Fallacies (Academic Edition)

## DSC-1D (CC-4): Contemporary Indian Philosophy

Credits 06

### DSC1DT: Contemporary Indian Philosophy

#### Course Contents:

Philosophical Thoughts of Rabindranath Tagore, Swami Vivekananda, Sri Aurobindo, S. Radhakrishnan, Md. Iqbal and Mahatma Gandhi

#### 1. Rabindranath Tagore

- (a) Nature of man : The Finite Aspect of Man, the Infinite Aspect of Man, the Finite-Infinite Aspect of Man, (b) Nature of Religion, (c) Problem of Evil
- (f) Surplus in man

#### 2. Swami Vivekananda

- (a) Practical Vedānta, (b) Universal Religion, (c) Yoga



### 3. Sri Aurobindo

(a) Nature of Reality, (b) Human Evolution– its different stages,  
(c) Integral Yoga

### 4. S. Radhakrishnan

(a) Nature of Man, (b) Nature of Religious Experience, (c) Nature of Intuitive Apprehension

### 5. Md. Iqbal

(a) Nature of the Self, (b) Nature of the World, (c) Nature of God

### 6. Mahatma Gandhi

(a) God and Truth, (b) Ahimsa, (c) Trusteeship

#### Suggested Readings:

- B. K. Lal : *Contemporary Indian Philosophy*
- D. M. Dutta : *Chief Currents of Contemporary Philosophy*
- Binay Gopal Roy : *Contemporary Indian Philosophers*
- Swami Vivekananda : *Complete Works of Swami Vivekananda* (Vol. II)

### Discipline Specific Electives (DSE)

#### DSE-1: Philosophy of Religion

Credits 06

#### DSE1T: Philosophy of Religion

#### Course Contents:

##### 1. Nature and Scope of Philosophy of Religion:

(a) Religion, Dharma, Dhamma,  
(b) Philosophy of Religion, Comparative Religion and Theology

##### 2. Origin and Development of Religion

##### 3. Fundamental Features of Major Religions:

Hinduism, Christianity, Islam, Buddhism: Basic Tenets, Prophets (if any), Incarnation, Bondage and Liberation

##### 4. Arguments for the Existence of God (Indian and Western):

Sāṅkhya-Yoga Arguments, Nyāya Arguments, Cosmological Arguments, Teleological Arguments, Ontological Arguments

##### 5. Arguments against the Existence of God:

Sociological Arguments, Freudian Arguments, Buddhist Arguments

##### 6. Religious Pluralism & Mysticism

##### 7. Monotheism, Polytheism, Henotheism

##### 8. Immanence and Transcendence of God

## Suggested Readings:

1. J. Hick : *Philosophy of Religion*
2. P. B. Chatterjee : *Studies in Comparative Religion*
3. Edward : *Philosophy of Religion*
4. Swami Vivekananda: *A Study of Religion*
5. Kalidas Bhattacharyya : *Alternative Religions*
6. Amlan Datta : *Dharma O Yukti*
7. D. Mahanta: *Dharma Darśaner Katipay Samasyā*
8. Kalyan Gupta & Amitava Chakraborty : *Dharma Darsana*
9. M.M.Sharif : *A History of Muslim Philosophy*
10. M. Fakhry : *A History of Islamic Philosophy*
11. S. R. Saha (ed) : *Religions of the People of India*
12. R. K. M. Institute of Culture : *The Religion of the World*
13. Osman Ghani : *Ilamer Chita O Chetanar Kramabikash* (Dasham Khanda)
14. Hasan Ayub : *Islami Darshan*
15. R. S. Franks : *The Doctrine of Trinity*
16. K. N. Tiwari : *Comparative Religion*
17. Pijush Kanti Ghosh : *Dharma Darshan*
18. N. Arabinda Basu and Nibedita Chakraborty: *Dharma Darsan Parichaya*
19. A. Bandyopadhyay & K.C. Gupta : *Dharma Darśan*
20. Susil Kumar Chakraborty : *Dharma Darśan*
21. Samarendra Bhattacharya : *Dharma Darśan*

Or

**DSE-1: Emerging Trends of Thoughts**

**Credits 06**

**DSE1T: Emerging Trends of Thoughts**

**Course Contents:**

### **A. Bioethics**

1. Introduction to Bioethics
2. Understanding Ethics and Bioethics
3. Human Dignity and Human rights
4. Principles of benefits and harm

### **B. Autonomy, consent and privacy**

1. Autonomy and individual responsibility
2. Consent
3. Persons without the capacity to consent
4. Respect for human vulnerability and personal integrity
5. Privacy and confidentiality

### **C. Health and Responsibility**

1. Social responsibility and health
2. Sharing of benefits
3. Protecting future generations
4. Protection of the environment, the biosphere and bio-diversity.

**Suggested Readings:**

1. Bioethics: An Anthology, Kuhse, H and Singer, P (2008) 2ND Ed., Blackwells
2. The Cambridge Textbook of Bioethics, Singer, P.A. and Viens, A.M (2008), Cambridge University Press
3. Principles issues and cases, Vaughn, L (2012), Oxford University Press
4. Human Dignity, Human Rights and Responsibility – The New Language of Global Bioethics and Biolaw, Barilan, Y.M (2014), USA: MIT

**DSE-2: Tarkasaṁgraha with Dīpikā**

**Credits 06**

**DSE2T: Tarkasaṁgraha with Dīpikā**

**Recommended Topics:**

**1. Saptapadārtha**

**Suggested Readings:**

1. Annambhaṭṭa : *Tarkasaṁgraha with Dīpikā*
2. Gopinath Bhattacharyya (English trans. & elucidation) *Tarkasaṁgrahadīpikā on Tarkasaṁgraha*, Progressive Publishers, Calcutta
3. Narayan Chandra Goswami : *Tarkasaṁgraha of Annambhatta* (Bengali trans. & elucidation)
4. Anamika Roychoudhury : *Tarkasaṁgraha* (Bengali trans. & elucidation)

**Or**

**DSE-2: Feminism**

**Credits 06**

**DSE2T: Feminism**

**Course Contents:**

- A. Original Development of Feminist Thought.
- B. Philosophical basis of Feminism.
- C. Different Branches of Feminism.
- D. Important issues of Feminism: Feminist Ethics. some basic concepts of Feminism: Sexism, Patriarchy and Androcentricism. The Ethics of Care.

**Suggested Readings:**

1. Feminist Thought: Androcentrism, Communication and Objectivity: Shefali Moitra, Munshiram Monoharlal Publishers Pvt. Ltd., 2002, New Delhi

2. Understanding Gender: Kamla Bhasin, Women Unlimited, 2001, New Delhi
3. Handbook of Feminist Theory : Lisa Disch And Mary Hawkesworth, Oxford University Press, 2016
4. Practical Ethics: Peter Singer
5. Applied Ethics: Peter Singer
6. Redefining Ethics As Care: Bidisha Mukherjee, Papyrus, Kolkata 2008
7. The Ethics Of Care : Virginia Held
8. The Core Of Care Ethics : S. Collins, P. Macmillan Publishers, 2015
9. In a Different Voice : Gilligan, C., Harvard University Press, 1982
10. Naitikata O Narivada : Shefali Moitra
11. Nitividya: Samarendra Bhattacharya

### *Skill Enhancement Course (SEC)*

**SEC-1: Philosophy of Human Rights**

**Credits 02**

**SEC1T: Philosophy of Human Rights**

**Course Contents:**

**1. Definition and Nature of Human Rights**

**2. The Idea of Human Rights:** Its Origins and Historical Developments during Ancient period, Modern period and Contemporary period

**3. The Idea of natural Law and Natural Rights:** Thomas Hobbes and John Locke.

**4. The Natural Rights Tradition:** Some Reactions from Jeremy Bentham, Edmund Burke and Thomas Paine

**5. Natural Right, Fundamental Right and Human Right**

**6. Preamble, Fundamental Rights and Duties (Indian Constitution)**

**7. Contemporary Perspectives:** Joel Feinberg—Basic Rights

**Suggested Readings:**

1. Patrick Hayden (ed.): *The Philosophy of Human Rights*, Paragon House, St. Paul, First Edition, 2001.
2. Morton E. Winston (ed.): *The Philosophy of Human Rights*, Wadsworth Publishing Co. Belmont, California, 1989.
3. Jeremy Waldron (ed.): *Theories of Rights*, Oxford University Press, Oxford, 1984
4. Ashwani Peetush and Jay Drydyk: *Human Rights: India and West*, Oxford University Press, New Delhi, 2015.
5. James Nickel: *Making Sense of Human Rights*, Blackwell Publishing, Oxford, 2007.
6. Henry Shue: *Basic Rights: Subsistence, Affluence and U. S. Foreign Policy*, Princeton University Press, 1980
7. Gary, B. Herbert: *Philosophical History of Human rights*, Transaction Publishers, New Jersey, 2002.

8. Michael Freedon: *Rights*, Worldview Publications, New Delhi, 1998.
9. Lynn Hunt: *Inventing Human Rights: A History*, Norton & Company, New York, 2007.
10. Jack Donnelly: *Universal Human rights in Theory and Practice*, Manas Publications, New Delhi, 2013,
11. Benulal Dhar: *The Philosophical Understanding of Human Rights*, D. K. Print World, New Delhi, 2013.
12. William A. Edmundson: *An Introduction to Rights*, Cambridge University Press, Cambridge, 2012.
13. Carl Wellman: *The Moral Dimensions of Human Rights*, Oxford University Press, Oxford, 2011.
14. Benulal Dhar, *Manvadhikar Ki Ebong Kena* (PragatiPrakashak, Kolkata, 2016)
15. J. K. Das: *Human Rights Law and Practice*, (PHI Learning, 2016)
16. Durga Das Basu : *Introduction to the Constitution of India*, (Lexis Nexis, 2016)
17. Justice Ruma Paul & M.P Jain: *Indian Constitutional Law* (Lexis Nexis, 2016)
18. L. K. Thakur, *Comparative International human Rights*, Authors Press, Delhi, 2001

Or

**SEC-1: Ethics in Practice**

**Credits 02**

**SEC1T: Ethics in Practice**

**Course Contents:**

- 1. Morality and Ethics**
- 2. Motive and Intention**
- 3. Moral action and Moral Judgment**
- 4. Normative Theories:** (a) Ethical Egoism & Utilitarianism, (b) Kant's Moral Theory
- 5. *puruṣārtha*** (Buddha and *āstika* views)
- 6. Vedic Concepts** of *ṛta*, *yajña*, *ṛṇa*, *vidhi* and *niṣedha*
- 7. Concept of *ahiṃsā*** in Yoga
- 8. Concept of *niṣkāmakarma*** preached in *Śrīmadbhagavadgītā*
- 9. Concept of *pañcaśīla*** in Buddhism
- 10. Jaina Concepts** of *pañcamahāvratā*, *triratna*, *anuvratā* and *mahāvratā*
- 11. Awareness, Views and Praxis on Basic Moral Concerns of Environment:**
  - (a) Environmental awareness and Buddhism
  - (b) Rabindranath Tagore's Environmental Praxis
  - (c) Land Ethics
  - (d) Shallow and Deep Ecology

**Suggested Readings:**

1. W. Frankena: *Ethics*
2. Y. V. Satyanarayan : *Ethics : Theory and Practice*
3. S. K. Maitra : *Ethics of the Hindus*
4. C. Sharma : *The Ethical Philosophy of India*
5. W. Lillie : *An Introduction to Ethics*

6. J. S. Mackenzie : *A Manual of Ethics*
1. P. B. Chatterjee : *Principles of Ethics*
2. P. Singer : *Practical Ethics*
3. Surama Dasgupta: *Developments of Moral Philosophy in India*
4. K. N. Tewari: *Classical Indian Ethical Thought*
5. S. Radhakrishnan: *The Bhagavadgītā*
6. Ranchor Prime, (1994) *Hinduism and Ecology*, MLBD, Delhi.
7. Peter Harvey : *Buddhist Ethics*
8. Hammalawa Saddhatissa, (2003) *Buddhist Ethics*, Wisdom pub, Boston.
9. K. P. Sinha: *Studies in Jainism*
10. Dasgupta, Chatterjee & Chatterjee (ed), *Rethinking Tagore's Views on Society, Development*

## **SEC-2: Philosophical Analysis**

**Credits 02**

### **SEC2T: Philosophical Analysis**

#### **Course Contents:**

1. **Meaning:** (a) Word -meaning and Sentence-meaning, (b) Testability and Meaning
2. **Definition**
3. **Concept and Truth**
4. **Knowledge:** Nature and Source of Knowledge
5. **Determinism and Freedom**

#### **Suggested Readings :**

- Hospers: *An Introduction to Philosophical Analysis* (Chapters—1, 2, 3, 4 & 5)

**Or**

## **SEC -2: Man and Environment**

**Credits 02**

### **SEC2T: Man and Environment**

#### **Course Contents:**

#### **A. Classical Indian Attitude to Environment**

- a) The Upanisadic world-view, b) Tagore's understanding of nature, c) The post-Upanisadic view of nature

#### **B. Respect for Nature**

- a) The attitude of respect, b) Bio-centric outlook to nature, c) Ethical standards and rules that follow from the attitude of respect to nature,
- d) The idea of inherent worth of nature.

#### **C. Intrinsic Value of nature**

a) Moore's talk of 'intrinsic properties', b) Chilsom's idea of intrinsic value, c) Attfield on the intrinsic value of nature, d) Callicott's idea of intrinsic value of nature, e) Rolston III on intrinsic value of nature, f) Intrinsic value and objective value

#### **D. Deep Ecology and its Third World Critique**

a) Arne Naess on Deep Ecology, b) Ramchandra Guha's critique of Deep Ecology

#### **E. Eco-feminism**

a) Understanding nature and the feminine, b) Dualisms in Western tradition, c) Masculinity, humanity and nature.

#### **Suggested Readings**

1. John Passmore, 'Attitudes to Nature', Environmental Ethics (ed.) Robert Elliot, Oxford University Press, Oxford,
2. Rabindranath Tagore, Sadhana (first Chapter), Macmillan, New York,
3. Paul Taylor, Respect for Nature: A Theory of Environmental Ethics (Select Parts), Princeton University Press, Princeton,
4. Robert Elliot, 'Intrinsic value, Environmental Obligation and Naturalness', Monist,
5. Arne Naess, 'The Shallow and the Deep, Long-Range Ecology Movements: A Summary', Inquiry,
6. Val Plumwood, Nature, Self and Gender: Feminism, Environmental Philosophy and the Critique of Rationalism, Environmental Ethics (ed.) Robert Elliot, Oxford University Press, Oxford,
7. Nirmalya Narayan Chakraborty, Paribesh o Naitikata, Progressive Book Forum, Kolkata,

### **SEC- 3: Philosophy in Practice**

**Credits 02**

#### **SEC3T: Philosophy in Practice**

#### **Course Contents:**

##### **1. Common and Differentiating Characteristics of Philosophy and *darśana***

##### **2. Nature of Inquiry in Philosophy and *darśana***

##### **3. Outlines of the types of Inquiry in Philosophy and *darśana*:**

(a) Epistemic Inquiry in Philosophy and *darśana*, (b) Metaphysical Inquiry in Philosophy and *darśana*, (c) Axiological Inquiry in Philosophy and *darśana*

##### **4. A few Model World-views and corresponding paths leading to Perfection**

(a) Plato's view, (b) Kant's view, (c) Sāṃkhya view and (d) Advaita Vedānta View

##### **5. Methods of Philosophical Discourse**

(a) Reasoned Speculation, (b) Conceptual Analysis, (c) Linguistic Analysis, (d) Logical Argumentation, (e) Critical Reflection

## 6. Methods of *Dārśanika* Discourse (*kathā*)

(a) *chala*, (b) *jāti*, (c) *nigrahasthāna*, (d) *vāda*, (e) *jalpa*, (f) *vitaṇḍā*

### Suggested Readings :

1. H. Cappelen: *The Oxford Handbook of Philosophical Methodology*, Oxford University Press,
2. B.K. Matilal: *The Word and The World*, Oxford University Press, 2001
3. Bimal Krishna Matilal: *The Character of Logic in India*
4. Bertrand Russell: *Problems of Philosophy*
5. Paul F. Kisak: *Philosophical Methodology : the Methods of Philosophical Inquiry* CSI Publishing Platform,
6. E. V. Stubbley: *Philosophic as a Method of Inquiry*
7. R. M. Keon: *Philosophic Semantics and Philosophic Inquiry*
8. The Methods of philosophy is the Methods of Inquiry (<https://explicitblog.wordpress.com>)
9. Plato : *The Republic*
10. G. E. Moore: *Some Main Problems of Philosophy*, New York
11. Īśvarakṛṣṇa : *Sāṃkhyakārikā*
12. Sadānanda Yogendra: *Vedāntasāra*

Or

SEC -3: Value Education

Credits 02

### SEC3T: Value Education

#### Course Contents:

- A. Meaning, Characteristics, significance and objectives of Value education
- B. Values in different contexts: Individual, Social, Cultural, Moral and Global and Spiritual.
- C. Meaning and Characteristics of Peace education
- D. Aims and Objectives of Peace Education
- E. Types of peace education
- F. Peace and Value education in Global Perspective

#### Suggested Readings:

1. Introduction to Peace Studies: David P. Barash Belmont
2. 'International Relations', in The English Writings of Rabindranath Tagore: A Miscellany, (ed) Sisir Kumar Das: Rabindra Nath Tagore New Delhi: Sahitya Akademi,
3. Handbook of Peace and Conflict Studies: Charles Webel and Johan Galtung(eds.), Routledge, London and New York,
4. Peace and Value Education: Babu Muthuja,
5. Philosophy of Value: Aditya Mohanty



## SEC -4: Computer Applications

Credits 02

### SEC4T: Computer Applications

#### Course Contents:

- A. Computer and its Basic Organisation.
- B. Working with tools in MS Word
- C. Introduction to spreadsheets (MS Excel)
- D. First step to Multimedia Presentation (MS Power point)
- E. Internet and E mail services
- F. Computer virus, Ethical hacking.

#### Suggested Readings:

1. Understanding Information Technology 7: Vijay Kumar Pandey, Arya Publishing Company
2. Computer Fundamentals: P.K. Sinha
3. Computer Fundamentals and Programming: P.Dey & M.Ghosh
4. Microsoft Word [Version 97, 2000, 2002 (XP)]: Mahbabur Rahaman

Or

## SEC -4: Logical Reasoning and Application

Credits 02

### SEC4T: Logical Reasoning and Application

#### Course Contents:

- A. The main objective of logical reasoning.
- B. Definitions: Pakṣa, sādhya, hetu, sapakṣa and Vipakṣa.
- C. Construction of kevalānvayī, kevalavyātirekī anvayvyātirekī anumiti.
- D. Hetvābhāsa and its different kinds, detection of hetvābhāsa.

#### E. Reasoning in practice:

- (i). Fallacy of relevance, Fallacies of ambiguity, Fallacies of weak induction, Avoiding fallacies
- (ii) Logical applications of the concept of pakṣatā
- (iii) Functional applications of ordinary operative relations between sense-organs and respective objects .

## F. Inductive reasoning in Law

- (i) The method of Inquiry in Law
- (ii) Causation in Legal reasoning
- (iii) Analogical Reasoning in legal argument
- (iv) Probability in legal argument

## G. Deductive Reasoning in Law

- (i) Determining the correct rule of Law
- (ii) Identifying, formulating, and applying rules of law.
- (iii) The law of libel
- (iv) Logic is right reasoning

### Suggested Readings:

1. Introduction to Logic (9th Edition) : I. M. Copi & C. Cohen, Prentice Hall of India Pvt. Ltd., New Delhi,
2. The Elements of Logic (5th Edition): S.F.Barker, McGraw- Hill Book Company,
3. Introduction to Logic : P.J. Hurley, Wadsworth
4. Tarkasaṁgraha: Annambhatta
5. Word and the World: B.K. Matilal
6. Tarkasaṁgraha: M.R. Bodas & Y.V. Athalye (tr. &ed.)
7. The Concept of Logical Fallacies: Nandita Bandyopadhaya
8. Tarkasaṁgraha with Dipika: Narayan Chandra Goswami
9. Tarkasaṁgraha with Dipika: Indira Mukhopadhyay
10. Tarkasaṁgraha with Dipika: Panchanan Shastri
11. Tarkasaṁgraha with Dipika: Kanailal Poddar

### ***Generic Elective (GE)***

### ***[Interdisciplinary for other Department]***

#### **GE-1: Western Philosophy**

**Credits 06**

#### **GE1T: Western Philosophy**

#### **Course Contents:**

- 1. Metaphysics:** Nature of Metaphysics, Elimination of Metaphysics
- 2. Realism:** Naïve Realism, Scientific Realism, Representative Realism
- 3. Idealism:** Subjective Idealism, Objective Idealism
- 4. Critical Theory of Kant**
- 5. Theories of Causation:** Regularity Theory and Entailment Theory
- 6. Substance:** Views of Descartes, Spinoza, Locke and Berkeley
- 7. Relation between Mind and Body:** Interactionism and Parallelism
- 8. Theories of Evolution:** Mechanistic and Emergent

#### **Suggested Readings:**

1. Falkenberg : History of Western Philosophy

2. Sibapada Chakraborty : General Philosophy
3. Sibapada Chakraborty : *An Introduction to General Philosophy*
4. Ramchandra Pal : *Darśan Parichaya*
5. Rama Prasad Das & Sibapada Chakraborty : *Pāścātya Darśaner Rūprekhā*
6. Niradbaran Chakraborty : *Pāścātya Darśaner Bhūmikā*

**Or**

**GE-1: Indian Philosophy**

**Credits 06**

**GE1T: Indian Philosophy**

**Course Contents:**

**1. Introduction:**

General Features of Indian Philosophy

**2. Cārvāka:**

- (a) *pratyakṣa* (perception) as the only Source of Knowledge
- (b) Refutation of *anumāna* (inference) and *śabda* (testimony) as Sources of Knowledge
- (c) *jaḍavāda* and *dehātmavāda*

**3. Jainism:**

- (a) *anekāntavāda*
- (b) *syādvāda* and *nayavāda*

**4. Buddhism:**

- (a) Four Noble Truths
- (b) *pratītyasamutpāda*
- (c) *kṣaṇabhaṅgavāda*
- (d) *nairātmyavāda*

**5. Nyāya–Vaiśeṣika:**

- (a) *pramāṇa*: *pratyakṣa* (perception), *anumāna* (inference), *upamāna* (comparison) and *śabda* (testimony)
- (b) *Saptapadārtha* (Seven Categories)

**6. Sāṃkhya:**

- (a) *Satkāryavāda* (Theory of Causality)
- (b) *Pariṇāmavāda* (Theory of Evolution)

**7. Yoga :**

- (a) *cittavṛttinirodha*
- (b) *aṣṭāṅgayoga*

**8. Mīmāṃsā**

- (a) *arthāpatti*
- (b) *anupalabdhi*

**9. Advaita Vedānta:**

Brahman, *jīva* and *jagat*

### Suggested Readings:

1. S. C. Chatterjee & D. M. Dutta: *An Introduction to Indian Philosophy*
2. C. D. Sharma : *A Critical Survey of Indian Philosophy*
3. Haridas Bandyopadhyay : *Bhāratīya Darśaner Marmakathā*
4. J. N. Mohanti : *Classical Indian Philosophy*
5. Niradbaran Chakraborty : *Bhāratīya Darśan*
6. Karuna Bhattacharya : *Nyāya-Vaiśeṣika Darśan*
7. Panchanan Shastri : *Cārvāka Darśan*
8. Panchanan Shastri : *Bauddha Darśan*
9. Rajat Bhattacharya : *Sāṃkhyakārikā O Sāṃkhyatattvakumudī*
10. Niradbaran Chakraborty : *Bhāratīya Darśan*
11. Deepak Kumar Bagchi : *Bhāratīya Darśan*
12. Debabrata Sen : *Bhāratīya Darśan*
13. Pradyot Kumar Mandal : *Bhāratīya Darśan*
14. Kanakprabha Bandyopadhyay : *Sāṃkhyapātañjaladarśan*
15. Tarakishor Sharma Choudhury : *Pātañjaladarśan*
16. Gobindagopal Mukhopadhyay : *Yoger Kathā : Patañjalir Drṣṭite*
17. Purnachandra Vedanta Chunchu : *Pātañjal Darśan*

Or

**GE-1: Philosophy of Religion**

**Credits 06**

**GE1T: Philosophy of Religion**

### Course Contents:

- (a) Nature and scope of Philosophy of Religion. Doctrine of karma and rebirth, doctrine of liberation.
- (b) Origin and Source of Religion: Animism, Totemism, Freud's theory
- (c) National Religion, Universal religion.
- (d) The Philosophical teachings of the Holy Quran: God the ultimate Reality, His attributes, His relation to the world and man.
- (e) Some basic tenets of Christianity: The doctrine of Trinity, The theory of Redemption
- (f) Arguments for the existence of God: Cosmological, Teleological and Ontological arguments,
- (g) The Peculiarity of Religious Language: The doctrine of analogy, Religious statements as Symbolic, Religious language as Non-Cognitive (Randal's view).

### Suggested Readings:

- Philosophy of Religion: J. Hick
- An Introduction to the Philosophy of Religion: Brian Davies
- Indian Philosophy of Religion: A. Sharma
- Comparative Religion: P.B. Chatterjee
- Comparative Religion: Eric J. Sharpe
- Patterns in Comparative Religion: M. Eliade (Ch I, Sec. I)
- Atheism in Indian Philosophy: D.P. Chattopadhyay
- Essays in Indian Philosophy (pp-145-169): Sukharanjan Saha (ed.)

- Studies in Nyaya-Vaisesika Theism (pp-102-137,139-159): Gopika Mohan Bhattacharya
- The Religions of the World: R.K.M. Institute of Culture
- Encyclopedia Britannica, Vol. I
- Encyclopedia of Islam, Vols. I & II
- Indian Religions: S. Radhakrishnan
- Foundations of Living Faith: H.D. Bhattacharya
- Aspects of Hindu Morality: Saral Jhingram
- A History of Muslim Philosophy (Vols.I &II): M.M. Sharif
- Islam and Secularism: Sayed Muhammad Al-Naquib Al-Attas
- The History of Philosophy in Islam-T.J. de Boer: E. Jones (tr.)
- The Holy Quran: Mohammad Yusuf Ali (tr.)
- The Spirit of Islam: Syed Amir Ali
- The Meaning of the Glorious Koran: M. Pickthall
- A History of Islamic Philosophy: M. Fakhry
- The Spirit of Islam's Message, Muhammad Qamaruddin in Religions of the People of India: S.R. Saha (ed.)
- Cultural Heritage of Islam: Osman Ghani
- Old Testament: R. Kittel (ed.)
- New Testament: Kilpatrick
- The Doctrine of the Trinity: R.S. Franks
- The Doctrine of the Trinity: Loenard Hodgson
- The Idea of the Holy: R. Otto
- A Brief Account of the Religion of the Hindus: Srilekha Dutta in Religions of the People of India: S.R. Saha (ed.)
- Dharma in Hinduism: An Ideal Religion: Tapan Kumar Chakraborty in Religions of the People of India: S.R. Saha (ed.)
- Jainism-A Religion of Non-Theistic Humanism: Tushar Sarkar in Religions of the People of India: S.R. Saha (ed.)
- Essays in Analytical Philosophy (Ch.VII): Gopinath Bhattacharya
- Buddhism in India and Abroad: Anukul Badyopadhyay

**GE-2: Social –Political Philosophy- I**

**Credits 06**

**GE2T: Social –Political Philosophy- I**

**Course Contents:**

- (a) Nature & Scope of Social Philosophy. Nature & Scope of Political Philosophy. Relation between Social Philosophy and Political Philosophy.
- (b) Primary Concepts: Society, Community, Association, Institution.
- (c) Social Groups: Its Different Forms. Family: Its Different Forms.
- (d) Social Class and Caste: Principles of Class and Caste; Marxist conception of class; Class Attitudes and Class consciousness

**Or**

**GE-2: Philosophy of Mind**

**Credits 06**

**GE2T: Philosophy of Mind**

**Course Contents:**

- (a) Sensation: What is sensation? Attributes of sensation.
- (b) Perception: What is perception? Relation between sensation and perception, Gestalt theory of perception, illusion and hallucination.
- (c) Consciousness: Conscious, Subconscious, Unconscious, Evidence for the existence of the Unconscious, Freud's theory of dream.
- (d) Memory: Factors of memory, Laws of association, Forgetfulness. Learning: The trial and Error theory, Pavlov's Conditioned Response theory, Gestalt theory.
- (e) Intelligence: Measurement of Intelligence, I.Q., Test of Intelligence, Binnet-Simon test.

Or

**GE-2: Applied Ethics and Philosophy of Religion**

**Credits 06**

**GE2T: Applied Ethics and Philosophy of Religion**

**Course Contents:**

**A. Concepts of Applied Ethics.**

**B. Killing: Suicide, Euthanasia.**

**C. Famine, Affluence and Morality.**

**D. Environmental Ethics: Value Beyond Sentient Beings, Reverence for life, Deep Ecology.**

**E. Nature & Concerns of Philosophy of Religion. Argument for the existence of God: Cosmological argument, Ontological argument and Teleological argument.**

**F. Problem of Evil and Suffering.**

**G. Grounds for disbelief in God: Sociological theory of Durkheim, Freudian Theory, Cārvāka View.**

# VIDYASAGAR UNIVERSITY



**Curriculum for 3-Year B. A (HONOURS)**

**in**

**Philosophy**

**Under Choice Based Credit System (CBCS)**

**w.e.f 2018-2019**

**VIDYASAGAR UNIVERSITY**  
**BA (Honours) in Philosophy**  
**[Choice Based Credit System]**

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
<b>Semester-I</b>									
1	I	Core-1		C1T: Indian Philosophy -I	6	5-1-0	15	60	75
		Core-2		C2T: History of Western Philosophy - I	6	5-1-0	15	60	75
		GE-1		TBD	6	5-1-0	15	60	75
		AECC-1 (Elective)		English/MIL	2	1-1-0	10	40	50
	<b>Semester -I: total</b>					<b>20</b>			
<b>Semester-II</b>									
1	II	Core-3		C3T: Indian Philosophy - II	6	5-1-0	15	60	75
		Core-4		C4T: History of Western Philosophy - II	6	5-1-0	15	60	75
		GE-2		TBD	6	5-1-0	15	60	75
		AECC-2 (Elective)		ENVS	4		20	80	100
	<b>Semester-II : total</b>					<b>22</b>			



Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
							CA	ESE	TOTAL	
				<b>Semester-III</b>						
2	III	Core-5		C5T: Philosophy of Mind	6	5-1-0	15	60	75	
		Core-6		C6T: Social and Political Philosophy	6	5-1-0	15	60	75	
		Core-7		C7T: Philosophy of Religion	6	5-1-0	15	60	75	
		GE-3		TBD	6	5-1-0	15	60	75	
		SEC-1		SEC-1: Computer Application Or SEC-1: Philosophy of Human Rights	2	1-1-0	10	40	50	
			<b>Semester – III : total</b>			<b>26</b>				<b>350</b>
			<b>Semester-IV</b>							
	IV	Core-8		C8T: Western Logic - I	6	5-1-0	15	60	75	
		Core-9		C9T: Western logic - II	6	5-1-0	15	60	75	
		Core-10		C10T: Epistemology and metaphysics ( Western)	6	5-1-0	15	60	75	
GE-4			TBD	6	5-1-0	15	60	75		
SEC-2			SEC -2: Value Education Or SEC -2: Man and Environment	2	1-1-0	10	40	50		
		<b>Semester – IV : total</b>			<b>26</b>				<b>350</b>	

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
							CA	ESE	TOTAL	
		<b>Semester-V</b>								
3	V	Core-11		C11T: Nayaya Logic and Epistemiology	6	5-1-0	15	60	75	
		Core-12		C12T: Ethics(Indian)	6	5-1-0	15	60	75	
		DSE-1		TBD	6	5-1-0	15	60	75	
		DSE-2		TBD	6	5-1-0	15	60	75	
		<b>Semester –V : total</b>				<b>24</b>				<b>300</b>
			<b>Semester-VI</b>							
	VI	Core-13		C13T: Nayaya Logic and Epistemiology-II	6	5-1-0	15	60	75	
		Core-14		C14T: Ethics (Western)	6	5-1-0	15	60	75	
		DSE-3		TBD	6	5-1-0	15	60	75	
		DSE-4		TBD	6	5-1-0	15	60	75	
<b>Semester – VI : total</b>				<b>24</b>				<b>300</b>		
<b>Total in all semester:</b>					<b>142</b>				<b>1900</b>	

CC = Core Course , AECC = Ability Enhancement Compulsory Course , GE = Generic Elective , SEC = Skill Enhancement Course , DSE = Discipline Specific Elective , CA= Continuous Assessment , ESE= End Semester Examination , TBD=To be decided , CT = Core Theory, L = Lecture, T = Tutorial ,P = Practical , MIL = Modern Indian Language , ENVS = Environmental Studies ,

## List of Core and Elective courses

### Core Courses (CC)

- CC - 1: Indian Philosophy - I  
CC - 2: History of Western Philosophy - I  
CC - 3: Indian Philosophy - II  
CC - 4: History of Western Philosophy- II  
CC - 5: Philosophy of Mind  
CC - 6: Social and Political Philosophy  
CC - 7: Philosophy of Religion  
CC - 8: Western Logic – I  
CC - 9: Western Logic – II  
CC -10: Epistemology and Metaphysics (Western)  
CC -11: Nyaya Logic and Epistemology – I  
CC -12: Ethics (Indian)  
CC -13: Nayaya Logic and Epistemology – II  
CC -14: Ethics (Western)

### Discipline Specific Elective (DSE)

- DSE-1: Philosophy of language (Indian)
- DSE-2: Ethics (Applied Ethics)  
Or  
DSE-2: Philosophy of Language (Western)
- DSE-3: *(Any one text from two texts in Western philosophy and two texts in Indian philosophy)*  
DSE-3A: An Enquiry Concerning Human Understanding - D. Hume  
Or  
DSE-3A: The Problems of Philosophy-- Bertrand Russell  
  
DSE-3B: Vedāntasāra: Sadananda Yogindra Saraswati  
Or  
DSE-3B: Śrimadbhagabdgīta
- DSE-4: *(Any one philosophical system from following philosophical systems of contemporary Indian thought)*  
  
DSE-4A: Swami Vivekananda  
Or  
DSE-4B: Rabindranath Tagore  
Or  
DSE-4C: Sri Aurobindo  
Or  
DSE-4D: M.K.Gandhi

**Skill Enhancement Course (SEC)**

**SEC-1:** Computer Application

**Or**

**SEC-1:** Philosophy of Human Rights

**SEC -2:** Value Education

**Or**

**SEC -2:** Man and Environment

**Generic Elective (GE)**

**[Interdisciplinary for other department]**

**GE-1:** Ethics: Indian and Western

**Or**

**GE-1:** Western Logic

**GE-2:** Feminism

**Or**

**GE-2:** Philosophy of Mind

**GE-3:** Theory of Inference in Nyāya

**Or**

**GE-3:** Theory of God in Nyāya Metaphysics

**GE- 4:** Environmental Ethics

**Or**

**GE- 4:** Termination of Life & Ethics

## Core Courses (CC)

**CC-1: Indian Philosophy – I**

**Credits 06**

**C1T: Indian Philosophy – I**

### **Course Contents:**

- a) Introduction: Division of Indian Philosophical Schools: Āstika and Nāstika
- b) Cārvāka School- Epistemology, Metaphysics, Ethics.
- c) Jainism- Concept of Dravya, Sat, Guṇa, Paryāya Anekāntavāda, Syādvāda and Saptabhaṅginaya.
- d) Buddhism- Four noble Truths, Theory of Dependent Origination (Pratītyasamutpāda), Definition of Reality (Arthakriyākāritva), Doctrine of Momentariness, (Kṣanabhaṅgavāda), Theory of no-soul (Nairātmyavāda), Four Schools of Buddhism (Basic tenets).
- e) Nyāya – Pramā and Pramāṇa, Pratyakṣa (Definition), Sannikarṣa, Classification of Pratyakṣa: Nirvikalpaka, Savikalpaka, Laukika, Alaukika;
- f) Anumiti, Anumāna (Definition), vyāpti, parāmarśa, Classification of Anumāna: pūrvavat, śesavat, smānyatodṛṣṭa, kevalānvayī, kevalavyātirekī, anvayavyātirekī, svārthānumāna, parārthānumāna, Upamāna (definition), Śabda (definition),
- g) Vaiśeṣika—Seven Padārthas, dravya, guṇa, karma, sāmānya, viśeṣa, samavāya, abhāva,
- h) Different types of causes: samavayī, asamavayī and nimitta. Asatkāryavāda.

### **Suggested Readings:**

#### **English:**

- Outlines of Indian Philosophy: M. Hiriyanna
- A Critical Survey of Indian Philosophy: C.D. Sharma
- An Introduction to Indian Philosophy: D. M. Dutta & S.C. Chatterjee
- Classical Indian Philosophy: J.N. Mohanty
- History of Indian Philosophy: S.N. Dasgupta
- Indian Philosophy (Vol. I & II): S. Radhakrishnan
- Indian Philosophy (Vol. I & II): J.N. Sinha
- Studies on the Carvaka/Lokayata: Ramakrishna Bhattacharya
- The Central Philosophy of Buddhism: T.R.V. Murti
- Yogacara Idealism: A.K. Chatterjee
- An Introduction to Mādhyamika Philosophy: Jaydev Singh
- Reflections on Indian Philosophy: K.P. Sinha
- Philosophy of Jainism: K.P. Sinha
- Nyaya Theory of Knowledge: S.C. Chatterjee
- Six Ways of Knowing: D.M. Dutta
- Nyaya-Vaisesika Metaphysics: Sadananda Bhaduri
- The Doctrine of Maya: A.K. Roychoudhuri
- Self and Falsity in Advaita Vedanta: A.K. Roychoudhuri
- The Word and the world: Bimal Krishna Matilal
- Logic, Language and Reality: Bimal Krishna Matilal

#### **Bengali:**



- Bharatiya Darshan: Debabrata Sen
- Bharatiya Darshan: Nirodbaran Chakraborty
- Sayan Madhaviya Sarva Darshan Samgraha: Satyajyoti Chakraborti
- Lokayata Darshan: Debiprasad Chatoopadhyay
- Carvakacarca: Ramakrisna Bhattacharya
- Carvaka Darshan: Panchanan Sastri
- Carvaka Darshan: Amit Kumar Bhattacharya
- Bauddha Dharma O Darshan: Swami Vidyananya
- Bauddha Darshan: Panchanan Sastri
- Gautama Buddher Darshan o Dharma: Sukomol Choudhury
- Bauddha Darshan: Amit Kumar Bhattacharya
- Ksanabhangavada: Bidhubhusan Bhattacharya
- Jainadarshaner Digdarshan: Satindra Chandra Bhattacharya
- Nyaya Darshan: Phanibhushan Tarkavagisha
- Nyaya Paricaya: Phanibhushan Tarkavagisha
- Nyaya-Vaisesika Darshan: Karuna Bhattacharya
- Nyaya Tattva Parikrama: Kalikrishna Bandyopadhyaya
- Samkhya Darshan: Bhupendranath Bhattacharya
- Samkhya Darshaner Vivarana: Bidhubhusan Bhattacharya
- Samkhyamata Samiksa: Yogendranath Bagchi
- Samkhya Tattva Kaumudi: Narayan Chandra Goswami
- Samkhya-Patanjal Darshan: Kanakprabha Bandyopadhyaya
- Patanjala Darshan: Purnachandra Vedantachanchu
- Puva Mimasa Darshan: Sukhamaya Bhattacharya
- Vedanta Darshan: Roma Choudhury
- Vedanta Darshan: Advaitavada: Ashutosh Sastri
- Mayavada: Pramatha Nath Tarkabhushan
- Vedanta Darshan: Swami Vidyananya

## CC-2: History of Western Philosophy – I

Credits 06

## C2T: History of Western Philosophy – I

### Course Contents:

- a) **Pre Socratic Philosophy:** A brief outline
- b) **Plato:** Theory of Knowledge, Theory of Forms.
- c) **Aristotle :** Critique of Plato's theory of Forms, Doctrine of four causes, Form and Matter
- d) **St. Thomas Aquinas:** Faith and Reason, Essence and Existence.
- e) **Descartes:** Cartesian method of doubt, cogito ergo sum, criterion of truth, types of ideas, Proofs for the existence of God, Mind- body dualism Proofs for the existence of the external world,
- f) **Spinoza:** Doctrine of substance, Attributes and Modes, Existence of God, Pantheism, Three orders of knowing.
- g) **Leibniz:** Monads, Truths of reason, Truths of facts, Innate ideas, Some metaphysical principles: Law of Identity of indiscernibles, Law of sufficient reason, Law of continuity, Doctrine of Pre-established harmony.



## Suggested Readings:

### English:

- The Greek Philosophers from Thales to Aristotle: W. K. C. Guthrie
- A Critical History of Greek Philosophy: W.T. Stace
- Encyclopedia of Philosophy: P. Edwards (ed.)
- A History of Philosophy: F. Copleston, vols. I, II, IV, V, VI
- History of Western Philosophy: B. Russell
- History of Modern Philosophy: R. Falckenberg
- A Critical History of Modern Philosophy: Y.H. Masih
- A History of Philosophy: F. Thilly
- A History of Modern Philosophy: W.K. Wright
- A Critical History of Western Philosophy: D.J. O'Connor
- A History of Philosophy from Descartes to Wittgenstein: R. Scruton
- The Fundamental Questions of Philosophy: A.C. Ewing
- A Brief History of Western Philosophy: A. Kenny
- The Works of Descartes: Haldane & Ross (eds.)
- Descartes: The Project of Pure Enquiry: B. Williams
- Descartes: A. Kenny
- Spinoza: Leon Roth
- Leibniz: An Introduction to His Philosophy: N. Rescher
- The Rationalists: J. Cottingham

### Bengali:

- Paschatya Darshaner Itihas: Tarak Candra Roy (pratham o dwitiya khanda)
- Paschatya Darshaner Itihas: Kalyan Chandra Gupta
- Paschatya Darshaner Itihas: Susanta Chakraborty
- Paschatya Darshaner Itihas: Samarendra Bhattacharya (pratham o dwitiya khanda)
- Paschatya Darshaner Itihas(Plato o Aristotle): N.B. Chakraborty
- Paschatya Darshaner Itihas(Plato o Aristotle): Debabrata Sen
- Paschatya Darshaner Itihas(Adhunik Yuga-Yuktivada (Descartes), Spinoza, Leibniz:): Chandrodaya Bhattacharya

**CC-3: Indian Philosophy – II**

**Credits 06**

**C3T: Indian Philosophy – II**

### Course Contents:

- a) Sāmkhya - Satkāryavāda, Nature of Prakṛti, its constituents and proofs for its existence. Nature of Puruṣa and proofs for its existence, Plurality of Puruṣas, theory of evolution.
- b) Yoga - Citta, Cittavṛtti, Cittabhūmi. **Eight fold path of Yoga**, God.
- c) Mīmāṃsā (Prābhakara and Bhāṭṭa) :Anvitābhīdhānvāda and avihitānvayavāda, Arthāpatti and Anupalabdhi as sources of knowledge
- d) Advaita Vedānta - Sankara's view of Brahman, Saṅga and Nirṅa Brahman, Three grades of Sattā: prātibhāsika, vyavahārika and pāramārthika, Jīva, Jagat and Māyā.
- e) Viśiṣṭādvaita - Rāmānuja's view of Brahman, Jīva, Jagat. Refutation of the doctrine of Māyā.



## Suggested Readings:

### English:

- Outlines of Indian Philosophy: M. Hiriyanna
- A Critical Survey of Indian Philosophy: C.D. Sharma
- An Introduction to Indian Philosophy: D. M. Dutta & S.C. Chatterjee
- Classical Indian Philosophy: J.N. Mohanty
- History of Indian Philosophy: S.N. Dasgupta
- Indian Philosophy (Vol. I & II): S. Radhakrishnan
- Indian Philosophy (Vol. I & II): J.N. Sinha
- Six Ways of Knowing: D.M. Dutta
- The Doctrine of Maya: A.K. Roychoudhuri
- Self and Falsity in Advaita Vedanta: A.K. Roychoudhuri
- The Word and the world: Bimal Krishna Matilal
- Logic, Language and Reality: Bimal Krishna Matilal

### Bengali:

- Bharatiya Darshan: Debabrata Sen
- Bharatiya Darshan: Nirodbaran Chakraborty
- Sayan Madhaviya Sarva Darshan Samgraha: Satyajyoti Chakraborti
- Lokayata Darshan: Debiprasad Chatoopadhyay
- Carvakacarca: Ramakrisna Bhattacharya
- Carvaka Darshan: Panchanan Sastri
- Carvaka Darshan: Amit Kumar Bhattacharya
- Bauddha Dharma o Darshan: Swami Vidyananya
- Bauddha Darshan: Panchanan Sastri
- Gautama Buddher Darshan o Dharma: Sukomol Choudhury
- Bauddha Darshan: Amit Kumar Bhattacharya
- Ksanabhangavada: Bidhubhusan Bhattacharya
- Jainadarshaner Digdarshan: Satindra Chandra Bhattacharya
- Nyaya Darshan: Phanibhushan Tarkavagisha
- Nyaya Paricaya: Phanibhushan Tarkavagisha
- Nyaya-Vaisesika Darshan: Karuna Bhattacharya
- Nyaya Tattva Parikrama: Kalikrishna Bandyopadhyaya
- Samkhya Darshan: Bhupendranath Bhattacharya
- Samkhya Darshaner Vivarana: Bidhubhushan Bhattacharya
- Samkhyamata Samiksa: Yogendranath Bagchi
- Samkhya Tattva Kaumudi: Narayan Chandra Goswami
- Samkhya-Patanjal Darshan: Kanakprabha Bandyopadhyaya
- Patanjali Darshan: Purnachandra Vedantachanchu
- Puva Mimasa Darshan: Sukhamaya Bhattacharya
- Vedanta Darshan: Roma Choudhury
- Vedanta Darshan: Advaitavada: Ashutosh Sastri
- Mayavada: Pramatha Nath Tarkabhushan
- Vedanta Darshan: Swami Vidyananya



## C4T: History of Western Philosophy – II

### Course Contents:

- a) Locke : Refutation of innate ideas, the origin and formation of ideas, simple and complex ideas, substance, modes and relations, nature of knowledge and its degrees, limits of knowledge, primary and secondary qualities, representative realism.
- b) Berkeley: Refutation of abstract ideas. Criticism of Locke's distinction between primary and secondary qualities, Immaterialism, esse-est-percipi, role of God.
- c) Hume: Impression and ideas, association of ideas, distinction between judgements concerning relations of ideas and judgements concerning matters of fact, theory of causality, theory of self and personal identity, scepticism.
- d) Kant : Conception of critical Philosophy, distinction between a priori and a posteriori judgements, distinction between analytic and synthetic judgements. Synthetic a priori judgements, General problem of the Critique, Copernican Revolution in Philosophy, Transcendental Aesthetic : Space & time - Metaphysical & Transcendental expositions of the ideas of space & time.

### Suggested Readings:

#### English:

- Encyclopedia of Philosophy: P. Edwards (ed.)
- A History of Philosophy: F. Copleston, vols. I, II, IV, V, VI
- History of Western Philosophy: B. Russell
- History of Modern Philosophy: R. Falckenberg
- A Critical History of Modern Philosophy: Y.H. Masih
- A History of Philosophy: F. Thilly
- A History of Modern Philosophy: W.K. Wright
- A Critical History of Western Philosophy: D.J. O'Connor
- A History of Philosophy from Descartes to Wittgenstein: R. Scruton
- The Fundamental Questions of Philosophy: A.C. Ewing
- A Brief History of Western Philosophy: A. Kenny
- The Rationalists: J. Cottingham
- An Essay Concerning Human Understanding: J. Locke
- John Locke: R. Aron
- Berkeley: G. Pitcher
- The Works of George Berkeley: T.E. Jessop & A.R. Luce(eds.) 8 vols
- An Enquiry Concerning Human Understanding-D. Hume: J. N. Mohanty (ed)
- A Treatise on Human Nature: D. Hume
- Locke, Berkeley, Hume: J. Bennett
- Locke, Berkeley, and Hume: C.R. Morris
- A Critique of Pure Reason-Immanuel Kant: N.K. Smith(tr. & ed.)
- Kant's Metaphysics of Experience: H.J. Paton vols I & II
- The Philosophy of Kant: J. Kemp
- Kant: Paul Guyer
- A Handbook to Kant's Critique of Pure Reason: Rasvihari Das
- Kant: S. Körner
- Kant: Allen W. Wood
- Lectures on Kant's Critique of Pure Reason: J.N. Mohanty

**Bengali:**

- Paschatya Darshaner Itihas: Tarak Candra Roy (pratham o dwitiya khanda)
- Paschatya Darshaner Itihas: Kalyan Chandra Gupta
- Paschatya Darshaner Itihas: Susanta Chakraborty
- Paschatya Darshaner Itihas:Ikshanvada(Locke, Berkeley,Hume): Chandrodaya Bhattacharya
- Paschatya Darshaner Itihas:(Locke, Berkeley,Hume): N.B. Chakraborty
- Hume-er Enquiry-Ekti Upasthapana: Ramaprasad Das
- Kanter Darshan-Tattva o Prayog: Prahlad Kumar Sarkar (ed.)
- Kanter Darshan:Rasvihari Das
- Kanter Shuddha Prajnar Bichar: Mrinal Kanti Bhadra
- Bishuddha Prajnar Bichar: Gopal Chandra Khan

**CC-5: Philosophy of Mind****Credits 06****C5T: Philosophy of Mind****Course Contents:**

- a) Psychology: Definition, Nature and Scope
- b) Methods of Psychology: Introspection, Extrospection, Experimental Methods – variables - dependent & independent, controls in experiment, limitations of experimental method.
- c) Sensation and Perception: Nature of sensation, nature of perception, relation between sensation and perception, Gestalt theory of perception. Illusion and Hallucination.
- d) Learning: Theories of Learning - Trial and error theory, Thorndike's laws of learning, Gestalt Theory, Pavlov's theory of conditioned response, B.F. Skinner's theory of Operant Conditioning(reinforcement, extinction, punishment).
- e) Philosophical Theories of Mind: Interactionism, Double-aspect theory, Philosophical Behaviorism, Materialism mind - brain identity theory, The Person theory (Strawson).
- f) Consciousness: Levels of mind—Conscious, Sub-conscious, Unconscious, proofs for the existence of Unconscious, Freud's theory of Dream.
- g) Personality: Types, Factors and Traits of Personality.

**Suggested Readings:****English:**

- A Textbook of Psychology: Paresh Nath Bhattacharya
- Introduction to Psychology: G.T. Morgan, R. A. King Jr.
- A Modern Introduction to Psychology: Rex Knight & M. Knight
- A Manual of Psychology: G.F. Stout
- Psychology: Woodworth & Marquis
- Science and Human Behaviour: B.F. Skinner
- About Behaviorism: B.F. Skinner
- General Psychology: G.D. Boaz
- General Psychology: G. Murphy
- Psychology: W. James
- A Textbook of Psychology: E.B. Titchener

- Principles of Psychology: W. James
- Introduction to Psychology: N.L. Muna
- A Materialist Theory of Mind: D.M. Armstrong
- Philosophy of Mind: J. Heil
- Philosophy of Mind: J. Shaffer
- An Introduction to Philosophy of Mind: C.J. Lowe

**Bengali:**

- Monovidya: Priti Bhushan Chattopadhyay
- Monovidya: Pareshnath Bhattacharya
- Monovidya: Ira Sengupta
- Monovidya: Samarendra Bhattacharya
- Monosamikksha: M. N. Mitra o Pushpa Mishra
- Monodarshan-Sarirvada o Tar Vikalap: M. N. Mitra o P. Sarkar (Sampadito)
- Monovijana Prasanga: Saradindu Bandyopadhyay
- Adhunik Monovijana: Ira Sengupta
- Shikshashrayi Monovidya: Sushil Roy
- Monodarshan: Arabinda Basu o Nibedita Chakraborty

**CC- 6: Social and Political Philosophy**

**Credits 06**

**C6T: Social and Political Philosophy**

**Course Contents:**

- a) Nature and Scope of i) Social Philosophy ii) Political Philosophy iii) Relation between social and Political Philosophy.
- b) Primary concepts: Society, community, association, institution, family: nature, different forms of family, role of family in the society.
- c) Social Class and Caste: Principles of class and caste, Marxist conception of class, Varṇāśrama dharma.
- d) Theories regarding the relation between individual and society:
  - I. Individualistic theory
  - II. Organic theory
  - III. Idealistic theory
- e) Secularism—its nature, Secularism in India.
- f) Social Change: Nature, Relation to Social progress, Marx-Engles on social change, Gandhi on social change.
- g) Political Ideals: Nature of Democracy and its different forms, direct and indirect democracy, liberal democracy, democracy as a political ideal, Socialism: Utopian and Scientific, Anarchism.

**Suggested Readings:**

**English:**

- Philosophy: A Guide through the subject: A.C. Grayling (Ed.)
- Individuals: An Essay in Descriptive Metaphysics: P.F. Strawson
- The Concept of Person and Other Essays: A.J. Ayer
- Fundamentals of Sociology: P. Gisbert

- Outlines of Social Philosophy: J.S. Mackenzie
- Problems of Political Philosophy: D.D. Raphael
- Society: R.M. MacIver & C.H. Page
- Sociology: M. Ginsberg
- Sociology: Tom Bottomore
- Sociology: S.N. Shankar Rao
- Sociology: D.C. Bhattacharya
- Sociology: P.B. Kar
- Guide to Modern Thought: C.E.M. Joad
- Introduction to Modern political Theory: C.E.M. Joad
- The Evolution of Political Philosophy of Gandhi: Buddhadeb Bhattacharya
- Social and Political Thought of Gandhi: Jayantanuja Bandyopadhyay
- The Philosophy of Mahatma Gandhi: D.M. Dutta
- The Philosophy of Sarvodaya: K.S. Bharathi
- Communist Manifesto: Karl Marx & Frederick Engels
- Socialism: Utopian and Scientific: F. Engels
- Open Society and Its Enemies: Karl Popper
- The Open Philosophy and The Open Society: M. Cornforth
- Religion in India: T.N. Madan(ed.)
- Religion and Society: S. Radhakrishnan
- Secularism in the Present Indian Society, Amal Kumar Mukhopadhyay in Bulletin of the Ramakrishna Mission Institute of Culture, Vol.LVII, No. 11
- Secularism and Its Critics: Rajeev Bhargava (ed.)
- Civil Society and Its Institutions: Andre Beteille
- Unravelling the Nation:Sectarian Conflict and India's Secular Identity: Kaushik Basu &Sanjay Subramaniyam (eds.)
- India as A Secular State: D.E. Smith
- Political Thought: C.L. Wayper
- Political Philosophy:An Introduction: W.T. Blackstone
- Political Philosophy:East and West: Krishna Roy
- Political Philosophy: V.P. Verma
- Essays in Social and Political Philosophy: Krishna Roy & Chhanda Gupta (eds.)
- Western Political Thought: Brian R. Nelson
- Western Political Thought: From Plato to Marx: Shefali Jha

### **Bengali:**

- Samaj Darshan Dipika: Pritibhushan Chattopadhyay
- Samaj Tattva: Parimal Bhushan Kar
- Samaj Tattva: T. Bottomore
- Bisay Samaj Tattva: Anadi Kumar Mahapatra
- Samajdarshan o Rashtradarshaner Parichoy: A.K. Mahapatra o P. Mukherjee
- Rashtradarshaner Dhara: Amal kumar Mukhopadhyay
- Samajdarshan o Rashtradarshan: Samarendra Bhattacharya
- Samaj o Rajnaitikdarshan: Sandip Das
- Samyabader Itihas: Marx o Engels
- Samajtantra: Kalpanik o Baijnanik: F. Engels
- Marxiya Rashtrachinta: Shovan Lal Dutta Gupta
- Sarvodaya Andoloner Itihas: Gurudas Bandyopadhyay
- Gandhi Rachanasambhar: M.K. Gandhi

- Bharater Dharmanirapekshatar Sankat, Bholanath Bandyopadhyay in Essays on Science and Society: Biplab Chakraborti
- Dharmanirapekshata Birodhi Istahar: Ashis Nandy.

**CC-7: Philosophy of Religion**

**Credits 06**

**C7T: Philosophy of Religion**

**Course Contents:**

- a) Nature and scope of Philosophy of Religion. Doctrine of karma and rebirth, doctrine of liberation, (Hindu, Bauddha and Jaina views).
- b) The Philosophical teachings of the Holy Quran: God the ultimate Reality, His attributes, Hisrelation to the world and man.
- c) Some basic tenets of Christianity: The doctrine of Trinity, The theory of Redemption
- d) Religious Pluralism, Inter-religious dialogue and Possibility of Universal Religion.
- e) Arguments for the existence of God: Cosmological, Teleological and Ontological arguments, Nyāya arguments
- f) Grounds for Disbelief in God: Sociological theory (Durkheim), Freudian theory, Cārvāka, Bauddha and Jaina views
- g) The Peculiarity of Religious Language: The doctrine of analogy, Religious statements as Symbolic, Religious language as Non-Cognitive (Randal's view), the language game theory (D.Z. Phillip).

**Suggested Readings:**

**English:**

- Philosophy of Religion: J. Hick
- An Introduction to the Philosophy of Religion: Brian Davies
- Indian Philosophy of Religion: A. Sharma
- Comparative Religion: P.B. Chatterjee
- Comparative Religion: Eric J. Sharpe
- Patterns in Comparative Religion: M. Eliade (Ch I, Sec. I)
- Atheism in Indian Philosophy: D.P. Chattopadhyay
- Essays in Indian Philosophy : Sukharanjan Saha (ed.)
- Studies in Nyaya-Vaisesika Theism: Gopika Mohan Bhattacharya
- The Religions of the World: R.K.M. Institute of Culture
- Encyclopedia Britannica, Vol. I
- Encyclopedia of Islam, Vols. I & II
- Indian Religions: S. Radhakrishnan
- Foundations of Living Faith: H.D. Bhattacharya
- Aspects of Hindu Morality: Saral Jhingram
- A History of Muslim Philosophy (Vols.I &II): M.M. Sharif
- Islam and Secularism: Sayed Muhammad Al-Naqib Al-Attas
- The History of Philosophy in Islam-T.J. de Boer: E. Jones (tr.)
- The Holy Quran: Mohammad Yusuf Ali (tr.)
- The Spirit of Islam: Syed Amir Ali
- The Meaning of the Glorious Koran: M. Pickthall

- A History of Islamic Philosophy: M. Fakhry
- The Spirit of Islam's Message, Muhammad Qamaruddin in Religions of the People of India: S.R. Saha (ed.)
- Cultural Heritage of Islam: Osman Ghani
- Old Testament: R. Kittel (ed.)
- New Testament: Kilpatrick
- The Doctrine of the Trinity: R.S. Franks
- The Doctrine of the Trinity: Loenard Hodgson
- The Idea of the Holy: R. Otto
- A Brief Account of the Religion of the Hindus: Srilekha Dutta in Religions of the People of India: S.R. Saha (ed.)
- Dharma in Hinduism: An Ideal Religion: Tapan Kumar Chakraborty in Religions of the People of India: S.R. Saha (ed.)
- Jainism - A Religion of Non-Theistic Humanism: Tushar Sarkar in Religions of the People of India: S.R. Saha (ed.)
- Essays in Analytical Philosophy (Ch.VII): Gopinath Bhattacharya
- Buddhism in India and Abroad: Anukul Badyopadhyay

### **CC-8: Western Logic –I**

**Credits 06**

### **C8T: Western Logic –I**

#### **Course Contents:**

- a) Logic and Arguments, Deductive and Inductive Arguments, Argument forms and arguments, statement forms and statement, Truth and Validity. Categorical propositions and classes: quality, quantity and distribution of terms, Translating categorical propositions into standard form.
- b) Immediate inferences: Conversion, Obversion and Contraposition, Traditional square of opposition and Immediate Inferences based there on; Existential Import, symbolism and Diagrams for categorical propositions.
- c) Categorical Syllogism: Standard Form categorical Syllogism; The Formal nature of Syllogistic Argument, Rules and Fallacies, General Rules; To test Syllogistic Arguments for validity (by applying general rules for syllogism); To solve problems and prove theorems concerning syllogism.
- d) Boolean Interpretation of categorical propositions; Review of the Traditional Laws of Logic concerning immediate inference and syllogism; Venn Diagram Technique for Testing Syllogisms, Hypothetical and Disjunctive Syllogisms, Enthymeme, The Dilemma.
- e) Induction: Argument by Analogy, Appraising Analogical Arguments, Refutation by Logical Analogy.
- f) Causal Connections: Cause and Effect, the meaning of "Cause"; Induction by Simple Enumeration; Mill's Method of Experimental Inquiry; Mill's Method of Agreement, Method of Difference, Joint Method of Agreement and Difference, Method of Residues, Method of Concomitant Variations; Criticism of Mill's Methods, Vindication of Mill's Methods.
- g) Science and Hypothesis: Explanations; Scientific and Unscientific, Evaluating Scientific Explanations; The pattern of Scientific Investigation; Crucial Experiments and Ad Hoc Hypotheses.

- h) Probability: Alternative Conception of Probability; The Probability Calculus; Joint Occurrences; Alternative Occurrences.

### **Suggested Readings:**

#### **English:**

- Introduction to Logic (13th Edn.): I.M. Copi & C. Cohen
- Symbolic Logic: I.M. Copi
- Methods of Logic (Part I, Ch.s 5,7,9): W.V.O. Quine
- Introduction to Logic and Scientific Method: Cohen & Nagel
- Logic: Informal, Symbolic and Inductive: Chhanda Chakraborty
- Logic: Stan Baronett & Madhuchhanda Sen
- The Elements of Logic: Stephen Barkar
- Understanding Symbolic Logic: Virginia Klenk
- Logic- A Comprehensive Introduction; S.D. Guttenplan & M. Tamney
- Logic & Philosophy- A Modern Introduction: Howard Kahne
- Logic- A First Course: A.E. Blumberg

#### **Bengali:**

- Nabya Yuktibijnana(Pratham theke caturtha khanda): Ramaprasad Das
- Sanketik Yuktibijnana: Ramaprasad Das
- Samsad Yuktibijnana Abhidhan: Ramaprasad Das o Subirranjan Bhattacharya

### **CC-9: Western Logic – II**

**Credits 06**

### **C9T: Western Logic – II**

#### **Course Contents:**

- a) Symbolic Logic: The value of special symbols; Truth-Functions; Symbols for Negation, Conjunction, Disjunction, Conditional Statements and Material Implication; Material Equivalence and Logical Equivalence; Dagger and stroke functions; inter-definability of truth functors.
- b) Tautologous, Contradictory and Contingent Statement-Forms; The Paradoxes of Material Implication; The three Laws of Thought.
- c) Testing Argument Form and Argument for validity by
  - i. The Method of Truth-table.
  - ii. The Method of Resolution (Fellswoop & Full Sweep)[dot notation excluded]
- d) Determining the logical character of statement form and statements by
  - i. The Method of Truth-table.
  - ii. The Method of Resolution [dot notation excluded]
- e) The Method of Deduction: Formal Proof of Validity: Difference between Implicational Rules and the Rules of Replacement; Construction of Formal Proof of Validity by using nineteen rules; Proof of invalidity by assignment of truth-values.
- f) Quantification Theory: Need for Quantification Theory, Singular Propositions; Quantification; Translating Traditional subject predicate proposition into the logical notation of propositional function and quantifiers;

- g) Quantification Rules and Proving Validity; Proving Invalidity for arguments involving quantifiers.

**Suggested Readings:**

**English:**

- Introduction to Logic (13th Edn.): I.M. Copi & C. Cohen
- Symbolic Logic: I.M. Copi
- Methods of Logic (Part I, Ch.s 5,7,9): W.V.O. Quine
- Introduction to Logic and Scientific Method: Cohen & Nagel
- Logic: Informal, Symbolic and Inductive: Chhanda Chakraborty
- Logic: Stan Baronett & Madhuchhanda Sen
- The Elements of Logic: Stephen Barkar
- Understanding Symbolic Logic: Virginia Klenk
- Logic- A Comprehensive Introduction; S.D. Guttenplan & M. Tamney
- Logic & Philosophy- A Modern Introduction: Howard Kahne
- Logic- A First Course: A.E. Blumberg

**Bengali:**

- Nabya Yuktibijnana(Pratham theke caturtha khanda): Ramaprasad Das
- Sanketik Yuktibijnana: Ramaprasad Das
- Samsad Yuktibijnana Abhidhan: Ramaprasad Das o Subirranjan Bhattacharya

**CC-10: Epistemology and Metaphysics (Western)**

**Credits 06**

**C10T: Epistemology and Metaphysics (Western)**

**Course Contents:**

- a) Concepts, Truth.
- b) Sources of Knowledge.
- c) Some Principal uses of the verb “To know”, Conditions of Propositional Knowledge, Strong and weak senses of “know”.
- d) Analytic truth and logical possibility.
- e) The apriori.
- f) The Problem of Induction.
- g) Cause and Causal Principles
- h) Realism, Idealism.
- i) Phenomenalism
- j) Substance and Universal

**Suggested Readings:**

**English:**

- An Introduction to Philosophical Analysis—John Hospers
- The Problem of Knowledge: A.J. Ayer
- Language, Truth and Logic: A.J. Ayer
- Readings in Philosophical Analysis: J. Hospers
- The Central Questions of Philosophy: A.J. Ayer
- Theory of Knowledge: A.J. Woozley
- An Introduction to Philosophy: Shibapada Chakraborty



**Bengali:**

- Darshanik Jijnasa (Bagarthatattva): Ramaprasad Das
- Darshanik Jijnasa (Jnanatattva-Jnaner Svarup): Ramaprasad Das
- Darshanik Jijnasa (Jnanatattva): Ramaprasad Das
- Darshanik Jijnasa (Paratattva o Bhauto Jagater Jnana): Ramaprasad Das
- Darshanik Bishlesaner Ruparekha (Pratham O dvitiya khanda): Samarikanta Samanta
- Paschatya darshaner Ruparekha: Ramaprasad Das o Shibapada Chakraborty

**CC-11: Nyaya Logic and Epistemology –I****Credits 06****C11T: Nyaya Logic and Epistemology –I****Course Contents:**

- a) Definition of buddhi or jñāna (cognition), its two kinds; Definition of smṛti; Two kinds of smṛti (memory); Definition of anubhava, its division into veridical (yathārtha) and non-veridical (ayathārtha); Three kinds of nonveridical anubhava; Definitions clarified in Tarkasaṃgraha Dīpikā.
- b) Four-fold division of pramā and pramāṇa. Definition of “Kāraṇa” (special causal condition) and “kāraṇa” (general causal condition). The concept of anyathāsiddhi (irrelevance) and its varieties. The definition of kārya (effect). Kinds of cause: smavāyi, a-samavāyi and nimitta kāraṇa (definitions and analysis).
- c) Definition of pratyakṣa and its two-fold division: nirvikalpaka and savikalpaka jñāna. Evidence for the actuality of nirvikalpaka.
- d) Sannikarsa and its six varieties. Problem of transmission of sound; the claim of “anupalabdhi” as a distinctive pramāṇa examined.

**Suggested Readings:****English:**

- Tarkasaṃgraha with Dipika: Gopinath Bhattacharya
- Tarkasaṃgraha: M.R. Bodas & Y.V. Athalye (tr. & ed.)
- The Elements of Indian Logic and Epistemology: Chandrodaya Bhattacharya
- A Primer of Indian Logic: Kuppaswami Shastri
- Fundamental Questions of Indian Metaphysics & Logic: S.K. Maitra
- The Nyaya Theory of Knowledge: S.C. Chatterjee

**Bengali:**

- Tarkasaṃgraha with Dipika: Narayan Chandra Goswami
- Tarkasaṃgraha with Dipika: Indira Mukhopadhyay
- Tarkasaṃgraha with Dipika: Panchanan Shastri
- Tarkasaṃgraha with Dipika: Kanailal Poddar

**CC-12: Ethics (Indian)****Credits 06**

## C12T: Ethics (Indian)

### Course Contents:

- a) Introduction: Concerns and Presuppositions, Concept of Sthitaprañña, Karmayoga: (Gīta) Puruṣārthas and their inter-relations.
- b) Meaning of Dharma, Concept of ṛna and ṛta. Classification of Dharma: sādharma and Adharma, Varnasrama Dharma
- c) Vidhi and Niṣedha
- d) Buddhist Ethics: Pancaśīla, Brahmavihārabhāvanā (Bauddha) Anubrata, Mahābrata, Ahimsā.
- e) Jaina Ethics: anubrata, mahābrata
- f) Mimāṃsā Ethics: nitya naimittika karma and kāmya karma, the imperative in kāmya karmas and in kāmya karmas involving himsā.

### Suggested Readings:

#### English:

- The Fundamentals of Hinduism-A Philosophical Study: S.C. Chatterjee
- The Ethics of the Hindus: S.K. Maitra
- An Outline of Hinduism: T.M.P. Mahadevan
- Classical Indian Ethical Thought: K.N. Tewari
- Ethics in the Gita-An Analytical Study (pp-119-145): Rajendra Prasad
- Ethics in the Vedas, Satya prakash Singh in Historical-Developmental Study of Classical Indian Philosophy,[History of Science, Philosophy and Culture in Indian Civilisation (Vol. XII, Part 2)]: Rajendra Prasad (ed.)
- Rta, Satya, Tattva, Tathya, Samiran Chandra Chakraborty in Philosophical Concepts Relevant to Sciences in Indian Tradition,[ History of Science, Philosophy and Culture in Indian Civilisation (Vol. VIII, Part 4)]: P.K. Sen (ed.)
- Development of Moral Philosophy in India; Surama Dasgupta
- Ethical Philosophies of India: I.C. Sharma
- Studies on the Purusarthas: P.K. Mahapatra (ed.)
- A Critical Survey of Indian Philosophy: C.D. Sharma
- Indian Philosophy (Vo. I): J.N. Sinha
- Philosophy of Hindu Sadhana: N.K. Brahma

#### Bengali:

- Nitividya: Mrinal Kanti Bhadra
- Nitividyar Tattvakatha: Somnath Chakraborty
- Nitishastra: Dikshit Gupta
- Nitividya: Sibapada Chakraborty
- Pashchatya Darshaner Itihas (Pratham o dwitiya khanda): S. Radhakrishnan
- Dharma Darshan: A. Bandyopadhyay o K.C. Gupta
- Dharma Darshan: Rabindranath Das
- Dharmadarshanser Katipoy Samasya: Dilip Kumar Mohanto
- Dharma Darshan: Sushil Kumar Chakraborty
- Bharatiya Dharmaniti: Amita Chattopadhyay (Sampadita)
- Bharatiya Darshane Nirishvarvada: B.B. Purakayastha (pp-39-50,56-66)
- Bharatiya Darshaner Drishtite Muktir Swarup: Chandana Das

- Sarvadarshanasamgraha: Satyajyoti Chakraborty (Pratham Khanda)

**CC-13: Nyaya Logic and Epistemology –II**

**Credits 06**

**C13T: Nyaya Logic and Epistemology –II**

**Course Contents:**

- a) Definition of anumāna, anumiti and parāmarśa. Analysis of pakṣatā. Definition of vyāpti, Vyāptigraha.
- b) Definition of pakṣadharmatā—svārthānumiti and parārthānumiti; Analysis of pañcāvayavī Nyāya. Necessity of parāmarśa. Three kinds of linga or hetu: kevalānvayī, kevalavyōtirikē and anvayavyōtirikē. Definition of pakṣa, Sapakṣa and vipakṣa with illustrations. Marks of sadhetu.
- c) Hetvābhāsa—two types of definition. Five kinds of hetvābhāsa:
  - (1) “Savyōbhicāra” and its three kinds—defined and illustrated;
  - (2) “Viruddha” defined and illustrated;
  - (3) “Satpratipakṣa” defined and illustrated;
  - (4) Three kinds of “Asiddha” enumerated;
    - (a) āśrayāsiddha
    - (b) svarūpāsiddha and
    - (c) vyāpyatvāsiddha. Vyāpyatvāsiddha defined as “sopādhika hetu”. Upādhi and its four kinds (definition and illustration)
  - (5) “Bādhita” (definition and illustration).
- d) “Upamāna pramāṇa”: Definition and analysis. “Śabda pramāṇa” : Definition and analysis. “Śakti” (the direct signifying power), the padapadārtha- sambandha considered as Īśvara-saṅketa, Controversy between the Mīmāṃsakas and the Naiyāyikas regarding the nature of Śakti as universal or particular.
- e) “Śaktigraha” (ascertainment of the meaning-relation), lakṣaṇa, varieties of lakṣaṇa, Analysis of “Gauṇī-vṛtti” (the secondary signifying power of a term), “Vyājanā-vṛtti” (the suggestive power of a term) analysed as a kind of śakti or lakṣaṇā.
- f) The definition of lakṣaṇā, The concept of “yoga-rūḍhi”. The conditions of “śābdabodha”, ākāṅkṣā, yogyatā and sannidhi. Two kinds of statements distinguished—Vaidika and Laukika.
- g) “Arthāpatti” as a distinctive pramāṇa: Controversy between the Mīmāṃsakas and the Naiyāyikas.
- h) The theory of prāmāṇya: the issue between svataḥ-prāmāṇyavāda and parataḥ-prāmāṇyavāda regarding utpatti and jñapti; The Prābhākara theory of akhyāti.

**Suggested Readings:**

**English:**

- Tarkasamgraha with Dipika: Gopinath Bhattacharya
- Tarkasamgraha: M.R. Bodas & Y.V. Athalye (tr. & ed.)
- The Elements of Indian Logic and Epistemology: Chanrodaya Bhattacharya
- A Primer of Indian Logic: Kuppaswami Shastri
- Fundamental Questions of Indian Metaphysics & Logic: S.K. Maitra

- The Nyaya Theory of Knowledge: S.C. Chatterjee

**Bengali:**

- Tarkasamgraha with Dipika: Narayan Chandra Goswami
- Tarkasamgraha with Dipika: Indira Mukhopadhyay
- Tarkasamgraha with Dipika: Panchanan Shastri
- Tarkasamgraha with Dipika: Kanailal Poddar

**CC-14: Ethics (Western)**

**Credits 06**

**C14T: Ethics (Western)**

**Course Contents:**

- Nature and Scope of Ethics, Classification of Ethics: **a: Prescriptive, b: Meta Ethics, c: Applied Ethics.**
- Moral and Non-moral actions, Object of Moral Judgement - Motive and Intention
- Moral Theories: Plato and Aristotle
- Standards of Morality: Hedonism - Ethical, Psychological. Utilitarianism: Act utilitarianism, Ruleutilitarianism. Deontological Theories: Act - Deontological Theories, Rule-Deontological Theories - Kant's Theory.
- Theories of Punishment
- Environmental Ethics: Its nature, Concepts of Anthropocentrism and Non anthropocentrism, value beyond sentient beings, reverence for life.

**Suggested Readings:**

**English:**

- History of Philosophy-Eastern and Western: (Vol. I & II): S. Radhakrishnan
- Principles of Ethics: P.B. Chatterjee
- A Manual of Ethics: J.S. Mackenzie
- Ethics: W. Frankena
- An Introduction to Ethics: W. Lillie
- Ethics-Theory and Practice: J. Thiroux (Chs II & III)
- Ethics-Theory and Practice: Y.V. Satyanaryana
- Moral Reasons: J. Nuttal
- Human Conduct: J. Hospers
- Ethics-The Fundamentals: Julia Driver
- An Introduction to Kant's Ethics: R. Sullivan
- Nicomachean Ethics: Aristotle
- Philosophical Ethics-An Introduction to Moral Philosophy: T.L. Beauchamp (ed.)
- Virtue Ethics: Rosalind Hursthouse (Ch. III)
- Karma,Causation and Retributive Morality: Rajendra Prasad

**Bengali:**

- Nitividya: Mrinal Kanti Bhadra
- Nitividyar Tattvakatha: Somnath Chakraborty

- Nitishastra: Dikshit Gupta
- Nitividya: Samarendra Bhattacharya
- Nitividya: Sibapada Chakraborty
- Pashchatya Darshaner Itihas (Pratham o dwitiya khanda): S. Radhakrishnan
- Dharma Darshan: A. Bandyopadhyay o K.C. Gupta
- Dharma Darshan: Rabindranath Das
- Dharmadarshanser Katipoy Samasya: Dilip Kumar Mohanto
- Dharma Darshan: Sushil Kumar Chakraborty
- Bharatiya Dharmaniti: Amita Chattopadhyay (Sampadita)
- Bharatiya Darshane Nirishvarvada: B.B. Purakayastha
- Bharatiya Darshaner Drishtite Muktir Swarup: Chandana Das
- Sarvadarshanasamgraha: Satyajyoti Chakraborty (Pratham Khanda)
- Islami Darshan: Hasan Ayub
- Quran Sharif: Maulana Mobarak Qarim Zahar (Anudita)
- Quran Sharif: Osman Ghani (Anubad O bhasya)
- Islamer Chinta o Chetanar Kramabikash (dasham Khanda): Osman Gani
- Pabitra Bible (Puratn o Natun Niyam): Bharater Bible Society
- Bauddhadharmer Itihas: Mani Kuntala Halder
- Bauddhadharma o Darshan: Sukomal Chowdhury

### Discipline Specific Elective (DSE)

#### **DSE-1: Philosophy of Language (Indian)**

**Credits 06**

#### **DSE1T: Philosophy of Language (Indian)**

##### **Course Contents:**

- a) Definition and classification of pada
- b) Introduction of concepts of āsatti, yogyatā, tātparya, ākāṁṣā
- c) Different types of lakṣaṇā
- d) śābdabodha
- e) anvītābhīdhānvāda and abhihitānvayavāda.

##### **Suggested Readings:**

##### **English:**

- Tarkasamgraha: Annambhatta
- Tarkasamgraha: M.R. Bodas & Y.V. Athalye (tr. & ed.)
- The Elements of Indian Logic and Epistemology: Chandrodaya Bhattacharya
- A Primer of Indian Logic: Kuppaswami Shastri
- Fundamental Questions of Indian Metaphysics & Logic: S.K. Maitra
- The Nyaya Theory of Knowledge: S.C. Chatterjee

##### **Bengali:**

- Tarkasamgraha with Dipika: Narayan Chandra Goswami
- Tarkasamgraha with Dipika: Indira Mukhopadhyay
- Tarkasamgraha with Dipika: Panchanan Shastri
- Tarkasamgraha with Dipika: Kanailal Poddar

**Course Contents:**

- a. Nature and scope of applied ethics.
- b. Killing: Suicide, Euthanasia, Animal killing.
- c. Poverty, Affluence and Morality.
- d. War and Violence: Terrorism.
- e. Right: Nature and Value of Human Rights—Discrimination on the basis of race, caste and religion.
- f. The Ethics of Care.
- g. Value beyond sentient beings, Reverence for life, Deep Ecology, Concepts of Kinship Ethics.
- h. Ecological Concern in Indian thoughts: Jaina and Bauddha views.

**Suggested Readings:**

- Ethics-The Fundamentals: Julia Driver
- Ethics-Theory and Practice: J. Thiroux (Chs II & III)
- Ethics-Theory and Practice: Y.V. Satyanaryana
- Moral Reasons: J. Nuttal
- Moral Reasons: James Rachels
- Philosophical Ethics-An Introduction to Moral Philosophy: T.L. Beauchamp (ed.)
- Elements of Moral Philosophy: James Rachels
- Theories of Rights: J. Waldron (ed.)
- Human Rights: Alan Gewirth
- Modern Moral Philosophy: W.D. Hudson
- Ethics Since 1900: Mary Warnock
- Introductory Ethics: Fred Feldman
- Ethics: W. Frankena
- Identity and Violence: Amartya Sen
- Twentieth Century Ethics: Roger Hancock
- Aspects of Hindu Morality: Saral Jhingram
- Practical Ethics: Peter Singer (Chs V,VII,VIII,X)
- Applied Ethics: Peter Singer (ed.)
- A Companion to Ethics: Peter Singer (Chs 14,19,22)
- A Companion to Bio-Ethics: Peter Singer & H. Kuhse (eds.)
- Human Rights-An Introduction: D.J. O'Byrne
- Man and Nature: G.F. MacLean (ed.)
- Human Rights, Gender and the Environment: Manisha Preya, Krishna Menon, Madhulika Banerjee
- Gender: G. Geetha
- A Short Introduction to Feminist Theory: Rinita Mazumdar
- Feminist Thought: Shefali Moitra
- Justice and Care: Essential Readings in Feminist Ethics: Virginia Held (ed.)
- Language, Truth and Logic: A.J. Ayer
- The language of Morals: R.M. Hare
- Nitishastra: Dikshit Gupta

- Vyavaharik Nitivijnan: N. Nandy & M. Bal
- Nitividya: Sanjib Ghosh
- Nitividyar Tattvakatha: Somnath Chakraborty
- Tattvagata Nitividya o Vyavaharik Nitividya: Samarendra Bhattacharya
- Vyavaharik Nitividya-Peter Singer: Pardip Kumar Roy (tr.)
- Prayogik Nitividya: A.S.M. Abdul Khalek
- Nitibidya- Shibapada Chakraborty

**Or**

**DSE-2: Philosophy of Language (Western)**

**Credits 06**

**DSE2T: Philosophy of Language (Western)**

**Course Contents:**

- a) Syntax, Semantics, Pragmatics.
- b) Word-meaning, Definitions.
- c) Vagueness.
- d) Sentence-meaning.
- e) Testability and Meaning.

**Suggested Readings:**

**English:**

- The Philosophy of Language : A.P. Martinich (ed.)
- An Introduction to Philosophical Analysis—John Hospers
- The Problem of Knowledge: A.J. Ayer
- Language, Truth and Logic: A.J. Ayer
- Readings in Philosophical Analysis: J. Hospers
- The Central Questions of Philosophy: A.J. Ayer
- Theory of Knowledge: A.J. Woozley
- An Introduction to Philosophy: Shibapada Chakraborty

**Bengali:**

- Darshanik Jijnasa (Bagarthatattva): Ramaprasad Das
- Darshanik Jijnasa (Jnanatattva-Jnaner Svarup): Ramaprasad Das
- Darshanik Jijnasa (Jnanatattva): Ramaprasad Das
- Darshanik Jijnasa (Paratattva o Bhauto Jagater Jnana): Ramaprasad Das
- Darshanik Bishlesaner Ruparekha (Pratham O dvitiya khanda): Samarikanta Samanta
- Paschatya darshaner Ruparekha: Ramaprasad Das o Shibapada Chakraborty

**DSE-3:**

**(Any one text from two texts in Western philosophy and two texts in Indian philosophy)**

*[DSE-3A: An Enquiry Concerning Human Understanding - D. Hume*

*Or*

*DSE-3A: The Problems of Philosophy-- Bertrand Russell.*

*DSE-3B: Vedāntasāra: Sadananda Yogindra Saraswati*

*Or*



**DSE-3A: An Enquiry Concerning Human Understanding - D. Hume** Credits 06

**DSE3AT: An Enquiry Concerning Human Understanding - D. Hume**

**Course Contents:**

- a) Chapter 1 - 3 (15)
- b) Chapter 4 - 6 (15)
- c) Chapter 7- 9 (15)
- d) Chapter 10 -12(15)

**Suggested Readings:**

- An Enquiry Concerning Human Understanding-D. Hume: J.N. Mohanty (intr.)
- The Philosophy of David Hume: Pabitra Kumar Roy
- The Philosophy of David Hume: N.K. Smith
- Hume's Theory of Causality: Tapan Kumar Chakraborty
- Hume: V.C. Chappell (ed.)
- Hume-er Enquiry-Ekti Upasthapana: Ramaprasad Das
- Hume -er Darshan – Prahlad Kumar Sarkar (Ed.)

**Or**

**DSE-3A: The Problems of Philosophy-- Bertrand Russell** Credits 06

**DSE3AT: The Problems of Philosophy-- Bertrand Russell**

**Course Contents:**

- a) Chapter 1 - 3 (15)
- b) Chapter 4 - 6 (15)
- c) Chapter 7- 9 (15)
- d) Chapter 10 - 12(15)

**Suggested Readings:**

- Russell and Moore – An Analytical Heritage: A.J. Ayer
- Russell: A.J. Ayer
- Russell : Mark Sanisbury
- The Philosophy of B. Russell : Schlipp (ed)
- Russell – A Short Introduction: A.C. Grayling
- Darshaner Samasya: Debika Saha
- Darshan Samasya: Sushil Kumar Chakrabarty

**DSE-3B: Vedāntasāra: Sadananda Yogindra Saraswati** Credits 06

**DSE3BT: Vedāntasāra: Sadananda Yogindra Saraswati**



### Course Contents:

- a) Mangalācaraṇa
- b) Vedānter Paricaya
- c) From anubandha catuṣṭaya to relation between Íśvara and Prājña
- d) Origin of Sthūla Bhūta to Brahma- sākṣātkāra
- e) Śravana o ṣaḍbidhalinganirupaṇa to jībanmuktir śeṣ phala

### Suggested Readings:

- Vedantasara : Upendranath Mukhopadhaya
- Vedantasara: Medha Caitanya
- Vedantasara: Kalibar Vedanta Vagish
- Vedantasara: Bipadbhanjan Pal
- Vedantasara- Advaitavada :Ashutosh Shastri
- Vedantasara: Swami Nikhilananda (Eng Version)
- A History of Indian Philosophy S.N. Dasgupta

Or

**DSE-3B: Śrimadbhagavadgīta**

**Credits 06**

**DSE3BT: Śrimadbhagavadgīta**

### Course Contents:

- a) Karmayoga (third chapter)
- b) Guṇatrayabibhāga (fourteenth chapter)

### Suggested Readings:

- Śrimadbhagavadgīta: Madhusudan Saraswati
- Śrimadbhagavadgīta: Atul Chandra Sen
- Śrigīta: Jagadish Chandra Ghosh
- Gitanibandha: Sri Aurobindo
- Śrimadbhagavadgīta: Swami Jagadiswarananda (Tran.)
- Ethics in the Gita- An Analytical Study : Rajendra Prasad
- Central Theme of Gita : Swami Ranganathananda

### DSE-4:

(Any one philosophical system from following philosophical systems of contemporary Indian thought)

[DSE-4A: Swami Vivekananda

Or

DSE-4B: Rabindranath Tagore

Or

DSE-4C: Sri Aurobindo

Or

DSE-4D: M.K. Gandhi]

**DSE-4A: Swami Vivekananda**

**Credits 06**



## DSE4AT: Swami Vivekananda

### Course Contents:

- a) Real nature of man.
- b) Nature of Religion.
- c) Ideal of Universal Religion.
- d) Concept of Practical Vedanta.

### Suggested Readings:

- Contemporary Indian Philosophy: T.M.P. Mahadevan & G.V. Saroja
- Contemporary Indian Philosophy: Basant Kumar Lal
- Contemporary Indian Philosophy: Binoy Gopal Roy
- Practical Vedanta (Vol.II,pp-291-358): Swami Vivekananda
- Swami Vivekananda as a Philosopher: J.L. Shaw
- The Philosophy of Swami Vivekananda: Pradip Kumar Sengupta
- The Complete Works of Swami Vivekananda (Vol.I,pp-333-343 & II,pp-70-87,375-396): Mayavati Memorial Edition
- The Philosophy of Vivekananda: Govinda Dev

Or

## DSE-4B: Rabindranath Tagore

Credits 06

## DSE4BT: Rabindranath Tagore

### Course Contents:

- a) Reality and God.
- b) Nature of Man.
- c) Surplus in man.
- d) Nature of Religion.
- e) Tagore's Humanism.

### Suggested Readings:

- Contemporary Indian Philosophy: T.M.P. Mahadevan & G.V. Saroja
- Contemporary Indian Philosophy: Basant Kumar Lal
- Contemporary Indian Philosophy: Binoy Gopal Roy
- Religion of Man: Rabindranath Tagore
- Philosophy of Rabindranath Tagore: S. Radhakrishnan
- Rabindra Rachanabali (Khanda 12,pp-532-545,567-614): Janmashatbarshiki Samskaran
- Rabindra Darsan: Sachindranath Gangopadhyay, Pabitra Kumar Roy, Nripendranath Bandyopadhyay.
- The Philosophy of Rabindranath Tagore : Binay Gopal Roy

Or

**DSE-4C: Sri Aurobindo**

**Credits 06**

**DSE4CT: Sri Aurobindo**

**Course Contents:**

- a) Reality as Sat-Cit-Ānanda
- b) Nature of Creation, the World process: Descent or involution, Maya and Lila, Ascent or evolution.
- c) Integral Yoga.

**Suggested Readings:**

- Contemporary Indian Philosophy: T.M.P. Mahadevan & G.V. Saroja
- Contemporary Indian Philosophy: Basant Kumar Lal
- Contemporary Indian Philosophy: Binoy Gopal Roy
- Life Divine: Sri Aurobindo
- Synthesis of Yoga: Sri Aurobindo
- Integral Yoga: Sri Aurobindo
- Among the Great: Dilip Kumar Roy (Chapter on Sri Auribinda)
- Towards Supermankind-The Philosophy of Sri Aurobindo: P.B. Chatterjee
- The Philosophy of Sri Aurobindo: Ramnath Sharma
- An Introduction to the Philosophy of Sri Aurobindo: S.K. Maitra
- Guide to Sri Aurobindo's Philosophy: K.D. Acharya
- Future Evolution of Man-The Divine Life Upon Earth: Sri Aurobindo
- Sri Aurobindo-The Prophet of Life Divine: Haridas Choudhuri
- Sri Aurobindo's Concept of the Superman: Chittaranjan Goswami
- Visva-Vivek: Asit kumar Bandyopadhyay, Sankari Prasad Basu, Sankar
- Manavjatir Bhabiswat Bibartan: Sri Aurobindo Ghosh
- Sri Aurobindo Katha: manmatho Mukhopadhyaya
- Divya Jivan: Srimat Anirban
- Yogo-samannay: Srimat Anirban
- Sri Aurobindo Janmo Satabarshiki Smarak Grantha: Sri Aurobindo Patha Mandir

Or

**DSE-4D: M.K.Gandhi**

**Credits 06**

**DSE4DT: M.K.Gandhi**

**Course Contents:**

- a) God and Truth.
- b) Nature of Man.
- c) Non-Violence
- d) Satyāgraha.
- e) Swaraj
- f) Theory of Trusteeship

**Suggested Readings:**

- Contemporary Indian Philosophy: T.M.P. Mahadevan & G.V. Saroja
- Contemporary Indian Philosophy: Basant Kumar Lal
- Contemporary Indian Philosophy: Binoy Gopal Roy
- Hind Swaraj: M.K. Gandhi
- Trusteeship; M.K. Gandhi
- Selections from Gandhi: N.K. Bose
- Contemporary Indian Philosophy: S,Radhakrishnan& J.H. Murihead (eds.)
- The Evolution of Political Philosophy of Gandhi: Buddhadeb Bhattacharya
- Social and Political Thought of Gandhi: Jayantanuja Bandyopadhyay
- The Philosophy of Mahatma Gandhi: D.M. Dutta
- The Philosophy of Sarvodaya: K.S. Bharathi
- Gandhi's Political Philosophy: Bhikhu Parekh
- Sarvodaya Andoloner Itihas: Gurudas Bandyopadhyay
- Gandhi Parikrama: Sailesh Kumar Bandyopadhyay
- Gandhi Rachanasambhar: M.K. Gandhi

### *Skill Enhancement Course (SEC)*

#### **SEC-1: Computer Application**

**Credits 02**

#### **SEC1T: Computer Application**

##### **Course Contents:**

- a) Computer and its Basic Organisation, Working with Flow Charts
- b) Working with tools in MS Word
- c) Introduction to spreadsheets (MS Excel)
- d) First step to Multimedia Presentation (MS Power point)
- e) Internet and E mail services
- f) Computer virus, Ethical hacking.

##### **Suggested Readings:**

- Understanding Information Technology 7: Vijay Kumar Pandey, Arya Publishing Company
- Computer Fundamentals: P.K. Sinha
- Computer Fundamentals and Programming: P.Dey& M.Ghosh
- Microsoft Word [Version 97, 2000, 2002 (XP)]: Mahbabur Rahaman

Or

#### **SEC-1: Philosophy of Human Rights**

**Credits 02**

#### **SEC1T: Philosophy of Human Rights**

##### **Course Contents:**

- a) Definition and Nature of Human Rights
- b) The Idea of Human Rights: Its Origins and Historical Developments during Ancient period, Modern period and Contemporary period

- c) The Idea of Natural Law and Natural Rights: Thomas Hobbes and John Locke.
- d) The Natural Rights Tradition: Some Reactions from Jeremy Bentham, Edmund Burke and Thomas Paine
- e) Natural Right, Fundamental Right and Human Right
- f) Preamble, Fundamental Rights and Duties (Indian Constitution)
- g) Contemporary Perspectives: Joel Feinberg—Basic Rights

### Suggested Readings:

- Patrick Hayden (ed.): The Philosophy of Human Rights, Paragon House, St. Paul, First Edition,
- Morton E. Winston (ed.): The Philosophy of Human Rights, Wadsworth Publishing Co. Belmont, California,
- Jeremy Waldron (ed.): Theories of Rights, Oxford University Press, Oxford, 1984
- Ashwani Peetush and Jay Drydyk: Human Rights: *India and West*, Oxford University Press, New Delhi,
- James Nickel: Making Sense of Human Rights, Blackwell Publishing, Oxford,
- Henry Shue: Basic Rights: Subsistence, Affluence and U. S. Foreign Policy, Princeton University Press, Princeton,
- Gary, B. Herbert: Philosophical History of Human rights, Transaction Publishers, New Jersey
- Michael Freedon: Rights, Worldview Publications, New Delhi, 1998.
- Lynn Hunt: Inventing Human Rights: A History, Norton & Company, New York,
- Jack Donnelly: Universal Human rights in Theory and Practice, Manas Publications, New Delhi,

### SEC-2: Value Education

Credits 02

### SEC2T: Value Education

### Course Contents:

- a) Meaning, Characteristics, significance and objectives of Value education
- b) Values in different contexts: Individual, Social, Cultural, Moral and Global and Spiritual.
- c) Meaning and Characteristics of Peace education
- d) Aims and Objectives of Peace Education
- e) Types of peace education
- f) Peace and Value education in Global Perspective

### Suggested Readings:

- Introduction to Peace Studies: David P. Barash Belmont
- 'International Relations', in The English Writings of Rabindranath Tagore: A Miscellany, (ed) Sisir Kumar Das: Rabindra Nath Tagore New Delhi: Sahitya Akademi.
- Handbook of Peace and Conflict Studies: Charles Webel and Johan Galtung(eds.), Routledge, London and New York,
- Peace and Value Education: Babu Muthuja,

- Philosophy of Value: Aditya Mohanty

Or

SEC -2: **Man and Environment**

Credits 02

SEC2T: **Man and Environment**

**Course Contents:**

**a) Classical Indian attitude to Environment**

- a. The Upanisadic world-view,
- b. Tagore's understanding of nature,
- c. The post-Upanisadic view of nature

**b) Respect for Nature**

- a. The attitude of respect,
- b. Bio-centric outlook to nature,
- c. Ethical standards and rules that follow from the attitude of respect to nature,
- d. The idea of inherent worth of nature.

**c) Intrinsic Value of nature**

- a. Moore's talk of 'intrinsic properties',
- b. Chilsom's idea of intrinsic value,
- c. Attfield on the intrinsic value of nature,
- d. Callicott's idea of intrinsic value of nature,
- e. Rolston III on intrinsic value of nature,
- f. intrinsic value and objective value

**d) Deep ecology and its third world critique**

- a. Arne Naess on Deep Ecology,
- b. Ramchandra Guha's critique of Deep Ecology

**e) Eco-feminism**

- a. Understanding nature and the feminine,
- b. Dualisms in Western tradition,
- c. Masculinity, humanity and nature.

**Suggested Readings**

- John Passmore, 'Attitudes to Nature', Environmental Ethics (ed.) Robert Elliot, Oxford University Press, Oxford,
- Rabindranath Tagore, Sadhana (first Chapter), Macmillan, New York,
- Paul Taylor, Respect for Nature: A Theory of Environmental Ethics (Select Parts), Princeton University Press, Princeton,
- Robert Elliot, 'Intrinsic value, Environmental Obligation and Naturalness', Monist,
- Arne Naess, 'The Shallow and the Deep, Long-Range Ecology Movements: A Summary', Inquiry,
- Val Plumwood, Nature, Self and Gender: Feminism, Environmental Philosophy and the Critique of Rationalism, Environmental Ethics (ed.) Robert Elliot, Oxford University Press, Oxford,

- Nirmalya Narayan Chakraborty, Paribesh o Naitikata, Progressive Book Forum, Kolkata.

**Generic Elective (GE)**  
**[Interdisciplinary for other department]**

**GE-1: Ethics: Indian and Western**

**Credits 06**

**GE1T: Ethics: Indian and Western**

**Course Contents:**

- Four Purusarthās – dharma, artha, kāma and mokṣa and their interrelation. Karma (Sakāma & Niṣkāma), Cārvāka Ethics.
- Buddhist Ethics: The Four Noble Truths and the Eight-Fold Path.
- Moral and Non-Moral Actions, Object of Moral Judgement.
- Teleological Ethics: Utilitarianism (Bentham and Mill). Deontological Ethics: Kant's Moral Theory.
- Theories of Punishment.

**Suggested Readings:**

- The Fundamentals of Hinduism-A Philosophical Study: S.C. Chatterje
- Nitividya: Shibapada Chakrabarty
- Nitividyar Tattvakatha: Somnath Chakrabarty
- Nitisastra: Dikshit Gupta
- An Introduction to Ethics: W. Lillie

**Or**

**GE-1: Western Logic**

**Credits 06**

**GE1T: Western Logic**

**Course Contents:**

- Introductory topics: Sentence, proposition, argument, truth and validity.
- Aristotelian classification of categorical propositions, distribution of terms. Existential Import,
- Boolean interpretation of categorical propositions. Immediate inference. Immediate inference based on the square of opposition, conversion, obversion and contraposition.
- Categorical syllogism: Figure, mood, rules for validity, Venn Diagram method of testing validity, fallacies.
- Symbolic Logic: Use of symbols, Truth-functions: Negation, Conjunction, disjunction, implication, equivalence.
- Tautology, Contradiction, Contingent statement forms. Construction of truth-table, using truth-tables for testing the validity of arguments and statement forms.
- Mill's methods of experimental inquiry.

**Suggested Readings:**

- Introduction to Logic (13th edn): I.M. Copi and C. Cohen
- Paschatya Darshan O Yuktivijnan: Ramaprasad Das
- Paschatya Darsan O Yuktivijnan: Samir Kumar Chakrabarty

**GE-2: Feminism**

**Credits 06**

**GE2T: Feminism**

**Course Contents:**

- a) Original Development of Feminist Thought.
- b) Philosophical basis of Feminism.
- c) Different Branches of Feminism.
- d) Important issues of Feminism: Feminist Ethics. some basic concepts of Feminism: Sexism, Patriarchy and Androcentricism. The Ethics of Care.

**Suggested Readings:**

- Feminist Thought: Androcentrism, Communication and Objectivity: Shefali Moitra, Munshiram Monoharlal Publishers Pvt. Ltd., 2002, New Delhi
- Understanding Gender: Kamla Bhasin, Women Unlimited, 2001, New Delhi
- Handbook of Feminist Theory : Lisa Disch And Mary Hawkesworth, Oxford University Press, 2016
- Practical Ethics: Peter Singer
- Applied Ethics: Peter Singer
- Redefining Ethics As Care: Bidisha Mukherjee, Papyrus, Kolkata 2008
- The Ethics Of Care : Virginia Held
- The Core Of Care Ethics : S. Collins, P. Macmillan Publishers, 2015
- In a Different Voice : Gilligan, C., Harvard University Press, 1982
- Naitikata O Narivada : Shefali Moitra
- Nitividyā: Samarendra Bhattacharya

**Or**

**GE-2: Philosophy of Mind**

**Credits 06**

**GE2T: Philosophy of Mind**

**Course Contents:**

- a) Sensation: What is sensation? Attributes of sensation.
- b) Perception: What is perception? Relation between sensation and perception, Gestalt theory of perception, illusion and hallucination.
- c) Consciousness: Conscious, Subconscious, Unconscious, Evidence for the existence of the Unconscious, Freud's theory of dream.
- d) Memory: Factors of memory, Laws of association, Forgetfulness. Learning: The trial and Error theory, Pavlov's Conditioned Response theory, Gestalt theory.
- e) Intelligence: Measurement of Intelligence, I.Q., Test of Intelligence, Binnet-Simon test.



**GE-3: Theory of Inference in Nyāya**

**Credits 06**

**GE3T: Theory of Inference in Nyāya**

**Course Contents:**

- a. Definition & classification of Anumiti.
- b. Importance of Pañcabayabinyāya.

**Suggested Readings:**

- Nyāya Theory of Knowledge: S.C. Chatterjee
- Six ways of Knowing: D.M. Dutta
- Bhāṣāpariccheda Siddhāntamuktāvalisahita: Pañcānan Shastri
- Tarkasamgraha with Dīpika: Annambhatta, translated by Narayan Chandra Goswami.

**Or**

**GE-3: Theory of God in Nyāya Metaphysics**

**Credits 06**

**GE3T: Theory of God in Nyāya Metaphysics.**

**Course Contents:**

- a. Relevance of the acceptance of God in Nyāya.
- b. Arguments in favour of the existence of God.

**Suggested Readings:**

- Udayanācāryakṛita Nyāyakusumānjali: Shyamapada Misra
- Nyāyatattvaparikramā: Kalikrishna Bandopadhyaya

**GE- 4: Environmental Ethics**

**Credits 06**

**GE4T: Environmental Ethics**

**Course Contents:**

- a. Anthropocentrism & Non-anthropocentrism.
- b. Holism.

**Suggested Readings:**

- The Economy of the Earth: Philosophy, Law and the Environment, Second Edition-Mark Sagoff.
- Ethics and the Environment: An Introduction-Dale Jamieson.
- Falita Nītiśāstra, First edition – Dr. Santosh Kumar Pal.

**Or**

**GE- 4: Termination of Life & Ethics**

**Credits 06**

**GE4T: Termination of Life & Ethics**

**Course Contents:**

- a. Euthanasia.
- b. Abortion.

**Suggested Readings:**

- Practical Ethics, Second Edition, Cambridge University Press- Peter Singer.
- A Companion to Bio-ethics, Blackwell Publisher – Peter Singer and Helga Kuhse.

# VIDYASAGAR UNIVERSITY



## Curriculum for 3-Year B. A (HONOURS) in Political Science

Under Choice Based Credit System (CBCS)  
w.e.f 2018-2019

**VIDYASAGAR UNIVERSITY**  
**B A (Honours) in Political Science**  
[Choice Based Credit System]

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
							CA	ESE	TOTAL	
<b>Semester-I</b>										
1	I	Core-1		CT1: Understanding Political Theory	6	5-1-0	15	60	75	
		Core-2		CT2: Constitutional Government and Democracy in India	6	5-1-0	15	60	75	
		GE-1		TBD	6	5-1-0/ 4-0-4	15	60	75	
	AECC-1		English/MIL	2	1-1-0	10	40	50		
	<b>Semester –I: total</b>					<b>20</b>			<b>275</b>	
	<b>Semester-II</b>									
	II	Core-3		CT3: Political Theory – Concepts and Debates	6	5-1-0	15	60	75	
		Core-4		CT4: Political Process in India	6	5-1-0	15	60	75	
		GE-2		TBD	6	5-1-0/ 4-0-4	15	60	75	
AECC-2			ENVS	4		20	80	100		
<b>Semester-II : total</b>					<b>22</b>			<b>325</b>		

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
							CA	ESE	TOTAL	
<b>Semester-III</b>										
2	III	Core-5		CT5: Introduction to Comparative Government and Politics	6	5-1-0	15	60	75	
		Core-6		CT6: Perspectives on Public Administration	6	5-1-0	15	60	75	
		Core-7		CT7: Perspectives on International Relations and World History	6	5-1-0	15	60	75	
		GE-3		TBD	6	5-1-0/ 4-0-4	15	60	75	
		SEC-1		TBD		2				1-1-0
	<b>Semester – III : total</b>					<b>26</b>				<b>350</b>
	<b>Semester-IV</b>									
	IV	Core-8		CT8: Political Processes and Institutions in Comparative Perspective	6	5-1-0	15	60	75	
		Core-9		CT9: Public Policy and Administration in India	6	5-1-0	15	60	75	
		Core-10		CT10:Global Politics	6	5-1-0	15	60	75	
GE-4			TBD	6	5-1-0/ 4-0-4	15	60	75		
SEC-2			TBD		2				1-0-0	10
<b>Semester – IV : total</b>					<b>26</b>				<b>350</b>	

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
							CA	ESE	TOTAL	
		<b>Semester-V</b>								
<b>3</b>	<b>V</b>	Core-11		CT11: Classical Political Philosophy	6	5-1-0	15	60	75	
		Core-12		CT12: Modern Indian political Thought -I	6	5-1-0	15	60	75	
		DSE-1		TBD	6	5-1-0	15	60	75	
		DSE-2		TBD	6	5-1-0	15	60	75	
		<b>Semester –V : total</b>				<b>24</b>				<b>300</b>
			<b>Semester-VI</b>							
	<b>VI</b>	Core-13		CT13: Modern Political Philosophy	6	5-1-0	15	60	75	
		Core-14		CT14: Indian Political Thought - II	6	5-1-0	15	60	75	
		DSE-3		TBD	6	5-1-0	15	60	75	
DSE-4			TBD	6	5-1-0	15	60	75		
		<b>Semester – VI : total</b>				<b>24</b>			<b>300</b>	
<b>Total in all semester:</b>					<b>142</b>				<b>1900</b>	

**CC** = Core Course , **AECC** = Ability Enhancement Compulsory Course , **GE** = Generic Elective , **SEC** = Skill Enhancement Course , **DSE** = Discipline Specific Elective , **CA**= Continuous Assessment , **ESE**= End Semester Examination , **TBD**=To be decided , **CT** = Core Theory, **L** = Lecture, **T** = Tutorial ,**P** = Practical , **MIL** = Modern Indian Language , **ENVS** = Environmental Studies ,

**List of the Core courses and Electives**

**CORE COURSE (CC)**

- CC-1: Understanding Political Theory
- CC-2: Constitutional Government and Democracy in India
- CC-3: Political Theory-Concepts and Debates
- CC-4: Political Process in India
- CC-5: Introduction to Comparative Government and Politics
- CC-6: Perspectives on Public Administration
- CC-7: Perspectives on International Relations and World History
- CC-8: Political Processes and Institutions in Comparative Perspective
- CC-9: Public Policy and Administration in India
- CC-10: Global Politics
- CC-11: Classical Political Philosophy
- CC-12: Indian Political Thought-I
- CC-13: Modern Political Philosophy
- CC-14: Indian Political Thought-II

**Discipline Specific Elective (DSE)**

- DSE-1: India's Foreign Policy in a Globalizing World
- Or
- DSE-1: Development Process and Social Movements in Contemporary India
- DSE-2: Understanding South Asia
- Or
- DSE-2: United Nations and Global Conflicts
- DSE-3: Citizenship in a Globalizing World
- Or
- DSE-3 : Women, Power and Politics
- DSE-4: Human Rights in a Comparative Perspective
- Or
- DSE-4: Project Work

**Skill Enhancement Courses(SEC)**

- SEC-1: Democratic Awareness with Legal Literacy
- Or
- SEC-1: Public Opinion and Survey Research
- SEC-2: Legislative Practices and Procedures
- Or
- SEC-2: Peace and Conflict Resolution

**Generic Elective (GE)**

***[Interdisciplinary for other department]***

- GE-1: Nationalism in India
- Or
- GE-1: Feminism: Theory and Practice
- GE-2: Contemporary Political Economy
- Or
- GE-2: Governance: Issues and Challenges
- GE-3: Gandhi and the Contemporary World
- Or
- GE-3: Understanding Ambedkar
- GE-4: Politics of Globalization
- Or
- GE-4: United Nations and Global Conflicts

## CORE COURSE (CC)

**CC-1: Understanding Political Theory**

**Credit 06**

**C1T: Understanding Political Theory**

### **I: Introducing Political Theory**

1. What is Politics: Theorizing the 'Political'
2. Traditions of Political Theory: Liberal, Marxist, Anarchist and Conservative
3. Approaches to Political Theory: Normative, Historical and Empirical
4. Critical and Contemporary Perspectives in Political Theory: Feminist and Postmodern

### **II: Political Theory and Practice**

#### **The Grammar of Democracy**

1. Democracy: The history of an idea
2. Procedural Democracy and its critique
3. Deliberative Democracy
4. Participation and Representation

### **Suggested Readings**

- Bhargava, R. (2008) 'What is Political Theory', in Bhargava, R and Acharya, A. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 2-16.
- Bellamy, R. (1993) 'Introduction: The Demise and Rise of Political Theory', in Bellamy, R. (ed.) *Theories and Concepts of Politics*. New York: Manchester University Press, pp. 1-14.
- Glaser, D. (1995) 'Normative Theory', in Marsh, D. and Stoker, G. (eds.) *Theory and Methods in Political Science*. London: Macmillan, pp. 21-40.
- Sanders, D. (1995) 'Behavioral Analysis', in Marsh, D. and Stoker, G. (eds.) *Theory and Methods in Political Science*. London: Macmillan, pp. 58-75.
- Chapman, J. (1995) 'The Feminist Perspective', in Marsh, D. and Stoker, G. (eds.) *Theory and Methods in Political Science*. London: Macmillan, pp. 94-114.
- Bhargava, R. 'Why Do We Need Political Theory', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 17-36.
- Bannett, J. (2004) 'Postmodern Approach to Political Theory', in Kukathas, Ch. and Gaus, G. F. (eds.) *Handbook of Political Theory*. New Delhi: Sage, pp. 46-54.
- Vincent, A. (2004) *The Nature of Political Theory*. New York: Oxford University Press, 2004, pp.19-80.
- Srinivasan, J. (2008) 'Democracy', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 106-128.



- Owen, D. (2003) 'Democracy', in Bellamy, R. and Mason, A. (eds.) *Political Concepts*. Manchester and New York: Manchester University Press, pp. 105-117.
- Christiano, Th. (2008) 'Democracy', in Mckinnon, C. (ed.) *Issues in Political Theory*, New York: Oxford University Press, pp. 80-96.
- Arblaster, A. (1994) *Democracy*. (2nd Edition). Buckingham: Open University Press.
- Roy, A. 'Citizenship', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 130-146.
- Brighouse, H. (2008) 'Citizenship', in Mckinnon, C. (ed.) *Issues in Political Theory*, New York: Oxford University Press, pp. 241-258.

## **CC-2: Constitutional Government and Democracy in India**

**Credit 06**

### **C2T: Constitutional Government and Democracy in India**

#### **I. The Constituent Assembly and the Constitution**

- a. Philosophy of the Constitution, the Preamble, and Features of the Constitution
- b. Fundamental Rights and Directive Principles

#### **II. Organs of Government**

- a. The Legislature: Parliament (1.5 weeks or 6 lectures)
- b. The Executive: President and Prime Minister
- c. The Judiciary: Supreme Court

#### **III. Federalism and Decentralization**

- a. Federalism: Division of Powers, Emergency Provisions, Fifth and Sixth Schedules
- b. Panchayati Raj and Municipalities

#### **Suggested Readings:**

- G. Austin, (2010) 'The Constituent Assembly: Microcosm in Action', in *The Indian Constitution: Cornerstone of a Nation*, New Delhi: Oxford University Press, 15th print, pp.1-
- R. Bhargava, (2008) 'Introduction: Outline of a Political Theory of the Indian Constitution', in
- R. Bhargava (ed.) *Politics and Ethics of the Indian Constitution*, New Delhi: Oxford University Press, pp. 1-40.
- D. Basu, (2012) *Introduction to the Constitution of India*, New Delhi: Lexis Nexis.
- S. Chaube, (2009) *The Making and Working of the Indian Constitution*, Delhi: National Book Trust.

- G. Austin, (2000) 'The Social Revolution and the First Amendment', in *Working a Democratic Constitution*, New Delhi: Oxford University Press, pp. 69-98. Sibal, (2010) 'From Niti to Nyaya,' *Seminar*, Issue 615, pp 28-34.
- *The Constitution of India: Bare Act with Short Notes*, (2011) New Delhi: Universal, pp. 4-16.
- Shankar and V. Rodrigues, (2011) 'The Changing Conception of Representation: Issues, Concerns and Institutions', in *The Indian Parliament: A Democracy at Work*, New Delhi: Oxford University Press, pp. 105-173.
- V. Hewitt and S. Rai, (2010) 'Parliament', in P. Mehta and N. Jayal (eds.) *The Oxford Companion to Politics in India*, New Delhi: Oxford University Press, pp. 28-42.
- J. Manor, (2005) 'The Presidency', in D. Kapur and P. Mehta P. (eds.) *Public Institutions in India*, New Delhi: Oxford University Press, pp.105-127.
- J. Manor, (1994) 'The Prime Minister and the President', in B. Dua and J. Manor (eds.) *Nehru to the Nineties: The Changing Office of the Prime Minister in India*, Vancouver: University of British Columbia Press, pp. 20-47.
- H. Khare, (2003) 'Prime Minister and the Parliament: Redefining Accountability in the Age of Coalition Government', in A. Mehra and G. Kueck (eds.) *The Indian Parliament: A Comparative Perspective*, New Delhi: Konark, pp. 350-368.
- U. Baxi, (2010) 'The Judiciary as a Resource for Indian Democracy', *Seminar*, Issue 615, pp. 61-67.
- R. Ramachandran, (2006) 'The Supreme Court and the Basic Structure Doctrine' in B. Kirpal et.al (eds.) *Supreme but not Infallible: Essays in Honour of the Supreme Court of India*, New Delhi: Oxford University Press, pp. 107-133.
- L. Rudolph and S. Rudolph, (2008) 'Judicial Review Versus Parliamentary Sovereignty', in *Explaining Indian Institutions: A Fifty Year Perspective, 1956-2006: Volume 2: The Realm of Institutions: State Formation and Institutional Change*. New Delhi: Oxford University Press, pp. 183-210.
- M. Singh, and R. Saxena (eds.), (2011) 'Towards Greater Federalization,' in *Indian Politics: Constitutional Foundations and Institutional Functioning*, Delhi: PHI Learning Private Ltd., pp. 166-195.
- V. Marwah, (1995) 'Use and Abuse of Emergency Powers: The Indian Experience', in B. Arora and D. Verney (eds.) *Multiple Identities in a Single State: Indian Federalism in a Comparative Perspective*, Delhi: Konark, pp. 136-159.
- Sharma, (2010) 'The 1990s: Great Expectations'; 'The 2000s: Disillusionment Unfathomable', in *Unbroken History of Broken Promises: Indian State and Tribal People*, Delhi: Freedom Press and Sahyog Pustak Kuteer, pp. 64-91.

- *The Constitution of India: Bare Act with Short Notes*, (2011) New Delhi: Universal, pp 192- 213.
- R. Dhavan and R. Saxena, (2006) 'The Republic of India', in K. Roy, C. Saunders and J. Kincaid (eds.) *A Global Dialogue on Federalism*, Volume 3, Montreal: Queen's University Press, pp. 166-197.
- R. Manchanda, (2009) *The No Nonsense Guide to Minority Rights in South Asia*, Delhi: Sage Publications, pp. 105-109.
- P. deSouza, (2002) 'Decentralization and Local Government: The Second Wind of Democracy in India', in Z. Hasan, E. Sridharan and R. Sudarshan (eds.) *India's Living Constitution: Ideas, Practices and Controversies*, New Delhi: Permanent Black, pp. 370-404.
- M. John, (2007) 'Women in Power? Gender, Caste and Politics of Local Urban Governance', in *Economic and Political Weekly*, Vol. 42(39), pp. 3986-3993.
- Raghunandan, J. R (2012) *Decentralization and local governments: The Indian Experience*, Orient Black Swan, New Delhi
- Baviskar, B.S and George Mathew (eds) 2009 *Inclusion and Exclusion in local governance: Field Studies from rural India*, New Delhi, Sage

### **CC-3: Political Theory-Concepts and Debates**

**Credit 06**

### **C3T: Political Theory-Concepts and Debates**

#### **Section A: Core Concepts**

#### **I. Importance of Freedom**

- a. Negative Freedom: Liberty
- b. Positive Freedom: Freedom as Emancipation and Development

*Important Issue:* Freedom of belief, expression and dissent

#### **II. Significance of Equality**

- a. Formal Equality: Equality of opportunity
- b. Political equality
- c. Egalitarianism: Background inequalities and differential treatment

*Important Issue:* Affirmative action

#### **III. Indispensability of Justice**

- a. Procedural Justice
- b. Distributive Justice
- c. Global Justice

*Important Issue:* Capital punishment

#### **IV. The Universality of Rights**

- a. Natural Rights



- b. Moral and Legal Rights
- c. Three Generations of Rights
- d. Rights and Obligations  
*Important Issue: Rights of the girl child*

**Section B: Major Debates**

- a. Why should we obey the state? Issues of political obligation and civil disobedience.
- b. Are human rights universal? Issue of cultural relativism.
- c. How do we accommodate diversity in plural society? Issues of multiculturalism and toleration.

**Suggested Readings:**

- Riley, Jonathan. (2008) 'Liberty' in Mckinnon, Catriona (ed.) *Issues in Political Theory*, New York: Oxford University Press, pp. 103-119.
- Knowles, Dudley. (2001) *Political Philosophy*. London: Routledge, pp. 69- 132.
- Swift, Adam. (2001) *Political Philosophy: A Beginners Guide for Student's and Politicians*. Cambridge: Polity Press, pp. 51-88.
- Carter, Ian. (2003) 'Liberty', in Bellamy, Richard and Mason, Andrew (eds.). *Political Concepts*. Manchester: Manchester University Press, pp. 4-15.
- Sethi, Aarti. (2008) 'Freedom of Speech and the Question of Censorship', in Bhargava, Rajeev and Acharya, Ashok. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 308-319.
- Swift, Adam. (2001) *Political Philosophy: A Beginners Guide for Student's and Politicians*. Cambridge: Polity Press, pp. 91-132.
- Casal, Paula & William, Andrew. (2008) 'Equality', in McKinnon, Catriona. (ed.) *Issues in Political Theory*. New York: Oxford University Press, pp. 149- 165.
- Acharya, Ashok. (2008) 'Affirmative Action', in Bhargava, Rajeev and Acharya, Ashok. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 298-307.
- Menon, Krishna. (2008) 'Justice', in Bhargava, Rajeev and Acharya, Ashok. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 74-86.
- Wolf, Jonathan. (2008) 'Social Justice', in McKinnon, Catriona. (ed.) *Issues in Political Theory*. New York: Oxford University Press, pp. 172-187.
- Swift, Adam. (2001) *Political Philosophy: A Beginners Guide for Student's and Politicians*. Cambridge: Polity Press, pp. 9-48.
- Knowles, Dudley. (2001) *Political Philosophy*. London: Routledge, pp. 177-238.

- McKinnon, Catriona. (ed.) (2008) *Issues in Political Theory*. New York: Oxford University Press, pp. 289-305.
- Bedau, Hugo Adam. (2003) 'Capital Punishment', in LaFollette, Hugh (ed.). *The Oxford Handbook of Practical Ethics*. New York: Oxford University Press, pp. 705-733.
- Seglow, Jonathan. (2003) 'Multiculturalism' in Bellamy, Richard and Mason, Andrew (eds.). *Political Concepts*. Manchester: Manchester University Press, pp. 156-168.
- Tulkdar, P.S. (2008) 'Rights' in Bhargava, Rajeev and Acharya, Ashok. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 88-104.
- McKinnon, Catriona. (2003) 'Rights', in Bellamy, Richard and Mason, Andrew. (eds.) *Political Concepts*. Manchester: Manchester University Press, pp. 16-27.
- Menlowe, M.A. (1993) 'Political Obligations', in Bellamy Richard.(ed.) *Theories and Concepts of Politics*. New York: Manchester University Press, pp. 174-194.
- Amoah, Jewel. (2007) 'The World on Her Shoulders: The Rights of the Girl-Child in the Context of Culture & Identity', in *Essex Human Rights Review*, 4(2), pp. 1-23.
- Working Group on the Girl Child (2007), *A Girl's Right to Live: Female Foeticide and Girl Infanticide*, available on [http://www.crin.org/docs/Girl's infanticide CSW 2007.txt](http://www.crin.org/docs/Girl's%20infanticide%20CSW%202007.txt)
- Hyums, Keith. (2008) 'Political Authority and Obligation', in Mckinnon, Catriona. (ed.) *Issues in Political Theory*, New York: Oxford University Press, pp. 9-26
- Martin, Rex. (2003) 'Political Obligation', in Bellamy, Richard and Mason, Andrew. (eds.) *Political Concepts*, Manchester: Manchester University Press, pp. 41-51.
- Campbell, Tom. (2008) 'Human Rights' in Mckinnon, Catriona. (ed.) *Issues in Political Theory*. New York: Oxford University Press, pp. 194-210.
- Mookherjee, Monica, 'Multiculturalism', in Mckinnon, Catriona. (ed.) *Issues in Political Theory*. New York: Oxford University Press, pp. 218- 234.
- Seglow, Jonathan, 'Multiculturalism', in Bellamy, Richard and Mason, Andrew. (eds.) *Political Concepts*, Manchester: Manchester University Press, pp. 156-168.

**CC-4: Political Process in India**

**Credit 06**

**C4T: Political Process in India**

**i. I. Political Parties and the Party System**

- Trends in the Party System; From the Congress System to Multi-Party Coalitions
- ii. **Determinants of Voting Behaviour**  
Caste, Class, Gender and Religion
  - iii. **III. Regional Aspirations**  
The Politics of Secession and Accommodation
  - iv. **IV. Religion and Politics**  
Debates on Secularism; Minority and Majority Communalism
  - v. **V. Caste and Politics**  
Caste in Politics and the Politicization of Caste
  - vi. **VI. Affirmative Action Policies**  
Women, Caste and Class
  - vii. **VII. The Changing Nature of the Indian State**  
Developmental, Welfare and Coercive Dimensions

**Suggested Readings:**

- R. Kothari, (2002) 'The Congress System', in Z. Hasan (ed.) *Parties and Party Politics in India*, New Delhi: Oxford University Press, pp 39-55.
- E. Sridharan, (2012) 'Introduction: Theorizing Democratic Consolidation, Parties and Coalitions', in *Coalition Politics and Democratic Consolidation in Asia*, New Delhi: Oxford University Press.
- Y. Yadav and S. Palshikar, (2006) 'Party System and Electoral Politics in the Indian States, 1952-2002: From Hegemony to Convergence', in P. deSouza and E. Sridharan (eds.) *India's Political Parties*, New Delhi: Sage Publications, pp. 73-115.
- Y. Yadav, (2000) 'Understanding the Second Democratic Upsurge', in F. Frankel, Z. Hasan, and R. Bhargava (eds.) *Transforming India: Social and Political Dynamics in Democracy*, New Delhi: Oxford University Press, pp. 120-145.
- C. Jaffrelot, (2008) 'Why Should We Vote? The Indian Middle Class and the Functioning of World's Largest Democracy', in *Religion, Caste and Politics in India*, Delhi: Primus, pp. 604- 619.
- R. Deshpande, (2004) 'How Gendered was Women's Participation in Elections 2004?', *Economic and Political Weekly*, Vol. 39, No. 51, pp. 5431-5436.
- S. Kumar, (2009) 'Religious Practices Among Indian Hindus,' *Japanese Journal of Political Science*, Vol. 10, No. 3, pp. 313-332.
- M. Chadda, (2010) 'Integration through Internal Reorganisation', in S. Baruah (ed.) *Ethnonationalism in India: A Reader*, New Delhi: Oxford University Press, pp. 379-402.

- P. Brass, (1999) 'Crisis of National Unity: Punjab, the Northeast and Kashmir', in *The Politics of India Since Independence*, New Delhi: Cambridge University Press and Foundation Books, pp.192-227.
- T. Pantham, (2004) 'Understanding Indian Secularism: Learning from its Recent Critics', in R. Vora and S. Palshikar (eds.) *Indian Democracy: Meanings and Practices*, New Delhi: Sage, pp. 235-256.
- N. Menon and A. Nigam, (2007) 'Politics of Hindutva and the Minorities', in *Power and Contestation: India since 1989*, London: Fernwood Publishing, Halifax and Zed Books, pp.36- 60.
- N. Chandhoke, (2010) 'Secularism', in P. Mehta and N. Jayal (eds.) *The Oxford Companion to Politics in India*, New Delhi: Oxford University Press, pp. 333-346.
- R. Kothari, (1970) 'Introduction', in *Caste in Indian Politics*, Delhi: Orient Longman, pp.3-25.
- M. Weiner, (2001) 'The Struggle for Equality: Caste in Indian Politics', in Atul Kohli (ed.) *The Success of India's Democracy*, New Delhi: Cambridge University Press, pp. 193-225.
- G. Omvedt, (2002) 'Ambedkar and After: The Dalit Movement in India', in G. Shah (ed.) *Social Movements and the State*, New Delhi: Sage Publications, pp. 293-309.
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- Verma, (2007) 'Police Agencies and Coercive Power', in S. Ganguly, L. Diamond and M. Plattner (eds.) *The State of India's Democracy*, Baltimore: John Hopkins University Press, pp. 130-139.

## **CC-5: Introduction to Comparative Government and Politics**

**Credit 06**

### **C5T: Introduction to Comparative Government and Politics**

#### **I. Understanding Comparative Politics**

- a. Nature and scope
- b. Going beyond Eurocentrism

#### **II. Historical context of modern government**

- a. Capitalism: meaning and development: globalization
- b. Socialism: meaning, growth and development
- c. Colonialism and decolonization: meaning, context, forms of colonialism; anti-colonialism struggles and process of decolonization

#### **III. Themes for comparative analysis**

A comparative study of constitutional developments and political economy in the following countries: Britain, Brazil, Nigeria and China.

#### **Suggested Readings:**

- J. Kopstein, and M. Lichbach, (eds), (2005) *Comparative Politics: Interests, Identities, and Institutions in a Changing Global Order*. Cambridge: Cambridge University Press, pp.1-5; 16- 36; 253-290.
- M. Mohanty, (1975) 'Comparative Political Theory and Third World Sensitivity', in *Teaching Politics*, Nos. 1 and 2, pp. 22-38 Additional Readings:
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- J. Blondel, (1996) 'Then and Now: Comparative Politics', in *Political Studies*. Vol. 47 (1), pp. 152-160.
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#### **Additional Reading:**

- M. Mohanty, (1999) 'Colonialism and Discourse in India and China', Available at
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- L. Barrington et. al (2010) *Comparative Politics - Structures & Choices*, Boston, Wadsworth, pp. 212-13; 71-76; 84-89.
- M. Grant, (2009) 'United Kingdom Parliamentary System' in *The UK Parliament*. Edinburgh: Edinburgh University Press, pp. 24-43
- J. McCormick, (2007) *Comparative Politics in Transition*, UK: Wadsworth, pp. 260-270 (China)
- M. Kesselman, J. Krieger and William (2010), *Introduction to Comparative Politics: Political Challenges and Changing Agendas*, UK: Wadsworth. pp. 47-70 (Britain); 364- 388 (Nigeria); 625-648 (China); 415-440 (Brazil).
- P. Rutland, (2007) 'Britain', in J. Kopstein and M. Lichbach. (eds.) *Comparative Politics: Interest, Identities and Institutions in a Changing Global Order*. Cambridge: Cambridge University Press, pp. 39-79.

## CC-6: Perspectives on Public Administration

Credit 06

### C6T: Perspectives on Public Administration

#### I. Public administration as a discipline

- ✓ Meaning, Dimensions and Significance of the Discipline
- ✓ Public and Private Administration
- ✓ Evolution of Public Administration

#### II. Theoretical perspectives

##### Classical theories

- ✓ Scientific management (F.W.Taylor)
- ✓ Administrative Management (Gullick, Urwick and Fayol)
- ✓ Ideal-type bureaucracy (Max Weber)

##### Neo-classical theories

- ✓ Human relations theory (Elton Mayo)
- ✓ Rational decision-making (Herbert Simon)

##### Contemporary theories

- ✓ Ecological approach (Fred Riggs)
- ✓ Innovation and Entrepreneurship (Peter Drucker)

#### III. Public policy

- ✓ Concept, relevance and approaches
- ✓ Formulation, implementation and evaluation

#### IV. Major approaches in public administration

- ✓ New Public Administration
- ✓ New Public Management
- ✓ New Public Service Approach
- ✓ Good Governance
- ✓ Feminist Perspectives

#### Suggested Readings:

- Nicholas Henry, *Public Administration and Public Affairs*, Prentice Hall, 1999
- D. Rosenbloom, R. Kravchuk. and R. Clerkin, (2009) *Public Administration: Understanding Management, Politics and Law in Public Sector*, 7th edition, New Delhi: McGraw Hill, pp. 1- 40
- W. Wilson, (2004) 'The Study of Administration', in B. Chakrabarty and M. Bhattacharya (eds), *Administrative Change and Innovation: a Reader*, New Delhi: Oxford University Press, pp. 85-101
- M. Bhattacharya, (2008) *New Horizons of Public Administration*, 5th Revised Edition. New Delhi: Jawahar Publishers, pp. 37-44.

- G. Alhson, (1997) 'Public and Private Management', in Shafritz, J. and Hyde, A. (eds.) *Classics of Public Administration*, 4th Edition. Forth Worth: Hartcourt Brace, TX, pp. 510-529.
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- S. Maheshwari, *Administrative Thinkers*, New Delhi: Macmillan, 2009
- Fredrickson and Smith, 'Decision Theory', in *The Public Administration Theory Primer*. Cambridge: Westview Press, 2003

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- Singh, *Public Administration: Roots and Wings*. New Delhi: Galgotia Publishing Company, 2002
- F. Riggs, *Administration in Developing Countries: The Theory of Prismatic Society*. Boston: Houghton Mifflin, 1964
- Peter Drucker, *Innovation and Entrepreneurship*, Harper Collins, 1999
- Peter F. Drucker, *The Practice of Management*, Harper Collins, 2006
- T. Dye, (1984) *Understanding Public Policy*, 5th Edition. U.S.A: Prentice Hall, pp. 1-44 *The Oxford Handbook of Public Policy*, OUP, 2006
- Xun Wu, M.Ramesh, Michael Howlett and Scott Fritzen, *The Public Policy Primer: Managing The Policy Process*, Routledge, 2010
- Mary Jo Hatch and Ann .L. Cunliffe *Organisation Theory : Modern, Symbolic and Postmodern Perspectives*, Oxford University Press, 2006
- Michael Howlett, *Designing Public Policies : Principles And Instruments*, Routledge, 2011 *The Oxford Handbook Of Public Policy*, Oxford University Press, 2006
- Prabir Kumar De, *Public Policy and Systems*, Pearson Education, 2012
- R.V. Vaidyanatha Ayyar, *Public Policy Making In India*, Pearson, 2009
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- Simone De Beauvoir, *The Second Sex*, London: Picador, 1988
- Alison Jaggar, *Feminist Politics And Human Nature*, Brighton: Harvester Press,1983
- Maxine Molyneux and Shahra Razavi , *Gender, Justice, Development and Rights* ,Oxford: Oxford University Press, 2002

## **CC-7: Perspectives on International Relations and World History**

**Credit 06**

### **C7T: Perspectives on International Relations and World History**

## **A. Studying International Relations**

- i. How do you understand International Relations: Levels of Analysis
- ii. History and IR: Emergence of the International State System
- iii. Pre-Westphalia and Westphalia
- iv. Post-Westphalia

## **B. Theoretical Perspectives**

- i. Classical Realism & Neo-Realism
- ii. Liberalism & Neoliberalism
- iii. Marxist Approaches
- iv. Feminist Perspectives
- v. Eurocentricism and Perspectives from the Global South

## **C. An Overview of Twentieth Century IR History**

- i. World War I: Causes and Consequences
- ii. Significance of the Bolshevik Revolution
- iii. Rise of Fascism / Nazism
- iv. World War II: Causes and Consequences
- v. Cold War: Different Phases
- vi. Emergence of the Third World
- vii. Collapse of the USSR and the End of the Cold War
- viii. Post Cold War Developments and Emergence of Other Power Centers of Power

## **Suggested Readings:**

- M. Nicholson, (2002) *International Relations: A Concise Introduction*, New York: Palgrave, p. 1-4.
- R. Jackson and G. Sorensen, (2007) *Introduction to International Relations: Theories and Approches*, 3rd Edition, Oxford: Oxford University Press, pp. 2-7
- S. Joshua. Goldstein and J. Pevehouse, (2007) *International Relations*, New York: Pearson Longman, 2007, pp. 29-35
- C. Brown and K. Ainley, (2009) *Understanding International Relations*, Basingstoke: Palgrave, pp. 1-16.
- K. Mingst and J. Snyder, (2011) *Essential Readings in International Relations*, New York: W.W. Norton and Company, pp. 1-15.
- M. Smith and R. Little, (eds) (2000) 'Introduction', in *Perspectives on World Politics*, New York: Routledge, 2000, 1991, pp. 1-17.
- J. Baylis and S. Smith (eds), (2008) *The Globalization of World Politics: An Introduction to International Relations*, New York: Oxford University Press, pp. 1-6.
- R. Mansbach and K. Taylor, (2008) *Introduction to Global Politics*, New York: Routledge, pp. 2-32.

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- R. Mansbach and K. Taylor, (2012) *Introduction to Global Politics*, New York: Routledge, pp. 33-68.
- K. Mingst, (2011) *Essentials of International Relations*, New York: W.W. Norton and Company, pp. 16-63.
- P. Viotti and M. Kauppi, (2007) *International Relations and World Politics: Security, Economy, Identity*, Pearson Education, pp. 40-85.
- J. Baylis, S. Smith and P. Owens, (2008) *The Globalization of World Politics: An Introduction to International Relations*, New York: Oxford University Press, pp. 36-89.
- R. Mansbach and K. Taylor, (2008) *Introduction to Global Politics*, New York: Routledge, pp. 70-135.
- J Goldstein and J. Pevehouse, (2007) *International Relations*, New York: Pearson Longman, pp. 50-69.
- E. Hobsbawm, (1995) *Age of Extremes: The Short Twentieth Century 1914-1991*, Vikings.
- S. Lawson, (2003) *International Relations*, Cambridge: Polity Press, pp. 21-60.
- J. Singer, (1961) 'The International System: Theoretical Essays', *World Politics*, Vol. 14(1), pp. 77-92.
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- K. Mingst, (2011) *Essentials of International Relations*, New York: W.W. Norton and Company, pp. 93-178.
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- H. Morgenthau, (2007) 'Six Principles of Political Realism', in R. Art and R. Jervis, *International Politics*, 8th Edition, New York: Pearson Longman, pp. 7-14.

- T. Dunne and B. Schmidt, (2008) 'Realism', in J. Baylis and S. Smith (eds), *The Globalization of World Politics: An Introduction to International Relations*, New York: Oxford University Press, pp. 90-107.
- K. Waltz, (2007) 'The Anarchic Structure of World Politics', in R. Art and R. Jervis, *International Politics*, 8th Edition, New York: Pearson Longman, pp. 29-49.
- M. Nicholson, (2002) *International Relations: A Concise Introduction*, New York: Palgrave, pp. 6-7.
- H. Bull, (2000) 'The Balance of Power and International Order', in M. Smith and R. Little (eds), *Perspectives on World Politics*, New York: Routledge, pp. 115-124.
- T. Dunne, (2008) 'Liberalism', in J. Baylis and S. Smith (eds.), *The Globalization of World Politics: An Introduction to International Relations*, New York: Oxford University Press, pp. 108-123.
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- J. Goldstein and J. Pevehouse, (2007) *International Relations*, New York: Pearson Longman, pp. 127-137.
- R. Jackson and G. Sorensen, (2007) *Introduction to International Relations: Theories and Approaches*, 3rd Edition, Oxford: Oxford University Press, pp. 97-128.
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- J. Goldstein and J. Pevehouse, (2007) *International Relations*, New York: Pearson Longman, pp. 494-496; 500-503.
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- S. Amin, (2010) *Eurocentrism: Modernity, Religion & Democracy*, New York: Monthly Review Press.
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## **CC-8: Political Processes and Institutions in Comparative Perspective**

**Credit 06**

### **C8T: Political Processes and Institutions in Comparative Perspective**

#### **I. Approaches to Studying Comparative Politics**

- a. Political Culture
- b. New Institutionalism

#### **II. Electoral System**

Definition and procedures: Types of election system (First Past the Post, Proportional Representation, Mixed Representation)

#### **III. Party System**

Historical contexts of emergence of the party system and types of parties

#### **IV. Nation-state**

What is nation–state? Historical evolution in Western Europe and postcolonial contexts  
'Nation' and 'State': debates

#### **V. Democratization**

Process of democratization in postcolonial, post- authoritarian and post-communist countries

#### **VI. Federalism**

Historical context Federation and Confederation: debates around territorial division of power.

#### **Suggested Readings:**

- M. Pennington, (2009) 'Theory, Institutional and Comparative Politics', in J. Bara and Pennington. (eds.) *Comparative Politics: Explaining Democratic System*. Sage Publications, New Delhi, pp. 13-40.
- M. Howard, (2009) 'Culture in Comparative Political Analysis', in M. Lichback and A. Zuckerman, pp. 134- S. (eds.) *Comparative Political: Rationality, Culture, and Structure*. Cambridge: Cambridge University Press.
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- Heywood, (2002) 'Representation, Electoral and Voting', in *Politics*. New York: Palgrave, pp. 223-245.
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- M. Breuning, (eds) *21st Century Political Science: A Reference Book*. Los Angeles: Sage Publications, pp. 150-158.
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- R. Watts, (2008) 'Introduction', in *Comparing Federal Systems*. Montreal and Kingston: McGill Queen's University Press, pp. 1-27
- R. Saxena, (2011) 'Introduction', in Saxena, R (eds.) *Varieties of Federal Governance: Major Contemporary Models*. New Delhi: Cambridge University Press, pp. xii-x1.

## **CC-9: Public Policy and Administration in India**

**Credit 06**

### **C9T: Public Policy and Administration in India**

#### **I. Public Policy**

- a. Definition, characteristics and models
- b. Public Policy Process in India

#### **II. Decentralization**

- a. Meaning, significance and approaches and types
- b. Local Self Governance: Rural and Urban

#### **III. Budget**

- a. Concept and Significance of Budget
- b. Budget Cycle in India

c. Various Approaches and Types Of Budgeting

**IV. Citizen and Administration Interface**

- a. Public Service Delivery
- b. Redressal of Public Grievances: RTI, Lokpal, Citizens' Charter and E-Governance

**V. Social Welfare Administration**

- a. Concept and Approaches of Social Welfare
- b. Social Welfare Policies:
  - ✓ **Education:** Right To Education,
  - ✓ **Health:** National Health Mission,
  - ✓ **Food:** Right To Food Security
  - ✓ **Employment:** MNREGA

**Suggested Readings :**

- T. Dye, (1984) *Understanding Public Policy*, 5th Edition. U.S.A: Prentice Hall
- R.B. Denhardt and J.V. Denhardt, (2009) *Public Administration*, New Delhi: Brooks/Cole
- J. Anderson, (1975) *Public Policy Making*. New York: Thomas Nelson and sons Ltd.
- M. Howlett, M. Ramesh, and A. Perl, (2009), *Studying Public Policy: Policy Cycles and Policy subsystems*, 3rd edition, Oxford: Oxford University Press
- T. Dye, (2002) *Understanding Public Policy*, New Delhi: Pearson
- Y. Dror, (1989) *Public Policy Making Reexamined*. Oxford: Transaction Publication Satyajit Singh and Pradeep K. Sharma [eds.] *Decentralisation: Institutions And Politics In Rural India*, OUP,2007
- D. A. Rondinelli and S.Cheema, *Decentralisation and Development*, Beverly Hills: Sage Publishers, 1983
- N.G.Jayal, *Democracy and The State: Welfare, Secular and Development in Contemporary India*, Oxford : Oxford University Press,1999
- Bidyut Chakrabarty, *Reinventing Public Administration: The Indian Experience*, Orient Longman,2007
- Noorjahan Bava, *Development Policies and Administration in India*, Delhi: Uppal Publishers, 2001
- Gabriel Almond and Sidney Verba, *The Civic Culture*, Boston: Little Brown, 1965
- M.P.Lester, *Political Participation- How and Why do People Get Involved in Politics* Chicago: McNally, 1965

- Erik-Lane, J. (2005) *Public Administration and Public Management: The Principal Agent Perspective*. New York: Routledge
- Henry, N.(1999) *Public Administration and Public Affairs*. New Jersey:Prentice Hall
- Caiden, N.(2004) ‘ Public Budgeting Amidst Uncertainty and Instability’, in Shafritz, J.M. & Hyde, A.C. (eds.) *Classics of Public Administration*. Belmont: Wadsworth
- R. Putnam , *Making Democracy Work* , Princeton University Press, 1993
- Jenkins, R. and Goetz, A.M. (1999) ‘Accounts and Accountability: Theoretical Implications of the Right to Information Movement in India’, in *Third World Quarterly*. June Sharma, P.K. & Devasher, M. (2007) ‘Right to Information in India’ in Singh, S. and Sharma, P. (eds.) *Decentralization: Institutions and Politics in Rural India*. New Delhi: Oxford University Press
- Vasu Deva, *E-Governance In India: A Reality*, Commonwealth Publishers, 2005
- *World Development Report*, World Bank, Oxford University Press, 1992.
- M.J.Moon, *The Evolution of Electronic Government Among Municipalities: Rhetoric or Reality*, American Society For Public Administration, *Public Administration Review*, Vol 62, Issue 4, July –August 2002
- Pankaj Sharma, *E-Governance: The New Age Governance*, APH Publishers, 2004
- Pippa Norris, *Digital Divide: Civic Engagement, Information Poverty and the Internet in Democratic Societies*, Cambridge: Cambridge University Press, 2001.
- Stephan Goldsmith and William D. Eggers, *Governing By Network: The New Shape of the Public Sector*, Brookings Institution [Washington], 2004
- United Nation Development Programme, *Reconceptualising Governance*, New York, 1997 Mukhopadyay, A. (2005) ‘Social Audit’, in *Seminar*. No.551.
- Jean Drèze and Amartya Sen, *India, Economic Development and Social Opportunity*, Oxford: Oxford University Press, 1995
- J.Dreze and Amartya Sen, *Indian Development: Selected Regional Perspectives*, Oxford: Clareland Press, 1997
- Reetika Khera- Rural Poverty And Public Distribution System, EPW, Vol-XLVIII, No.45-46, Nov 2013
- Pradeep Chaturvedi [ed.], *Women And Food Security: Role of Panchayats*, Concept Publishers, 1997 National Food Security Mission: [nfsm.gov.in/Guidelines/XIIPlan/NFSMXII.pdf](http://nfsm.gov.in/Guidelines/XIIPlan/NFSMXII.pdf)

- Jugal Kishore, *National Health Programs of India: National Policies and Legislations*, Century Publications, 2005
- K. Lee and Mills, *The Economic Of Health In Developing Countries*, Oxford: Oxford University Press, 1983
- K. Vijaya Kumar, *Right to Education Act 2009: Its Implementation as to Social Development in India*, Delhi: Akansha Publishers, 2012.
- Marma Mukhopadhyay and Madhu Parhar(ed.) *Education in India: Dynamics of Development*, Delhi: Shipra Publications, 2007
- Nalini Juneja, *Primary Education for All in the City of Mumbai: The Challenge Set By Local Actors'*, International Institute For Educational Planning, UNESCO: Paris, 2001
- Surendra Munshi and Biju Paul Abraham [eds.] *Good Governance, Democratic Societies and Globalisation*, Sage Publishers, 2004
- Basu Rumki (2015) *Public Administration in India Mandates, Performance and Future Perspectives*, New Delhi, Sterling Publishers
  - ✓ [www.un.org/millenniumgoals](http://www.un.org/millenniumgoals)
  - ✓ <http://www.cefsindia.org>
  - ✓ [www.righttofoodindia.org](http://www.righttofoodindia.org)

## CC-10: Global Politics

Credit 06

### C10T: Global Politics

#### I. Globalization: Conceptions and Perspectives

- a. Understanding Globalization and its Alternative Perspectives
- b. Political: Debates on Sovereignty and Territoriality
- c. Global Economy: Its Significance and Anchors of Global Political Economy: IMF,
- d. World Bank, WTO, TNCs
- e. Cultural and Technological Dimension
- f. Global Resistances (Global Social Movements and NGOs)

#### II. Contemporary Global Issues

- a. Ecological Issues: Historical Overview of International Environmental Agreements, Climate Change, Global Commons Debate
- b. Proliferation of Nuclear Weapons
- c. International Terrorism: Non-State Actors and State Terrorism; Post 9/11 developments
- d. Migration
- e. Human Security

#### III. Global Shifts: Power and Governance

#### Suggested Readings :

- G. Ritzer, (2010) *Globalization: A Basic Text*, Sussex: Wiley-Blackwell, pp. 33-62.
- M. Strager, (2009) *Globalization: A Very Short Introduction*, London: Oxford University Press, pp. 1-16.
- R. Keohane and J. Nye Jr, (2000) 'Globalization: What's New? What's Not? (And So What?)', in *Foreign Policy*, No 118, pp. 104-119.
- McGrew, (2011) 'Globalization and Global Politics', in J. Baylis, S. Smith and P. Owens (eds.) *Globalization of World Politics: An Introduction to International Relations*, New York: Oxford University Press, pp. 14-31.
- Heywood, (2011) *Global Politics*, New York: Palgrave-McMillan, pp. 1-24. W. Ellwood, (2005) *The No-nonsense Guide to Globalization*, Jaipur: NI-Rawat Publications, pp. 12-23.
- Heywood, (2011) *Global Politics*, New York: Palgrave-McMillan, pp. 112-134.
- R. Keohane, (2000) 'Sovereignty in International Society', in D. Held and A. McGrew (eds.) *The Global Trans-Formations Reader*, Cambridge: Polity Press, pp. 109-123.
- K. Shimko, (2005) *International Relations: Perspectives and Controversies*, New York: Houghton Mifflin, pp. 195-219.
- Heywood, (2011) *Global Politics*, New York: Palgrave-McMillan, pp. 454-479.
- T. Cohn, (2009) *Global Political Economy: Theory and Practice*, pp. 130-140 (IMF), 208-218 (WTO).
- R. Picciotto, (2003) 'A New World Bank for a New Century', in C. Roe Goddard et al., *International Political: State-Market Relations in a Changing Global Order*, Boulder: Lynne Reinner, pp. 341-351.
- Narlikar, (2005) *The World Trade Organization: A Very Short Introduction*, New York: Oxford University Press, pp. 22-98.
- J. Goldstein, (2006) *International Relations*, New Delhi: Pearson, pp. 392-405 (MNC). P. Hirst, G. Thompson and S. Bromley, (2009) *Globalization in Question*, Cambridge: Polity Press, pp. 68-100 (MNC).
- G. Ritzer, (2010) *Globalization: A Basic Text*, Sussex: Wiley-Blackwell, pp. 180-190.
- F. Lechner and J. Boli (ed.), (2004) *The Globalization Reader*, London: Blackwell, pp. 236-239(WTO).
- D. Held et al, (1999) *Global Transformations: Politics, Economics and Culture*, California: Stanford University Press, pp. 242-282 (MNC).



- T. Cohn, (2009) *Global Political Economy*, New Delhi: Pearson, pp. 250-323 (MNC).
- D. Held and A. McGrew (eds.), (2002) *Global Transformations Reader: Politics, Economics and Culture*, Cambridge: Polity Press, pp. 1-50; 84-91.
- M. Steger, (2009) 'Globalization: A Contested Concept', in *Globalization: A Very Short Introduction*, London: Oxford University Press, pp. 1-16.
- Appadurai, (2000) 'Grassroots Globalization and the Research Imagination', in *Public Culture*, Vol. 12(1), pp. 1-19.
- J. Beynon and D. Dunkerley, (eds.), (2012) *Globalisation: The Reader*, New Delhi: Rawat Publications, pp. 1-19.
- Vanaik, (ed.), (2004) *Globalization and South Asia: Multidimensional Perspectives*, New Delhi: Manohar Publications, pp. 171-191, 192-213, 301-317, 335-357.
- G. Ritzer, (2010) *Globalization: A Basic Text*, Sussex: Wiley-Blackwell, pp. 487-504.
- R. O'Brien et al., (2000) *Contesting Global Governance: Multilateral Economic Institutions and Global Social Movements*, Cambridge: Cambridge University Press, pp. 1-23.
- J. Fisher, (1998) *Non-Governments: NGOs and Political Development in the Third World*, Connecticut: Kumarian Press, pp. 1- 37 (NGO).
- G. Laxter and S. Halperin (eds.), (2003) *Global Civil Society and Its Limits*, New York: Palgrave, pp. 1-21.
- Heywood, (2011) *Global Politics*, New York: Palgrave-McMillan, pp. 150-156 (NGO).
- P. Willets, (2011) 'Trans-National Actors and International Organizations in Global Politics', in J. Baylis, S. Smith and P. Owens (eds.) *Globalization of World Politics*, New York: Oxford University Press, pp. 334-342. (NGO)
- J. Volger, (2011) 'Environmental Issues', in J. Baylis, S. Smith and P. Owens (eds.) *Globalization of World Politics*, New York: Oxford University Press, pp. 348-362.
- Heywood, (2011) *Global Politics*, New York: Palgrave, pp. 383-411. N. Carter, (2007) *The Politics of Environment: Ideas, Activism, Policy*, Cambridge: Cambridge University Press, pp. 13-81. P. Bidwai, (2011) 'Durban: Road to Nowhere', in *Economic and Political Weekly*, Vol.46, No.53, December, pp. 10-12.

- K. Shimko, (2005) *International Relations Perspectives and Controversies*, New York: Houghton-Mifflin, pp. 317-339.
- D. Howlett, (2011) 'Nuclear Proliferation', in J. Baylis, S. Smith and P. Owens (eds.) *Globalization of World Politics*, New York: Oxford University Press, pp. 384-397.
- P. Viotti and M. Kauppi, (2007) *International Relations and World Politics: Security, Economy and Identity*, New Delhi: Pearson, pp. 238-272.
- Heywood, (2011) *Global Politics*, New York: Palgrave, pp. 264-281.
- P. Viotti and M. Kauppi, (2007) *International Relations*, New Delhi: Pearson, pp. 276-307.
- Heywood, (2011) *Global Politics*, New York: Palgrave, pp. 282-301.
- J. Kiras, (2011) 'Terrorism and Globalization', in J. Baylis, S. Smith and P. Owens (eds.) *Globalization of World Politics*, New York: Oxford University Press, pp. 366-380.
- Vanaik, (2007) *Masks of Empire*, New Delhi: Tulika, pp. 103-128.
- G. Ritzer, (2010) *Globalization: A Basic Text*, Sussex: Wiley-Blackwell, pp. 298-322.
- S. Castles, (2012) 'Global Migration', in B. Chimni and S. Mallavarapu (eds.) *International Relations: Perspectives For the Global South*, New Delhi: Pearson, pp. 272-285.
- Acharya, (2011) 'Human Security', in J. Baylis, S. Smith and P. Owens (eds.) *Globalization of World Politics*, New York: Oxford University Press, pp. 480-493.
- S. Tadjbakhsh and A. Chenoy, (2007) *Human Security*, London: Routledge, pp. 13-19; 123-127; 236-243.
- Acharya, (2001) 'Human Security: East versus West', in *International Journal*, Vol. 56, no. 3, pp. 442-460.
- J. Rosenau, (1992) 'Governance, Order, and Change in World Politics', in J. Rosenau, and E. Czempiel (eds.) *Governance without Government: Order and Change in World Politics*, Cambridge: Cambridge University Press, pp. 1-29.
- Kumar and D. Messner (eds), (2010) *Power Shifts and Global Governance: Challenges from South and North*, London: Anthem Press.
- P. Dicken, (2007) *Global Shift: Mapping the Changing Contours of the World Economy*, New York: The Guilford Press.

- J. Close, (2001) 'The Global Shift: A quantum leap in human evolution', Available at <http://www.stir-global-shift.com/page22.php>, Accessed: 19.04.2013.

## **CC-11: Classical Political Philosophy**

**Credit 06**

### **C11T: Classical Political Philosophy**

#### **I. Text and Interpretation**

#### **II. Antiquity**

##### **Plato**

Philosophy and Politics, Theory of Forms, Justice, Philosopher King/Queen, Communism  
Presentation theme: Critique of Democracy; Women and Guardianship, Censorship

##### **Aristotle**

Forms, Virtue, Citizenship, Justice, State and Household  
Presentation themes: Classification of governments; man as zoon politikon

#### **III. Interlude:**

##### **Machiavelli**

Virtu, Religion, Republicanism  
Presentation themes: morality and statecraft; vice and virtue

#### **IV. Possessive Individualism**

##### **Hobbes**

Human nature, State of Nature, Social Contract, State  
Presentation themes: State of nature; social contract; Leviathan; atomistic individuals.

##### **Locke**

Laws of Nature, Natural Rights, Property,  
Presentation themes: Natural rights; right to dissent; justification of property

#### **Suggested Readings :**

- T. Ball, (2004) 'History and Interpretation' in C. Kukathas and G. Gaus, (eds.) *Handbook of Political Theory*, London: Sage Publications Ltd. pp. 18-30.
- B. Constant, (1833) 'The Liberty of the Ancients Compared with that of the Moderns', in D. Boaz, (ed), (1997) *The Libertarian Reader*, New York: The Free Press.
- J. Coleman, (2000) 'Introduction', in *A History of Political Thought: From Ancient Greece to Early Christianity*, Oxford: Blackwell Publishers, pp. 1-20.
- Q. Skinner, (2010) 'Preface', in *The Foundations of Modern Political Thought Volume I*, Cambridge: Cambridge University Press pp. ix-xv.
- Skoble and T. Machan, (2007) *Political Philosophy: Essential Selections*. New Delhi: Pearson Education, pp. 9-32.

- R. Kraut, (1996) 'Introduction to the study of Plato', in R. Kraut (ed.) *The Cambridge Companion to Plato*. Cambridge: Cambridge University Press, pp. 1-50.
- Reeve, (2009) 'Plato', in D. Boucher and P. Kelly, (eds) *Political Thinkers: From Socrates to the Present*, Oxford: Oxford University Press, pp. 62-80
- S. Okin, (1992) 'Philosopher Queens and Private Wives', in S. Okin *Women in Western Political Thought*, Princeton: Princeton University Press, pp. 28-50
- R. Kraut, (1996) 'The Defence of Justice in Plato's Republic', in R. Kraut (ed.) *The Cambridge Companion to Plato*. Cambridge: Cambridge University Press, pp. 311-337
- T. Saunders, (1996) 'Plato's Later Political Thought', in R. Kraut (ed.) *The Cambridge Companion to Plato*. Cambridge: Cambridge University Press, pp. 464-492.
- Skoble and T. Machan, (2007) *Political Philosophy: Essential Selections*. New Delhi: Pearson Education, pp. 53-64.
- T. Burns, (2009) 'Aristotle', in D. Boucher, and P. Kelly, (eds) *Political Thinkers: From Socrates to the Present*. Oxford: Oxford University Press, pp.81-99.
- Taylor, (1995) 'Politics', in J. Barnes (ed.), *The Cambridge Companion to Aristotle*. Cambridge: Cambridge University Press, pp. 232-258
- J. Coleman, (2000) 'Aristotle', in J. Coleman *A History of Political Thought: From Ancient Greece to Early Christianity*, Oxford: Blackwell Publishers, pp.120-186
- Hutchinson, (1995) 'Ethics', in J. Barnes, (ed.), *The Cambridge Companion to Aristotle* Cambridge: Cambridge University Press, pp. 195-232.
- Skoble and T. Machan, (2007) *Political Philosophy: Essential Selections*. New Delhi: Pearson Education, pp. 124-130
- Q. Skinner, (2000) 'The Adviser to Princes', in *Machiavelli: A Very Short Introduction*, Oxford: Oxford University Press, pp. 23-53
- J. Femia, (2009) 'Machiavelli', in D. Boucher, and P. Kelly, (eds) *Political Thinkers: From Socrates to the Present*. Oxford: Oxford University Press, pp. 163-184
- Q. Skinner, (2000) 'The Theorist of Liberty', in *Machiavelli: A Very Short Introduction*. Oxford: Oxford University Press, pp. 54-87.
- Skoble and T. Machan, (2007) *Political Philosophy: Essential Selections*. New Delhi: Pearson Education pp. 131-157.

- Baumgold, (2009) 'Hobbes', in D. Boucher and P. Kelly (eds) *Political Thinkers: From Socrates to the Present*. Oxford: Oxford University Press, pp. 189-206.
- Macpherson (1962) *The Political Theory of Possessive Individualism: Hobbes to Locke*. Oxford University Press, Ontario, pp. 17-29.
- Hampsher-Monk, (2001) 'Thomas Hobbes', in *A History of Modern Political Thought: Major Political Thinkers from Hobbes to Marx*, Oxford: Blackwell Publishers, pp. 1-67.
- Ryan, (1996) 'Hobbes's political philosophy', in T. Sorell, (ed.) *Cambridge Companion to Hobbes*. Cambridge: Cambridge University Press, pp. 208-245.
- Skoble and T. Machan, (2007) *Political Philosophy: Essential Selections*. New Delhi: Pearson Education, pp. 181-209.
- J. Waldron, (2009) 'John Locke', in D. Boucher and P. Kelly, (eds) *Political Thinkers: From Socrates to the Present*. Oxford: Oxford University Press, pp. 207-224
- Macpherson, (1962) *The Political Theory of Possessive Individualism: Hobbes to Locke*. Oxford University Press, Ontario, pp. 194-214.
- R. Ashcraft, (1999) 'Locke's Political Philosophy', in V. Chappell (ed.) *The Cambridge Companion to Locke*, Cambridge. Cambridge University Press, pp. 226-251.
- Hampsher-Monk, (2001) *A History of Modern Political Thought: Major Political Thinkers from Hobbes to Marx*, Oxford: Blackwell Publishers, pp. 69-116

## **CC-12: Indian Political Thought-I**

**Credit 06**

### **C12T: Indian Political Thought-I**

#### **I. Traditions of Pre-colonial Indian Political Thought**

- a. Brahmanic and Shramanic
- b. Islamic and Syncretic.

#### **II. Ved Vyasa (Shantiparva): Rajadharma**

#### **III. Manu: Social Laws**

#### **IV. Kautilya: Theory of State**

#### **V. Aggannasutta (Digha Nikaya): Theory of kingship**

#### **VI. Barani: Ideal Polity**

## VII. Abul Fazal: Monarchy

## VIII. Kabir: Syncretism

### Suggested readings :

- B. Parekh, (1986) 'Some Reflections on the Hindu Tradition of Political Thought', in T. Pantham, and K. Deutsch (eds.), *Political Thought in Modern India*, New Delhi: Sage Publications, pp. 17- 31.
- Altekar, (1958) 'The Kingship', in *State and Government in Ancient India*, 3rd edition, Delhi: Motilal Banarsidass, pp. 75-108.
- M. Shakir, (1986) 'Dynamics of Muslim Political Thought', in T. Pantham, and K. Deutsch (eds.), *Political Thought in Modern India*, New Delhi: Sage Publications, pp. 142- 160
- G. Pandey, (1978) *Sraman Tradition: Its History and Contribution to Indian Culture*, Ahmedabad: L. D. Institute of Indology, pp. 52-73.
- S. Saberwal, (2008) 'Medieval Legacy', in *Spirals of Contention*, New Delhi: Routledge, pp.1-
- *The Mahabharata* (2004), Vol. 7 (Book XI and Book XII, Part II), Chicago and London: University of Chicago Press.
- V. Varma, (1974) *Studies in Hindu Political Thought and Its Metaphysical Foundations*, Delhi: Motilal Banarsidass, pp. 211- 230.
- Chaturvedi, (2006) 'Dharma-The Foundation of Raja-Dharma, Law and Governance', in *The Mahabharta: An Inquiry in the Human Condition*, Delhi: Orient Longman, pp. 418- 464.
- Manu, (2006) 'Rules for Times of Adversity', in P. Olivelle, (ed. & trans.) *Manu's Code of Law: A Critical Edition and Translation of the Manava- Dharamsastra*, New Delhi: OUP, pp. 208-213.
- V. Mehta, (1992) 'The Cosmic Vision: Manu', in *Foundations of Indian Political Thought*, Delhi: Manohar, pp. 23- 39.
- R. Sharma, ( 1991) 'Varna in Relation to Law and Politics (c 600 BC-AD 500)', in *Aspects of Political Ideas and Institutions in Ancient India*, Delhi: Motilal Banarsidass, pp. 233- 251.
- P. Olivelle, (2006) 'Introduction', in *Manu's Code of Law: A Critical Edition and Translation of the Manava –Dharmasastra*, Delhi: Oxford University Press, pp. 3- 50.

- Kautilya, (1997) 'The Elements of Sovereignty' in R. Kangle (ed. and trns.), *Arthashastra of Kautilya*, New Delhi: Motilal Publishers, pp. 511- 514.
- V. Mehta, (1992) 'The Pragmatic Vision: Kautilya and His Successor', in *Foundations of Indian Political Thought*, Delhi: Manohar, pp. 88- 109.
- R. Kangle, (1997) *Arthashastra of Kautilya-Part-III: A Study*, Delhi: Motilal Banarsidass, rpt., pp. 116- 142.
- J. Spellman, (1964) 'Principle of Statecraft', in *Political Theory of Ancient India: A Study of Kingship from the Earliest time to Ceirca AD 300*, Oxford: Clarendon Press, pp. 132- 170.
- S. Collins, (ed), (2001) *Agganna Sutta: An Annotated Translation*, New Delhi: Sahitya Academy, pp. 44-49.
- S. Collins, (2001) 'General Introduction', in *Agganna Sutta: The Discussion on What is Primary (An Annotated Translation from Pali)*, Delhi: Sahitya Akademi, pp. 1- 26.
- Gokhale, (1966) 'The Early Buddhist View of the State', in *The Journal of Asian Studies*, Vol. XXVI, (1), pp. 15- 22.
- L. Jayasurya, 'Budhism, Politics and Statecraft', Available at [ftp.buddhism.org/Publications/.../Voll1\\_03\\_Laksiri%20Jayasuriya.pdf](ftp.buddhism.org/Publications/.../Voll1_03_Laksiri%20Jayasuriya.pdf), Accessed: 19.04.2013.
- Habib, (1998) 'Ziya Barni's Vision of the State', in *The Medieval History Journal*, Vol. 2, (1), pp. 19- 36.
- M. Alam, (2004) 'Sharia Akhlaq', in *The Languages of Political Islam in India 1200- 1800*, Delhi: Permanent Black, pp. 26- 43
- Fazl, (1873) *The Ain-i Akbari* (translated by H. Blochmann), Calcutta: G. H. Rouse, pp. 47-57.
- V. Mehta, (1992) 'The Imperial Vision: Barni and Fazal', in *Foundations of Indian Political Thought*, Delhi: Manohar, pp. 134- 156.

#### **Additional Readings:**

- M. Alam, (2004) 'Sharia in Naserean Akhlaq', in *Languages of Political Islam in India 1200-1800*, Delhi: Permanent Black, pp. 46- 69.
- Habib, (1998) 'Two Indian Theorist of The State: Barani and Abul Fazal', in *Proceedings of the Indian History Congress*. Patiala, pp. 15- 39.
- Kabir. (2002) *The Bijak of Kabir*, (translated by L. Hess and S. Singh), Delhi: Oxford University Press, No. 30, 97, pp. 50- 51 & 69- 70.

- V. Mehta, (1992) *Foundation of Indian Political Thought*, Delhi: Manohar, pp. 157- 183.
- G. Omvedt, (2008) ‘Kabir and Ravidas, Envisioning Begumpura’, in *Seeking Begumpura: The Social Vision of Anti Caste Intellectual*, Delhi: Navayana, pp. 91-107.

**Additional Reading:**

- L. Hess and S. Singh, (2002) ‘Introduction’, in *The Bijak of Kabir*, New Delhi: Oxford University Press, pp. 3- 35.

**CC-13: Modern Political Philosophy**

**Credit 06**

**C13T: Modern Political Philosophy**

**I. Modernity and its discourses**

This section will introduce students to the idea of modernity and the discourses around modernity. Two essential readings have been prescribed.

**II. Romantics**

a) **Jean Jacques Rousseau**

Presentation themes: General Will; local or direct democracy; self-government; origin of inequality.

b) **Mary Wollstonecraft**

Presentation themes: Women and paternalism; critique of Rousseau’s idea of education; legal rights

**III. Liberal socialist**

**John Stuart Mill**

Presentation themes: Liberty, suffrage and subjection of women, right of minorities; utility principle.

**IV. Radicals**

a) **Karl Marx**

Presentation themes: Alienation; difference with other kinds of materialism; class struggle

b) **Alexandra Kollontai**

Presentation themes: Winged and wingless Eros; proletarian woman; socialization of housework; disagreement with Lenin

**Suggested Readings :**

- Kant. (1784) ‘What is Enlightenment?’, available at <http://theliterarylink.com/kant.html>, Accessed: 19.04.2013
- S. Hall (1992) ‘Introduction’, in *Formations of Modernity* UK: Polity Press pages 1-16



- B. Nelson, (2008) *Western Political Thought*. New York: Pearson Longman, pp. 221-255.
- M. Keens-Soper, (2003) 'Jean Jacques Rousseau: The Social Contract', in M. Forsyth and M. Keens-Soper, (eds) *A Guide to the Political Classics: Plato to Rousseau*. New York: Oxford University Press, pp. 171-202.
- C. Jones, (2002) 'Mary Wollstonecraft's *Vindications* and their Political Tradition' in C. Johnson, (ed.) *The Cambridge Companion to Mary Wollstonecraft*, Cambridge: Cambridge University Press, pp. 42-58.
- S. Ferguson, (1999) 'The Radical Ideas of Mary Wollstonecraft', in *Canadian Journal of Political Science* XXXII (3), pp. 427-50, Available at <http://digitalcommons.ryerson.ca/politics>, Accessed: 19.04.2013.
- H. Magid, (1987) 'John Stuart Mill', in L. Strauss and J. Cropsey, (eds), *History of Political Philosophy*, 2nd edition. Chicago: Chicago University Press, pp. 784-801.
- P. Kelly, (2003) 'J.S. Mill on Liberty', in D. Boucher, and P. Kelly, (eds.) *Political Thinkers: From Socrates to the Present*. New York: Oxford University Press, pp. 324-359.
- J. Cropsey, (1987) 'Karl Marx', in L. Strauss and J. Cropsey, (eds) *History of Political Philosophy*, 2nd Edition. Chicago: Chicago University Press, pp. 802-828.
- L. Wilde, (2003) 'Early Marx', in D. Boucher and P. Kelly, P. (eds) *Political Thinkers: From Socrates to the Present*. New York: Oxford University Press, pp. 404-435.
- V. Bryson, (1992) 'Marxist Feminism in Russia' in *Feminist Political Theory*, London: Palgrave Macmillan, pp. 114-122
- C. Synnowich, (1993) 'Alexandra Kollontai and the Fate of Bolshevik Feminism' *Labour/Le Travail* Vol. 32 (Fall 1992) pp. 287-295
- Kollontai (1909), *The Social Basis of the Woman Question*, Available at <http://www.marxists.org/archive/kollonta/1909/social-basis.htm>, Accessed: 19.04.2013
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- Selections from *A Vindication of the Rights of Woman*, Available at <http://oregonstate.edu/instruct/phl302/texts/wollstonecraft/womana.html#CHAPTER%20II>, Accessed: 19.04.2013.
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## CC-14: Indian Political Thought-II

Credit 06

### C14T: Indian Political Thought-II

- I. Introduction to Modern Indian Political Thought
- II. Rammohan Roy: Rights
- III. Pandita Ramabai: Gender
- IV. Vivekananda: Ideal Society
- V. Gandhi: Swaraj
- VI. Ambedkar: Social Justice
- VII. Tagore: Critique of Nationalism
- VIII. Iqbal: Community
- IX. Savarkar: Hindutva
- X. Nehru: Secularism
- XI. Lohia: Socialism

### Suggested Readings :

- V. Mehta and T. Pantham (eds.), (2006) '*A Thematic Introduction to Political Ideas in Modern India: Thematic Explorations, History of Science, Philosophy and Culture in Indian civilization*' Vol. 10, Part: 7, New Delhi: Sage Publications, pp. xxvii-ixi.
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- D. Dalton, (1982) *Indian Idea of Freedom: Political Thought of Swami Vivekananda, Aurobindo Ghose, Mahatma Gandhi and Rabindranath Tagore*, Gurgaon: The Academic Press, pp. 154- 190.
- R. Terchek, (2002) 'Gandhian Autonomy in Late Modern World', in A. Parel (ed.), *Gandhi, Freedom and Self Rule*. Delhi: Sage.
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- V. Rodrigues, (2007) 'Good society, Rights, Democracy Socialism', in S. Thorat and Aryama (eds.), *Ambedkar in Retrospect - Essays on Economics, Politics and Society*, Jaipur: IIDS and Rawat Publications.
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### **DISCIPLINE SPECIFIC ELECTIVE (DSE)**

**DSE-1: India's Foreign Policy in a Globalizing World**

**Credit 06**

**DSE1T: India's Foreign Policy in a Globalizing World**

**I. India's Foreign Policy: From a Postcolonial State to an Aspiring Global Power**

**II. India's Relations with the USA and USSR/Russia**

**III. India's Engagements with China**

**IV. India in South Asia: Debating Regional Strategies**

V. India's Negotiating Style and Strategies: Trade, Environment and Security Regimes  
VI. India in the Contemporary Multipolar World

**Suggested Readings :**

- S. Ganguly and M. Pardesi, (2009) 'Explaining Sixty Years of India's Foreign Policy', in *India Review*, Vol. 8 (1), pp. 4–19.
- Ch. Ogden, (2011) 'International 'Aspirations' of a Rising Power', in David Scott (ed.), *Handbook of India's International Relations*, London: Routledge, pp.3-31
- W. Anderson, (2011) 'Domestic Roots of Indian Foreign Policy', in W. Anderson, *Trusts with Democracy: Political Practice in South Asia*, Anthem Press: University Publishing Online.
- J. Bandhopadhyaya, (1970) *The Making Of India's Foreign Policy*, New Delhi: Allied Publishers.
- S. Mehrotra, (1990) 'Indo-Soviet Economic Relations: Geopolitical and Ideological Factors', in *India and the Soviet Union: Trade and Technology Transfer*, Cambridge University Press: Cambridge, pp. 8-28.
- R. Hathaway, (2003) 'The US-India Courtship: From Clinton to Bush', in S. Ganguly (ed.), *India as an Emerging Power*, Frank Cass: Portland.
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- M. Zafar, (1984), 'Chapter 1', in *India and the Superpowers: India's Political Relations with the Superpowers in the 1970s*, Dhaka, University Press.
- H. Pant, (2008) 'The U.S.-India Entente: From Estrangement to Engagement', in H. Pant, *Contemporary Debates in Indian Foreign and Security Policy: India Negotiates Its Rise in the International System*, Palgrave Macmillan: London.
- D. Mistry, (2006) 'Diplomacy, Domestic Politics, and the U.S.-India Nuclear Agreement', in *Asian Survey*, Vol. 46 (5), pp. 675-698.
- H. Pant, (2011) 'India's Relations with China', in D. Scott (ed.), *Handbook of India's International Relations*, London: Routledge, pp. 233-242.
- Tellis and S. Mirski, (2013) 'Introduction', in A. Tellis and S. Mirski (eds.), *Crux of Asia: China, India, and the Emerging Global Order*, Carnegie Endowment for International Peace: Washington.
- S. Raghavan, (2013) 'Stability in Southern Asia: India's Perspective', in A. Tellis and S. Mirski (eds.), *Crux of Asia: China, India, and the Emerging Global Order*, Carnegie Endowment for International Peace: Washington.

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- M. Pardesi, (2005) 'Deducing India's Grand Strategy of Regional Hegemony from Historical and Conceptual Perspectives', IDSS Working Paper, 76, Available at <http://www.rsis.edu.sg/publications/WorkingPapers/WP76.pdf>, Accessed: 19.04.2013.
- D. Scott, (2009) 'India's "Extended Neighbourhood" Concept: Power Projection for a Rising Power', in *India Review*, Vol. 8 (2), pp. 107-143
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- N. Dubash, (2012) 'The Politics of Climate Change in India: Narratives of Enquiry and Cobenefits', Working Paper, New Delhi: Centre for Policy Research.
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- P. Mehta, (2009) 'Still Under Nehru's Shadow? The Absence of Foreign Policy Frameworks in India', in *India Review*, Vol. 8 (3), pp. 209–233.

**Online Resources:**

Government of India's Ministry of External Relations website at <http://www.mea.gov.in/> and specially its library which provides online resources at <http://mealib.nic.in/> The Council of Foreign Relations has a regularly updated blog on India's foreign policy: <http://www.cfr.org/region/india/ri282> Centre for Policy Research's blog on IR and strategic affairs though it is not exclusively on India's foreign policy. <http://www.cprindia.org/blog/international-relations-and-security-blog> Institute for Defence Studies and Analyses: <http://www.idsa.in/> *Research and Information System*: [www.ris.org.in/](http://www.ris.org.in/) *Indian Council of World Affairs*: [www.icwa.in/](http://www.icwa.in/) *Institute of Peace and Conflict Studies*: [www.ipcs.org/](http://www.ipcs.org/) Indian Council for Research on International Economic Relations: [www.icrier.org/](http://www.icrier.org/)

**OR**

**DSE-1: Development Process and Social Movements in Contemporary India**

**Credit 06**

**DSE1T: Development Process and Social Movements in Contemporary India**

**I. Development Process since Independence**

- a. State and planning
- b. Liberalization and reforms

**II. Industrial Development Strategy and its Impact on the Social Structure**

- a. Mixed economy, privatization, the impact on organized and unorganized labour
- b. Emergence of the new middle class

**III. Agrarian Development Strategy and its Impact on the Social Structure**

- a. Land Reforms, Green Revolution
- b. Agrarian crisis since the 1990s and its impact on farmers

**IV. Social Movements**

- a. Tribal, Peasant, Dalit and Women's movements
- b. Maoist challenge
- c. Civil rights movements

**Suggested Readings :**

- Mozoomdar, (1994) 'The Rise and Decline of Development Planning in India', in T. Byres (ed.) *The State and Development Planning in India*. Delhi: Oxford University Press, pp. 73-108.
- Varshney, (2010) 'Mass Politics or Elite Politics? Understanding the Politics of India's Economic Reforms' in R. Mukherji (ed.) *India's Economic Transition: The Politics of Reforms*, Delhi: Oxford University Press, pp 146-169.



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- J. Harriss, (2006) 'Local Power and the Agrarian Political Economy' in Harriss, J. (ed) *Power Matters: Essays on Institutions, Politics, and Society in India*, Delhi. Oxford University Press, pp. 29-32.

- K. Suri, (2006) 'Political economy of Agrarian Distress', in *Economic and Political Weekly*, XLI(16) pp. 1523-1529.
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- P. Sainath, (2010) 'Agrarian Crisis and Farmers', Suicide', *Occasional Publication*22, New Delhi: India International Centre (IIC).
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- P. Ramana, (2011) 'India's Maoist Insurgency: Evolution, Current Trends and Responses', in M. Kugelman (ed.) *India's Contemporary Security Challenges*, Woodrow Wilson International Centre for Scholars Asia Programme, Washington D.C., pp.29-47.
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- N. Sundar, (2011) 'At War with Oneself: Constructing Naxalism as India's Biggest Security Threat', in M. Kugelman (ed.) *India's Contemporary Security Challenges*, Woodrow Wilson International Centre for Scholars Asia Programme, Washington D.C., pp.46-68.

- M. Weiner, (2001) 'The Struggle for Equality: Caste in Indian Politics', in A.Kohli. (ed.) *The Success of India's Democracy*, Cambridge: CUP, pp.193-225.
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- S. Roy and K. Debal, (2004) *Peasant Movements in Post-Colonial India: Dynamics of Mobilization and Identity*, Delhi: Sage.
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- G. Shah, (ed.), (2002) *Social Movements and the State*. New Delhi: Sage Publications.
- G. Shah, (2004) *Social Movements in India: A Review of Literature*, New Delhi: Sage Publications.
- G. Rath, (ed.), (2006) *Tribal development in India: The Contemporary Debate*, New Delhi: Sage Publications.
- J. Harris, (2009) *Power Matters: Essays on Institutions, Politics, and Society in India*. Delhi: Oxford University Press.
- K. Suresh, (ed.), (1982) *Tribal Movements in India*, Vol I and II, New Delhi: Manohar (emphasis on the introductory chapter).
- M. Mohanty, P. Mukherji and O.Tornquist, (1998) *People's Rights: Social Movements and the State in the Third World*. New Delhi: Sage Publications.
- M. Rao, (ed.), (1978) *Social Movements in India*, Vol. 2, Delhi: Manohar.
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- R. Mukherji, (ed.), (2007) *India's Economic Transition: The Politics of Reforms*, Delhi: Oxford University Press.
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- S. Chakravarty, (1987) *Development Planning: The Indian Experience*, Delhi: Oxford University Press.

## **DSE-2: Understanding South Asia**

**Credit 06**

### **DSE2T: Understanding South Asia**

#### **I. South Asia- Understanding South Asia as a Region**

- a) Historical and Colonial Legacies
- b) Geopolitics of South Asia

#### **II. Politics and Governance**

- a) Regime types: democracy, authoritarianism, monarchy
- b) Emerging constitutional practices: federal experiments in Pakistan; constitutional debate in Nepal and Bhutan; devolution debate in Sri Lanka

#### **III. Socio-Economic Issues**

- a) Identity politics and economic deprivation: challenges and impacts (case studies of Pakistan, Bangladesh, Nepal, Sri Lanka)

#### **IV. Regional Issues and Challenges**

- a) South Asian Association for Regional Cooperation (SAARC): problems and prospects
- b) Terrorism Migration

#### **Suggested Readings:**

- Hewitt, V. (1992) 'Introduction', in *The International Politics of South Asia*. Manchester: Manchester University Press, pp.1-10.
- Hewitt, V. (2010) 'International Politics of South Asia' in Brass, P. (ed.) *Routledge Handbook of South Asian Politics*. London: Routledge, pp.399-418.
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- Baxter, C. (2010) 'Introduction', Brass, P. (ed.) *Routledge Handbook of South Asian Politics*. London: Routledge, pp.1-24
- De Silva, K.M. (2001) 'The Working of Democracy in South Asia', in Panandikar, V.A (ed.) *Problems of Governance in South Asia*. New Delhi: Centre for Policy Research & Konark Publishing House, pp. 46-88.
- Wilson, J. (2003) 'Sri Lanka: Ethnic Strife and the Politics of Space', in Coakley, J. (ed.) *The Territorial Management of Ethnic Conflict*. Oregon: Frank Cass, pp. 173-193.

- Mendis, D. (2008) 'South Asian Democracies in Transition', in Mendis, D. (ed.) Electoral Processes and Governance in South Asia. New Delhi: Sage, pp.15-52.
- Subramanyam, K. (2001) 'Military and Governance in South Asia', in V.A (ed.) Problems of Governance in South Asia. New Delhi: Centre for Policy Research & Konark Publishing House, pp.201-208.
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- Jha, N.K. (2008) 'Domestic Turbulence in Nepal: Origin, Dimensions and India's Policy Options', in Kukreja, V. and Singh, M.P. (eds.) Democracy, Development and Discontent in South Asia. New Delhi: Sage, pp. 264-281.
- Burki, S.J. (2010) 'Pakistan's Politics and its Economy', in Brass, P. (ed.) Routledge Handbook of South Asian Politics. London: Routledge, pp. 83-97.
- Kaul, N. (2008)'Bearing Better Witness in Bhutan', Economic and Political Weekly, 13 September, pp. 67-69.
- Phadnis, U.(1986) 'Ethnic Conflicts in South Asian States', in Muni, S.D. et.al. (eds.) Domestic Conflicts in South Asia : Political, Economic and Ethnic Dimensions. Vol. 2. New Delhi: South Asian Publishers, pp.100-119.
- Kukreja, V. (2003) Contemporary Pakistan. New Delhi: Sage, pp. 75-111 and 112-153.
- Narayan, S. (2010) 'SAARC and South Asia Economic Integration', in Muni, S.D. (ed.) Emerging dimensions of SAARC. New Delhi: Foundation Books, pp. 32-50.
- Muni, S.D. and Jetley, R. (2010) 'SAARC prospects: the Changing Dimensions', in Muni, S.D. (ed.) Emerging dimensions of SAARC. New Delhi: Foundation Books, pp. 1-31.
- Baral, L.R. (2006) 'Responding to Terrorism: Political and Social Consequences in South Asia', in Muni, S.D. (ed.) Responding to terrorism in South Asia. New Delhi: Manohar, pp.301-332.
- Muni, S.D. (2006) 'Responding to Terrorism: An Overview', in Muni, S.D. (ed.) Responding to terrorism in South Asia. New Delhi: Manohar, pp.453-469.
- Hoyt, T.D. (2005) 'The War on Terrorism: Implications for South Asia', in Hagerty, D.T. (ed.) South Asia in World Politics. Lanham: Roman and Littlefield Publishers, pp.281-295.

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- Acharya, J. and Bose, T.K. (2001) 'The New Search for a Durable Solution for Refugees: South Asia', in Samaddar, S. and Reifeld, H. (eds.) Peace as Process: Reconciliation and Conflict Resolution in South Asia. New Delhi: Vedams ,pp-137-157
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- Thakur, R.and Wiggin, O.(ed.) (2005) South Asia and the world. New Delhi: Bookwell.
- Hagerty, D.T. (ed.) (2005) South Asia in World Politics, Oxford: Rowman and Littlefield.
- Samaddar, R.(2002) 'Protecting the Victims of Forced Migration: Mixed Flows and Massive Flows', in Makenkemp, M. Tongern, P.V. and Van De Veen, H. (eds.) Searching for Peace in Central and South Asia. London: Lynne Reinner.
- Kukreja, V. and Singh, M.P. (eds) (2008) Democracy, Development and Discontent in SouthAsia. New Delhi: Sage.

**OR**

**DSE-2: United Nations and Global Conflicts**

**Credit 06**

**DSE2T: United Nations and Global Conflicts**

**I. The United Nations**

- (a) An Historical Overview of the United Nations
- (b) Principles and Objectives
- (c) Structures and Functions: General Assembly; Security Council, and Economic and Social Council; the International Court of Justice and the specialised agencies (International Labour Organisation [ILO], United Nations Educational, Scientific and Cultural Organisation [UNESCO], World Health Organisation [WHO], and UN programmes and funds: United Nations Children's Fund [UNICEF], United Nations Development Programme [UNDP], United Nations Environment Programme [UNEP], United Nations High Commissioner for Refugees [UNHCR])

- (d) Peace Keeping, Peace Making and Enforcement, Peace Building and Responsibility to Protect
- (e) Millennium Development Goals

## **II. Major Global Conflicts since the Second World War**

- (a) Korean War
- (b) Vietnam War
- (c) Afghanistan Wars
- (d) Balkans: Serbia and Bosnia

## **III. Assessment of the United Nations as an International Organisation: Imperatives of Reforms and the Process of Reforms**

### **Suggested Readings:**

- Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp. 39-62.
- Goldstein, J. and Pevehouse, J.C. (2006) *International relations*. 6th edn. New Delhi: Pearson, pp. 265-282.
- Taylor, P. and Groom, A.J.R. (eds.) (2000) *The United Nations at the millennium*. London: Continuum, pp. 1-20.
- Gareis, S.B. and Varwick, J. (2005) *The United Nations: an introduction*. Basingstoke: Palgrave, pp. 1-40.
- Gowan, P. (2010) 'US: UN', in Gowan, P. 'A calculus of power: grand strategy in the twentyfirst century. London: Verso, pp. 47-71.
- Baylis, J. and Smith, S. (eds.) (2008) *The globalization of world politics. an introduction to international relations*. 4th edn. Oxford: Oxford University Press, pp. 405-422.
- Thakur, R. (1998) 'Introduction', in Thakur, R. (eds.) *Past imperfect, future uncertain: The UN at Ffifty*. London: Macmillan, pp. 1-14.
- Basu, Rumki (2014) *United Nations: Structure and Functions of an international organization*, New Delhi, Sterling Publishers
- Gareis, S.B. and Varwick, J. (2005) *The United Nations: An introduction*. Basingstoke: Palgrave, pp. 15-21.
- Taylor, P. and Groom, A.J.R. (eds.) (2000) *The United Nations at the millennium*. London: Continuum, pp. 21-141.
- Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp. 119-135.

- Nambiar, S. (1995) 'UN peace-keeping operations', in Kumar, S. (eds.) *The United Nations at fifty*. New Delhi, UBS, pp. 77-94.
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- White, B. et al. (eds.) (2005) *Issues in world politics*. 3rd edn. New York: Macmillan, pp. 113-132.
- Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp.264-266.
- Sangal, P.S. (1986) 'UN, peace, disarmament and development', in Saxena, J.N. et.al. *United Nations for a better world*. New Delhi: Lancers, pp.109-114.
- Baxi, U. (1986) 'Crimes against the right to development', in Saxena, J.N. et.al. *United Nations for a better world*. New Delhi: Lancers, pp.240-248.
- Ghali, B.B. (1995) *An agenda for peace*. New York: UN, pp.5-38.
- United Nations Department of Public Information. (2008) *The United Nations Today*. New York: UN.
- Calvocoressi, P. (2001) *World Politics: 1945-200*. 3rd edn. Harlow: Pearson Education, pp. 116-124.
- Armstrong, D., Lloyd, L. and Redmond, J. (2004) *International organisations in world politics*. 3rd edn. New York: Palgrave Macmillan, pp. 42-43.
- Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp. 64-65 and 172-173.
- Calvocoressi, P. (2001) *World Politics: 1945-200*. 3rd edn. Harlow: Pearson Education, pp.528-546.
- Baylis, J. and Smith, S. (eds.) (2008) *The globalization of world politics. an introduction to international relations*. 4th edn. Oxford: Oxford University Press, pp. 562-564.
- Achcar, G. (2004) *Eastern cauldron*. New York: Monthly Review Press, pp. 29-45 and 234- 241.
- Achcar, G. (2003) *The clash of barbarisms: Sept. 11 and the making of the new world disorder*. Kolkata: K.P. Bachi & Co., pp. 76-81.
- Prashad, V. (2002) *War against the planet*. New Delhi: Leftword, pp. 1-6. Ali, T. (ed.) (2000) *Masters of the Universe*. London: Verso, pp. 203-216.
- Calvocoressi, P. (2001) *World Politics: 1945-200*. 3rd edn. Harlow: Pearson Education, pp.570-576.



- Ali, T. (ed.) (2000) *Masters of the Universe*. London: Verso, pp. 230-245 and 271-284.
- Kaldor, M. and Vashee, B. (eds.) (1997) *New wars*. London: Wider Publications for the UN University, pp. 137-144 and 153-171.
- Viotti, P.R. and Kauppi, M.V. (2007) *International relations and world politics-security, economy, identity*. 3rd edn. New Delhi: Pearson Education, pp. 470-471.
- Goldstein, J.S. (2003) *International relations*. 3rd edn. Delhi: Pearson Education, pp 43-51. Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp.24-27.
- Roberts, A. and Kingsbury, B. (eds.) (1994) *United Nations, Divided World*. 2nd edn. Oxford: Clarendon Press, pp. 420-436.
- Taylor, P. and Groom, A.J.R. (eds.) (2000) *The United Nations at the millennium*. London: Continuum, pp. 196-223 and 295-326.
- Gareis, S.B. and Varwick, J. (2005) *The United Nations: An introduction*. Basingstoke: Palgrave, pp. 214-242.
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- Rajan, M.S., Mani, V.S and Murthy, C.S.R. (eds.) (1987) *The nonaligned and the United Nations*. New Delhi: South Asian Publishers.
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- Anan, K. (1997) *Renewing the United Nations: A Programme for Survival*. General Assembly Document: A/51/950; 14 July 1997. Available from: [http://daccessdds.un.org/doc/UNDOC/GEN/N97/189/79/1MG/n9718979.pdf](http://daccessdds.un.org/doc/UNDOC/GEN/N97/189/79/1MG/n9718979.pdf?OpenElement), Open Element (accessed on 13 October 2011).

**DSE-3: Citizenship in a Globalizing World**

**Credit 06**

**DSE3T: Citizenship in a Globalizing World**

1. Classical conceptions of citizenship
2. The Evolution of Citizenship and the Modern State
3. Citizenship and Diversity
4. Citizenship beyond the Nation-state: Globalization and global justice
5. The idea of cosmopolitan citizenship

### Suggested Readings

- Acharya, Ashok. (2012) *Citizenship in a Globalising World*. New Delhi: Pearson.
- Beiner, R. (1995) *Theorising Citizenship*. Albany: State University of New York Press.
- Held, David (1995), *Democracy and the Global Order: From the Modern State to Cosmopolitan Governance* (Stanford: Stanford University Press).
- Kymlicka, Will (1999), "Citizenship in an Era of Globalization: A Response to Held," in Ian Shapiro and Casiano Hacker-Cordon (eds.), *Democracy's Edges* (Cambridge, UK: Cambridge University Press).
- Oliver, D. and D. Heater (1994). *The Foundations of Citizenship*. London, Harvester Wheatsheaf.
- Scholte, Jan Aart (2000), *Globalization: A Critical Introduction* (New York: St. Martin's).
- Zolo, Danilo (1997), *Cosmopolis: Prospects for World Government* (Cambridge, UK: Polity Press).

OR

**DSE-3 : Women, Power and Politics**

**Credit 06**

**DSE3T : Women, Power and Politics**

### I. Groundings

1. Patriarchy
  - a. Sex-Gender Debates
  - b. Public and Private
  - c. Power
2. Feminism
3. Family, Community, State
  - a. Family
  - b. Community
  - c. State

### II. Movements and Issues

1. History of the Women's Movement in India
2. Violence against women
3. Work and Labour
  - a. Visible and Invisible work
  - b. Reproductive and care work

### c. Sex work

#### Suggested Readings :

- T. Shinde, (1993) 'Stree Purusha Tulna', in K. Lalitha and Susie Tharu (eds), *Women Writing in India*, New Delhi, Oxford University Press, pp. 221-234
- U. Chakravarti, (2001) 'Pitrasatta Par ek Note', in S. Arya, N. Menon & J. Lokneeta (eds.) *Naarivaadi Rajneeti: Sangharsh evam Muddey*, University of Delhi: Hindi Medium Implementation Board, pp.1-7
- V Geetha, (2002) *Gender*, Kolkata, Stree, pp. 1-20
- M. Kosambi, (2007) *Crossing the Threshold*, New Delhi, Permanent Black, pp. 3-10; 40-46
- N. Menon, (2008) 'Power', in R. Bhargava and A. Acharya (eds), *Political Theory: An Introduction*, Delhi: Pearson, pp.148-157
- Hooks, (2010) 'Feminism: A Movement to End Sexism', in C. Mc Cann and S. Kim (eds), *The Feminist Reader: Local and Global Perspectives*, New York: Routledge, pp. 51-57
- R. Delmar, (2005) 'What is Feminism?', in W. Kolmar & F. Bartkowski (eds) *Feminist Theory: A Reader*, pp. 27-37
- R. Palriwala, (2008) 'Economics and Patriline: Consumption and Authority within the Household' in M. John. (ed) *Women's Studies in India*, New Delhi: Penguin, pp. 414-423
- U. Chakravarti, (2003) *Gendering Caste through a Feminist Len*, Kolkata, Stree, pp. 139-159.
- MacKinnon, 'The Liberal State' from *Towards a Feminist Theory of State*, Available at <http://fair-use.org/catharine-mackinnon/toward-a-feminist-theory-of-the-state/chapter-8>, Accessed: 19.04.2013.
- K. Millet, (1968) *Sexual Politics*, Available at <http://www.marxists.org/subject/women/authors/millett-kate/sexual-politics.htm>, Accessed: 19.04.2013.
- N. Menon (2008) 'Gender', in R. Bhargava and A. Acharya (eds), *Political Theory: An Introduction*, New Delhi: Pearson, pp. 224-233
- R. Hussain, (1988) 'Sultana's Dream', in *Sultana's Dream and Selections from the Secluded Ones – translated by Roushan Jahan*, New York: The Feminist Press
- S. Ray 'Understanding Patriarchy', Available at [http://www.du.ac.in/fileadmin/DU/Academics/course\\_material/hrge\\_06.pdf](http://www.du.ac.in/fileadmin/DU/Academics/course_material/hrge_06.pdf), Accessed: 19.04.2013.

- S. de Beauvoir (1997) *Second Sex*, London: Vintage.
- Saheli Women's Centre, (2007) *Talking Marriage, Caste and Community: Women's Voices from Within*, New Delhi: monograph
- Agnihotri and V. Mazumdar, (1997) 'Changing the Terms of Political Discourse: Women's Movement in India, 1970s-1990s', *Economic and Political Weekly*, 30 (29), pp. 1869-1878.
- R. Kapur, (2012) 'Hecklers to Power? The Waning of Liberal Rights and Challenges to Feminism in India', in A. Loomba *South Asian Feminisms*, Durham and London: Duke University Press, pp. 333-355
- N. Menon, (2004) 'Sexual Violence: Escaping the Body', in *Recovering Subversion*, New Delhi: Permanent Black, pp. 106-165
- P. Swaminathan, (2012) 'Introduction', in *Women and Work*, Hyderabad: Orient Blackswan, pp.1-17
- J. Tronto, (1996) 'Care as a Political Concept', in N. Hirschmann and C. Stephano, *Revisioning the Political*, Boulder: Westview Press, pp. 139-156
- Durbar Mahila Samanwaya Committee, Kolkata (2011) 'Why the so-called Immoral Traffic (Preventive) Act of India Should be Repealed', in P. Kotiswaran, *Sex Work*, New Delhi, Women Unlimited, pp. 259-262
- N. Jameela, (2011) 'Autobiography of a Sex Worker', in P. Kotiswaran, *Sex Work*, New Delhi: Women Unlimited, pp. 225-241
- Zetkin, 'Proletarian Woman', Available at <http://www.marxists.org/archive/zetkin/1896/10/women.htm>, Accessed: 19.04.2013.
- Engels, *Family, Private Property and State*, Available at <http://readingfromtheleft.com/PDF/EngelsOrigin.pdf>, Accessed: 19.04.2013.
- J. Ghosh, (2009) *Never Done and Poorly Paid: Women's Work in Globalising India*, Delhi: Women Unlimited
- *Justice Verma Committee Report*, Available at <http://nlrd.org/womens-rightsinitiative/> justice-verma-committee-report-download-full-report, Accessed: 19.04.2013.
- N. Gandhi and N. Shah, (1992) *Issues at Stake – Theory and Practice in the Women's Movement*, New Delhi: Kali for Women.
- V. Bryson, (1992) *Feminist Political Theory*, London: Palgrave-MacMillan, pp. 175-180; 196- 200

- M. Mies, (1986) 'Colonisation and Housewifisation', in *Patriarchy and Accumulation on a World Scale* London: Zed, pp. 74-111, Available at <http://caringlabor.wordpress.com/2010/12/29/maria-mies-colonization-andhousewifization/>, Accessed: 19.04.2013.
- R. Ghadially, (2007) *Urban Women in Contemporary India*, Delhi: Sage Publications.
- S. Brownmiller, (1975) *Against our Wills*, New York: Ballantine.
- Saheli Women's Centre (2001) 'Reproductive Health and Women's Rights, Sex Selection and feminist response' in S Arya, N. Menon, J. Lokneeta (eds), *Nariwadi Rajneeti*, Delhi, pp. 284-306
- V. Bryson (2007) *Gender and the Politics of Time*, Bristol: Polity Press
- D. Mehrotra, (2001) *Bhartiya Mahila Andolan: Kal, Aaj aur Kal*, Delhi: Books for Change
- Joshi, (2004) *Bharat Mein Stree Asmaanta: Ek Vimarsh*, University of Delhi: Hindi Medium Implementation Board
- N. Menon (2008) 'Power', in R. Bhargava and A. Acharya (eds) *Political Theory: An Introduction*, New Delhi: Pearson
- N. Menon (2008) 'Gender', in R. Bhargava and A. Acharya (eds) *Political Theory: An Introduction*, New Delhi, Pearson
- R. Upadhyay and S. Upadhyay (eds.) (2004) *Aaj ka Stree Andolan*, Delhi: Shabd Sandhan.
- S. Arya, N. Menon and J. Lokneeta (eds.) (2001) *Naarivaadi Rajneeti: Sangharsh evam Muddey*, University of Delhi: Hindi Medium Implementation Board.

#### **DSE-4: Human Rights in a Comparative Perspective**

**Credit 06**

#### **DSE4T: Human Rights in a Comparative Perspective**

##### **I. Human Rights: Theory and Institutionalization**

- a. Understanding Human Rights: Three Generations of Rights
- b. Institutionalization: Universal Declaration of Human Rights
- c. Rights in National Constitutions: South Africa and India

##### **II. Issues**

- a. Torture: USA and India
- b. Surveillance and Censorship: China and India
- c. Terrorism and Insecurity of Minorities: USA and India

### III. Structural Violence

- a. Caste and Race: South Africa and India
- b. Gender and Violence: India and Pakistan
- c. Adivasis/Aboriginals and the Land Question: Australia and India

#### Suggested Readings:

- J. Hoffman and P. Graham, (2006) 'Human Rights', *Introduction to Political Theory*, Delhi, Pearson, pp. 436-458.
- SAHRDC (2006) 'Introduction to Human Rights'; 'Classification of Human Rights: An Overview of the First, Second, and Third Generational Rights', in *Introducing Human Rights*, New Delhi: Oxford University Press.
- The Constitution of the Republic of South Africa, Chapter 2: Bill of Rights. The Constitution of India, Chapter 3: Fundamental Rights
- M. Lippman, (1979) 'The Protection of Universal Human Rights: The Problem of Torture' *Universal Human Rights*, Vol. 1(4), pp. 25-55
- J. Lokaneeta, (2011) 'Torture in the TV Show 24: Circulation of Meanings'; 'Jurisprudence on Torture and Interrogations in India', in *Transnational Torture Law, Violence, and State Power in the United States and India*, Delhi: Orient Blackswan,
- D. O'Byrne, (2007) 'Torture', in *Human Rights: An Introduction*, Delhi: Pearson, pp. 164-197.
- D. O'Byrne, (2007) 'Censorship', in *Human Rights: An Introduction*, Delhi: Pearson, pp. 106- 138.
- D. Lyon, (2008) Surveillance Society, Talk for Festival del Diritto, Piacenza, Italia, September 28, pp.1-7.
- Fu Hualing, (2012) 'Politicized Challenges, Depoliticized Responses: Political Monitoring in China's Transitions', paper presented at a conference on States of Surveillance: Counter- Terrorism and Comparative Constitutionalism, at the University of New South Wales, Sydney, 13-14 December.
- U. Singh, (2012) 'Surveillance Regimes in India', paper presented at a conference on States of Surveillance: Counter-Terrorism and Comparative Constitutionalism, at the University of New South Wales, Sydney, 13-14 December.
- E. Scarry, (2010) 'Resolving to Resist', in *Rule of Law, Misrule of Men*, Cambridge: Boston Review Books, MIT, pp.1-53.
- M. Ahmad, (2002) 'Homeland Insecurities: Racial Violence the Day after September 11', *Social Text*, 72, Vol. 20(3), pp. 101-116.

- U. Singh, (2007) 'The Unfolding of Extraordinariness: POTA and the Construction of Suspect Communities', in *The State, Democracy and Anti-terror Laws in India*, Delhi: Sage Publications, pp.165-219
- Pinto, (2001) 'UN Conference against Racism: Is Caste Race?', in *Economic and Political Weekly*, Vol. 36(30)
- D. O'Byrne, (2007) 'Apartheid', in *Human Rights: An Introduction*, Delhi: Pearson, pp. 241- 262.
- R. Wasserstorm, (2006), 'Racism, Sexism, and Preferential Treatment: An approach to the Topics', in R. Goodin and P. Pettit, *Contemporary Political Philosophy: an Anthology*, Oxford: Blackwell, pp-549-574
- R. Wolfrum, (1998) 'Discrimination, Xenophobia and Racism' in J. Symonides, *Human Rights: New Dimensions and Challenges*, Aldershot, Ashgate/UNESCO, pp.181-198.
- Khan and R. Hussain, (2008), 'Violence Against Women in Pakistan: Perceptions and Experiences of Domestic Violence', *Asian Studies Review*, Vol. 32, pp. 239 – 253
- K. Kannabiran (2012) 'Rethinking the Constitutional Category of Sex', in *Tools of Justice: Non-Discrimination and the Indian Constitution*, New Delhi, Routledge, pp.425-443
- N. Menon (2012) 'Desire', *Seeing Like a Feminist*, New Delhi: Zubaan/Penguin, pp. 91-146
- H. Goodall, (2011) 'International Indigenous Community Study: Adivasi Indigenous People in India', in A. Cadzow and J. Maynard (eds.), *Aboriginal Studies*, Melbourne: Nelson CengageLearning, pp.254-259.
- K. Kannabiran, (2012) 'Adivasi Homelands and the Question of Liberty', in *Tools of Justice: Non-Discrimination and the Indian Constitution*, New Delhi: Routledge, pp.242-271.
- N. Watson (2011) 'Aboriginal and Torres Strait Islander Identities' in A. Cadzow and J. Maynard (eds.), *Aboriginal Studies*, Melbourne: Nelson Cengage Learning, pp.43-52.
- W. Fernandes (2008) 'India's Forced Displacement Policy and Practice. Is Compensation up to its Functions?', in M. Cernea and H. Mathus (eds), *Can Compensation Prevent impoverishment? Reforming Resettlement through Investments and Benefit-Sharing*, pp. 181-207, New Delhi: Oxford University Press.
- Laws and V. Iacopino, (2002) 'Police Torture in Punjab, India: An Extended Survey', in *Health and Human Rights*, Vol. 6(1), pp. 195-210

- D. O'Byrne, (2007) 'Theorizing Human Rights', in *Human Rights: An Introduction*, Delhi, Pearson, pp.26-70.
- J. Morsink, (1999) *The Universal Declaration of Human Rights: Origins, Drafting and Intent*, Philadelphia: University of Pennsylvania Press, pp. ix-xiv
- J. Nickel, (1987) *Making Sense of Human Rights: Philosophical Reflections on the Universal Declaration of Human Rights*, Berkeley: University of California Press.
- J. Goldman, (2005) 'Of Treaties and Torture: How the Supreme Court Can Restrain the Executive', in *Duke Law Journal*, Vol. 55(3), pp. 609-640.
- K. Tsutsui and C. Wotipka, (2004) Global Civil Society and the International Human Rights Movement: Citizen Participation in Human Rights International Nongovernmental Organizations, in *Social Forces*, Vol. 83(2), pp. 587-620.
- L. Rabben, (2001) Amnesty International: Myth and Reality, in *Agni*, No. 54, Amnesty International Fortieth Anniversary pp. 8-28
- M. Mohanty, (2010) 'In Pursuit of People's Rights: An Introduction', in M. Mohanty et al., *Weapon of the Oppressed: Inventory of People's Rights in India*, New Delhi: Danish Books, pp.1-11
- M. Cranston, (1973) *What are Human Rights?* New York: Taplinger
- M. Ishay, (2004) *The History of Human Rights: From Ancient Times to the Globalization Era*, Delhi: Orient Blackswan.
- R. Sharan, (2009) 'Alienation and Restoration of Tribal Land in Jharkhand in N Sundar (ed.) *Legal Grounds*, New Delhi: Oxford University Press, pp. 82-112 Text of UDHR available at <http://www.un.org/en/documents/udhr/index.shtml>
- U. Baxi, (1989) 'From Human Rights to the Right to be Human: Some Heresies', in S. Kothari and H. Sethi (eds.), *Rethinking Human Rights*, Delhi: Lokayan, pp.181-166

**OR**

**DSE-4: Project Work**

**Credit 06**



**Skill Enhancement Course (SEC)**

**SEC-1: Democratic Awareness with Legal Literacy**

**Credit 02**

**SEC1T: Democratic Awareness with Legal Literacy**

**Course Content:**

**Unit I**

- Outline of the Legal system in India
- System of courts/tribunals and their jurisdiction in India - criminal and civil courts, writ jurisdiction, specialized courts such as juvenile courts, Mahila courts and tribunals.
- Role of the police and executive in criminal law administration.
- Alternate dispute mechanisms such as lok adalats, non - formal mechanisms.

**Unit II**

- Brief understanding of the laws applicable in India
- Constitution - fundamental rights, fundamental duties, other constitutional rights and their manner of enforcement, with emphasis on public interest litigation and the expansion of certain rights under Article 21 of the Constitution.
- Laws relating to criminal jurisdiction - provision relating to filing an FIR, arrest, bail search and seizure and some understanding of the questions of evidence and procedure in Cr. P.C. and related laws, important offences under the Indian PenalCode, offences against women, juvenile justice, prevention of atrocities on Scheduled Castes and Scheduled Tribes.
- Concepts like Burden of Proof, Presumption of Innocence, Principles of Natural Justice, Fair comment under Contempt laws.
- Personal laws in India : Pluralism and Democracy
- Laws relating to contract, property and tenancy laws.
- Laws relating to dowry, sexual harassment and violence against women
- Laws relating to consumer rights
- Laws relating to cyber crimes
- Anti-terrorist laws: implications for security and human rights
- Practical application: Visit to either a (I) court or (ii) a legal aid centre set up by the
- Legal Services Authority or an NGO or (iii) a Lok Adalat, and to interview a litigant or person being counselled. Preparation of a case history.

**Unit III**

### **Access to courts and enforcement of rights**

- Critical Understanding of the Functioning of the Legal System
- Legal Services Authorities Act and right to legal aid, ADR systems

### **Practical application:**

- What to do if you are arrested ; if you are a consumer with a grievance; if you are a victim of sexual harassment; domestic violence, child abuse, caste, ethnic and religious discrimination; filing a public interest litigation. How can you challenge administrative orders that violate rights, judicial and administrative remedies
- Using a hypothetical case of (for example) child abuse or sexual harassment or any other violation of a right, preparation of an FIR or writing a complaint addressed to the appropriate authority.

### **Exercises for students**

1. Discuss the debates around any recent Ordinance, Bill or Act in Parliament.
2. How to file an FIR? In case there has been a theft in the neighbourhood how would you file the first Hand Information Report?
3. Under what circumstances can detention and arrest become illegal?
4. Discuss any contemporary practice or event that violates the equality and protection against discrimination laws.
5. Read Ordinance XV -D of University of Delhi and make a list of the kinds of conduct that would qualify as sexual harassment.
6. Your friend has shared with you an incident of unwelcome verbal remarks on her by a person of higher authority in your college, what would you do?
7. You have seen a lady in your neighbourhood being beaten up by her husband. Identify the concerned Protection Officer in case you want to provide information about this incident.
8. Read the Vishakha Guidelines as laid down by the Supreme Court and the Act against sexual harassment at the workplace. Discuss what constitutes sexual harassment and the mechanisms available for its redressal in your institution.
9. What is the procedure to file an RTI?
10. You bought a product from a nearby shop which was expired, the shop keeper Refused to return it. Use your knowledge of Consumer Protection Act to decide what you do next?
11. What must you keep in mind as a consumer while making a purchase that may later help you make use of Consumer Protection Act? (Hint- Should you ask for a Bill?)
12. In your surroundings have you witnessed any incident that would be considered offensive under the SC and ST Act? Make a class- room presentation on it.

### **Suggested Readings:**

- *Creating Legal Awareness*, edited by Kamala Sankaran and Ujjwal Singh (Delhi: OUP, 2007)
- Legal literacy: available amongst interdisciplinary courses on Institute of Life Long Learning(Delhi University) Virtual Learning Portal namely vle.du.ac.in
- Multiple Action Research Group, *Our Laws Vols 1-10*, Delhi.

- Indian Social Institute, New Delhi, *Legal Literacy Series Booklets*.
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- K. Sankaran and U. Singh, (2008) 'Introduction', in *Towards Legal Literacy*. New Delhi: Oxford University Press, pp. xi – xv.
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- P. Mathew, (2002) *The Law on Atrocities Against Scheduled Castes and Scheduled Tribes*, New Delhi: Indian Social Institute.
- K. Saxena, (2011) 'Dalits', in M. Mohanty et al., *Weapon of the Oppressed, Inventory of People's Rights in India*. Delhi: Danish Books, Pp.15-38
- K. Saxena, (2011) 'Adivasis', in M. Mohanty et al., *Weapon of the Oppressed, Inventory of People's Rights in India*, Delhi: Danish Books, Pp.39-65.
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- *Criminal law Amendment Act, 2013*, Available at [http://egazette.nic.in/WriteReadData/2013/E\\_17\\_2013\\_212.pdf](http://egazette.nic.in/WriteReadData/2013/E_17_2013_212.pdf) , Accessed: 10.04.2013.
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- *The Right of Children to Free and Compulsory Education Act, 2009*, Available at <http://www.delta.org.in/form/rte.pdf>.
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- *Criminal Law Amendment Act, 2013*, Available at [mha.nic.in/pdfs/TheCrimnalLaw030413.pdf](http://mha.nic.in/pdfs/TheCrimnalLaw030413.pdf) File Format: PDF/Adobe Acrobat – Quick View.

**OR**

**SEC-1: Public Opinion and Survey Research**

**Credit 02**

**SEC1T: Public Opinion and Survey Research**

**I. Introduction to the course**

Definition and characteristics of public opinion, conceptions and characteristics, debates about its role in a democratic political system, uses for opinion poll

**II. Measuring Public Opinion with Surveys: Representation and sampling**

- b. What is sampling? Why do we need to sample? Sample design.
- c. Sampling error and non-response
- d. Types of sampling: Non random sampling (quota, purposive and snowball sampling); random sampling: simple and stratified

**III. Survey Research**

- a. Interviewing: Interview techniques pitfalls, different types of and forms of interview
- b. Questionnaire: Question wording; fairness and clarity.

**IV. Quantitative Data Analysis**

- a. Introduction to quantitative data analysis
- a. Basic concepts: correlational research, causation and prediction, descriptive and inferential Statistics

**V. Interpreting polls**

Prediction in polling research: possibilities and pitfalls  
Politics of interpreting polling

**Student Exercises:**

1. Discussion of readings and Indian examples.
2. Groups of students to collect examples of and discuss various sample based studies across many fields: e.g. consumer behaviour, unemployment rates, educational standards, elections, medicinal trials etc.
3. Non-random sampling: The students have to identify one group of people or behavior that is unique or rare and for which snowball sampling might be needed. They have to identify how they might make the initial contact with this group to start snowball rolling.
4. Give the students the electoral list of an area in Delhi (<http://ceodelhi.gov.in>). The students have to draw a random sample of n number of respondents.
5. For this activity, working with a partner will be helpful. The class should first decide on a topic of interest. Then each pair should construct a five-item self report questionnaire. Of the five items, there should be at least one

nominal response, one ordinal response and one interval. After the common questionnaire is constructed putting together the questions from everyone, working in pairs, the questionnaire should be administered on 10 different individuals.

6. Give the students a questionnaire from any public opinion survey and ask them to identify the type of variables.

### Suggested Readings:

- R. Erikson and K. Tedin, (2011) *American Public Opinion*, 8th edition, New York: Pearson Longman Publishers, pp. 40-46.
- G. Gallup, (1948) *A guide to public opinion polls* Princeton, Princeton University Press, 1948. Pp. 3-13.
- G. Kalton, (1983) *Introduction to Survey Sampling* Beverly Hills, Sage Publication.
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- 'Asking About Numbers: Why and How', *Political Analysis* (2013), Vol. 21(1): 48-69, (first published online November 21, 2012)
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- R. Erikson and K. Tedin, (2011) *American Public Opinion*, 8th edition, New York, Pearson Longman Publishers, pp. 40-46.
- Agresti and B. Finlay, (2009) *Statistical methods for the Social Sciences*, 4th edition, Upper saddle river, NJ: Pearson-Prentice Hall,
- S. Kumar and P. Rai, (2013) 'Chapter 1', in *Measuring Voting Behaviour in India*, New Delhi: Sage.
- R. Karandikar, C. Pyne and Y. Yadav, (2002) 'Predicting the 1998 Indian Parliamentary Elections', *Electoral Studies*, Vol. 21, pp.69-89.
- M. McDermott and K. A. Frankovic, (2003) 'Horserace Polling and Survey Methods Effects: An Analysis of the 2000 Campaign', *Public Opinion Quarterly* 67, pp. 244-264.
- K. Warren, (2001) 'Chapter 2', in *In Defense of Public Opinion Polling*, Boulder: Westview Press, pp. 45-80.
- W. Cochran, (2007) 'Chapter 1', *Sampling Techniques*, John Wiley & Sons.

- G. Gallup, (1948) *A Guide to Public Opinion Polls*. Princeton: Princeton University Press, pp. 14-20; 73-75.
- D. Rowntree (2000) *Statistics Without Tears: an Introduction for Non Mathematicians*, Harmondsworth: Penguin.

## **SEC-2: Legislative Practices and Procedures**

**Credit 02**

### **SEC2T: Legislative Practices and Procedures**

#### **I. Powers and functions of people's representative at different tiers of governance**

Members of Parliament, State legislative assemblies, functionaries of rural and urban local self - government from Zila Parishad, Municipal Corporation to Panchayat/ward.

#### **II. Supporting the legislative process**

How a bill becomes law, role of the Standing committee in reviewing a bill, legislative consultants, the framing of rules and regulations.

#### **III. Supporting the Legislative Committees**

Types of committees, role of committees in reviewing government finances, policy, programmes, and legislation.

#### **IV. Reading the Budget Document**

Overview of Budget Process, Role of Parliament in reviewing the Union Budget, Railway Budget, Examination of Demands for Grants of Ministries, Working of Ministries.

#### **V. Support in media monitoring and communication**

Types of media and their significance for legislators; Basics of communication in print and electronic media.

#### **Suggested Readings :**

- M. Madhavan, and N. Wahi, (2008) *Financing of Election Campaigns* PRS, Centre for Policy Research, New Delhi, Available at: [http://www.prsindia.org/uploads/media/conference/Campaign\\_finance\\_brief.pdf](http://www.prsindia.org/uploads/media/conference/Campaign_finance_brief.pdf), Accessed: 19.04.2013
- S. Vanka, (2008) *Primer on MPLADS*, Centre for Policy Research, New Delhi, Available at <http://www.prsindia.org/parliamenttrack/primers/mplads-487/>, Accessed: 19.04.2013
- H. Kalra, (2011) *Public Engagement with the Legislative Process* PRS, Centre for Policy Research, New Delhi, Available at: <http://www.prsindia.org/administrator/uploads/media/Conference%202011/Public%20Engagement%20with%20the%20Legislative%20Process.pdf>, Accessed: 19.04.2013.



- Government of India (Lok Sabha Secretariat), (2009) *Parliamentary Procedures (Abstract Series)*, Available at <http://164.100.47.132/LssNew/abstract/index.aspx>, Accessed: 19.04.2013
- Government of India, (Ministry of Parliamentary Affairs), (2009) *Legislation, Parliamentary Procedure*, Available at [http://mpa.nic.in/Manual/Manual\\_English/Chapter/chapter-09.htm](http://mpa.nic.in/Manual/Manual_English/Chapter/chapter-09.htm), Accessed: 19.04.2013
- Government of India, (Ministry of Parliamentary Affairs) (2009), *Subordinate Legislation, Parliamentary Procedure*, Available at: [http://mpa.nic.in/Manual/Manual\\_English/Chapter/chapter-11.htm](http://mpa.nic.in/Manual/Manual_English/Chapter/chapter-11.htm) Accessed: 19.04.2013
- D. Kapur and P. Mehta, (2006) 'The Indian Parliament as an Institution of Accountability', *Democracy, Governance and Human Rights*, Programme Paper Number 23, United Nations Research Institute for Social Development, Available at: [http://www.unrisd.org/UNRISD/website/document.nsf/240da49ca467a53f80256b4f005ef245/8e6fc72d6b546696c1257123002fcceb/\\$FILE/KapMeht.pdf](http://www.unrisd.org/UNRISD/website/document.nsf/240da49ca467a53f80256b4f005ef245/8e6fc72d6b546696c1257123002fcceb/$FILE/KapMeht.pdf), Accessed: 19.04.2013
- O. Agarwal and T. Somanathan, (2005) '*Public Policy Making in India: Issues and Remedies*', Available at: [http://www.cprindia.org/admin/paper/Public\\_Policy\\_Making\\_in\\_India\\_14205\\_TV\\_SOMANA\\_THAN.pdf](http://www.cprindia.org/admin/paper/Public_Policy_Making_in_India_14205_TV_SOMANA_THAN.pdf), Accessed: 19.04.2013
- Debroy, (2001) 'Why we need law reform' *Seminar* January.
- P. Mehta, 'India's Unlikely Democracy: The Rise of Judicial Sovereignty', *Journal of Democracy*, Vol. 18(2), pp.70-83.
- Government link: <http://loksabha.nic.in/>; <http://rajyasabha.nic.in/>; <http://mpa.nic.in/>
- K. Sanyal, (2011) *Strengthening Parliamentary Committees* PRS, Centre for Policy Research, New Delhi, Available at: <http://www.prsindia.org/administrator/uploads/media/Conference%202011/Strengthening%20Parliamentary%20Committees.pdf>, Accessed: 19.04.2013
- Celestine, (2011) *How to Read the Union Budget* PRS, Centre for Policy Research, New Delhi, Available at <http://www.prsindia.org/parliamenttrack/primers/how-to-read-theunion-budget-1023/>, Accessed: 19.04.2013
- G. Rose, (2005) 'How to Be a Media Darling: There's No getting Away From It', *State Legislatures*, Vol. 31(3).
- N. Jayal and P. Mehta (eds), (2010) *The Oxford Companion to Politics in India*, Oxford University Press: New Delhi, (2007) *India's Politics*, New Delhi: Penguin.

- Initiating Discussion on Various Type of Debates in *Rajya Sabha*, Available at [http://rajyasabha.nic.in/rsnew/publication\\_electronic/75RS.pdf](http://rajyasabha.nic.in/rsnew/publication_electronic/75RS.pdf), Accessed: 19.04.2013.
- *Praxis of Parliamentary Committees: Recommendations of Committee on Rules* published by *Rajya Sabha*, available at: [http://rajyasabha.nic.in/rsnew/publication\\_electronic/Praxis.pdf](http://rajyasabha.nic.in/rsnew/publication_electronic/Praxis.pdf), Accessed: 19.04.2013.
- S.J. Phansalkar, *Policy Research in the Indian Context*
- N. Singh, '*Some Economic Consequences of India's Institutions of Governance: A Conceptual Framework*', Available at: [http://econ.ucsc.edu/faculty/boxjenk/wp/econ\\_conseq\\_2003\\_rev2.pdf](http://econ.ucsc.edu/faculty/boxjenk/wp/econ_conseq_2003_rev2.pdf), Accessed: 19.04.2013.
- R. Guha, (2007), *India After Gandhi*, Macmillan: New Delhi.
- *Parliamentary Procedures (Abstract Series)* published by *Lok Sabha*, Available at <http://164.100.47.132/LssNew/abstract/index.aspx>, website: [www.loksabha.nic.in](http://www.loksabha.nic.in), Accessed: 19.04.2013.
- *Committees of Lok Sabha*, Available at: [http://164.100.47.134/committee/committee\\_list.aspx](http://164.100.47.134/committee/committee_list.aspx) Accessed: 19.04.2013. *Ethics Committee of Rajya Sabha*, available at: [http://rajyasabha.nic.in/rsnew/publication\\_electronic/ethics\\_committee.pdf](http://rajyasabha.nic.in/rsnew/publication_electronic/ethics_committee.pdf), Accessed: 19.04.2013.
- *Committees of Parliament, Parliamentary Procedure, Ministry of Parliamentary Affairs*, Available at [http://mpa.nic.in/Manual/Manual\\_English/Chapter/chapter-12.htm](http://mpa.nic.in/Manual/Manual_English/Chapter/chapter-12.htm), Accessed: 19.04.2013.
- *Nomination of Members of Parliament on Committees, Councils, Boards and Commissions, etc., set up by the Government, Ministry of Parliament Affairs*, Available at [http://mpa.nic.in/Manual/Manual\\_English/Chapter/chapter-14.htm](http://mpa.nic.in/Manual/Manual_English/Chapter/chapter-14.htm), Accessed: 19.04.2013.
- *Parliamentary Procedures: Problems and Perspectives 2009* Published by *Rajya Sabha*, Available at [http://rajyasabha.nic.in/rsnew/publication\\_electronic/parl\\_procedure2009.pdf](http://rajyasabha.nic.in/rsnew/publication_electronic/parl_procedure2009.pdf), Accessed: 19.04.2013.
- *Primer on the Budget Process* published by PRS, Available at <http://www.prsindia.org/parliamenttrack/primers/the-budget-process-484/>, Accessed: 19.04.2013.
- *Background note on Financial Oversight by Parliament* published by PRS, Available at <http://www.prsindia.org/administrator/uploads/media/Conference%20note/Conference%20note%20on%20financial%20oversight.pdf>, Accessed: 19.04.2013.

- P. Keefer and S Khemani, (2009) ‘When Do Legislators Pass On "Pork"? The Determinants of Legislator Utilization of a Constituency Development Fund in India’, in *World Bank Policy*
- *Research Working Paper Series* 4929, pp. 1-45, Available at SSRN: <http://ssrn.com/abstract=1405160>, Accessed: 19.04.2013.
- *Parliamentary Procedures (Abstract Series)*, *Lok Sabha*, Available at <http://164.100.47.132/LssNew/abstract/process.htm>
- *Budget, Parliamentary Procedure, Ministry of Parliamentary Affairs*, available at [http://mpa.nic.in/Manual/Manual\\_English/Chapter/chapter-07.htm](http://mpa.nic.in/Manual/Manual_English/Chapter/chapter-07.htm), Accessed: 19.04.2013. <http://mpa.nic.in/mpahandbook/parlia13.pdf>

**OR**

**SEC-2: Peace and Conflict Resolution**

**Credit 02**

**SEC2T: Peace and Conflict Resolution**

**Unit-1**

International Peace and Conflict Resolution: Sources of War: International and Domestic Issues and Trends

**Unit-2**

What is Conflict: Introduction to International Conflict Resolution

**Unit-3**

International Conflict Resolution Theory: Models developed by Johan Galtung, Joseph Montville, Morton Deutsch, William Zartman, Levy Jack

**Unit-4**

Conflict resolution: Back ground of Various Peace Movements and Concepts, Principles used to resolve conflict

**Unit-5**

Cross-boarder relationships between the world’s peaceful and war-torn zones (migration and information flows, economic transactions, international rules and regulations, normative concepts and political decisions)

**Unit-6**

Conflict Transformation: is Peace Possible? Resolve problems through conflict analyses and instrumentation of peace concepts

**Unit-7**

Current perspective of peace and conflict resolution: Grass-roots level perspective on war and Peace

**Suggested Readings:**

- Kriesberg, Louis, *Constructive Conflicts: From Escalation to Resolution*, Rowman & Littlefield, Maryland, 1998, pp. 58-150
- Starkey, Boyer, and Wilkenfield, *Negotiating a Complex World*. Rowman & Littlefield, Maryland, 1999, pp. 1-74
- Zartman, William (ed.), *Collapsed States: The Disintegration and Restoration of Legitimate Authority*, Reiner, Boulder, 1995, pp. 1-14 and 267-273
- Zartman, William & Touval, Saadia "International Mediation in the Post-Cold War Era", in Crocker et al., *Managing Global Chaos*, USIP, 1996, pp. 445-461
- Zartman, William, "Dynamics and Constraints in Negotiations in Internal Conflicts", in Zartman, William (ed), *Elusive Peace: Negotiating an End to Civil Wars*, The Brookings Institution, Washington, 1995, pp. 3-29
- Zartman, William (ed.), *Collapsed States: The Disintegration and Restoration of Legitimate Authority*, Reiner, Boulder, 1995, pp. 1-14 and 267-273
- Zartman, William & Touval, Saadia "International Mediation in the Post-Cold War Era", in Crocker et al., *Managing Global Chaos*, USIP, 1996, pp. 445-461
- Levy, Jack, "Contending Theories of International Conflict: A Levels-of-Analysis Approach" in Crocker et al, *Managing Global Chaos*, USIP, 1995, pp. 3-24
- Carr, Edward H., "Realism and Idealism," Richard Betts (ed), *Conflict After the Cold War*, Boston: Simon & Schuster, 1994.
- Carr, Edward H., "Realism and Idealism," Richard Betts (ed), *Conflict After the Cold War*, Boston: Simon & Schuster, 1994.
- Waltz, Kenneth N., "Structural Causes and Economic Effects," Richard Betts (ed), *Conflict After the Cold War*, Boston: Simon & Schuster, 1994.
- Hampson, Fen Osler, *Nurturing Peace*, USIP, 1996, pp. 3-25
- Galtung, Johan, *There Are Alternatives: Four Roads to Peace and Security*, Nottingham, Spokesman, 1984, pp. 162-205
- Galtung, Johan, *Peace by Peaceful Means: Peace and conflict, Development and Civilization*, Sage, London, 1996, pp. 9-114
- Galtung, Johan, *The True Worlds: A Transnational Perspective*, New York, Free Press, 1980, pp. 107-149
- Kelman, Herbert C., "Interactive Problem Solving", in Fisher, Ronald J. (ed.) *Interactive Conflict Resolution*, Syracuse University Press, 1997, pp. 56-74
- Kritz, Neil J., "The Rule of Law in the Post-conflict Phase: Building a Stable Peace", in Crocker et al, *Managing Global Chaos*, USIP, 1996, pp. 587-606

- Galtung, Johan, "The Basic Need Approach", in Human Needs: a Contribution to the Current Debate, Verlag, Cambridge, 1980, pp. 55-126
- Saunders, Harold H., A Public Peace Process: Sustained Dialogue to Transform Racial and Ethnic Conflicts, New York, 1999, pp. 1-80
- Galtung, Johan, There Are Alternatives: Four Roads to Peace and Security, Nottingham, Spokesman, 1984, pp. 162-205
- Galtung, Johan, "The Basic Need Approach", in Human Needs: a Contribution to the Current Debate, Verlag, Cambridge, 1980, pp. 55-126
- Galtung, Johan, Peace by Peaceful Means: Peace and conflict, Development and Civilization, Sage, London, 1996, pp. 9-114
- Galtung, Johan, The True Worlds: A Transnational Perspective, New York, Free Press, 1980, pp. 107-149
- Deutsch, Morton, The Resolution of Conflict: Constructive and Destructive Processes, New Haven, Yale University Press, 1973, pp. 1-123
- Galtung, Johan, Peace by Peaceful Means: Peace and conflict, Development and Civilization, Sage, London, 1996, pp. 9-114
- Zartman, William, "Dynamics and Constraints in Negotiations in Internal Conflicts", in Zartman, William (ed), Elusive Peace: Negotiating an End to Civil Wars, The Brookings Institution, Washington, 1995, pp. 3-29
- Kelman, Herbert C., "Interactive Problem Solving", in Fisher, Ronald J. (ed.) Interactive Conflict Resolution, Syracuse University Press, 1997, pp. 56-74

***Generic Elective (GE)***  
***[Interdisciplinary for other department]***

**GE-1: Nationalism in India**

**Credit 06**

**GE1T: Nationalism in India**

**I. Approaches to the Study of Nationalism in India**

Nationalist, Imperialist, Marxist, and Subaltern Interpretations

**II. Reformism and Anti-Reformism in the Nineteenth Century**

Major Social and Religious Movements in 19th century

### III. Nationalist Politics and Expansion of its Social Base

- a. Phases of Nationalist Movement: Liberal Constitutionalists, Swadeshi and the Radicals; Beginning of Constitutionalism in India
- b. Gandhi and Mass Mobilisation: Non-Cooperation Movement, Civil Disobedience Movement, and Quit India Movement
- c. Socialist Alternatives: Congress Socialists, Communists

### IV. Social Movements

- a. The Women's Question: Participation in the National Movement and its Impact
- b. The Caste Question: Anti-Brahminical Politics
- c. Peasant, Tribals and Workers Movements

### V. Partition and Independence

- a. Communalism in Indian Politics
- b. The Two-Nation Theory, Negotiations over Partition

### Suggested Readings:

- S. Bandopadhyay, (2004) *From Plassey to Partition: A History of Modern India*, New Delhi: Orient Longman, pp. 184-191
- R. Thapar, (2000) 'Interpretations of Colonial History: Colonial, Nationalist, Post-colonial', in P. DeSouza, (ed.) *Contemporary India: Transitions*, New Delhi: Sage Publications, pp. 25-36.
- S. Bandopadhyay, (2004) *From Plassey to Partition: A History of Modern India*, New Delhi: Orient Longman, pp.139-158, 234-276.
- Sen, (2007) 'The idea of Social Reform and its Critique among Hindus of Nineteenth Century India', in S. Bhattacharya, (ed.) *Development of Modern Indian Thought and the Social Sciences*, Vol. X. New Delhi: Oxford University Press.
- S. Bandopadhyay, (2004) *From Plassey to Partition: A History of Modern India*. New Delhi: Orient Longman, pp. 279-311.
- S. Sarkar, (1983) *Modern India (1885-1947)*, New Delhi: Macmillan,
- P. Chatterjee, (1993) 'The Nation and its Pasts', in P. Chatterjee, *The Nation and its Fragments: Colonial and Postcolonial Histories*. New Delhi: Oxford University Press, pp. 76-115.
- S. Bandopadhyay, (2004) *From Plassey to Partition: A history of Modern India*. New Delhi: Orient Longman, pp. 342-357, 369-381.
- G. Shah, (2002) *Social Movements and the State*, New Delhi: Sage, pp. 13-31
- Jalal, and S. Bose, (1997) *Modern South Asia: History, Culture, and Political Economy*. New Delhi: Oxford University Press, pp. 135-156.

- Nandy, (2005) *Rashtravad banam Deshbhakti* Translated by A. Dubey, New Delhi: Vani Prakashan. pp. 23-33. (The original essay in English is from A. Nandy, (1994) New Delhi: Oxford University Press, pp. 1-8.)
- Chakrabarty and R. Pandey, (2010) *Modern Indian Political Thought*, New Delhi: Sage Publications.
- P. Chatterjee, (1993) *The Nation and its Fragments: Colonial and Postcolonial Histories*, New Delhi: Oxford University Press.
- R. Pradhan, (2008) *Raj to Swaraj*, New Delhi: Macmillan (Available in Hindi).
- S. Islam, (2006) *Bharat Mein Algaovaad aur Dharm*, New Delhi: Vani Prakashan.

**OR**

**GE-1: Feminism: Theory and Practice**

**Credit 06**

**GE1T: Feminism: Theory and Practice**

### **I. Approaches to understanding Patriarchy**

- Feminist theorising of the sex/gender distinction. Biologism versus social constructivism
- Understanding Patriarchy and Feminism
- Liberal, Socialist, Marxist, Radical feminism, New Feminist Schools/Traditions

### **II. History of Feminism**

- Origins of Feminism in the West: France, Britain and United States of America
- Feminism in the Socialist Countries: China, Cuba and erstwhile USSR
- Feminist issues and women's participation in anti-colonial and national liberation movements with special focus on India

### **III. The Indian Experience**

**(16 Lectures)**

- Traditional Historiography and Feminist critiques. Social Reforms Movement and position of women in India. History of Women's struggle in India
- Family in contemporary India - patrilineal and matrilineal practices. Gender Relations in the Family, Patterns of Consumption: Intra Household Divisions, entitlements and bargaining, Property Rights
- Understanding Woman's Work and Labour – Sexual Division of Labour, Productive and Reproductive labour, Visible - invisible work – Unpaid (reproductive and care), Underpaid and Paid work,- Methods of computing women's work , Female headed households

### **Suggested Readings:**

- Geetha, V. (2002) *Gender*. Calcutta: Stree. Geetha, V. (2007) *Patriarchy*. Calcutta: Stree. Jagger, Alison. (1983) *Feminist Politics and Human Nature*. U.K.: Harvester Press, pp. 25-350.
- Ray, Suranjita. *Understanding Patriarchy*. Available at: [http://www.du.ac.in/fileadmin/DU/Academics/course\\_material/hrge\\_06.pdf](http://www.du.ac.in/fileadmin/DU/Academics/course_material/hrge_06.pdf)

- Lerner, Gerda. (1986) *The Creation of Patriarchy*. New York: Oxford University Press.
- Rowbotham, Shiela. (1993) *Women in Movements*. New York and London: Routledge, Section I, pp. 27-74 and 178-218.
- Jayawardene, Kumari. (1986) *Feminism and Nationalism in the Third World*. London: ZedBooks, pp. 1-24, 71-108, and Conclusion.
- Forbes, Geraldine (1998) *Women in Modern India*. Cambridge: Cambridge University Press, pp. 1-150.
- Eisentein, Zillah. (1979) *Capitalist Patriarchy and the Case for Socialist Feminism*. New York: Monthly Review Press, pp. 271-353.
- Funk, Nanette & Mueller, Magda. (1993) *Gender, Politics and Post-Communism*. New York and London: Routledge, Introduction and Chapter 28.
- Chaudhuri, Maiyatree. (2003) 'Gender in the Making of the Indian Nation State', in Rege, Sharmila. (ed.) *The Sociology of Gender: The Challenge of Feminist Sociological Knowledge*. New Delhi: Sage.
- Banarjee, Sikata. (2007) 'Gender and Nationalism: The Masculinisation of Hinduism and Female Political Participation', in Ghadially, Rehana. (ed.) *Urban Women in Contemporary India: A Reader*. New Delhi: Sage.
- Roy, Kumkum. (1995) 'Where Women are Worshipped, There Gods Rejoice: The Mirage of the Ancestress of the Hindu Women', in Sarkar, Tanika & Butalia, Urvashi. (eds.) *Women and the Hindu Right*. Delhi: Kali for Women, pp. 10-28.
- Chakravarti, Uma. (1988) 'Beyond the Altekarian Paradigm: Towards a New Understanding of Gender Relations in Early Indian History', *Social Scientist*, Volume 16, No. 8.
- Banerjee, Nirmala. (1999) 'Analysing Women's work under Patriarchy' in Sangari, Kumkum & Chakravarty, Uma. (eds.) *From Myths to Markets: Essays on Gender*. Delhi: Manohar.
- Gandhi, Nandita & Shah, Nandita. (1991) *The Issues at Stake – Theory and Practice in Contemporary Women's Movement in India*. Delhi: Zubaan, pp. 7-72.
- Shinde, Tarabai (1993) 'Stri-Purush Tulna', in Tharu, Susie & Lalita, K. (eds.) *Women Writing in India, 600 BC to the Present. Vol. I*. New York: Feminist Press.
- Desai, Neera & Thakkar, Usha. (2001) *Women in Indian Society*. New Delhi: National Book Trust.



## **GE2T: Contemporary Political Economy**

### **I. Approaches to Political Economy**

Classical Liberalism, Marxism, Welfarism, Neo-liberalism and Gandhian approach

### **II. Capitalist Transformation**

- a. European Feudalism and Transition to Capitalism
- b. Globalization: Transnational Corporations, World Trade Organization, Non-governmental Organizations (their role in development)

### **III. Issues in Development**

- I. Culture: Media and Television
- II. Big Dams and Environmental Concerns
- III. Military: Global Arms Industry and Arms Trade
- IV. Knowledge Systems

### **IV. Globalization and Development Dilemmas**

- I. IT revolution and Debates on Sovereignty
- II. Gender
- III. Racial and Ethnic Problems
- IV. Migration

### **Suggested Readings :**

- Arblaster, A. (2006) 'The Rise and Decline of Western Liberalism' in Lal, D. *Reviving the Invisible Hand: The Case for Classical Liberalism in the Twentyfirst Century*. Princeton: Princeton University Press, pp. 1- 8, 17- 30, and 48- 51.
- Mandel, E. (1979) *An Introduction to Marxist Economic Theory*. New York: Pathfinder Press, 3rd print, pp. 3-73.
- Kersbergen, K.V. and Manow, P. (2009) *Religion, Class Coalition and Welfare State*. Cambridge: Cambridge University Press, chapters 1 and 10, pp. 1-38; 266-295
- Andersen, J. G. (ed.) (2008) 'The Impact of Public Policies' in Caramani, D *Comparative Politics*. Oxford: Oxford University Press, ch 22, pp. 547- 563 .
- Harvey, D. (2005) *A Brief History of Neo-liberalism*. Oxford: Oxford University Press, pp. 1-206.
- Ghosh, B.N. (2007) *Gandhian Political Economy: Principles, Practice and Policy*. Ashgate Publishing Limited, pp. 21- 88.
- Phukan, M. (1998) *The Rise of the Modern West: Social and Economic History of Early Modern Europe*. Delhi: Macmillan India, (ch.14: Transition from Feudalism to Capitalism), pp. 420- 440.
- Gilpin, R. (2003) *Global Political Economy: Understanding the International Economic Order*. Hyderabad: Orient Longman, pp. 278- 304.

- Kennedy, P. (1993) *Preparing for the Twentieth Century*. UK: Vintage, Ch. 3
- Gelinas, J. B. (2003) *Juggernaut Politics- Understanding Predatory Globalization*. Halifax, Fernwood, Ch.3. Available from: [www.globalpolicy.org](http://www.globalpolicy.org)
- Gilpin, R. (2003) *Global Political Economy: Understanding the International Economic Order*. Hyderabad: Orient Longman, Ch. 8, pp. 196- 233.
- Prasad, K. (2000) *NGOs and Social-economic Development Opportunities*. New Delhi: Deep & Deep, ch. 1, 2, 3, 5.
- Fisher, J. (2003) *Non-governments – NGOs and the Political Development in the Third World*. Jaipur: Rawat, ch. 1, 4, 6.81
- Media and Television Mackay, H. (2004) ‘The Globalization of Culture’ in Held, D. (ed.) *A Globalizing World? Culture, Economics and Politics*. London: Routledge, pp. 47- 84
- Tomlinson, J. (2004) ‘Cultural Imperialism’ in Lechner, F. J and Boli, J. (eds.) *The Globalization Reader*. Oxford: Blackwell, pp. 303- 311.
- Lechner, F. J and Boli, J. (eds.) (2004) *The Globalization Reader*. Oxford: Blackwell, pp. 361- 376 and 398- 404.
- Held, D. and Mcrew, A. (eds.) (2000) *The Global Transformations Reader*. Cambridge: Polity Press, pp. 374- 386.
- Singh, S. (1997) *Taming the Waters: The Political Economy of Large Dams in India*. New Delhi: Oxford University Press, pp. 133- 163, 182- 203, 204- 240.
- Kesselman, M. (2007) *The Politics of Globalization*. Boston: Houghton Mifflin Company, pp. 330- 339.
- Marglin, S. (1990) ‘Towards the Decolonisation of the Mind’ in Marglin, S. and Marglin, F. A. (eds.) *Dominating Knowledge: Development, Culture and Resistance*. Oxford: Oxford University Press, pp. 1- 28.
- L. Lechner, F. J and Boli, J. (eds.) (2004) *The Globalization Reader*. Oxford: Blackwell, pp. 211- 244.
- Held, D. and Mcrew, A. (eds.) (2000) *The Global Transformations Reader*. Cambridge: Polity Press, pp. 105-155.
- Omahe, K. (2004) ‘The End of the Nation State’, L. Lechner, F. J and Boli, J. (eds.) *The Globalization Reader*. Oxford: Blackwell, ch. 29.
- Glen, J. (2007) *Globalization: North-South Perspectives*. London: Routledge, ch.6.
- Sen, A. (2006) *Identity and Violence: Illusion and Destiny*. London: Penguin/Allen Lane, ch.7, pp. 130-148.

- Berkovitch, N. (2004) 'The Emergence and Transformation of the International Women's Movements' in L. Lechner, F. J and Boli, J. (eds.) *The Globalization Reader*. Oxford: Blackwell, ch.31, pp. 251- 257.
- Steans, J. (2000) 'The Gender Dimension' in Held, D. and Mcrew, A. (eds.), *The Global Transformations Reader*. Cambridge: Polity Press, ch.35, pp. 366- 373.
- Tickner, J. A. (2008) 'Gender in World Politics' in Baylis, J.,Smith, S. & Owens, P. (eds.) *Globalization of World Politics*, 4th edn., New Delhi: Oxford University Press, ch.15.
- Kesselman, M. and Krieger, J. (2006) *Readings in Comparative Politics: Political Challenges and Changing Agendas*. Boston: Houghton Mifflin Company, pp. 243-254 and 266- 276.
- Arya, S. and Roy, A. (eds.) *Poverty Gender and Migration*. New Delhi: Sage, Ch. 1
- Kesselman, M. (2007) *The Politics of Globalization*. Boston: Houghton Mifflin Company, pp. 450- 462.
- Nayyar, D. (ed.) (2002) *Governing Globalization*. Delhi: OUP, pp. 144- 176.

**OR**

**GE-2 : Governance: issues and challenges**

**Credit 06**

**GE2T : Governance: issues and challenges**

**1. Government and governance: concepts**

Role of State in the Era of Globalisation

State, Market and Civil Society

**2. Governance and development**

Changing Dimensions of Development Strengthening Democracy through Good Governance

**3. Environmental governance**

Human-Environment Interaction

Green Governance: Sustainable Human Development

**4. Local governance**

Democratic decentralisation

People's Participation in Governance

**5. Good governance initiatives in india: best practices**

- Public Service Guarantee Acts
- Electronic Governance

- Citizens Charter & Right to Information
- Corporate Social Responsibility

### Suggested Readings :

- Chakrabarty and M. Bhattacharya, (eds.) *The Governance Discourse*. New Delhi: Oxford University Press, 1998
- Surendra Munshi and Biju Paul Abraham [eds.] , *Good Governance, Democratic Societies And Globalisation*, Sage Publishers, 2004
- United Nation Development Programme , *Reconceptualising Governance*, New York, 1997
- Carlos Santiso, *Good Governance and Aid Effectiveness: The World Bank and Conditionality* Johns Hopkins University, The Georgetown Public Policy Review , Volume VII, No.1, 2001
- Vasudha Chotray and Gery Stroker , *Governance Theory: A Cross Disciplinary Approach* , Palgrave Macmillan ,2008
- J. Rosenau, ‘Governance, Order, and Change in World Politics’, in J. Rosenau, and E. Czempiel (eds.) *Governance without Government: Order and Change in World Politics*, Cambridge: Cambridge University Press ,1992
- Nayar (ed.), *Globalization and Politics in India*. Delhi: Oxford University Press, 2007 pp. 218-240.
- Smita Mishra Panda , *Engendering Governance Institutions: State, Market And Civil Society*, Sage Publications,2008
- Neera Chandhoke, *State And Civil Society Explorations In Political Theory* , Sage Publishers,1995
- C. Smith, *Good Governance and Development*, Palgrave, 2007
- World Bank Report, *Governance And Development*, 1992
- P. Bardhan, ‘Epilogue on the Political Economy of Reform in India’, in *The Political Economy of Development in India*. 6th edition, Delhi: Oxford University Press, 2005
- J. Dreze and A. Sen, *India: Economic Development and Social Opportunity*. New Delhi: Oxford University Press, 1995
- Niraja Gopal Jayal[ed.], *Democracy in India*, Oxford University Press, 2007
- Ramachandra Guha, *Environmentalism: A Global History*, Longman Publishers, 1999

- J.P. Evans, *Environmental Governance*, Routledge , 2012
- Emilio F. Moran, *Environmental Social Science: Human - Environment interactions and Sustainability*, Wiley-Blackwell, 2010
- Burns H Weston and David Bollier, *Green Governance: Ecological Survival, Human Rights, and the Law of the Commons*, Cambridge University Press, 2013
- Bina Agarwal, *Gender And Green Governance* , Oxford University Press, Oxford, 2013
- J. Volger, 'Environmental Issues', in J. Baylis, S. Smith and P. Owens (eds.) *Globalization of World Politics*, New York: Oxford University Press, 2011, pp. 348-362.
- Heywood, *Global Politics*, New York: Palgrave, 2011, pp. 383-411.
- N. Carter, *The Politics of Environment: Ideas, Activism, Policy*, Cambridge: Cambridge University Press, 2007, pp. 13-81.
- Pranab Bardhan and Dilip Mookherjee, *Decentralization And Local Governance In Developing Countries: A Comparative Perspective*, MIT Press, 2006
- T.R. Raghunandan, *Decentralization And Local Governments: The Indian Experience, Readings On The Economy, Polity And Society*, Orient Blackswan, 2013
- Pardeep Sachdeva, *Local Government In India*, Pearson Publishers, 2011
- P. de Souza, (2002) 'Decentralization and Local Government: The Second Wind of Democracy in India', in Z. Hasan, E. Sridharan and R. Sudarshan (eds.) *India's Living Constitution: Ideas, Practices and Controversies*, New Delhi: Permanent Black, 2002
- Mary John, 'Women in Power? Gender, Caste and Politics of Local Urban Governance', in *Economic and Political Weekly*, Vol. 42(39), 2007
- Niraja Gopal Jayal , *Democracy and the State: Welfare, Secularism, and Development in Contemporary India*, Oxford University Press, 1999
- Reetika Khera[ed.], *The Battle for Employment Guarantee*, Oxford University Press, 2011
- Nalini Juneja, *Primary Education for All in the City of Mumbai: The Challenge Set By Local Actors'* , International Institute For Educational Planning, UNESCO : Paris, 2001
- Maxine Molyneux and Shahra Razavi , *Gender, Justice, Development, and Rights* , Oxford University Press, 2002

- Jugal Kishore, *National Health Programs of India: National Policies and Legislations*, Century Publications, 2005
- Jean Drèze and Amartya Sen, *India, Economic Development and Social Opportunity*, Oxford University Press, 1995
- K. Lee and Mills, *The Economic Of Health In Developing Countries*, Oxford University Press, 1983
- Marmar Mukhopadhyay and Madhu Parhar (eds.) *Education in India: Dynamics of Development*, Shipra Publications, 2007
- K. Vijaya Kumar, *Right to Education Act 2009: Its Implementation as to Social Development in India*, Akansha Publishers, 2012
- Amartya Sen and Jean Dreze, *Omnibus: Poverty and Famines, Hunger and Public Action, India- Economic Development and Social Opportunity*, Oxford University Press, 1998
- Jean Dreze and Amartya Sen, *An Uncertain Glory: India And Its Contradictions*, Princeton University Press, 2013
- Reetika Khera- *Rural Poverty And Public Distribution System*, EPW, Vol- XLVIII, No.45-46, Nov 2013
- Pradeep Chaturvedi , *Women And Food Security: Role Of Panchayats* , Concept Publishing House, 2002
- Bidyut Mohanty, “Women, Right to Food and Role of Panchayats”, *Mainstream*, Vol. LII, No. 42, October 11, 2014
- Crowther, *Corporate Social Responsibility*, Deep and Deep Publishers, 2008 Sanjay K. Agarwal, *Corporate Social Responsibility in India*, Sage Publishers, 2008
- Pushpa Sundar, *Business & Community: The Story of Corporate Social Responsibility in India*, New Delhi: Sage Publications, 2013

### **GE-3: Gandhi and the Contemporary World**

**Credit 06**

### **GE3T: Gandhi and the Contemporary World**

#### **I. Gandhi on Modern Civilization and Ethics of Development**

- a. Conception of Modern Civilisation and Alternative Modernity
- b. Critique of Development: Narmada Bachao Andolan

#### **II. Gandhian Thought: Theory and Action**

- a. Theory of Satyagraha
- b. Satyagraha in Action
  - i. Peasant Satyagraha: Kheda and the Idea of Trusteeship

- ii. Temple Entry and Critique of Caste
- iii. Social Harmony: 1947 and Communal Unity

### III. Gandhi's Legacy

- a) Tolerance: Anti - Racism Movements (Anti - Apartheid and Martin Luther King)
- b) The Pacifist Movement
- c) Women's Movements
- d) *Gandhigiri*: Perceptions in Popular Culture

### IV. Gandhi and the Idea of Political

- a) Swaraj
- b) Swadeshi

### Suggested Readings :

- Parekh, (1997) 'The Critique of Modernity', in *Gandhi: A Brief Insight*, Delhi: Sterling Publishing Company, pp. 63-74.
- K. Ishii, (2001) 'The Socio-economic Thoughts of Mahatma Gandhi: As an Origin of Alternative Development', *Review of Social Economy*. Vol. 59 (3), pp. 297-312.
- Hardiman, (2003) 'Narmada Bachao Andolan', in *Gandhi in his Time and Ours*. Delhi: Oxford University Press, pp. 224- 234.
- A Baviskar, (1995) 'The Politics of the Andolan', in *In the Belly of the River: Tribal Conflict Over Development in the Narmada Valley*, Delhi: Oxford University Press, pp.202-228.
- R Iyer, (ed) (1993) 'Chapter 4' in *The Essential Writings of Mahatma Gandhi*, New Delhi: Oxford University Press.
- R. Ramashray, (1984) 'Liberty Versus Liberation', in *Self and Society: A Study in Gandhian Thought*, New Delhi: Sage Publication.
- Parekh, (1997) 'Satyagrah', in *Gandhi: A Brief Insight*, Delhi: Sterling Publishing Company, pp. 51-63.
- Dalton, (2000) 'Gandhi's originality', in A. Parel (ed) *Gandhi, Freedom and Self-Rule*, New Delhi: Lexington Books, pp.63-86.
- Hardiman, (1981) 'The Kheda Satyagraha', in *Peasant Nationalists of Gujarat: Kheda District, 1917-1934*, Delhi: Oxford University Press, pp. 86-113.
- J. Brown, (2000) 'Gandhi and Human Rights: In search of True humanity', in A. Parel (ed) *Gandhi, Freedom and Self-Rule*, New Delhi: Lexington Books, pp. 93-100.
- R. Iyer, (2000) 'Chapter 10 and 11', in *The Moral and Political Thought of Mahatma Gandhi*, New Delhi: Oxford University Press, pp. 251-344
- Knudegaard, (2010), *Gandhi's Vision for Indian Society: Theory and Action*, Master Thesis in History, University of Oslo, Available at [https://docs.google.com/viewer?a=v&q=cache:Eqj9br1n3\\_oJ:https://www.duo.uio](https://docs.google.com/viewer?a=v&q=cache:Eqj9br1n3_oJ:https://www.duo.uio).

no/bitstream/handle/123456789/23275/IngridxKnudegaardxmasteroppgavexixhist  
orie.pdf?sequence%3D1+gandhi+and+temple+entry&hl=en&gl=in&pid=bl&srcid  
=ADGEESiKGssA7q2z1kxiuitm3bciHPh\_HI3chWKbJIVo9HE4LcWCLmKdKX  
CirPaIzh7Tp47fyoBQIHx9GUesefn8YCAQeaQSKMRdrwvYT2Q8c7XV95tQhS  
GuO9bNCGEdlYGoBjzoVdJc&sig=AHIEtbQ78zwxGvh92AnwmRHiA7t2wWX  
XJQ, Accessed: 14.04.2013, pp.27-38.

- P. Rao, (2009) 'Gandhi, Untouchability and the Postcolonial Predicament: A Note'. *Social Scientist*. Vol. 37 (1/2). Pp. 64-70.
- B. Parekh, (1999) 'Discourse on Unsociability', in *Colonialism, Tradition and Reform: An Analysis of Gandhi's Political Discourse*, New Delhi: Sage Publication.
- Hardiman, (2003) 'Fighting Religious Hatreds', in *Gandhi in His Time and Ours*. Delhi:Oxford University Press.
- Hardiman, (2003) 'Gandhi's Global Legacy', in *Gandhi in His Time and Ours*. Delhi: OxfordUniversity Press, pp. 238-283.
- Manimala, (1984) 'Zameen Kenkar? Jote Onkar: Women's participation in the Bodhgaya struggles', in M. Kishwar and R. Vanita (eds) *In Search of Answers: Indian Women's Voices from Manushi*, London: Zed Press.
- M. Shah, (2006) 'Gandhigiri; A Philosophy of Our Times', *The Hindu* Available at <http://www.hindu.com/2006/09/28/stories/2006092802241000.htm>, Accessed: 14.04.2013.
- Ghosh and T. Babu, (2006) 'Lage Raho Munna Bhai: Unravelling Brand 'Gandhigiri'', *Economic and Political Weekly*, 41 (51), pp. 5225 – 5227.
- H. Trivedi (2011) 'Literary and Visual Portrayal of Gandhi', in J Brown and A Parel (eds) *Cambridge Companion to Gandhi*, Cambridge University Press 2011, pp. 199-218.
- P. Chatterjee, (1986) 'The Moment of Maneuver', in *Nationalist Thought and the Colonial World: A derivative discourse?*, Delhi: Zed Books.
- Indian Council for Historical Research (1976) 'The Logic of Gandhian Nationalism: Civil Disobedience and the Gandhi – Irwin Pact, 1930-31', *Indian Historical Review*, Available at <http://www.ichrindia.org/journal.pdf>, Accessed: 18.04.2013.
- Dalton, (1996) 'Swaraj: Gandhi's Idea of Freedom', in *Mahatma Gandhi: Selected Political Writings*, USA: Hackett Publishing, pp. 95-148.
- Parel (ed.) (1997) 'Editor's Introduction', in *Gandhi, Hind Swaraj and Other Writings* Cambridge: Cambridge University Press.



- Baviskar, (1995) 'National Development, Poverty and the environment', in *In the Belly of the River: Tribal Conflict Over Development in the Narmada Valley*, Delhi: Oxford University Press, pp. 18-33.
- Parekh, (1997) 'Religious Thought', in *Gandhi: A Brief Insight*, Delhi: Sterling Publishing Company.
- R. Iyer, (1993) *The Essential Writings of Mahatma Gandhi*, New Delhi: Oxford University Press, pp. 299-344; 347-373.
- S. Sarkar, (1982) *Modern India 1885-1947*, New Delhi: Macmillan, pp. 432-39.
- R. Iyer, (2001) *The Moral and Political Thought of Mahatma Gandhi*, New Delhi: Oxford University Press. pp. 344-358.
- H. Coward, (2003) 'Gandhi, Ambedkar, and Untouchability', in H. Coward (ed) *Indian Critiques of Gandhi*, New York: State University of New York Press, pp. 41-66.
- J. Lipner, (2003) 'A Debate for Our Times', in Harold Coward (ed) *Indian Critiques of Gandhi*, New York: State University of New York Press, pp. 239-58
- M. Gandhi, (1941) 'Chapter 1, 2, 9, 15, and 16', in *Constructive Programme: Its Meaning and Place*, Ahmedabad: Navjivan Trust.
- R. Terchek, (1998) *Gandhi: Struggling for Autonomy*, USA: Rowman and Littlefield Publishers.
- N. Dirks, (2001), 'The Reformation of Caste: Periyar, Ambedkar and Gandhi', in *Castes of Mind: Colonialism and the making of Modern India*, Princeton: Princeton University Press.
- R. Mukharjee, (ed) (1995), *The Penguin Gandhi Reader*, New Delhi: Penguin.
- T. Weber, (2006) 'Gandhi is dead, Long live Gandhi- The Post Gandhi Gandhian Movement in India', in *Gandhi, Gandhism and the Gandhians*, New Delhi: Roli.
- Taneja, (2005) *Gandhi Women and the National Movement 1920-1947*, New Delhi: Haranand Publishers.
- J. Brown, (2008) *Gandhi and Civil Disobedience: The Mahatma in Indian Politics*, Cambridge: Cambridge University Press, 2008
- R. Ramashray, (1984) 'What Beyond the Satanic Civilization?', in *Self and Society: A Study in Gandhian Thought*, New Delhi: Sage Publication.

## Activities

### Topic 1

1. Reading of primary texts:- M K Gandhi Chapter VI and XIII “ Hind Swaraj” Navjeevan Trust, Ahmedabad, 1910
2. A site visit to any on-going developmental project preferably in NCT Delhi by students and submission of report on Environmental law Violation and Resistance by People in a Gandhian Way.

### **Topic 2**

1. Reading of primary texts:- M K Gandhi Chapter XII&XIII, “ Satyagraha in South Africa, Navjivan Trust, Ahmmedabad, 1928, pp. 95-107
2. A Report followed by presentation on functioning of Cooperative and Community engagement for example Amuland/or SEWA in Gujarat to understand Trusteeship and its relevance

### **Topic 3**

1. Movie Screenings (Movies like Lage Raho Munna Bhai, Gandhi by Richard Attenborough and Student’s Participation in reviewing/discussing the movie from a Gandhian perspective or Cultural engagement of Students with Gandhian Ideas through Staging of a street play.

### **Topic 4**

Student Visit to Any Gandhian Institution in Delhi like, Gandhi Darshan and Smiriti to understand on-going Gandhian work and programme and interacting with Gandhian activists.

**OR**

**GE-3: Understanding Ambedkar**

**Credit 06**

**GE3T: Understanding Ambedkar**

#### **I. Introducing Ambedkar**

Approach to Study Polity, History, Economy, Religion and Society

#### **II. Caste and Religion**

- a. Caste, Untouchability and Critique of Hindu Social Order
- b. Religion and Conversion

#### **III. Women’s Question**

- a. Rise and Fall of Hindu Women
- b. Hindu Code Bill

#### **IV. Political Vision**

- a. Nation and Nationalism
- b. Democracy and Citizenship

#### **V. Constitutionalism**

- a. Rights and Representations
- b. Constitution as an Instrument of Social Transformation

#### **VI. Economy and Class Question**

- a. Planning and Development

- b. Land and Labor
- c. Students Presentations

**a. Format for Student Presentations**

- 1) Five presentations on any original writing/speeches by B. R Ambedkar can be used by the students for presentations (Preferably other than compulsory writings that has been suggested in the reading list)
- 2) Six Presentations on the different issues concerned to Ambedkar's works and their relevance in contemporary India. (Preferably other than compulsory writings that has been suggested in the reading list)
- 3) One Presentation on Critical understanding on Ambedkar's Ideas.

**b. References for Students' Presentations:**

- 1) Babasaheb Ambedkar, Writings and Speeches, 22 Volumes (Available on [www.ambedkar.org](http://www.ambedkar.org))
- 2) Narendra Jadhav, Ambedkar Spoke, 3 Volumes
- 3) Any other related audio-visual source

**Suggested Readings:**

- G. Omvedt, (2008) 'Phule-Remembering The Kingdom of Bali', Seeking Begumpura Navyana, pp. 159-184.
- M. Gore, (1993) *The Social Context of an Ideology: Ambedkar's Political and Social Thought*, Delhi: Sage Publication, pp. 73-122 ; 196-225.
- Ambedkar, (1989) 'Annihilation of Caste with a Reply to Mahatma Gandhi', in *Dr. Babasaheb Ambedkar Writings and Speeches: Vol. 1*, Education Deptt., Government of Maharashtra, Mumbai, pp. 23-96.
- E. Zelliott, (1996) 'From Untouchable to Dalit: Essays on the Ambedkar Movement', in *The Leadership of Babasaheb Ambedkar*, Delhi: Manohar, pp. 53-78.
- G. Omvedt, *Liberty Equality and Community: Dr. Ambedkar's Vision of New Social Order*, Available at <http://www.ambedkar.org/research/LibertyEquality.htm>, Accessed: 19.04.2013.
- *The Untouchables Who were they and why they become Untouchables?*, Available at [http://www.ambedkar.org/ambcd/39A.Untouchables%20who%20were%20they\\_why%20they%20became%20PART%20I.htm](http://www.ambedkar.org/ambcd/39A.Untouchables%20who%20were%20they_why%20they%20became%20PART%20I.htm), Accessed: 18.04.2013.
- Ambedkar, (1987) 'The Hindu Social Order: Its Essential Principles', in *Dr. Babasaheb Ambedkar Writings and Speeches: Vol. 3*, Education Deptt., Government of Maharashtra, 1989, pp. 95-129.
- Ambedkar, (2003) 'What way Emancipation?', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-III*, Education Deptt., Government of Maharashtra, Mumbai, pp-175-201. Additional Readings:

- Ambedkar, (1987) 'Philosophy of Hinduism', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 3*, Education Deptt., Government of Maharashtra, Mumbai, pp-3-92.
- Zelliott, (2013) 'Ambedkar's World: The Making of Babasaheb and the Dalit Movement', in *The Religious Conversion Movement-1935-1956*, Delhi, pp. 143-173.
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- Ambedkar, (1987) 'The Women and the Counter-Revolution', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 3*, Education Deptt., Government of Maharashtra, Mumbai, pp. 427-437.
- P. Ramabai , (2013), *The High Caste Hindu Woman*, Critical Quest, Delhi.
- B. Ambedkar, (1991) 'What Gandhi and Congress have done to the Untouchables', in *Dr. Babasaheb Ambedkar Writings and Speeches*, Education Deptt, Government of Maharashtra, Vol.9, pp. 40-102; 181-198; 274-297.
- B. Ambedkar, (2003) 'Conditions Precedent for the successful working of Democracy', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-III*, Education Deptt, Government of Maharashtra, Mumbai, pp. 472-486.
- G. Aloysius, (2009). *Ambedkar on Nation and Nationalism*, Critical Quest, Delhi.
- B. R. Ambedkar, (2003), 'I have no Homeland', in *Dr. Babasaheb Ambedkar Writings and Speeches Vol- 17*, Education Deptt., Government of Maharashtra, Mumbai, pp-51-58.

### **Additional Readings:**

- B. Ambedkar, (2003), 'Role of Dr. B. R. Ambedkar in Bringing The Untouchables on the Political Horizon of India and Lying A Foundation of Indian Democracy', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-I*, Education Deptt., Government of Maharashtra, Mumbai, pp-63-178.
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- Speeches, Vol. 17-III*, Education Deptt., Government of Maharashtra, Mumbai, pp. 423-437.
- B. Ambedkar, (2003) 'Prospects of Democracy in India', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-III*, Education Deptt., Government of Maharashtra, Mumbai, pp. 519-523.
  - B. Ambedkar, (2003) 'People cemented by feeling of one country, One Constitution and One Destiny, Take the Risk of Being Independent', in *Dr. Babasaheb Ambedkar Writings and Speeches Vol. 17-III*, Education Deptt., Government of Maharashtra, Mumbai, pp. 13-59.
  - Ambedkar, Evidence before South Borough committee on Franchise, Available at <http://www.ambedkar.org/ambcd/07.%20Evidence%20before%20the%20Southborough%20Committee.htm>, Accessed: 19.04.2013.
  - Constituent Assembly Debates, Ambedkar's speech on Draft Constitution on 4th November 1948, *CAD Vol. VII*, Lok Sabha Secretariat, Government of India, 3rd Print, pp. 31-41.
  - B. Ambedkar, (2013), *States and Minorities*, Delhi: Critical Quest.
  - Gajendran, (2007) 'Representation', in S. Thorat and Aryama (eds.), *Ambedkar in Retrospect: Essays on Economics, Politics and Society*, Delhi: Rawat Publishers, pp. 184-194.
  - Ambedkar, (2003), 'Depressed Classes against Second Chamber: Dr. Ambedkar on Joint Parliamentary Committee Report Provision for Better Representation Demanded', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-I*, Education Deptt., Government of Maharashtra, Mumbai, pp. 231-243.
  - Ambedkar, (1987) 'Buddha or Karl Marx', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 3*, Education Deptt., Government of Maharashtra, Mumbai, pp-442-462.
  - S. Thorat, (2007) 'Economic System, Development and Economic Planning', in S. Thorat and Aryama (eds), *Ambedkar in Retrospect: Essays on Economics, Politics and Society*, Delhi: Rawat Publishers, pp. 25-48.
  - B. Ambedkar, (1991) '*Labor and Parliamentary Democracy and Welfare*', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 10*, Education Deptt., Government of Maharashtra, Mumbai, pp. 106-112; 139-143; 243-252
  - B. Mungekar, (2007) 'Labour Policy' in S. Thorat and Aryama (eds), *Ambedkar in Retrospect: Essays on Economics, Politics and Society*, Delhi: Rawat Publishers, pp. 76-92.
  - R. Ram, (2010) 'Dr, Ambedkar, Neo Liberal Market-Economy and Social Democracy in India', in *Human Rights Global Focus*, Vol. V (384), pp. 12-38, Available at [www.roundtableindia.co.in](http://www.roundtableindia.co.in), Accessed: 19.04.2013.

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- B. Ambedkar, (1991) 'Why Indian Labour determined to War', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 10*, Education Deptt, Government of Maharashtra, Mumbai, pp.36-43.
- Teltumbde and S. Sen (eds), 'Caste Question in India', in *Scripting the Change, Selected Writings of Anuradha Ghandi*, pp. 62- 91.

#### **GE-4: Politics of Globalization**

**Credit 06**

#### **GE4T: Politics of Globalization**

1. Concept of Globalisation: Globalisation debate; for and against.
2. Approaches to understanding globalisation:
  - a. Liberal approach
  - b. Radical approach
3. International Institutions/Regimes
  - a. World Bank
  - b. International Monetary Fund
  - c. The World Trade Organisation
4. Issues in Globalisation: Alternative Perspectives on its nature and character, critical dimensions: economic, political and cultural
5. Globalisation and democracy: State, sovereignty and the civil society.
6. Globalisation and Politics in developing countries
  - a. Globalisation and social movements
  - b. Globalisation and the demise of Nation State
  - c. Globalisation and human migration
7. The inevitability of globalisation: Domestic and Global responses

#### **Suggested Reading:**

- Anthony Giddens, *The Globalizing of Modernity*.
- Arjun Appadurai, *Modernity at Large: Cultural Dimensions of Globalisation*, University of Minnesota Press, 1996.
- David E. Korten, Niconor Perlas and Vandana Shiva (ed.), *International Forum of Globalisation*.
- Deepak Nayyar (ed.) *Governing Globalisation: Issues and Institutions*, Oxford University Press, 2002.
- Held, David and Anthony Mc grew (ed.), *The Global Transformation Reader: An introduction to the Globalisation Debate*, 2nd Cambridge, Polity Press, Blackwell Publishing.
- Jagdish Bhagwati, *In defense of Globalisation*, Oxford University Press, 2004.
- John Stopford, *Multinational Corporations, Foreign Policy*, Fall, 1998
- Joseph E Stiglitz, *Globalisation and its discontents*.
- Keohane Rebert and Joseph S. Nye Jr., *Globalisation: What is new, what is not*.

- Kofi Annan, The politics of Globalisation,
- Marc Lindenberg and Coralie Bryant, Going Global: Transforming Relief and Development NGOs, Bloomfield, Kumarian Press.
- Noreena Hertz, The silent take over: Global Capitalism and the death of Democracy, Praeger, 2000.
- Nye Joseph S and John D. Donanu (ed.) Governance in a Globalizing World, Washington dc, Brookings.
- Nye Jr. Joseph S, Globalisation and American Power.
- Pilpin Robert, The National State in the Global Economy.
- Samuel Huntington, The clash of Civilizations and the Remaking of world order.
- Stanley Hoffman, Clash of civilizations,
- Tyler Cowen, Creative Destruction: How Globalisation is changing the world's culture, New Jersey, Princeton University Press, 2000.
- Brahis John and Steeve Smith (ed.) The Globalisation of World Politics: An Introduction to International Relations, Oxford University Press, 2001.
- John Clark (ed.), Globalising Civic Engagement: Civil Society and Transnational Action, London, Earthscan, 2003.
- Sanjeev Khagram, James Riker and Korthru Sikkink (ed.) Restructuring World Politics: Transnational Social Movements, MN, University of Minnesota Press, 2002.
- Bernard Hoelkman and Michel Kostecki, the Political Economy of the World Trading System: From GATT to WTO, New York, OUP,

**OR**

**GE-4: United Nations and Global Conflicts**

**Credit 06**

**GE4T: United Nations and Global Conflicts**

**I. The United Nations**

- (a) An Historical Overview of the United Nations
- (b) Principles and Objectives
- (c) Structures and Functions: General Assembly; Security Council, and Economic and Social Council; the International Court of Justice and the specialised agencies (International Labour Organisation [ILO], United Nations Educational, Scientific and Cultural Organisation [UNESCO], World Health Organisation [WHO], and UN programmes and funds: United Nations Children's Fund [UNICEF], United Nations Development Programme [UNDP], United Nations Environment Programme [UNEP], United Nations High Commissioner for Refugees [UNHCR])
- (d) Peace Keeping, Peace Making and Enforcement, Peace Building and Responsibility to Protect
- (e) Millennium Development Goals

**II. Major Global Conflicts since the Second World War**

- (a) Korean War
- (b) Vietnam War

- (c) Afghanistan Wars
- (d) Balkans: Serbia and Bosnia

### III. Assessment of the United Nations as an International Organisation: Imperatives of Reforms and the Process of Reforms

#### Suggested Readings:

- Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp. 39-62.
- Goldstein, J. and Pevehouse, J.C. (2006) *International relations*. 6th edn. New Delhi: Pearson, pp. 265-282.
- Taylor, P. and Groom, A.J.R. (eds.) (2000) *The United Nations at the millennium*. London: Continuum, pp. 1-20.
- Gareis, S.B. and Varwick, J. (2005) *The United Nations: an introduction*. Basingstoke: Palgrave, pp. 1-40.
- Gowan, P. (2010) 'US: UN', in Gowan, P. 'A calculus of power: grand strategy in the twentyfirst century'. London: Verso, pp. 47-71.
- Baylis, J. and Smith, S. (eds.) (2008) *The globalization of world politics. an introduction to international relations*. 4th edn. Oxford: Oxford University Press, pp. 405-422.
- Thakur, R. (1998) 'Introduction', in Thakur, R. (eds.) *Past imperfect, future uncertain: The UN at Ffifty*. London: Macmillan, pp. 1-14.
- Basu, Rumki (2014) *United Nations: Structure and Functions of an international organization*, New Delhi, Sterling Publishers
- Gareis, S.B. and Varwick, J. (2005) *The United Nations: An introduction*. Basingstoke: Palgrave, pp. 15-21.
- Taylor, P. and Groom, A.J.R. (eds.) (2000) *The United Nations at the millennium*. London: Continuum, pp. 21-141.
- Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp. 119-135.
- Nambiar, S. (1995) 'UN peace-keeping operations', in Kumar, S. (eds.) *The United Nations at fifty*. New Delhi, UBS, pp. 77-94.
- Whittaker, D.J. (1997) 'Peacekeeping', in *United Nations in the contemporary world*. London: Routledge, pp. 45-56.
- White, B. et al. (eds.) (2005) *Issues in world politics*. 3rd edn. New York: Macmillan, pp. 113- 132.



- Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp.264-266.
- Sangal, P.S. (1986) 'UN, peace, disarmament and development', in Saxena, J.N. et.al. *United Nations for a better world*. New Delhi: Lancers, pp.109-114.
- Baxi, U. (1986) 'Crimes against the right to development', in Saxena, J.N. et.al. *United Nations for a better world*. New Delhi: Lancers, pp.240-248.
- Ghali, B.B. (1995) *An agenda for peace*. New York: UN, pp.5-38.
- United Nations Department of Public Information. (2008) *The United Nations Today*. New York: UN.
- Calvocoressi, P. (2001) *World Politics: 1945-200*. 3rd edn. Harlow: Pearson Education, pp. 116-124.
- Armstrong, D., Lloyd, L. and Redmond, J. (2004) *International organisations in world politics*. 3rd edn. New York: Palgrave Macmillan, pp. 42-43.
- Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp. 64-65 and 172-173.
- Calvocoressi, P. (2001) *World Politics: 1945-200*. 3rd edn. Harlow: Pearson Education, pp. 528-546.
- Baylis, J. and Smith, S. (eds.) (2008) *The globalization of world politics. an introduction to international relations*. 4th edn. Oxford: Oxford University Press, pp. 562-564.
- Achcar, G. (2004) *Eastern cauldron*. New York: Monthly Review Press, pp. 29-45 and 234-241.
- Achcar, G. (2003) *The clash of barbarisms: Sept. 11 and the making of the new world disorder*. Kolkata: K.P. Bachi & Co., pp. 76-81.
- Prashad, V. (2002) *War against the planet*. New Delhi: Leftword, pp. 1-6. Ali, T. (ed.) (2000) *Masters of the Universe*. London: Verso, pp. 203-216.
- Calvocoressi, P. (2001) *World Politics: 1945-200*. 3rd edn. Harlow: Pearson Education, pp.570-576.
- Ali, T. (ed.) (2000) *Masters of the Universe*. London: Verso, pp. 230-245 and 271-284.
- Kaldor, M. and Vashee, B. (eds.) (1997) *New wars*. London: Wider Publications for the UN University, pp. 137-144 and 153-171.

- Viotti, P.R. and Kauppi, M.V. (2007) *International relations and world politics-security, economy, identity*. 3rd edn. New Delhi: Pearson Education, pp. 470-471.
- Goldstein, J.S. (2003) *International relations*. 3rd edn. Delhi: Pearson Education, pp 43-51
- Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp.24-27.
- Roberts, A. and Kingsbury, B. (eds.) (1994) *United Nations, Divided World*. 2nd edn. Oxford: Clarendon Press, pp. 420-436.
- Taylor, P. and Groom, A.J.R. (eds.) (2000) *The United Nations at the millennium*. London: Continuum, pp. 196-223 and 295-326.
- Gareis, S.B. and Varwick, J. (2005) *The United Nations: An introduction*. Basingstoke: Palgrave, pp. 214-242.
- Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp. 91-112.
- Claude, I. (1984) *Swords into plowshares: the progress and problems of international organisation*. 4th edn. New York: Random House.
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- Rajan, M.S., Mani, V.S and Murthy, C.S.R. (eds.) (1987) *The nonaligned and the United Nations*. New Delhi: South Asian Publishers.
- South Asia Human Rights Documentation Centre. (2006) *Human rights: an overview*. New Delhi: Oxford University Press.
- Anan, K. (1997) *Renewing the United Nations: A Programme for Survival*. General Assembly Document: A/51/950; 14 July 1997. Available from: [http://daccessdds.un.org/doc/UNDOC/GEN/N97/189/79/1MG/n9718979.pdf](http://daccessdds.un.org/doc/UNDOC/GEN/N97/189/79/1MG/n9718979.pdf?OpenElement), Open Element (accessed on 13 October 2011).

**END**

# VIDYASAGAR UNIVERSITY



**Curriculum for 3-Year B.A. (General)  
in  
Political Science**

**Under Choice Based Credit System (CBCS)  
w.e.f 2018-2019**

**VIDYASAGAR UNIVERSITY**  
**B A (General) in Political Science**  
**[Choice Based Credit System]**

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
1	I	<b>SEMESTER-I</b>								
							<b>CA</b>	<b>ESE</b>	<b>TOTAL</b>	
		Core-1 (DSC-1A)		<b>Introduction to political theory</b>	6	5-1-0	15	60	75	
		Core-2 (DSC-2A)		Other Discipline(Discipline-2)/TBD	6		15	60	75	
		AECC-1 (Core)		English-I	6	5-1-0	15	60	75	
		AECC-1 (Elective)		English/MIL	2	1-1-0	10	40	50	
			<b>Semester - I : Total</b>			<b>20</b>			<b>275</b>	
			<b>SEMESTER-II</b>							
	II	Core-3 (DSC-1B)		<b>Indian Government and Politics</b>	6	5-1-0	15	60	75	
		Core-4 (DSC-2B)		Other Discipline(Discipline-2)/TBD	6		15	60	75	
		AECC-2 (Core)		MIL - I	6	5-1-0	15	60	75	
		AECC-2 (Elective)		Environmental Studies	4		20	80	100	
				<b>Semester - 2 : Total</b>			<b>22</b>			<b>325</b>

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
2	III	<b>SEMESTER-III</b>						<b>CA</b>	<b>ESE</b>	<b>TOTAL</b>
		Core-5 (DSC-1C)		<b>Comparative Government and Politics</b>	6	5-1-0	15	60	75	
		Core-6 (DSC-2C)		Other Discipline(Discipline-2)/TBD	6		15	60	75	
		AECC-3 (Core)		English-II	6	5-1-0	15	60	75	
		SEC-1		SEC-1: Legislative Support	2	1-1-0	10	40	50	
				<b>Semester - 3 : Total</b>	<b>20</b>				<b>275</b>	
			<b>SEMESTER-IV</b>							
	IV	Core-7 (DSC-1D)		<b>Introduction to International Relations</b>	6	5-1-0	15	60	75	
		Core-8 (DSC-2D)		Other Discipline(Discipline-2)/TBD	6		15	60	75	
		AECC-4 (Core)		MIL - II	6	5-1-0	15	60	75	
		SEC-2		SEC-2: Public Opinion and Survey Research	2	1-1-0	10	40	50	
				<b>Semester - 4 : Total</b>	<b>20</b>				<b>275</b>	

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
3	V	<b>SEMESTER-V</b>						<b>CA</b>	<b>ESE</b>	<b>TOTAL</b>
		DSE-1A		Any one from Discipline -1( Political Sc.) ( DSE-1A: Themes in Comparative Political Theory Or Democracy and Governance )	6	5-1-0	15	60	75	
		DSE-2A		Other Discipline(Discipline -2) / TBD	6		15	60	75	
		GE-1		TBD	6		15	60	75	
		SEC-3		SEC-3:Democratic Awareness with Legal Literacy	2	1-1-0	10	40	50	
				<b>Semester - 5 : Total</b>	<b>20</b>					<b>275</b>
			<b>SEMESTER-VI</b>							
	VI	DSE-1B		Any one from Discipline -1( Political Sc.) (DSE-1B:Administration and Public Policy: Concepts and Theories <b>Or</b> Understanding Globalization)	6	5-1-0	15	60	75	
		DSE-2B		Other Discipline (Discipline -2) / TBD	6		15	60	75	
		GE-2		TBD	6		15	60	75	
		SEC-4		SEC-4: Conflict and Peace Building	2	1-1-0	10	40	50	
				<b>Semester - 6 : Total</b>	<b>20</b>					<b>275</b>
			<b>Total in all semester:</b>			<b>122</b>				<b>1700</b>

**CC** = Core Course , **AECC** = Ability Enhancement Compulsory Course , **GE** = Generic Elective , **SEC** = Skill Enhancement Course , **DSE** = Discipline Specific Elective , **CA**= Continuous Assessment , **ESE**= End Semester Examination , **TBD**=To be decided , **CT** = Core Theory, **CP**=Core Practical , **L** = Lecture, **T** = Tutorial ,**P** = Practical , **MIL** = Modern Indian Language , **ENVS** = Environmental Studies ,



List of Core Courses and Electives  
Core Courses (CC)

- DSC-1A: Introduction to Political Theory**
- DSC-1B: Indian Government and Politics**
- DSC-1C: Comparative Government and Politics**
- DSC-1D: Introduction to International Relations**

Discipline Specific Courses (DSE)

- DSE-1A: Themes in Comparative Political Theory**
- Or**
- DSE-1A: Democracy and Governance**
- DSE-1B: Administration and Public Policy: Concepts and Theories**
- Or**
- DSE-1B: Understanding Globalization**

Skill Enhancement Courses (SEC)

- SEC-1: Legislative Support**
- SEC-2: Public Opinion and Survey Research**
- SEC-3: Democratic Awareness with Legal Literacy**
- SEC-4: Conflict and Peace Building**

Generic Electives (GE)

*[Interdisciplinary for other department]*

- GE-1: Reading Gandhi**
- Or**
- GE-1: Nationalism in India**
- Or**
- GE-1: Understanding Ambedkar**
- GE-2: Human Rights, Gender and Environment**
- Or**
- GE-2: Contemporary Political Economy**
- Or**
- GE-2: United Nations and Global Conflicts**

## Core Courses (CC)

### DSC-1A (CC-1): Introduction to Political Theory

Credit 06

#### DSC1AT: Introduction to Political Theory

##### 1. Course Content:

- a. What is Politics?
- b. What is Political Theory and what is its relevance?

##### 2. Concepts:

Democracy, Liberty, Equality, Justice, Rights, Gender, Citizenship, Civil Society and State

##### 3. Debates in Political Theory:

- a. Is democracy compatible with economic growth?
- b. On what grounds is censorship justified and what are its limits?
- c. Does protective discrimination violate principles of fairness?
- d. Should the State intervene in the institution of the family?

##### Suggested Readings:

1. Bhargava, R. (2008) 'What is Political Theory', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 2-17.
2. Bhargava, R. (2008) 'Why Do We Need Political Theory', in Bhargava, R. and Acharya, A.(eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 18-37.
3. Sriranjani, V. (2008) 'Liberty', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*.New Delhi: Pearson Longman, pp. 40-57.
4. Acharya, A. (2008) 'Equality', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*.New Delhi: Pearson Longman, pp. 58-73.
5. Menon, K. (2008) 'Justice', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 74-82.
6. Talukdar, P.S. (2008) 'Rights', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*.New Delhi: Pearson Longman, pp. 88-105.
7. Srinivasan, J. (2008) 'Democracy', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*.New Delhi: Pearson Longman, pp. 106-128.
8. Roy, A. 'Citizenship', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 130-147.
9. Das, S. (2008) 'State', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*. New Delhi:Pearson Longman, pp. 170-187.
10. Singh, M. (2008) 'Civil Society', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*.New Delhi: Pearson Longman, pp. 188-205.
11. Menon, N. (2008) 'Gender', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 224-235.
12. Shorten, A. (2008) 'Nation and State', in McKinnon, C. (ed.) *Issues in Political Theory*, New York: OxfordUniversity Press, pp. 33-55.
14. Christiano, Thomas. (2008) 'Democracy', in McKinnon, Catriona. (ed.) *Issues in Political Theory*, New York: Oxford University Press, pp. 80-96.



15. Riley, J. (2008) 'Liberty', in McKinnon, C. (ed.) *Issues in Political Theory*, New York: Oxford University Press, pp. 103-125.
16. Casal, P. & William, A. (2008) 'Equality', in McKinnon, C. (ed.) *Issues in Political Theory*. New York: Oxford University Press, pp. 149- 165.
17. Wolf, J. (2008) 'Social Justice', in McKinnon, C. (ed.) *Issues in Political Theory*. New York: Oxford University Press, pp. 172-193.
18. Brighouse, H. (2008) 'Citizenship', in McKinnon, C. (ed.) *Issues in Political Theory*. New York: Oxford University Press, pp. 241-259.
19. Chambers, C. (2008) 'Gender', in McKinnon, C. (ed.) *Issues in Political Theory*. New York: Oxford University Press, pp. 241-288.
20. Swift, A. (2001) *Political Philosophy: A Beginners Guide for Students and Politicians*. Cambridge: Polity Press.
21. Sen, A. (2003) 'Freedom Favours Development,' in Dahl, R., Shapiro, I. and Cheibub, A. J. (eds.) *The Democracy Sourcebook*. Cambridge, Massachusetts: MIT Press, pp. 444-446.
22. Prezowski, A., et al. (2003) 'Political Regimes and Economic Growth,' in Dahl, R., Shapiro, I. and Cheibub, A. J. (eds.) *The Democracy Sourcebook*. Cambridge, Massachusetts: MIT Press, pp. 447-454.
23. Sethi, A. (2008) 'Freedom of Speech and the Question of Censorship', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 308-319.
24. Acharya, A. (2008) 'Affirmative Action', in Bhargava, R. and Acharya, A. (eds.) *Political Theory: An Introduction*. New Delhi: Pearson Longman, pp. 298-307.
25. Frances E O. (1985) 'The Myth of State Intervention in the Family', *University of Michigan Journal of Law Reform*. 18 (4), pp. 835-64.
26. Jha, M. (2001) 'Ramabai: Gender and Caste', in Singh, M.P. and Roy, H. (eds.) *Indian Political Thought: Themes and Thinkers*, New Delhi: Pearson.

**DSC-1B (CC-2): - Indian Government and Politics**

**Credit 06**

**DSC1BT: - Indian Government and Politics**

**Course Content:**

- 1) Approaches to the Study of Indian Politics and Nature of the State in India: Liberal, Marxist and Gandhian
- 2) Indian Constitution: basic features, debates on Fundamental Rights and Directive Principles
- 3) Institutional Functioning: Prime Minister, Parliament and Judiciary
- 4) Power Structure in India: Caste, class and patriarchy
- 5) Religion and Politics: debates on secularism and communalism

- 6) Parties and Party systems in India
- 7) Social Movements : Workers, Peasants, Environmental and Women's Movement
- 8) Strategies of Development in India since Independence: Planned Economy and Neo-liberalism

**Suggested Readings:**

1. Abbas, H., Kumar, R. & Alam, M. A. (2011) *Indian Government and Politics*. New Delhi: Pearson, 2011.
2. Chandhoke, N. & Priyadarshi, P. (eds.) (2009) *Contemporary India: Economy, Society, Politics*. New Delhi: Pearson.
3. Chakravarty, B. & Pandey, K. P. (2006) *Indian Government and Politics*. New Delhi: Sage.
4. Chandra, B., Mukherjee, A. & Mukherjee, M. (2010) *India After Independence*. New Delhi: Penguin.
5. Singh, M.P. & Saxena, R. (2008) *Indian Politics: Contemporary Issues and Concerns*. New Delhi: PHI Learning.
6. Vanaik, A. & Bhargava, R. (eds.) (2010) *Understanding Contemporary India: Critical Perspectives*. New Delhi: Orient Blackswan.
7. Menon, N. and Nigam, A. (2007) *Power and Contestation: India Since 1989*. London: Zed Book.
8. Austin, G. (1999) *Indian Constitution: Corner Stone of a Nation*. New Delhi: Oxford University Press.
9. Austin, G. (2004) *Working of a Democratic Constitution of India*. New Delhi: Oxford University Press.
10. Jayal, N. G. & Maheta, P. B. (eds.) (2010) *Oxford Companion to Indian Politics*. New Delhi: Oxford University Press.

**DSC-1C (CC-3) : Comparative Government and Politics**

**Credit 06**

**DSC1CT: Comparative Government and Politics**

**Course Content:**

1. The nature, scope and methods of comparative political analysis
2. Comparing Regimes: Authoritarian and Democratic
3. Classifications of political systems:
  - a) Parliamentary and Presidential: UK and USA
  - b) Federal and Unitary: Canada and China
4. Electoral Systems: First past the post, proportional representation, mixed systems
5. Party Systems: one-party, two-party and multi-party systems
6. Contemporary debates on the nature of state: From state centric security to human centric security and the changing nature of nation-state in the context of globalization.

**Suggested Readings:**



1. Bara, J & Pennington, M. (eds.). (2009) *Comparative Politics*. New Delhi: Sage.
2. Caramani, D. (ed.). (2008) *Comparative Politics*. Oxford: Oxford University Press.
3. Hague, R. and Harrop, M. (2010) *Comparative Government and Politics: An Introduction*. (Eight Edition). London: Palgrave MacMillan.
4. Ishiyama, J.T. and Breuning, M. (eds.). (2011) *21st Century Political Science: A Reference Book*. Los Angeles: Sage.
5. Newton, K. and Deth, Jan W. V. (2010) *Foundations of Comparative Politics: Democracies of the Modern World*. Cambridge: Cambridge University Press.
6. O'Neil, P. (2009) *Essentials of Comparative Politics*. (Third Edition). New York: WW. Norton & Company, Inc.
7. Palekar, S.A. (2009) *Comparative Government and Politics*. New Delhi: PHI Learning Pvt. Ltd.
8. Caramani, D. (2008) 'Introduction to Comparative Politics', in Caramani, D. (ed.) *Comparative Politics*. Oxford: Oxford University Press, pp. 1-23.
9. Mohanty, M. (1975) 'Comparative Political Theory and Third World Sensitivity', in *Teaching Politics*. Nos. 1 & 2, pp. 22-38.
10. Webb, E. (2011) 'Totalitarianism and Authoritarianism', in Ishiyama, J. T. and Breuning, M. (eds.) *21st Century Political Science: A Reference Book*. Los Angeles: Sage, pp. 249-257.
11. Hague, R. and Harrop, M. (2004) *Comparative Government and Politics: An Introduction*. London: Palgrave MacMillan, pp. 36-50, 51-68.
12. Hague, R. and Harrop, M. (2004) 'The Political Executive', in *Comparative Government and Politics: An Introduction*. London: Palgrave MacMillan, pp. 268-290.
13. Cameron, D. R. (2002) 'Canada', in Ann L. G. (ed.) *Handbook of Federal Countries*. Montreal & Kingston: McGill-Queen's University Press, pp. 105-119.
14. Peter, H. (2002) 'Canada: A Federal Society-Despite Its Constitution', in Rekha Saxena. (ed.) *Mapping Canadian Federalism for India*. New Delhi: Konark Publisher, Pvt., pp. 115-129.
15. Dhillon, Michael. (2009), 'Government and Politics', in *Contemporary China: An Introduction*. London, New York: Routledge, 2009, pp. 137-160.
16. Evans, Jocelyn A.J. (2009) 'Electoral Systems', in Bara, J. and Pennington, M. (eds.) *Comparative Politics*. New Delhi: Sage, pp. 93-119.
17. Downs, W. M. (2011) 'Electoral Systems in Comparative Perspectives', in Ishiyama, J. T. and Breuning, M. (eds.) *21st Century Political Science: A Reference Book*. Los Angeles: Sage, pp. 159-167.
18. Cole, A. (2011) 'Comparative Political Parties: Systems and Organizations', in Ishiyama, J.T. and Breuning, M. (eds.) *21st Century Political Science: A Reference Book*. Los Angeles: Sage, pp. 150-158.
19. Caramani, D. (2008) 'Party Systems', in Caramani, D. (ed.) *Comparative Politics*. Oxford: Oxford University Press, pp. 293-317, 318-347.
20. Poggi, Gianfranco. (2008) 'The nation-state', in Caramani, D. (ed.) *Comparative Politics*. Oxford: Oxford University Press pp. 85-107.
21. Hague, R. and Harrop, M. (2004) 'The state in a global context', in *Comparative Government and Politics: An Introduction*. London: Palgrave MacMillan, pp. 17-34.
22. Bara, J. (2009) 'Methods for Comparative Analysis', in Bara, J. & Pennington, M. (eds.) *Comparative Politics*. New Delhi: Sage, pp. 40-65.

23. Blondel, J. (1996) 'Then and Now: Comparative Politics', *Political Studies*. Vol. 47, Issue 1, pp. 152-160
24. Chandhoke, N. (1996) 'Limits of Comparative Political Analysis', *Economic and Political Weekly*. vol. 31, No. 4, (January 27), pp. PE 2-PE8.
25. Mair, P. (2008) 'Democracy', in Carmani, D. (ed.) *Comparative Politics*. Oxford: Oxford University Press, pp. 108-132.
26. Robbins, J. W. (2011) 'Parsidentialism Verses Parliamentarism', in Ishiyama, J. T. and Marijke, B. (eds.) *21st Century Political Science: A Reference Book*. Los Angeles: Sage, pp. 177- 185.
27. Watts, D. (2003) *Understanding US/UK Government and Politics*. Manchester: Manchester University Press, pp. 1-25; 66-105; 106-138.

## **DSC-1D (CC-4): Introduction to International Relations**

**Credit 06**

### **DSC1DT: Introduction to International Relations**

#### **Course Content:**

#### **1. Approaches to International Relations**

- a) Classical Realism (Hans Morgenthau) and Neo-Realism (Kenneth Waltz)
- b) Neo-Liberalism: Complex Interdependence (Robert O. Keohane and Joseph Nye)
- c) Structural Approaches: World Systems Approach (Immanuel Wallerstein) and Dependency School (Andre Gunder Frank)
- d) Feminist Perspective (J. Ann Tickner)

#### **2. Cold War & Post-Cold War Era**

- a) Second World War & Origins of Cold War
- b) Phases of Cold War:
  - i. First Cold War
  - ii. Rise and Fall of Detente
  - iii. Second Cold War
  - iv. End of Cold War and Collapse of the Soviet Union
- (c) Post Cold- War Era and Emerging Centers of Power (European Union, China, Russia and Japan)

#### **3. India's Foreign Policy**

- a) Basic Determinants (Historical, Geo-Political, Economic, Domestic and Strategic)
- b) India's Policy of Non-alignment
- c) India: An Emerging Power

#### **Suggested Readings:**

1. William, P., Goldstein, D. M. and Shafritz, J. M. (eds.) (1999) *Classic Readings of International Relations*. Belmont: Wadsworth Publishing Co, pp. 30-58; 92-126.

2. Art, R. J. and Jervis, R. (eds.) (1999) *International Political Enduring: Concepts and Contemporary Issues*. 5th Edition. New York: Longman, pp. 7-14; 29-49; 119-126.
3. Jackson, R. and Sorenson, G. (2008) *Introduction to International Relations: Theories and Approaches*. New York: Oxford University Press, pp. 59-96.
4. Goldstein, J. and Pevehouse, J.C. (2009) *International Relations*. New Delhi: Pearson, pp. 81-111.
5. Tickner, J. A. (2001) *Gendering World Politics: Issues and Approaches in the Post-Cold War Era*. Columbia University Press.
6. Baylis, J. and Smith, S. (eds.) (2011) *The Globalization of World Politics: An Introduction to International Relations*. Fifth Edition. Oxford: Oxford University Press, pp. 90-123; 142-159; 262-277.
7. Wenger, A. and Zimmermann, D. (eds.) (2003) *International Relations: From the Cold World War to the Globalized World*. London: Lynne Rienner, pp. 54-89.
8. Appadorai and Rajan, M. S. (eds.) (1985) *India's Foreign Policy and Relations*. New Delhi: South AsiannPublishers.
9. Mewmillians, W.C. and Piotrowski, H. (2001) *The World Since 1945: A History of International Relations*. Fifth edition. London: Lynne Rienner Publishers.
10. Smith, M., Little, R. and Shackleton, M. (eds.) (1981) *Perspectives on World Politics*. London: Croom Helm
11. Indian Foreign Service Institute. (1997, 1998) *India's Foreign Policy: An Agenda for the 21<sup>st</sup> Century* Vols. 1 & 2, New Delhi: Konark Publishers, pp. 3-41; 102-119.
12. Ganguly, S. (ed.) (2009) *India's Foreign Policy: Retrospect and Prospect*. New Delhi: Oxford University Press.
13. Vanaik, A. (1995) *India in a Changing World: Problems, Limits and Successes of Its Foreign Policy*. New Delhi: Orient Longman. pp. 19-41; 63-67; 102-114; 118-124; 132-134.
14. Basu, Rumki (ed)(2012) *International Politics: Concepts theories and Issues*, New Delhi, Sage Publications India Pvt Ltd.

### *Discipline Specific Electives (DSE)*

**DSE-1A: Themes in Comparative Political Theory**

**Credit 06**

**DSE1AT: Themes in Comparative Political Theory**



### Course Content:

1. Distinctive features of Indian and Western political thought
2. Western Thought: Thinkers and Themes
  - a. Aristotle on Citizenship
  - b. Locke on Rights
  - c. Rousseau on inequality
  - d. J. S. Mill on liberty and democracy
  - e. Marx and Bakunin on State
3. Indian Thought: Thinkers and Themes
  - a. Kautilya on State
  - b. Tilak and Gandhi on Swaraj
  - c. Ambedkar and Lohia on Social Justice
  - d. Nehru and Jayaprakash Narayan on Democracy
  - e. Pandita Ramabai on Patriarchy

### Suggested Readings:

1. Dallmayr, F. (2009) 'Comparative Political Theory: What is it good for?', in Shogimen, T. and Nederman, C. J. (eds.) *Western Political Thought in Dialogue with Asia*. Plymouth, United Kingdom: Lexington, pp. 13-24.
2. Parel, A. J. (2009) 'From Political Thought in India to Indian Political Thought', in Shogiman, T. and Nederman, C. J. (eds.) *Western Political Thought in Dialogue with Asia*. Plymouth, United Kingdom: Lexington, pp. 187-208.
3. Pantham, Th. (1986) 'Introduction: For the Study of Modern Indian Political Thought', in Pantham, Th. & Deutch, K. L. (eds.) *Political Thought in Modern India*. New Delhi: Sage, pp. 9-16.
4. Burns, T. (2003) 'Aristotle', in Boucher, D and Kelly, P. (eds.) *Political Thinkers: From Socrates to the Present*. New York: Oxford University Press, pp. 73-91.
5. Waldron, J. (2003) 'Locke', in Boucher, D. and Kelly, P. (eds.) *Political Thinkers: From Socrates to the Present*, New York: Oxford University Press, pp. 181-197.
6. Boucher, D. (2003) 'Rousseau', in Boucher, D. and Kelly, P. (eds.) *Political Thinkers: From Socrates to the Present*. New York: Oxford University Press, pp. 235-252.
7. Kelly, P. (2003) 'J.S. Mill on Liberty', in Boucher, D. and Kelly, P. (eds.) *Political Thinkers: From Socrates to the Present*. New York: Oxford University Press, pp. 324-359.
8. Wilde, L. (2003) 'Early Marx', in Boucher, D. and Kelly, P. (eds.) *Political Thinkers: From Socrates to the Present*. New York: Oxford University Press, pp. 404-435.
9. Sparks, Ch. and Isaacs, S. (2004) *Political Theorists in Context*. London: Routledge, pp. 237-255.

10. Mehta, V. R. (1992) *Foundations of Indian Political Thought*. New Delhi: Manohar Publishers, pp. 88-109.
11. Inamdar, N.R. (1986) 'The Political Ideas of Lokmanya Tilak', in Panthan, Th. & Deutsch, K. L. (eds.) *Political Thought in Modern India*. New Delhi: Sage, pp. 110-121.
12. Patham, Th. (1986) 'Beyond Liberal Democracy: Thinking With Democracy', in Panthan, Th.& Deutsch, K.L. (eds.) *Political Thought in Modern India*. New Delhi: Sage, pp. 325-46.
13. Zelliott, E. (1986). 'The Social and Political Thought of B.R. Ambedkar', in Panthan, Th. &Deutsch, K. L.(eds.) *Political Thought in Modern India*. New Delhi: Sage, pp. 161-75.
14. Anand Kumar, 'Understanding Lohia's Political Sociology: Intersectionality of Caste, Class, Gender and Language Issue' *Economic and Political Weekly*. Vol. XLV: 40, October 2008, pp.64-70.
15. Pillai, R.C. (1986) 'The Political thought of Jawaharlal Nehru', in Panthan, T. & Deutsch, K. L.(eds.) *Political Thought in Modern India*. New Delhi: Sage pp. 260-74.
16. Jha, M. (2001) 'Ramabai: Gender and Caste', in Singh, M.P. and Roy, H. (eds.) *Indian Political Thought: Themes and Thinkers*, New Delhi: Pearson.

**OR**

**DSE-1A: Democracy and Governance**

**Credit 06**

**DSE1AT: Democracy and Governance**

**Course Content:**

**1. Structure and Process of Governance:** Indian Model of Democracy, Parliament, Party Politics and Electoral behaviour, Federalism, The Supreme Court and Judicial Activism, Units of Local Governance (Grassroots Democracy). Political Communication - Nature, Forms and Importance

**2. Ideas, Interests and Institutions in Public Policy:**

A. Contextual Orientation of Policy Design

B. Institutions of Policy Making

**a. Regulatory Institutions** – SEBI, TRAI, Competition Commission of India,

**b. Lobbying Institutions:** Chambers of Commerce and Industries, Trade Unions, Farmers Associations, etc.

**3. Contemporary Political Economy of Development in India:** Policy Debates over Models of Development in India, Recent trends of Liberalisation of Indian Economy in different sectors, E- governance.

**4. Dynamics of Civil Society:** New Social Movements and Various interests, Role of NGO's, Understanding the political significance of Media and Popular Culture.

**Suggested Readings:**

1. Agarwal B, Environmental Management, Equity and Ecofeminism: Debating India's Experience, Journal of Pesant Studies, Vol. 25, No. 4, pp. 55-95.
2. Atul Kohli (ed.), The Success of India's Democracy, Cambridge University Press, 2001.
3. Corbridge, Stuart and John Harris, Reinventing India: Liberalisation, Hindu Nationalism and Popular Democracy OUP, 2000.
4. J.Dreze and A.Sen, India: Economic Development and Social Opportunity, Clarendon, 1995
5. Saima Saeed, Screening the Public Sphere: Media and Democracy in India, 2013
6. Nick Stevenson, Understanding Media Cultures, 2002
7. Fuller, C.J. (ed.) Caste Today, Oxford University Press, 1997
8. Himat Singh, Green Revolution Reconsidered: The Rural World of Punjab, OUP, 2001.
9. Jagdish Bhagwati, India in Transition: Freeing the Economy, 1993.
10. Joseph E. Stiglitz, Globalisation and its Discontents, WW Norton, 2003.
11. Patel, I.G., Glimpses of Indian Economic Policy: An Insider View, OUP, 2002.
12. Rajni Kothari and Clude Alvares, (eds.) Another Revolution Fails: an investigation of how and why India's Operation Flood Project Touted as the World's Largest Dairy Development Program Funded by the EEC went off the Rails, Ajanta, New Delhi, 1985.
13. Smitu Kothari, Social Movements and the Redefinition of Democracy, Boulder, Westview, 1993.
14. Qah, John S.T., Curbing Corruption in Asia: A Comparative Study of Six Countries, Eastern University Press, 2003.
15. Vasu Deva, *E-Governance In India : A Reality*, Commonwealth Publishers, 2005
16. M.J.Moon, *The Evolution of Electronic Government Among Municipalities: Rheoteric or Reality*, American Society For Public Administration, Public Administration Review, Vol 62, Issue 4, July –August 2002
17. Pankaj Sharma, *E-Governance: The New Age Governance*, APH Publishers, 2004



18. Pippa Norris, *Digital Divide: Civic Engagement, Information Poverty and the Internet in Democratic Societies*, Cambridge: Cambridge University Press, 2001.
19. Ghanshyam Shah [ed.], *Social Movements and The State*, Sage Publication, 2002
20. Su H. Lee, *Debating New Social Movements: Culture, Identity, and Social Fragmentation*, Rawat Publishers, 2010
21. S. Laurel Weldon, *When Protest Makes Policy : How Social Movements Represent Disadvantaged Groups*, Michigan Publishers, 2011
22. Richard Cox, *Production, Power and World Order*, New York, Columbia University Press, 1987
23. Baxi, Upendra and Bhikhu Parekh, (ed.) *Crisis and Change in Contemporary India*, New Delhi, Sage, 1994.
24. Bidyut Chakrabarty, *Public Administration: A Reader*, Delhi Oxford University Press, 2003.
25. Elaine Kamarck, *Government Innovation Around the World: Occasional Paper Series*, John F Kennedy School of Government, 2003
26. Kothari, Rajini, *Politics in India*, Delhi, Orient Longman, 1970.
27. Mackie, Gerry, *Democracy Defended*, New York, Cambridge University Press, 2003.
28. Mahajan, Gurpreet (ed.), *Democracy, Difference and Social Justice*, New Delhi, Oxford University Press, 2000.
29. Menon, Nivedita, (ed.), *Gender and Politics in India*, New Delhi, Oxford University Press, 2001.
30. Mohanty, Manoranjan, *Peoples Rights: Social Movements and the State in the Third World*, Sage, New Delhi, 1998.
31. Paul Brass, *Politics in India since Independence*, Hyderabad, Orient Longman, 1990.
32. Rob Jenkins – *Regional Reflections: Comparative Politics across India's States*, New Delhi, OUP, 2004.
33. Sury, M.M, *India: A Decade of Economic reforms : 1991 –2001*, New Delhi, New Century Publication, 2003.
34. Thomas R. Dye., *Understating Public Policy*, Prentice Hall NJ, 1984.

35. Y. Dror, *Public Policy Making Reexamined*, Leonard Hill Books, Bedfordshire, 1974.
36. Basu Rumki et, al(ed) *Democracy and good governance: Reinventing the Public service Delivery System in India*, New Delhi, Bloomsbury India, 2015

**DSE-1B: Administration and Public Policy: Concepts and Theories Credit 06**

**DSE1BT: Administration and Public Policy: Concepts and Theories**

**Course Content:**

1. Public administration as a discipline: Meaning, scope and significance of the subject, public and private administration, brief evolution and major approaches, and comparative approaches to public administration.
2. Administrative theories: the classical theory, scientific management, the human - relation theory, and rational decision-making.
3. Understanding public policy: concept and theories, relevance of policy making in public administration and process of policy formulation and implementation and evaluation.
4. From Development Administration to New Public Management. Elements and politics of development administration, the New Public Management paradigm – a critical perspective in the post globalized era.

**Suggested Readings:**

1. Wasthi, A.and Maheshwari, S. (2003), *Public Administration*. Agra: Laxmi Narain Agarwal, pp. 3-12.
2. Basu, Rumki, (2014), *Public Administration, Concepts and Theories*, Delhi Sterling Publishers
3. Henry, N. (2003), *Public Administration and Public Affairs*. New Delhi: Prentice Hall, pp. 1- 52.
4. Bhattacharya, M. and Chakrabarty, B. (2005) ‘Introduction: Public Administration: Theory and Practice’, in Bhattacharya, M. and Chakrabarty, B. (eds.) *Public Administration: A Reader*. Delhi: Oxford University Press, pp. 1-50.
5. Henry, N. (2003) *Public Administration and Public Affairs*. New Delhi: Prentice Hall, pp. 53-74.
6. Mouzelis, N.P. (2005) ‘The Ideal Type of Bureaucracy’, in Bhattacharya, M. and Chakrabarty, B. (eds.) *Public Administration: A Reader*. Delhi: Oxford University Press, pp. 88-100.
7. Hyderbrand, W. (1980) ‘A Marxist Critique of Organization Theory’, in Evan, W (ed.) *Frontiers in Organization & Management*. New York: Praeger, pp. 123-150.

8. Hyderbrand, W. (1977) 'Organizational Contradictions in Public Bureaucracies: Towards a Marxian Theory of Organizations', in Benson, J. K. (ed.) *Organizational Analysis: Critique and Innovation*. Beverly Hills: Sage, pp. 85-109.
9. Bhattacharya, M. (1999) *Restructuring Public Administration: Essays in Rehabilitation*. New Delhi: Jawahar, pp. 29-70, 85-98.
10. Bhattacharya, M. (2001) *New Horizons in Public Administration*. New Delhi: Jawahar, pp. 248-272, 301-323.
11. Dye, T.R. (1975) *Understanding Public Policy*. New Jersey: Prentice Hall, pp. 1-38, 265- 299.
12. Dror, Y. (1983) *Public Policy Making Reexamined*. Oxford: Transaction Publication, pp. 129-216.
13. Bernard, C. (1938) *The Functions of Executive*. Cambridge: Harvard University Press.
14. Esman, M.J. (1986) 'Politics of Development Administration', in Montgomery, J.D. and Siffin, W. (eds.), *Approaches to Development Politics* . New York: McGraw-Hill.
15. Gant, G.F. (1979) *Development Administration: Concepts, Goals, Methods*. Madison: University of Wisconsin Press.
16. Kamenka, E. & Krygier, M. (eds.) (1979) *Bureaucracy*. London: Edward Arnold.  
Lee, H.B. (ed.) (1953) *Korea: Time, Change and Administration*. Hawai'i: University of Hawai'i Press.
17. Leftwich, A. (1994) 'Governance, the State and the Politics of Development', *Development and Change*, 25. March, J. and Simon, H. (1958) *Organization*. New York: Wiley.
18. Mooney, J. (1954) *The Principles of Organization*. New York: Harper & Row.
19. Simon, H. (1967) *Administrative Behavior: A Study of Decision Making Process in Administrative Organization*. New York: Macmillan.
20. Wiedner, E. (ed.) (1970) *Development Administration in Asia*. Durham: Duke University Press.

**OR**

**DSE-1B: Understanding Globalization**

**Credit 06**

**DSE1BT: Understanding Globalization**



## Course Content:

### 1. Globalization

- a) What is it?
- b) Economic, Political, Technological and Cultural Dimensions

### 2. Contemporary World Actors

- a) United Nations
- b) World Trade Organisation (WTO)
- c) Group of 77 Countries (G-77)

### 3. Contemporary World Issues

- a) Global Environmental Issues (Global Warming, Bio-diversity, Resource Scarcities)
- b) Poverty and Inequality
- c) International Terrorism

## Suggested Readings:

1. Lechner, F. J. and Boli, J. (eds.) (2004) *The Globalization Reader*. 2nd Edition. Oxford: Blackwell.
2. Held, D., Mc Grew, A. et al. (eds.) (1999) *Global Transformations Reader. Politics, Economics and Culture*, Stanford: Stanford University Press, pp. 1-50.
3. Viotti, P. R. and Kauppi, M. V. (2007) *International Relations and World Politics-Security, Economy, Identity*. Third Edition. Delhi: Pearson Education, pp. 430-450.
4. Baylis, J. and Smith, S. (eds.) (2011) *The Globalization of World Politics: An Introduction to International Relations*. Fourth Edition. Oxford: Oxford University Press, pp. 312-329; 50-385; 468-489.
5. Tickner, J.A. (2008) 'Gender in World Politics', in Baylis, J. and Smith, S. (eds.) *The Globalization of World Politics: An Introduction to International Relation*. 4th Edition. Oxford: Oxford University Press.
6. Taylor, P. and Grom, A.J.R. (eds.) (2000) *The United Nations at the Millennium*. London: Continuum. pp. 1-20.
7. Ravenhill, J. (2008) 'The Study of Global Political Economy', in Ravenhill, John (ed.) *Global Political Economy*. Second Edition. New York: Oxford University Press, pp.18-24.
8. Sauvnt, K. (1981) *Group of 77: Evolution, Structure and Organisation*, New York: Oceana Publications.
9. Chasek, P. S., Downie, D. L. and Brown, J. W. (eds.) *Global Environmental Politics*. Fourth Edition. Boulder: Colorado: Westview Press.
10. Roberts, J.M. (1999) *The Penguin History of the 20th Century*. London: Penguin.
11. Smith, M., Little, R. and Shackleton, M. (eds.) (1981) *Perspectives on World Politics*. London: Croom Helm.

12. White, B. et al. (eds.) (2005) *Issues in World Politics*. Third Edition, New York: Macmillan, pp. 74-92; 191-211.
13. Halliday, F. (2004) 'Terrorism in Historical Perspective', *Open Democracy*. 22 April, available at: [http://www.opendemocracy.net/conflict/article\\_1865.jsp](http://www.opendemocracy.net/conflict/article_1865.jsp)
14. Thomas, C. (2005) 'Poverty, Development, and Hunger', in Baylis, J. and Smith, S. (eds.) *The Globalization of World Politics*. Third Edition. New Delhi: Oxford University Press, pp.645-668.
15. Vanaik, A. (2007) 'Political Terrorism and the US Imperial Project', in *Masks of Empire*. New Delhi: Tulika Books, pp. 103-128.
16. Art, R.J. and Jervis, R. (eds.) (1999) *International Politics: Enduring Concepts and Contemporary Issues*. 5th Edition. New York: Longman, pp. 495-500; pp.508-516.

### *Skill Enhancement Courses (SEC)*

#### **SEC- 1: Legislative Support**

**Credit 02**

#### **SEC1T: Legislative Support**

#### **Course Content:**

##### **1. Powers and functions of people's representatives at different tiers of governance**

Members of Parliament, State Legislative Assemblies, functionaries of rural and urban local self government from Zila Parishads/Municipal Corporation to Panchayat/Ward.

**2. Supporting the legislative process:** How a Bill becomes a Law, Role of the Standing Committee in reviewing a Bill, Legislative Consultations, amendments to a Bill, the framing of Rules and Regulations.

##### **3. Supporting the legislative committees**

Types of committees, Role of committees in reviewing government finances, policy, programmes, and legislation.

##### **4. Reading the budget document:**

Overview of Budget Process, Role of Parliament in reviewing the Union Budget, Railway Budget, Examination of Demands for Grants of Ministries, Working of Ministries.

**5. Support in media monitoring and communication:** Types of media and their significance for legislators. Basics of communication in print and electronic media. .

#### **Suggested Readings:**

1. Madhavan, M.R. & N.Wahi, Financing of Election Campaigns PRS, Centre for Policy Research, New Delh, 2008:  
[http://www.prsindia.org/uploads/media/conference/Campaign\\_finance\\_brief.pdf](http://www.prsindia.org/uploads/media/conference/Campaign_finance_brief.pdf)

2. Vanka, S. *Primer on MPLADS* Centre for Policy Research, New Delhi, 2008. can be accessed on:<http://www.prsindia.org/parliamenttrack/primers/mplads-487/>
3. Kalra, H. *Public Engagement with the Legislative Process* PRS, Centre for Policy Research, New Delhi, 2011. can be accessed on:  
<http://www.prsindia.org/administrator/uploads/media/Conference%202011/Public%20Engagement%20with%20the%20Legislative%20Process.pdf>
4. Government of India (Lok Sabha Secretariat) *Parliamentary Procedures (Abstract Series)*, 2009. Can be accessed on:  
<http://164.100.47.132/LssNew/abstract/index.aspx>
5. Government of India, (Ministry of Parliamentary Affairs) *Legislation, Parliamentary Procedure*, 2009. Can be accessed on:  
[http://mpa.nic.in/Manual/Manual\\_English/Chapter/chapter-09.htm](http://mpa.nic.in/Manual/Manual_English/Chapter/chapter-09.htm)
6. Government of India, (Ministry of Parliamentary Affairs) *Subordinate Legislation, Parliamentary Procedure*, 2009. Can be accessed on:  
[http://mpa.nic.in/Manual/Manual\\_English/Chapter/chapter-11.htm](http://mpa.nic.in/Manual/Manual_English/Chapter/chapter-11.htm)
7. Kapur, Devesh and Pratap Banu Mehta, “The Indian Parliament as an Institution of Accountability,” *Democracy, Governance and Human Rights*, Programme Paper Number 23, United Nations Research Institute for Social Development, January 2006. Can be accessed on:  
[http://www.unrisd.org/UNRISD/website/document.nsf/240da49ca467a53f80256b4f005ef245/8e6fc72d6b546696c1257123002fcceb/\\$FILE/KapMeht.pdf](http://www.unrisd.org/UNRISD/website/document.nsf/240da49ca467a53f80256b4f005ef245/8e6fc72d6b546696c1257123002fcceb/$FILE/KapMeht.pdf)
8. Agarwal, O.P. and T.V. Somanathan, “Public Policy Making in India: Issues and Remedies,” February, 2005. Can be accessed on:  
[http://www.cprindia.org/admin/paper/Public\\_Policy\\_Making\\_in\\_India\\_14205\\_TV\\_SOMANATHAN.pdf](http://www.cprindia.org/admin/paper/Public_Policy_Making_in_India_14205_TV_SOMANATHAN.pdf).
9. Debroy, Bibek, “Why we need law reform,” *Seminar* January 2001.
10. Mehta, Pratap Bhanu, “India’s Unlikely Democracy: The Rise of Judicial Sovereignty,” *Journal of Democracy* Vol.18, No.2, pp.70-83.
11. Government links: <http://loksabha.nic.in/>; <http://rajyasabha.nic.in/>;  
<http://mpa.nic.in>
12. Sanyal, K. *Strengthening Parliamentary Committees* PRS, Centre for Policy Research, New Delhi, 2011. can be accessed on:  
<http://www.prsindia.org/administrator/uploads/media/Conference%202011/Strengthening%20Parliamentary%20Committees.pdf>
13. Celestine, A. *How to read the Union Budget* PRS, Centre for Policy Research, New Delhi, 2011. can be accessed on:  
<http://www.prsindia.org/parliamenttrack/primers/how to read the unionbudget 1023/>

## **SEC2T: Public Opinion and Survey Research**

### **Course Content:**

#### **I. Introduction to the course**

Definition and characteristics of public opinion, conceptions and characteristics, debates about its role in a democratic political system, uses for opinion poll.

#### **II. Measuring Public Opinion with Surveys: Representation and sampling**

- a. What is sampling? Why do we need to sample? Sample design.
- b. Sampling error and non-response
- c. Types of sampling: Non random sampling (quota, purposive and snowball Sampling); random sampling: simple and stratified

#### **III. Survey Research**

- a. Interviewing: Interview techniques pitfalls, different types of and forms of Interview
- b. Questionnaire: Question wording; fairness and clarity.

#### **IV. Quantitative Data Analysis**

- a. Introduction to quantitative data analysis
- b. Basic concepts: co relational research, causation and prediction, descriptive and Inferential Statistics

#### **V. Interpreting polls**

Prediction in polling research: possibilities and pitfalls  
Politics of interpreting polling

#### **Student Exercises:**

1. Discussion of readings and Indian examples.
2. Groups of students to collect examples of and discuss various sample based studies across many fields: e.g. consumer behaviour, unemployment rates, educational standards, elections, medicinal trials etc.
3. Non-random sampling: The students have to identify one group of people or behavior that is unique or rare and for which snowball sampling might be needed. They have to identify how they might make the initial contact with this group to start snowball rolling.
4. Give the students the electoral list of an area in Delhi (<http://ceodelhi.gov.in>). The students have to draw a random sample of n number of respondents.
5. For this activity, working with a partner will be helpful. The class should first decide on a topic of interest. Then each pair should construct a five-item self report questionnaire. Of the five items, there should be at least one nominal response, one ordinal response and one interval. After the common questionnaire is constructed putting together the questions from everyone, working in pairs, the questionnaire should be administered on 10 different individuals.
6. Give the students a questionnaire from any public opinion survey and ask them to identify the type of variables.

#### **Suggested Readings:**

1. R. Erikson and K. Tedin, (2011) *American Public Opinion*, 8th edition, New York: Pearson Longman Publishers,. pp. 40-46.
2. G. Gallup, (1948) *A guide to public opinion polls* Princeton, Princeton University Press, 1948.Pp. 3-13.
3. G. Kalton, (1983) *Introduction to Survey Sampling* Beverly Hills, Sage Publication. Lokniti Team (2009) ‘National Election Study 2009: A Methodological Note’, *Economic and Political Weekly*, Vol. XLIV (39)
4. Lokniti Team, (2004) ‘National Election Study 2004’, *Economic and Political Weekly*, Vol. XXXIX (51).
5. ‘Asking About Numbers: Why and How’, *Political Analysis* (2013), Vol. 21(1): 48-69, (first published online November 21, 2012)
6. H. Asher, (2001) ‘Chapters 3 and 5’, in *Polling and the Public: What Every Citizen Should Know*, Washington DC: Congressional Quarterly Press.
7. R. Erikson and K. Tedin, (2011) *American Public Opinion*, 8th edition, New York, Pearson Longman Publishers, pp. 40-46.
8. A.Agresti and B. Finlay, (2009) *Statistical methods for the Social Sciences*, 4th edition, Upper saddle river, NJ: Pearson-Prentice Hall,
9. S. Kumar and P. Rai, (2013) ‘Chapter 1’, in *Measuring Voting Behaviour in India*, New Delhi: Sage.
10. R. Karandikar, C. Pyne and Y. Yadav, (2002) ‘Predicting the 1998 Indian Parliamentary Elections’, *Electoral Studies*, Vol. 21, pp.69-89.
11. M. McDermott and K. A. Frankovic, (2003) ‘Horserace Polling and Survey Methods Effects: An Analysis of the 2000 Campaign’, *Public Opinion Quarterly* 67, pp. 244-264.
12. K. Warren, (2001) ‘Chapter 2’, in *In Defense of Public Opinion Polling*, Boulder: West view Press, pp. 45-80.
13. W. Cochran, (2007) ‘Chapter 1’, *Sampling Techniques*, John Wiley & Sons.
14. G. Gallup, (1948) *A Guide to Public Opinion Polls*. Princeton: Princeton University Press, pp. 14-20; 73-75.
15. D. Rowntree (2000) *Statistics Without Tears: an Introduction for Non Mathematicians*, Harmonds worth: Penguin.

**SEC-3 : Democratic Awareness with Legal Literacy**

**Credit 02**

**SEC3T : Democratic Awareness with Legal Literacy**



## Course Content:

### Unit I

- Outline of the Legal system in India
- System of courts/tribunals and their jurisdiction in India - criminal and civil courts, writ jurisdiction, specialized courts such as juvenile courts, Mahila courts and tribunals.
- Role of the police and executive in criminal law administration.
- Alternate dispute mechanisms such as lok adalats, non - formal mechanisms.

### Unit II

- Brief understanding of the laws applicable in India
- Constitution - fundamental rights, fundamental duties, other constitutional rights and their manner of enforcement, with emphasis on public interest litigation and the expansion of certain rights under Article 21 of the Constitution.
- Laws relating to criminal jurisdiction - provision relating to filing an FIR, arrest, bail search and seizure and some understanding of the questions of evidence and procedure in Cr. P.C. and related laws, important offences under the Indian Penal Code, offences against women, juvenile justice, prevention of atrocities on Scheduled Castes and Scheduled Tribes.
- Concepts like Burden of Proof, Presumption of Innocence, Principles of Natural Justice, Fair comment under Contempt laws.
- Personal laws in India : Pluralism and Democracy
- Laws relating to contract, property and tenancy laws.
- Laws relating to dowry, sexual harassment and violence against women
- Laws relating to consumer rights
- Laws relating to cyber crimes
- Anti-terrorist laws: implications for security and human rights
- **Practical application:** Visit to either a (i) court or (ii) a legal aid centre set up by the Legal Services Authority or an NGO or (iii) a Lok Adalat, and to interview a litigant or person being counseled. Preparation of a case history.

### Unit III

#### Access to courts and enforcement of rights

- Critical Understanding of the Functioning of the Legal System
- Legal Services Authorities Act and right to legal aid, ADR systems

#### Practical application:

What to do if you are arrested; if you are a consumer with a grievance; if you are a Victim of sexual harassment; domestic violence, child abuse, caste, ethnic and Religious

discrimination; filing a public interest litigation. How can you challenge Administrative orders that violate rights, judicial and administrative remedies

Using a hypothetical case of (for example) child abuse or sexual harassment or any other violation of a right, preparation of an FIR or writing a complaint addressed to the appropriate authority.

### **Suggested Reading:**

1. Creating Legal Awareness, edited by Kamala Sankaran and Ujjwal Singh (Delhi: OUP, 2007)
2. Legal literacy: available amongst interdisciplinary courses on Institute of Life Long Learning (Delhi University) Virtual Learning Portal namely vle.du.ac.in Multiple Action Research Group, *Our Laws Vols 1-10*, Delhi.
3. Indian Social Institute, New Delhi, *Legal Literacy Series Booklets*.
4. S.K. Agarwala, *Public Interest Litigation in India*, K.M. Munshi Memorial Lecture, Second Series, Indian Law Institute, Delhi, 1985.
- 5.
6. S.P. Sathe, *Towards Gender Justice*, Research Centre for Womens' Studies, SNDT Women's University, Bombay, 1993.
7. Asha Bajpai, *Child Rights in India : Law, Policy, and Practice*, Oxford University Press, New Delhi, 2003
8. Agnes, Flavia *Law and Gender Equality*, OUP, 1997.
9. Sagade, Jaga, *Law of Maintenance: An Empirical Study*, ILS Law College, Pune 1996.
10. B.L. Wadhera, *Public Interest Litigation - A Handbook*, Universal, Delhi, 2003.
11. Nomita Aggarwal, *Women and Law in India*, New Century, Delhi, 2002.
12. P.C. Rao and William Sheffiled *Alternate Dispute Resolution: What it is and How it Works*, , Universal Law Books and Publishers, Delhi, 2002
13. V.N. Shukla's *Constitution of India* by Mahendra P. Singh, Eastern Book Co. 10<sup>th</sup> edition 2001.
14. Parmanand Singh, 'Access to Justice and the Indian Supreme Court', 10 & 11 Delhi Law Review 156, 1981-82.

**SEC-4: Conflict and Peace Building**

**Credit 02**

**SEC4T: Conflict and Peace Building**

## **Course Content:**

### **Unit I. Concepts**

- a. Understanding Conflict
- b. Conflict Management, Conflict Resolution and Conflict Transformation
- c. Peace Building

### **Unit II: Dimensions of Conflict**

- a. Ideology
- b. Economic/Resource Sharing Conflicts
- c. Socio- Cultural Conflicts (Ethnic, Religious, Gender- based)

### **Unit III: Sites of Conflict**

- a. Local
- b. Sub-National
- c. International

### **Unit IV: Conflict Responses: Skills and Techniques**

- a. Negotiations: Trust Building
- b. Mediation: Skill Building; Active Listening
- c. Track I, Track II & Multi Track Diplomacy
- d. Gandhian Methods

### **Classroom Exercises/ Activities:**

- 1) Map the ethnic composition of your classroom and examine the prevailing prejudices and stereotyping practices and their manifestations and then suggest a strategy for trust building.
- 2) Identify a group of immigrants/ refugees from the South Asian region (Afghans, Bangladeshis, Sri Lankans, Tibetans, Rohingya Muslims from Myanmar) and based on your interactions with them, write a report explaining their respective experiences of conflicts are amenable to what kind of solution?
- 3) Identify musical bands and other such endeavors' in the South Asian region which have used music as a peace building measure for promoting understanding among different communities.
- 4) A sport is a means or a barrier to promoting inter community understanding. Have a debate in the class arguing for and against this proposition.
- 5) Conduct a case study of resource allocation of water and electricity by the Government of Delhi. Identify, if any, elements of institutional discrimination has taken place.
- 6) Follow a conflict from any level (local/sub-national/national) covered in the news for a month and prepare a report on its causes, the parties and the dynamics of the conflict

- 7) Identify protests over sharing of environmental resources and study their modus operandi for seeking redressal (for example, Narmada Bachao Andolan, Protests against the Nuclear Plant in Kondakulm, Movements against POSCO and Vedanta in Orissa)
- 8) Organize a peace film festival in your college.
- 9) Follow any track-two initiative between India and any of its neighbours (for example, Neemrana Initiative, The Pakistan India Peoples forum for Peace and Democracy , RIMC Old Boys Network, Women’s Initiative for Peace in South Asia, Committee for Sane Nuclear Policy, Peace Pals) and, write a report on its activities and the impact factor.

### Suggested Readings:

1. O. Ramsbotham, T. Woodhouse and H. Miall, (2011) ‘Understanding Contemporary Conflict’, in *Contemporary Conflict Resolution*, (Third Edition), Cambridge: Polity Press, pp. 94-122.
2. W. Zartman, (1995) ‘Dynamics and Constraints In Negotiations In Internal Conflicts’, in William Zartman (ed.), *Elusive Peace: Negotiating an End to Civil Wars*, Washington: The Brookings Institute, pp. 3-29.
3. P. Wallensteen, (2012) ‘Armed Conflicts’, in *Understanding Conflict Resolution*, (Third Edition), London: Sage, pp. 13-28.
4. C. Mitchell, (2002) ‘Beyond Resolution: What Does Conflict Transformation Actually Transform?’, in *Peace and Conflict Studies*, 9:1, May, pp.1-23.
5. S. Ryan, (1990) ‘Conflict Management and Conflict Resolution’, in *Terrorism and Political Violence*, 2:1, pp. 54-71.
6. J. Lederach, (2003) *The Little Book Of a Conflict Transformation*, London: Good Books.
7. L.Doucet, (1996)*Thinking About Conflict*, Resource Pack For Conflict Transformation: International Alert.
8. M. Lund, (2001) ‘A Toolbox for Responding to Conflicts and Building Peace’, in L. Reychler and T. Paffenholz, eds., *Peace-Building: A Field Guide*, Boulder: Lynne Rienner, pp. 16-20.
9. L. Schirch, (2004) *The Little Book Of Strategic Peacebuilding*, London: Good Books.
10. R. Rubenstein, (2003) ‘Sources’, in S. Cheldelin, D. Druckman and L. Fast (eds.) *Conflict: From Analysis to Intervention*, London: Continuum, pp.55-67.
11. P. Le Billon, (2009) ‘Economic and Resource Causes of Conflicts’, in J. Bercovitch, V. Kremenyuk and I. Zartman (eds.)*The Sage Hand Book of Conflict Resolution*, London: Sage Publications, pp. 210-224.

12. S. Ayse Kadayifci-Orellana, (2009) 'Ethno-Religious Conflicts: Exploring the Role of Religion in Conflict Resolution', in J. Bercovitch, V. Kremenyuk and I. Zartman (eds.) *The Sage Hand Book of Conflict Resolution*, London: Sage Publications, pp. 264-284.
13. D. Barash and C. Webel, (2009) *Peace and Conflict Studies*, London: Sage Publication, pp. 91- 117.
14. D. Sandole, (2003) 'Typology' in S. Cheldelin, D. Druckman and L. Fast (eds.) *Conflict: From Analysis to Intervention*, London: Continuum, pp.39-54.
15. P. Wallenstein, (2007) *Understanding Conflict Resolution* (2nd ed.), London: Sage Publications.
16. H. Saunders, (1999) *A Public Peace Process: Sustained Dialogue To Transform Racial and Ethnic Conflicts*, Palgrave Macmillan: New York, pp. 1-30.
17. N. Behera, 'Forging New Solidarities: Non-official Dialogues', in M. Mekenkamp, P. Tongeren and H. Van De Veen (eds.), *Searching For Peace In Central And South Asia*, London: Lynne Rienner Publishers, pp. 210-236.
18. J Bercovitch, V. Kremenyuk, and I. Zartman (eds.), (2009) *The Sage Hand Book of Conflict Resolution*, London: Sage Publications.
19. M. Steger , (2001) 'Peacebuilding and Non-Violence: Gandhi's Perspective on Power', in D. Christie, R. Wagner and D. Winter, (eds.), *Peace, Conflict, and Violence: Peace Psychology for the 21st Century Englewood Cliffs*, New Jersey: Prentice-Hall.
20. J. Davies and E. Kaufman (eds.), (2003) *Second Track/Citizens' Diplomacy: Concepts and Techniques for Conflict Transformation*, Rowman & Littlefield: Maryland.
21. C. Webel and J. Galtung (eds.), (2007) *The Handbook of Peace and Conflict Studies*, London: Routledge.
22. Toolkits by United States Institute of Peace
23. S. Mason and M. Siegfried, (2010) *Debriefing Mediators To Learn Their Experiences*, Washington D.C: United States Institute of Peace.
24. I. Zartman and A. De Soto, (2010) *Timing Mediation Initiatives*, Washington D.C: United States Institute of Peace.
25. A. Smith and D. Smock, (2010) *Managing A Mediation Process*, Washington D.C: United States Institute of Peace.

26. H. Burgess and G. Burgess, (2010) *Conducting Track II*, Washington D.C: United States Institute of Peace. Online Resources Conflict Resolution in Popular Art and Culture:
27. The International Network of Peace Museums, at [www.museumsforpeace.org/](http://www.museumsforpeace.org/), contains links to visit the websites of many of the world's peace museums. Theatre, peace and conflict at Theatre Without Borders, [www.theatrewithoutborders.com/peacebuilding](http://www.theatrewithoutborders.com/peacebuilding)
28. Global Peace Film Festival, [www.peacefilmfest.org/](http://www.peacefilmfest.org/)  
Football for Peace International, [www.football4peace.eu/contact.html](http://www.football4peace.eu/contact.html) Dialogue: [http://www.pgexchange.org/images/toolkits/PGX\\_D\\_Sustained%20Dialogue.pdf](http://www.pgexchange.org/images/toolkits/PGX_D_Sustained%20Dialogue.pdf)
29. Mediation: [http://www.initiativeforpeacebuilding.eu/resources/A\\_guide\\_to\\_Mediation\\_HDC.pdf](http://www.initiativeforpeacebuilding.eu/resources/A_guide_to_Mediation_HDC.pdf)  
<http://www.pgexchange.org/images/toolkits/civicus%20mediation%20tool.pdf>  
<http://www.beyondintractability.org/bi-essay/mediation> Facilitation: [http://www.pgexchange.org/images/toolkits/pgx\\_facilitation\\_tool.pdf](http://www.pgexchange.org/images/toolkits/pgx_facilitation_tool.pdf)  
<http://www.beyondintractability.org/bi-essay/facilitation>
30. Negotiation: Roger Fisher et al, *Getting to Yes: Negotiating Agreement without Giving In*, New York: Penguin, 1991.  
[http://peacebuilding.caritas.org/index.php/Introduction\\_to\\_Principled\\_Negotiation](http://peacebuilding.caritas.org/index.php/Introduction_to_Principled_Negotiation)  
Reconciliation: <http://www.peacebuildinginitiative.org/index.cfm?pageId=1975>
31. John Paul Lederach, *The Journey Toward Reconciliation*, London: Herald Press, 1999.
32. Charles Lerche, "Peace Building through Reconciliation," *International Journal of Peace Studies*, Vol. 5. No. 2, 2000. [http://www.gmu.edu/programs/icar/ijps/vol5\\_2/lerche.htm](http://www.gmu.edu/programs/icar/ijps/vol5_2/lerche.htm) Crossword Puzzle: [http://www.cengage.com/cgiwadsworth/course\\_products\\_wp.pl?fid=M20bI&product\\_isbn\\_issn=9781133602101](http://www.cengage.com/cgiwadsworth/course_products_wp.pl?fid=M20bI&product_isbn_issn=9781133602101)  
[http://www.cengage.com/cgiwadsworth/course\\_products\\_wp.pl?fid=M20bI&product\\_isbn\\_issn=978111344238](http://www.cengage.com/cgiwadsworth/course_products_wp.pl?fid=M20bI&product_isbn_issn=978111344238)

### Generic Elective (GE)

[Interdisciplinary for other department]

**GE-1: Reading Gandhi**

**Credit: 06**

**GE1T: Reading Gandhi**

**Course Content:**

**A). Ways to read a text:**

a. textual

b. contextual

**B) Hind Swaraj:**

1. Gandhi in his own words: A close reading of Hind Swaraj.
2. Commentaries on Hind Swaraj and Gandhian thought:

**C) Gandhi and modern India.**

- a. Nationalism.
- b. Communal unity
- c. Women's Question
- d. Untouchability.

**Suggested Readings:**

1. Terence Ball, Reappraising Political Theory, Ch. 1, OUP, 1995
2. "Meaning and Interpretation in the History of Ideas" in Visions of Politics, Quentin Skinner(ed.), Vol. 1, CUP, Cambridge, 2002.
3. "Introduction", M.K.Gandhi, Hind Swaraj and other writings ed. A.J.Parel (1997).
4. B. Parekh, Gandhi (1997), chs. 4 ("Satyagraha") and 5 ("The critique of modernity").
5. D.Hardiman, Gandhi in his time and ours (2003), ch.4 ("An alternative modernity").
6. "Nationalist Movement in India--- A Reader" by Sekhar Bandyopadhyay. OXFORD. 2008.
7. Gandhi's India of my Dreams (compiled R.K.Prabhu):  
"The meaning of Swaraj" (no.2); "In defence of Nationalism" (no.3);  
"India's cultural heritage" (no.45); "Regeneration of Indian women" (no.54);  
"Women's education"(no.55); "Communal unity" (no.59); "The curse of  
untouchability" (no.61); "Religious tolerance.in India" (no.62);  
"The problem of minorities" (no.66).

**OR**

**GE-1: Nationalism in India**

**Credit 06**

**GE1T: Nationalism in India**

**Course Content:**

**I. Approaches to the Study of Nationalism in India**

Nationalist, Imperialist, Marxist, and Subaltern Interpretations

**II. Reformism and Anti-Reformism in the Nineteenth Century**

Major Social and Religious Movements in 19th century

### III. Nationalist Politics and Expansion of its Social Base

- a. Phases of Nationalist Movement: Liberal Constitutionalists, Swadeshi and the Radicals; Beginning of Constitutionalism in India
- b. Gandhi and Mass Mobilisation: Non-Cooperation Movement, Civil Disobedience Movement, and Quit India Movement
- c. Socialist Alternatives: Congress Socialists, Communists

### IV. Social Movements

- a. The Women's Question: Participation in the National Movement and its Impact
- b. The Caste Question: Anti-Brahminical Politics
- c. Peasant, Tribals and Workers Movements

### V. Partition and Independence

- a. Communalism in Indian Politics
- b. The Two-Nation Theory, Negotiations over Partition

### Suggested Readings:

1. S. Bandopadhyay, (2004) *From Plassey to Partition: A History of Modern India*, New Delhi: Orient Longman, pp. 184-191
2. R. Thapar, (2000) 'Interpretations of Colonial History: Colonial, Nationalist, Post-colonial', in P. DeSouza, (ed.) *Contemporary India: Transitions*, New Delhi: Sage Publications, pp. 25-36.
3. S. Bandopadhyay, (2004) *From Plassey to Partition: A History of Modern India*, New Delhi: Orient Longman, pp.139-158, 234-276.
4. A.Sen, (2007) 'The idea of Social Reform and its Critique among Hindus of Nineteenth Century India', in S. Bhattacharya, (ed.) *Development of Modern Indian Thought and the Social Sciences*, Vol. X. New Delhi: Oxford University Press.
5. S. Bandopadhyay, (2004) *From Plassey to Partition: A History of Modern India*. New Delhi: Orient Longman, pp. 279-311.
6. S. Sarkar, (1983) *Modern India (1885-1947)*, New Delhi: Macmillan,
7. P. Chatterjee, (1993) 'The Nation and its Pasts', in P. Chatterjee, *The Nation and its Fragments: Colonial and Postcolonial Histories*. New Delhi: Oxford University Press, pp. 76-115.
8. S. Bandopadhyay, (2004) *From Plassey to Partition: A history of Modern India*. New Delhi: Orient Longman, pp. 342-357, 369-381.
9. G. Shah, (2002) *Social Movements and the State*, New Delhi: Sage, pp. 13-31



10. A.Jalal, and S. Bose, (1997) *Modern South Asia: History, Culture, and Political Economy*. New Delhi: Oxford University Press, pp. 135-156.
11. A.Nandy, (2005) *Rashtravad banam Deshbhakti* Translated by A. Dubey, New Delhi: Vani Prakashan. pp. 23-33. (The original essay in English is from A. Nandy, (1994) New Delhi: Oxford University Press, pp. 1-8.)
12. B. Chakrabarty and R. Pandey, (2010) *Modern Indian Political Thought*, New Delhi: Sage Publications.
13. P. Chatterjee, (1993) *The Nation and its Fragments: Colonial and Postcolonial Histories*, New Delhi: Oxford University Press.
14. R. Pradhan, (2008) *Raj to Swaraj*, New Delhi: Macmillan (Available in Hindi).
15. S. Islam, (2006) *Bharat Mein Algaovaad aur Dharm*, New Delhi: Vani Prakashan.

**OR**

**GE-1: Understanding Ambedkar**

**Credit 06**

**GE1T: Understanding Ambedkar**

**Course Content:**

**I. Introducing Ambedkar**

Approach to Study Polity, History, Economy, Religion and Society

**II. Caste and Religion**

- a. Caste, Untouchability and Critique of Hindu Social Order
- b. Religion and Conversion

**III. Women's Question**

- a. Rise and Fall of Hindu Women
- b. Hindu Code Bill

**IV. Political Vision**

- a. Nation and Nationalism
- b. Democracy and Citizenship

**V. Constitutionalism**

- a. Rights and Representations
- b. Constitution as an Instrument of Social Transformation

**VI. Economy and Class Question**

- a. Planning and Development
- b. Land and Labor

**Students Presentations**

- a. **Format for Student Presentations**

- 1) Five presentations on any original writing/speeches by B. R Ambedkar can be used by the students for presentations (Preferably other than compulsory writings that has been suggested in the reading list)
- 2) Six Presentations on the different issues concerned to Ambedkar's works and the irrelevance in contemporary India. (Preferably other than compulsory writings that has been suggested in the reading list)
- 3) One Presentation on Critical understanding on Ambedkar's Ideas.

**b. References for Students' Presentations:**

- 1) Babasaheb Ambedkar, Writings and Speeches, 22 Volumes (Available on [www.ambedkar.org](http://www.ambedkar.org))
- 2) Narendra Jadhav, Ambedkar Spoke, 3 Volumes
- 3) Any other related audio-visual source

**Suggested Readings:**

1. G. Omvedt, (2008) 'Phule-Remembering The Kingdom of Bali', Seeking Begumpura Navyana, pp. 159-184.
2. M. Gore, (1993) *The Social Context of an Ideology: Ambedkar's Political and Social Thought*, Delhi: Sage Publication, pp. 73-122 ; 196-225.
3. B. Ambedkar, (1989) 'Annihilation of Caste with a Reply to Mahatma Gandhi', in *Dr. Babasaheb Ambedkar Writings and Speeches: Vol. 1*, Education Deptt., Government of Maharashtra, Mumbai, pp. 23-96.
4. E. Zelliott, (1996) 'From Untouchable to Dalit: Essays on the Ambedkar Movement', in *The Leadership of Babasaheb Ambedkar*, Delhi: Manohar, pp. 53-78.
5. G. Omvedt, *Liberty Equality and Community: Dr. Ambedkar's Vision of New Social Order*, Available at <http://www.ambedkar.org/research/LibertyEquality.htm>, Accessed: 19.04.2013.
6. *The Untouchables Who were they and why they become Untouchables?*, Available at [http://www.ambedkar.org/ambcd/39A.Untouchables%20who%20were%20they\\_w hy%20they%20became%20PART%20I.htm](http://www.ambedkar.org/ambcd/39A.Untouchables%20who%20were%20they_w hy%20they%20became%20PART%20I.htm), Accessed: 18.04.2013.
7. B. Ambedkar, (1987) 'The Hindu Social Order: Its Essential Principles', in *Dr. Babasaheb Ambedkar Writings and Speeches: Vol. 3*, Education Deptt., Government of Maharashtra, 1989, pp. 95-129.
8. B. Ambedkar, (2003) 'What way Emancipation?', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-III*, Education Deptt., Government of Maharashtra, Mumbai, pp-175-201.
9. B. Ambedkar, (1987) 'Philosophy of Hinduism', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 3*, Education Deptt., Government of Maharashtra, Mumbai, pp-3-92.

10. E. Zelliott, (2013) 'Ambedkar's World: The Making of Babasaheb and the Dalit Movement', in *The Religious Conversion Movement-1935-1956*, Delhi, pp. 143-173.
11. S. Rege, (2013) 'Against the Madness of Manu', in *B. R. Ambedkar's Writings on Brahmanical Patriarchy*, Navyana Publication, pp. 13-59 ; 191-232.
12. B. Ambedkar, (2003) 'The Rise and Fall of Hindu Woman: Who was Responsible for It?', in *Dr. Babasaheb Ambedkar Writings and Speeches Vol. 17- II*, Education Deptt., Government of Maharashtra, Mumbai, pp. 109-129.
13. B. Ambedkar, (1987) 'The Women and the Counter-Revolution', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 3*, Education Deptt., Government of Maharashtra, Mumbai, pp.427-437.
14. P. Ramabai , (2013), *The High Caste Hindu Woman*, Critical Quest, Delhi.
15. B. Ambedkar, (1991) 'What Gandhi and Congress have done to the Untouchables', in *Dr. Babasaheb Ambedkar Writings and Speeches*, Education Deptt, Government of Maharashtra, Vol.9, pp. 40-102; 181-198; 274-297.
16. B. Ambedkar, (2003) 'Conditions Precedent for the successful working of Democracy', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-III*, Education Deptt, Government of Maharashtra, Mumbai, pp. 472-486.
17. G. Aloysius, (2009). *Ambedkar on Nation and Nationalism*, Critical Quest, Delhi.
18. B. R. Ambedkar, (2003), 'I have no Homeland', in *Dr. Babasaheb Ambedkar Writings and Speeches Vol- 17*, Education Deptt., Government of Maharashtra, Mumbai, pp-51-58.
19. B. Ambedkar, (2003), 'Role of Dr. B. R. Ambedkar in Bringing The Untouchables on the Political Horizon of India and Lying A Foundation of Indian Democracy', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-I*, Education Deptt., Government of Maharashtra, Mumbai, pp-63-178.
20. B. Ambedkar, (2003) 'Buddhism paved way for Democracy and Socialistic Pattern of Society', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-III*, Education Deptt., Government of Maharashtra, Mumbai, pp. 406-409.
21. B. Ambedkar, (2003) 'Failure of Parliamentary Democracy will Result in Rebellion, Anarchy and Communism', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-III*, Education Deptt., Government of Maharashtra, Mumbai, pp. 423-437.
22. B. Ambedkar, (2003) 'Prospects of Democracy in India', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-III*, Education Deptt., Government of Maharashtra, Mumbai, pp. 519-523.

23. B. Ambedkar, (2003) 'People cemented by feeling of one country, One Constitution and One Destiny, Take the Risk of Being Independent', in *Dr. Babasaheb Ambedkar Writings and Speeches Vol. 17-III*, Education Deptt, Government of Maharashtra, Mumbai, pp. 13-59.
24. Ambedkar, Evidence before South Borough committee on Franchise, Available at <http://www.ambedkar.org/ambcd/07.%20Evidence%20before%20the%20Southborough%20Committee.htm>, Accessed: 19.04.2013.
25. Constituent Assembly Debates, Ambedkar's speech on Draft Constitution on 4th November 1948, *CAD Vol. VII*, Lok Sabha Secretariat, Government of India, 3rd Print, pp. 31-41.
26. B. Ambedkar, (2013), *States and Minorities*, Delhi: Critical Quest.
27. A. Gajendran, (2007) 'Representation', in S. Thorat and Aryama (eds.), *Ambedkar in Retrospect: Essays on Economics, Politics and Society*, Delhi: Rawat Publishers, pp. 184-194.
28. B. Ambedkar, (2003), 'Depressed Classes against Second Chamber: Dr. Ambedkar on Joint Parliamentary Committee Report Provision for Better Representation Demanded', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-I*, Education Deptt, Government of Maharashtra, Mumbai, pp. 231-243.
29. B. Ambedkar, (1987) 'Buddha or Karl Marx', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 3*, Education Deptt., Government of Maharashtra, Mumbai, pp. 442-462.
30. S. Thorat, (2007) 'Economic System, Development and Economic Planning', in S. Thorat and Aryama (eds), *Ambedkar in Retrospect: Essays on Economics, Politics and Society*, Delhi: Rawat Publishers, pp. 25-48.
31. B. Ambedkar, (1991) 'Labor and Parliamentary Democracy and Welfare', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 10*, Education Deptt., Government of Maharashtra, Mumbai, pp. 106-112; 139-143; 243-252
32. B. Mungekar, (2007) 'Labour Policy' in S. Thorat and Aryama (eds), *Ambedkar in Retrospect: Essays on Economics, Politics and Society*, Delhi: Rawat Publishers, pp. 76-92.
33. R. Ram, (2010) 'Dr. Ambedkar, Neo Liberal Market-Economy and Social Democracy in India', in *Human Rights Global Focus, Vol. V (384)*, pp. 12-38, Available at [www.roundtableindia.co.in](http://www.roundtableindia.co.in), Accessed: 19.04.2013.
34. B. Ambedkar, (2003) 'Trade Union must Enter Politics to Protect their Interests', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 17-III*, Education Deptt, Government of Maharashtra, Mumbai, pp. 174-192.

35. B. Ambedkar, (1991) 'Why Indian Labour determined to War', in *Dr. Babasaheb Ambedkar Writings and Speeches, Vol. 10*, Education Deptt, Government of Maharashtra, Mumbai, pp. 36-43.
36. A. Teltumbde and S. Sen (eds), 'Caste Question in India', in *Scripting the Change, Selected Writings of Anuradha Ghandi*, pp. 62- 91.

## **GE-2: Human Rights, Gender and Environment**

**Credit 06**

### **GE2T: Human Rights, Gender and Environment**

#### **Course Content:**

#### **I : Understanding Social Inequality**

- Caste, Gender, Ethnicity and Class as distinct categories and their interconnection.
- Globalisation and its impact on workers, peasants, dalits, adivasis and women.

#### **II : Human Rights**

- Human Rights: Various Meanings
- UN Declarations and Covenants
- Human Rights and Citizenship Rights
- Human Rights and the Indian Constitution
- Human Rights, Laws and Institutions in India; the role of the National Human Rights Commission.
- Human Rights of Marginalized Groups: Dalits, Adivasis, Women, Minorities and Unorganized Workers.
- Consumer Rights: The Consumer Protection Act and grievance redressal mechanisms.
- Human Rights Movement in India.

#### **III : Gender**

- Analysing Structures of Patriarchy
- Gender, Culture and History
- Economic Development and Women
- The issue of Women's Political Participation and Representation in India
- Laws, Institutions and Women's Rights in India
- Women's Movements in India

#### **IV: Environment**

- Environmental and Sustainable Development
- UN Environment Programme: Rio, Johannesburg and after.
- Issues of Industrial Pollution, Global Warming and threats to Bio – diversity
- Environment Policy in India
- Environmental Movement in India

#### **Suggested Readings:**

1. Agarwal, Anil and Sunita Narain (1991), *Global Warming and Unequal World: A Case of Environmental Colonialism*, Centre for Science and Environment, Delhi.
2. Baxi, Upendra (2002), *The Future of Human Rights*, Oxford University Press, Delhi.
3. Beteille, Andre (2003), *Antinomies of Society: Essays on Ideology and Institutions*, Oxford University Press, Delhi.
4. Geetha, V. (2002) *Gender*, Sree Publications, Kolkata.
5. Ghanshyam Shah, (1991) *Social Movements in India*, Sage Publications, Delhi.
6. Guha, Ramachandra and Madhav Gadgil, (1993) *Environmental History of India*, University of California Press, Berkeley.
7. Haragopal, G. (1997) *The Political Economy of Human Rights*, Himachal Publishing House, Mumbai.
8. Menon, Nivedita (ed) (2000) *Gender and Politics in India*, Oxford University Press, Delhi.
9. Patel, Sujata et al (eds) (2003) *Gender and Caste: Issues in Contemporary Indian Feminism*, Kali for Women, Delhi.
10. Shah, Nandita and Nandita Gandhi (1992) *Issues at Stake: Theory and Practice in the Contemporary Women's Movement in India*, Kali for Women, Delhi.
11. Gonsalves, Colin (2011) *Kaliyug: The decline of human rights law in the period of globalization* Human Rights Law Network, New Delhi.
12. Sen, Amartya, *Development as Freedom* (1999) New Delhi, OUP.

**OR**

**GE-2: Contemporary Political Economy**

**Credit 06**

**GE2T: Contemporary Political Economy**

**Course Content:**

**I. Approaches to Political Economy**

Classical Liberalism, Marxism, Welfarism, Neo-liberalism and Gandhian approach

**II. Capitalist Transformation**

- a. European Feudalism and Transition to Capitalism
- b. Globalization: Transnational Corporations, World Trade Organization, Non-governmental Organizations (their role in development)

### III. Issues in Development

- (i) Culture: Media and Television
- (ii) Big Dams and Environmental Concerns
- (iii) Military: Global Arms Industry and Arms Trade
- (iv) Knowledge Systems

### IV. Globalization and Development Dilemmas

- (i) IT revolution and Debates on Sovereignty
- (ii) Gender
- (iii) Racial and Ethnic Problems
- (iv) Migration

### Suggested Readings:

1. Arblaster, A. (2006) 'The Rise and Decline of Western Liberalism' in Lal, D. *Reviving the Invisible Hand: The Case for Classical Liberalism in the Twenty first Century*. Princeton: Princeton University Press, pp. 1- 8, 17- 30, and 48- 51.
2. Mandel, E. (1979) *An Introduction to Marxist Economic Theory*. New York: Pathfinder Press, 3rd print, pp. 3-73.
3. Kersbergen, K.V. and Manow, P. (2009) *Religion, Class Coalition and Welfare State*. Cambridge: Cambridge University Press, chapters 1 and 10, pp. 1-38; 266-295
4. Andersen, J. G. (ed.) (2008) 'The Impact of Public Policies' in Caramani, D *Comparative Politics*. Oxford: Oxford University Press, ch 22, pp. 547- 563 .
5. Harvey, D. (2005) *A Brief History of Neo-liberalism*. Oxford: Oxford University Press, pp. 1- 206.
6. Ghosh, B.N. (2007) *Gandhian Political Economy: Principles, Practice and Policy*. Ashgate Publishing Limited, pp. 21- 88.
7. Phukan, M. (1998) *The Rise of the Modern West: Social and Economic History of Early Modern Europe*. Delhi: Macmillan India, (ch.14: Transition from Feudalism to Capitalism), pp. 420- 440.
8. Gilpin, R. (2003) *Global Political Economy: Understanding the International Economic Order*. Hyderabad: Orient Longman, pp. 278- 304.
9. Kennedy, P. (1993) *Preparing for the Twentieth Century*. UK: Vintage, Ch. 3
10. Gelinias, J. B. (2003) *Juggernaut Politics- Understanding Predatory Globalization*. Halifax, Fernwood, Ch.3. Available from: [www.globalpolicy.org](http://www.globalpolicy.org)
11. Gilpin, R. (2003) *Global Political Economy: Understanding the International Economic Order*. Hyderabad: Orient Longman, Ch. 8, pp. 196- 233.
12. Prasad, K. (2000) *NGOs and Social-economic Development Opportunities*. New Delhi: Deep & Deep, ch. 1, 2, 3, 5.

13. Fisher, J. (2003) *Non-governments – NGOs and the Political Development in the Third World*. Jaipur: Rawat, ch. 1, 4, 6.81
14. Media and Television Mackay, H. (2004) 'The Globalization of Culture' in Held, D. (ed.) *A Globalizing World? Culture, Economics and Politics*. London: Routledge, pp. 47- 84.
15. Tomlinson, J. (2004) 'Cultural Imperialism' in Lechner, F. J and Boli, J. (eds.) *The Globalization Reader*. Oxford: Blackwell, pp. 303- 311.
16. Lechner, F. J and Boli, J. (eds.) (2004) *The Globalization Reader*. Oxford: Blackwell, pp. 361- 376 and 398- 404.
17. Held, D. and Mcrew, A. (eds.) (2000) *The Global Transformations Reader*. Cambridge: Polity Press, pp. 374- 386.
18. Singh, S. (1997) *Taming the Waters: The Political Economy of Large Dams in India*. New Delhi: Oxford University Press, pp. 133- 163, 182- 203, 204- 240.
19. Kesselman, M. (2007) *The Politics of Globalization*. Boston: Houghton Mifflin Company, pp. 330- 339.
20. Marglin, S. (1990) 'Towards the Decolonisation of the Mind' in Marglin, S. and Marglin, F. A. (eds.) *Dominating Knowledge: Development, Culture and Resistance*. Oxford: Oxford University Press, pp. 1- 28.
21. L. Lechner, F. J and Boli, J. (eds.) (2004) *The Globalization Reader*. Oxford: Blackwell, pp. 211- 244.
22. Held, D. and Mcrew, A. (eds.) (2000) *The Global Transformations Reader*. Cambridge: Polity Press, pp. 105-155.
23. Omaha, K. (2004) 'The End of the Nation State', L. Lechner, F. J and Boli, J. (eds.) *The Globalization Reader*. Oxford: Blackwell, ch. 29.
24. Glen, J. (2007) *Globalization: North-South Perspectives*. London: Routledge, ch.6.
25. Sen, A. (2006) *Identity and Violence: Illusion and Destiny*. London: Penguin/Allen Lane, ch.7, pp. 130-148.
26. Berkovitch, N. (2004) 'The Emergence and Transformation of the International Women's Movements' in L. Lechner, F. J and Boli, J. (eds.) *The Globalization Reader*. Oxford: Blackwell, ch.31, pp. 251- 257.
27. Steans, J. (2000) 'The Gender Dimension' in Held, D. and Mcrew, A. (eds.), *The Global Transformations Reader*. Cambridge: Polity Press, ch.35, pp. 366- 373.



28. Tickner, J. A. (2008) 'Gender in World Politics' in Baylis, J., Smith, S. & Owens, P. (eds.) *Globalization of World Politics*, 4th edn., New Delhi: Oxford University Press, ch.15.
29. Kesselman, M. and Krieger, J. (2006) *Readings in Comparative Politics: Political Challenges and Changing Agendas*. Boston: Houghton Mifflin Company, pp. 243-254 and 266- 276.
30. Arya, S. and Roy, A. (eds.) *Poverty Gender and Migration*. New Delhi: Sage, Ch. 1
31. Kesselman, M. (2007) *The Politics of Globalization*. Boston: Houghton Mifflin Company, pp. 450- 462.
32. Nayyar, D. (ed.) (2002) *Governing Globalization*. Delhi: OUP, pp. 144- 176.

**OR**

**GE-2: United Nations and Global Conflicts**

**Credit 06**

**GE2T: United Nations and Global Conflicts**

**Course Content:**

**I. The United Nations**

- (a) An Historical Overview of the United Nations
- (b) Principles and Objectives
- (c) Structures and Functions: General Assembly; Security Council, and Economic and Social Council; the International Court of Justice and the specialised agencies (International Labour Organisation [ILO], United Nations Educational, Scientific and Cultural Organisation [UNESCO], World Health Organisation [WHO], and UN programmes and funds: United Nations Children's Fund [UNICEF], United Nations Development Programme [UNDP], United Nations Environment Programme [UNEP], United Nations High Commissioner for Refugees [UNHCR])
- (d) Peace Keeping, Peace Making and Enforcement, Peace Building and Responsibility to Protect
- (e) Millennium Development Goals

**II. Major Global Conflicts since the Second World War**

- (a) Korean War
- (b) Vietnam War
- (c) Afghanistan Wars
- (d) Balkans: Serbia and Bosnia

**III. Assessment of the United Nations as an International Organisation: Imperatives of Reforms and the Process of Reforms**

**Suggested Readings:**

1. Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp. 39-62.
2. Goldstein, J. and Pevehouse, J.C. (2006) *International relations*. 6th edn. New Delhi: Pearson, pp. 265-282.
3. Taylor, P. and Groom, A.J.R. (eds.) (2000) *The United Nations at the millennium*. London: Continuum, pp. 1-20.
4. Gareis, S.B. and Varwick, J. (2005) *The United Nations: an introduction*. Basingstoke: Palgrave, pp. 1-40.
5. Gowan, P. (2010) 'US: UN', in Gowan, P. 'A calculus of power: grand strategy in the twentyfirst century. London: Verso, pp. 47-71.
6. Baylis, J. and Smith, S. (eds.) (2008) *The globalization of world politics. an introduction to international relations*. 4th edn. Oxford: Oxford University Press, pp. 405-422.
7. Thakur, R. (1998) 'Introduction', in Thakur, R. (eds.) *Past imperfect, future uncertain: The UN at Ffifty*. London: Macmillan, pp. 1-14.
8. Basu, Rumki (2014) *United Nations: Structure and Functions of an international organization*, New Delhi, Sterling Publishers
9. Gareis, S.B. and Varwick, J. (2005) *The United Nations: An introduction*. Basingstoke:Palgrave, pp. 15-21.
10. Taylor, P. and Groom, A.J.R. (eds.) (2000) *The United Nations at the millennium*. London: Continuum, pp. 21-141.
11. Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp.119-135.
12. Nambiar, S. (1995) 'UN peace-keeping operations', in Kumar, S. (eds.) *The United Nations at fifty*. New Delhi, UBS, pp. 77-94.
13. Whittaker, D.J. (1997) 'Peacekeeping', in *United Nations in the contemporary world*. London: Routledge, pp. 45-56.
14. White, B. et al. (eds.) (2005) *Issues in world politics*. 3rd edn. New York: Macmillan, pp. 113-132.
15. Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp.264-266.
16. Sangal, P.S. (1986) 'UN, peace, disarmament and development', in Saxena, J.N. et.al. *United Nations for a better world*. New Delhi: Lancers, pp.109-114.

17. Baxi, U. (1986) 'Crimes against the right to development', in Saxena, J.N. et.al. *United Nations for a better world*. New Delhi: Lancers, pp.240-248.
18. Ghali, B.B. (1995) *An agenda for peace*. New York: UN, pp.5-38.
19. United Nations Department of Public Information. (2008) *The United Nations Today*. New York: UN.
20. Calvocoressi, P. (2001) *World Politics: 1945-200*. 3rd edn. Harlow: Pearson Education, pp.116-124.
21. Armstrong, D., Lloyd, L. and Redmond, J. (2004) *International organisations in world politics*. 3rd edn. New York: Palgrave Macmillan, pp. 42-43.
22. Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp. 64-65 and 172-173.
23. Calvocoressi, P. (2001) *World Politics: 1945-200*. 3rd edn. Harlow: Pearson Education, pp. 528-546.
24. Baylis, J. and Smith, S. (eds.) (2008) *The globalization of world politics. an introduction to international relations*. 4th edn. Oxford: Oxford University Press, pp. 562-564.
25. Achcar, G. (2004) *Eastern cauldron*. New York: Monthly Review Press, pp. 29-45 and 234- 241.
26. Achcar, G. (2003) *The clash of barbarisms: Sept. 11 and the making of the new world disorder*. Kolkata: K.P. Bachi & Co., pp. 76-81.
27. Prashad, V. (2002) *War against the planet*. New Delhi: Leftword, pp. 1-6. Ali, T. (ed.) (2000) *Masters of the Universe*. London: Verso, pp. 203-216.
28. Calvocoressi, P. (2001) *World Politics: 1945-200*. 3rd edn. Harlow: Pearson Education, pp.570-576.
29. Ali, T. (ed.) (2000) *Masters of the Universe*. London: Verso, pp. 230-245 and 271-284.
30. Kaldor, M. and Vashee, B. (eds.) (1997) *New wars*. London: Wider Publications for the UN University, pp. 137-144 and 153-171.
31. Viotti, P.R. and Kauppi, M.V. (2007) *International relations and world politics-security, economy, identity*. 3rd edn. New Delhi: Pearson Education, pp. 470-471.
32. Goldstein, J.S. (2003) *International relations*. 3rd edn. Delhi: Pearson Education, pp 43-51.
33. Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp.24-27.

34. Roberts, A. and Kingsbury, B. (eds.) (1994) *United Nations, Divided World*. 2nd edn. Oxford: Clarendon Press, pp. 420-436.
35. Taylor, P. and Groom, A.J.R. (eds.) (2000) *The United Nations at the millennium*. London: Continuum, pp. 196-223 and 295-326.
36. Gareis, S.B. and Varwick, J. (2005) *The United Nations: An introduction*. Basingstoke: Palgrave, pp. 214-242.
37. Moore, J.A. Jr. and Pubantz, J. (2008) *The new United Nations*. Delhi: Pearson Education, pp. 91-112.
38. Claude, I. (1984) *Swords into plowshares: the progress and problems of international organisation*. 4th edn. New York: Random House.
39. Dodds, F. (ed.) (1987) *The way forward: beyond the agenda 21*. London: Earthscan.
40. Rajan, M.S., Mani, V.S and Murthy, C.S.R. (eds.) (1987) *The nonaligned and the United Nations*. New Delhi: South Asian Publishers.
41. South Asia Human Rights Documentation Centre. (2006) *Human rights: an overview*. New Delhi: Oxford University Press.
42. Anan, K. (1997) *Renewing the United Nations: A Programme for Survival*. General Assembly Document: A/51/950; 14 July 1997. Available from: [http://daccessdds.un.org/doc/UNDOC/GEN/N97/189/79/1MG/n9718979.pdf](http://daccessdds.un.org/doc/UNDOC/GEN/N97/189/79/1MG/n9718979.pdf?OpenElement), Open Element (accessed on 13 October 2011).

## HISTORY

### DSE-2 : Women and Social Change in Nineteenth Century DSE2T : Women and Social Change in Nineteenth Century

Credits 06

1. Introduction – Socio-economic changes and women in contemporary Europe – Women’s role as wife and mother – ‘Angel in the House’ in mid-nineteenth century– Emergence of ‘New Women’–Contagious Diseases Act, 1860 –its criticism –Suffragists’ movements.
2. Women Question and social reform in nineteenth century India–Tension between tradition and modernity –Efforts to modernize women’s role: Rammohun Roy, Ishwarchandra Vidyasagar, Keshub ChandraSen, Dayananda Saraswati, Virasalingm, M G Ranade.
3. Printing and emergence of public space –Reformed culture –Women’s writing – Emergence of “new woman” in late nineteenth century –Pandita Ramabai,Sarala Devi, Begum Rokeya – Nationalism, Becoming the mothers’ of the nation.
4. Female education–Traditional and Western – Debates over curriculum – Government’s role –Spread of female education: Bethune School, Mahakali Pathshala.
5. Emergence of Women’s organizations- associations founded by men and those founded and managed by women-Swarna kumari Debi’s Sakhi Samity and Sarala Debi’s Bharat Stree Mahamandal, emergence of All India Women’s Conference.
6. Debate over marriage –Native Marriage Act of 1872; Age of Consent Bill, 1891, The Rukhmabai Case, Child Marriage Restraint Act of 1927.
7. Professional women: Chandramukhi Bose, Kadambini Ganguly and Anandibai Joshi.

#### Suggested Readings:

- Geraldine Forbes, *Women in Modern India*, New Cambridge History of India, Vol.IV.2  
KumkumSangari and SudeshVaid ed. *Recasting Women, Essays in Colonial History*  
Radaha Kumar, *The History of Doing: An Illustrated Account of Movements for Women’s Rights and Feminism in India, 1800-1990*  
Meredith Borthwick, *The Changing Role of Women in Bengal*  
Meera Kosambi, *Crossing the Threshold*  
Sumit Sarkar and Tanika Sarkar ed. *Women and Social Reform*, Vol. 1 & 2  
Tanika Sarkar, *Hindu Wife Hindu Nation*  
Rachel Fuchs, *Women in Nineteenth Century Europe*  
GhulamMurshid, *Adhuniktar Abhimukhe Bangaramani*  
Ghulam Murshid, *RassundarithekeRokeyaNariPragatirEkshoBachhar*  
Bharati Ray, *Feminists of Early India: Saraladevi and Begum Rokeya*  
Bharati Ray (ed.) *Nari O Paribar: Bamabodhini Patrika*

### DSE-4: Environmental History of India (Early India and Medieval Period) Credits 06 DSE4T: Environmental History of India (Early India and Medieval Period)

#### Unit-I

- a) Environmental history—Definition, Varieties and Sources
- b) India’s Ecological Profile-Varied and Vast Landscape

## **Unit-II**

- a) Social Uses of Natural Resources
- b) Resources- Renewable and Non-renewable Resources
- c) Mode of Resource Use in Gathering, Nomadic, Pastoralism, Agriculture and Industrial Mode

## **Unit-III**

- a) Eclectic Belief Systems – Sacred Groves – Conservation from Above – Conservation from Below
- b) Indus Valley Civilization – Climatic factors for its rise and decline
- c) Agricultural Expansion and Deforestation in the Gangetic Valley
- d) Changing Perception of Forests in Early India

## **Unit-IV**

- a) Expansions of Agrarian Frontiers, establishment of new settlements and trade networks in hilly, jungle and marshland regions during medieval period
- b) Changing Human Relations with animals-royal hunts
- c) Forest Dwellers and the pastoral communities in the medieval period

### **Suggested Readings:**

1. Cederlof, Gunnell and Sivaramakrishnan, K. Ed. Ecological Nationalisms: Nature, Livelihoods, and Identities in South Asia. New Delhi: Permanent Black, 2005.
2. Chakrabarti, Ranjan. Ed. Situating Environmental History. New Delhi: Manohar, 2007.
3. Gadgil, Madhav and Ramachandra Guha. The Fissured Land: An Ecological History of India. Berkeley: University of California Press, 1993.
4. Rangarajan, Mahesh and Sivaramakrishnan, K. Ed. India's Environmental History: From Ancient times to the Colonial Period: A Reader. Vol. 1 and 2. Ranikhet: Permanent Black
5. Samuel P. Hays, Explorations in Environmental History, Pittsburg U.S.A, 1998
6. Guha Ramachandra and J. Martinez-Alier, Varieties of Environmentalism: Essays - North and South, OUP, New Delhi, 1998.
7. Guha, Ramachandra, Environmentalism: A Global History, OUP, New Delhi, 2000.
8. Odum, Eugene P., Fundamentals of Ecology, London, 1971.
9. Saxena, H.M., Environmental Studies, Rawat Publication, Jaipur & New Delhi, 2006.
10. Smith, G.H. (ed.), Conservation of Natural Resources, New York, 1965.
11. Turk, J. Introduction to Environmental Studies, Chicago, 1985.

## **SEC - 2: Understanding Popular Culture**

**Credits 02**

**I : Introduction: Defining popular culture and understanding it historically**

**II: Visual expressions Folk art, calendar art, photography**

**III: Performance: Theatre; music; folk tales/songs/swang and Nautanki: Identifying themes, functionality, anxieties**

**IV: The audio-visual: cinema and television:**

Indian cinema: Mapping the influence of the national struggle for independence (1930s and 40s); Idealized nationalism (1950s), disillusionment and the anti-establishment mood (1970s and 80s); documentary films Expressions of popular culture in television

**V: Fairs, Festivals and Rituals:**

Disentangling mythological stories, patronage, regional variations

**VI: Popular culture in a globalized world:**

The impact of the Internet and audio-visual media

**Suggested Readings:**

Dissanayake, W. and K. M. Gokul Singh, Indian Popular Cinema, Trentham Book, London, 2004

John Storey, Cultural Theory and Popular Culture, London, 2001

Oberoi, Patricia, Freedom and Destiny: Gender, Family and Popular Culture in India, Delhi, 2009

Christopher Princy, Camera Indica: The Social Life of Indian Photographs, Chicago, 1998

Pankaj Rag, Dhuno ke Yatri, Rajkamal, New Delhi, 2006 (Hindi)

Ramanujan, A.K. Folktales from India A Selection of Oral Tales from Twenty-two Languages (only Introduction)

**SEC- 2 : Understanding Heritage**

**I. Defining Heritage**

Meaning of 'antiquity', 'archaeological site', 'tangible heritage', 'intangible heritage' and 'art treasure'

**II. Evolution of Heritage Legislation and the Institutional Framework**

Conventions and Acts— national and international\_Heritage-related government departments, museums, regulatory bodies etc. Conservation Initiatives

**III. Challenges facing Tangible and Intangible Heritage**

Development, antiquity smuggling, conflict (to be examined through specific case studies)

**IV. Evolution of Heritage Legislation and the Institutional**

**Framework:**

Conventions and Acts — national and international Heritage - related government departments, museums, regulatory bodies etc. Conservation Initiatives

**V. Challenges facing Tangible and Intangible Heritage:**

Development, antiquity smuggling, conflict (to be examined through specific case studies)

**VI. Heritage and Travel:**

Viewing Heritage Sites\_The relationship between cultural heritage, landscape and travel recent trends

**Suggested Readings:**

David Lowenthal, Possessed By The Past: The Heritage Crusade and The Spoils of History, Cambridge, 2010

Layton, R. P. Stone and J. Thomas. Destruction and Conservation of Cultural Property. London: Rutledge, 2001

Lahiri, N. Marshaling the Past - Ancient India and its Modern Histories. Ranikhet: Permanent Black. 2012, Chapters 4 and 5.

S.S. Biswas, Protecting the Cultural Heritage (National Legislations and International Conventions). New Delhi: INTACH, 1999.

Acts, Charters and Conventions are available on the UNESCO and ASI websites  
(www.unesco.org; www.asi.nic.in)

Agrawal, O.P., Essentials of Conservation and Museology, Delhi, 2006

Chainani, S. 2007. Heritage and Environment. Mumbai: Urban Design Research Institute, 2007

### **GE 3 : Some Perspectives on Women's Rights in India**

**Credits 06**

#### **GE 3T : Some Perspectives on Women's Rights in India**

##### **I. Definition of Human Rights**

Human Rights and Women, a survey of the Charter Interrogating Human Rights vis-à-vis personal laws in India UN Convention and Indian Context

##### **II. Indian Constitution and Women's Rights**

Fundamental Rights and Women

Directive Principles and Women

Major legal cases defending women's rights vis-à-vis the Constitution

##### **III. Preventive Acts**

Minimum Wage Act 1948, Family Courts Act 1986, PNDA Act 1994, Latest Measures

##### **IV. Issues of Violence against Women and Remedial Measures**

Domestic Violence Act, Prevention of Sexual Harassment at Workplace

Practical application and Problems, Remedial Measures

##### **V. Role of Non-Government Institutions**

Non-Government Organizations and Human Rights

Women and Non-Government Organizations – Participations

##### **VI. Present Status**

Issues of enabling and empowering modalities – Debate on uniform civil code

##### **Suggested Readings:**

Urvashi Butalia & Tanika Sarkar, (ed.), Women & Hindu Rights, New Delhi, Kali for Women, 1996

Zoya Hasan (ed.), Forging Identities, Communities & Patriarchies, EPW, December 1995

Bina Agarwal, Field of Her Own, New Delhi, Kali for Women

### **GE - 4 : Gender & Education in India**

**Credits 06**

#### **GE4T : Gender & Education in India**

##### **I. Historiographical Trends**

a. Pre-colonial historiographical trends in women's education b. colonial historiographical trends in women's education

c. Post-colonial historiographical trends in women's education

##### **II. Education in Early and Medieval Times**

a. Women's Education in Medieval times

b. Regional trends of Women's education in pre-colonial India c. Instances of women's education, obstacles

##### **III. Colonial Period**



- a. Socio-religious reforms
- b. Role of Christian missionaries in spreading female education, recent debates
- c. Indigenous initiatives at women's education

#### **IV. Role of Schools and Colleges in colonial and post-colonial period**

- a. Girls School and Colleges, development towards co-education
- b. Expansion of infrastructural facilities in education
- c. Technical and vocational education for women

#### **V. Contours of female literacy since 1950**

- a. Interrogating literacy for women
- b. Government policies and Schemes
- c. Disparities in Literacy: Region, Community, Social and Eco-factors

#### **VI. Present Scenario**

- a. Education as a tool of Empowerment

#### **Suggested Readings:**

Aparna Basu, *Growth of Education and Political Development in India, 1898 – 1920*

Usha Sharma, *Women Education in Modern India*

Ramnath Sharma & Rajender Sharma, *History of Education in India*, Atlantic Publishers, 1996

Aparna Basu & Bharati Ray (ed.), *Women's Struggle. A History of the All India Women's Conference 2002*

### **SEC - 1 : Literature and History: Bengal**

**Credits 02**

1. History and Literature : An Overview
2. Dichotomy between *Itihasa* and History- sense of *itihasa* in pre-colonial period as part of literature. Concept of 'mythic time' and 'historical time'. Beginning of history- writing in Bengal. Elements of literature in it.
3. Novel as a new literary genre – looking at past through literature. Ramesh Chandra Majumdar, Akshay Kumar Maitreya, Raman Pillai, Chandu Menon, Phakirmohan Senapati.
4. Power and Patriotism: Bankim's Nationalism: *Bande Mataram*, Anandamath  
Tagore's Nationalism and Universalism: *His Novels: GhareBaire and Char Adhyay*
5. Sarat Chandra Chattopadhyay and the Indian Women of Early 20th Century: Some reflections in the novels- *Charitrahin* and *Pother Dabi*;  
Difference of Perspective between Bankim and Tagore
5. Narratives of Suffering - Economic and Caste discrimination: Tarashankar and the Social milieu in the pre-Independent Bengal with special reference to *Ganadevata* and *Hansuli Banker Uakatha*
6. SatinathBhaduri& the Gandhian Movement:*DhoraiCharitManas*

#### **Suggested Readings**

Ashin Dasgupta, *Itihas O Sahitya*

Arabinda Samanta,

Meenakshi Mukhopadhyay, *UpanyaseAtitItihas O Kalpaitihas*

Priyadarsee Chakraborty ed., *History in Literature - Literature As History, The*

*Issue Revisited*

Rabindrab Rochonabali

Romila Thapar, *Time as a Metaphor of History: Early India*

Yan Watt, *Rise of the Novel*

Sisir Kumar Das, *History of Indian Literature: 1911-1956, struggle for freedom : triumph and tragedy*

Satinath Bhadurir NirbachitaRochonaboli

Sarat Sahitya Samagra, Vol 1&2

Tarasankar Bandyopadhyay, *Hansuli Banker Upakotha,*

Tarasankar Bandyopadhyay, *Ganadevata*

# VIDYASAGAR UNIVERSITY



## Curriculum for 3-Year B.A. (HONOURS) in ENGLISH

Under Choice Based Credit System (CBCS)  
w.e.f 2018-2019

**VIDYASAGAR UNIVERSITY**  
**BA (Honours) in English**  
**[Choice Based Credit System]**

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
							CA	ESE	TOTAL	
<b>Semester-I</b>										
1	I	Core-1		<b>C1T:</b> British Poetry and Drama: Beginning to 14th Century and History of English Language	6	5-1-0	15	60	75	
		Core-2		<b>C2T:</b> British Poetry and Drama: Renaissance to 17th and 18th Centuries	6	5-1-0	15	60	75	
		GE-1		TBD	6	5-1-0/ 4-0-4	15	60	75	
		AECC-1 (elective)		English/MIL	2	1-1-0	10	40	50	
	<b>Semester –I: total</b>					<b>20</b>				<b>275</b>
	<b>Semester-II</b>									
	II	Core-3		<b>C3T:</b> British Literature (fiction and non-fiction): 18th Century	6	5-1-0	15	60	75	
		Core-4		<b>C4T:</b> British Romantic Literature (1798-1832)	6	5-1-0	15	60	75	
		GE-2		TBD	6	5-1-0/ 4-0-4	15	60	75	
		AECC-2 (elective)		ENVS	4		20	80	100	
<b>Semester-II : total</b>					<b>22</b>				<b>325</b>	

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
<b>Semester-III</b>									
2	III	Core-5		<b>C5T:</b> British Literature: 19th Century (1832-1900)	6	5-1-0	15	60	75
		Core-6		<b>C6T:</b> British Literature: The Early 20th Century	6	5-1-0	15	60	75
		Core-7		<b>C7T:</b> American Literature	6	5-1-0	15	60	75
		GE-3		TBD	6	5-1-0/ 4-0-4	15	60	75
		SEC-1		<b>SEC-1:</b> English Language Teaching Or <b>Soft Skills</b> Or Translation Studies	2	1-1-0	10	40	50
	<b>Semester – III : total</b>				<b>26</b>				<b>350</b>
<b>Semester-IV</b>									
	IV	Core-8		<b>C8T:</b> European Classical Literature	6	5-1-0	15	60	75
		Core-9		<b>C9T:</b> Modern European Drama	6	5-1-0	15	60	75
		Core-10		<b>C10T:</b> Popular Literature	6	5-1-0	15	60	75
		GE-4		TBD	6	5-1-0/ 4-0-4	15	60	75
		SEC-2		<b>SEC-2:</b> Creative Writing Or Business Communication Or Technical Writing	2	1-1-0	10	40	50
<b>Semester – IV : total</b>				<b>26</b>				<b>350</b>	

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
							CA	ESE	TOTAL	
		<b>Semester-V</b>								
3	V	Core-11		<b>C11T:</b> Postcolonial Literatures	6	5-1-0	15	60	75	
		Core-12		<b>C12T:</b> Women's Writing	6	5-1-0	15	60	75	
		DSE-1		DSE-1: Nineteenth Century European Realism	6	5-1-0	15	60	75	
		DSE-2		DSE-2: World Literatures	6	5-1-0	15	60	75	
		<b>Semester - V : total</b>				<b>24</b>				<b>300</b>
			<b>Semester-VI</b>							
	VI	Core-13		<b>C13T:</b> Indian Classical Literature	6	5-1-0	15	60	75	
		Core-14		<b>C14T:</b> Indian Writing in English	6	5-1-0	15	60	75	
		DSE-3		DSE-3: Science Fiction and Detective Literature Or Literature and Cinema	6	5-1-0	15	60	75	
		DSE-4		DSE - 4: Partition Literature Or Travel Writing	6	5-1-0	15	60	75	
<b>Semester - VI : total</b>				<b>24</b>				<b>300</b>		
<b>Total in all semester:</b>					<b>142</b>				<b>1900</b>	

CC = Core Course , AECC = Ability Enhancement Compulsory Course , GE = Generic Elective , SEC = Skill Enhancement Course , DSE = Discipline Specific Elective , CA= Continuous Assessment , ESE= End Semester Examination , TBD=To be decided , CT = Core Theory, CP=Core Practical , L = Lecture, T = Tutorial , P = Practical , MIL = Modern Indian Language , ENVS = Environmental Studies ,

## List of Core Courses and Electives

### Core Course (CC)

- CC-1: British Poetry and Drama: Beginning to 14th Century and History of English Language
- CC-2: British Poetry and Drama: Renaissance to 17th and 18th Centuries
- CC-3: British Literature (fiction and non-fiction): 18th Century
- CC-4: British Romantic Literature (1798-1832)
- CC-5: British Literature: 19th Century (1832-1900)
- CC-6: British Literature: The Early 20th Century
- CC-7: American Literature
- CC-8: European Classical Literature
- CC-9: Modern European Drama
- CC-10: Popular Literature
- CC-11: Postcolonial Literatures
- CC-12: Women's Writing
- CC-13: Indian Classical Literature
- CC-14: Indian Writing in English

### Discipline Specific Electives (DSE)

- DSE-1: Nineteenth Century European Realism
- DSE-2: World Literatures
- DSE-3: Science Fiction and Detective Literature
- Or
- DSE-3: Literature and Cinema
- DSE-4: Partition Literature
- Or
- DSE-4: Travel Writing

### Skill Enhancement Course (SEC)

- SEC-1: English Language Teaching
- Or
- SEC-1: Soft Skills
- Or
- SEC-1: Translation Studies
- SEC-2: Creative Writing
- Or
- SEC-2: Business Communication
- Or
- SEC-2: Technical Writing

### Generic Electives (GE)

*[Interdisciplinary for other department]*

- GE-1: Academic Writing and Composition
- GE-2: Media and Communication Skills
- Or
- GE-2: Text and Performance
- GE-3: Language and Linguistics
- Or
- GE-3: Contemporary India: Women and Empowerment
- GE-4: Gender & Human Rights
- Or
- GE-4: Environment & Literature

## Core Courses (CC)

**CC-1: British Poetry and Drama: Beginning to 14th Century and History of English Language** **Credits 06**

**C1T: British Poetry and Drama: Beginning to 14th Century and History of English Language**

**Course Contents:**

**Group: A (History of Literature)**

- Old English poetry and prose
- Beowulf
- Chaucer: *The Wife of Bath's Prologue*

**Group: B (Philology)**

- Influences: Greek, Latin, Scandinavian, French

**Suggested Topics and Background Prose Readings for Class Presentations Topics:**

- Birth of English Literature and Language
- Advent of Christianity and its influence on English Literature
- Influence of Norman conquest and Black death
- Three phases of Chaucer

**Suggested Readings:**

- C.L.Wren: *The English Language*
- S.A.J. Bradley: *Anglo-Saxon Poetry*
- Greenfield & Calder: *A New Critical History of Old English Literature*
- Neville Coghill (ed.): *The Nun's Priest's Tale*
- Aditi Choudhury: *A History of English Literature* (Orient Blackswan)

**CC-2: British Poetry and Drama: Renaissance to 17th and 18th Centuries** **Credits 06**

**C2T: British Poetry and Drama: Renaissance to 17th and 18th Centuries**

**Course Contents:**

**Poetry:**

- Edmund Spenser: Sonnet LXXV "One day I wrote her name"
- William Shakespeare: Sonnet 130 "My mistress' eyes are nothing like the sun"
- John Donne: 'Good Morrow'
- Milton: *Paradise Lost Book-I*
- Pope: *Rape of the Lock* (3 cantos)

**Play:**

- Christopher Marlowe: *Edward II*
- William Shakespeare: *Macbeth*

**Literary terms related to poetry and drama:**





- Allegory, Ballad, Blank-Verse, Heroic Couplet, Bathos, Comedy, Dramatic Monologue, Elegy, Image, Ode, Carpe-diem, Soliloquy, Symbol, Tragedy, Catharsis, Hamartia, Three Unities, Anagnorisis, Antagonist, Chorus, Denouement, Comic-relief, Aside, Anti-Hero, Catastrophe

### **Suggested Topics and Background Prose Readings for Class Presentations Topics**

- Renaissance Humanism
- The Stage, Court and City
- Religious and Political Thought
- Ideas of Love and Marriage
- The Writer in Society

### **Suggested Readings:**

- Pico Della Mirandola, excerpts from the *Oration on the Dignity of Man*, in *The Portable Renaissance Reader*, ed. James Bruce Ross and Mary Martin McLaughlin (New York: Penguin Books, 1953) pp. 476–9.
- John Calvin, ‘Predestination and Free Will’, in *The Portable Renaissance Reader*, ed. James Bruce Ross and Mary Martin McLaughlin (New York: Penguin Books, 1953) pp. 704–11.
- Baldassare Castiglione, ‘Longing for Beauty’ and ‘Invocation of Love’, in Book 4 of *The Courtier*, ‘Love and Beauty’, tr. George Bull (Harmondsworth: Penguin, rpt. 1983) pp. 324–8, 330–5.
- Philip Sidney, *An Apology for Poetry*, ed. Forrest G. Robinson (Indianapolis: Bobbs-Merrill, 1970) pp. 13–18.

### **CC-3: British Literature (fiction and non-fiction): 18th Century**

**Credits 06**

### **CC3T: British Literature (fiction and non-fiction): 18th Century**

#### **Course Contents:**

##### **Play:**

- William Congreve: *The Way of the World*

##### **Prose:**

- Jonathan Swift: *Gulliver’s Travels* (Books III and IV)
- Addison and Steele: ‘Sir Roger at Church’
- Laurence Sterne: *The Life and Opinions of Tristram Shandy, Gentleman*

### **Suggested Topics and Background Prose Readings for Class Presentations Topics**

- The Enlightenment and Neoclassicism
- Restoration Comedy
- The Country and the City
- The Novel and the Periodical Press

### **Suggested Readings:**

- Jeremy Collier, *A Short View of the Immorality and Profaneness of the English Stage* (London: Routledge, 1996).



- Daniel Defoe, ‘The Complete English Tradesman’ (Letter XXII), ‘The Great Law of Subordination Considered’ (Letter IV), and ‘The Complete English Gentleman’, in *Literature and Social Order in Eighteenth-Century England*, ed. Stephen Copley (London: Croom Helm, 1984).
- Samuel Johnson, ‘Essay 156’, in *The Rambler, in Selected Writings: Samuel Johnson*, ed. Peter Martin (Cambridge, Mass.: Harvard University Press, 2009) pp.194–7; *Rasselas* Chapter 10; ‘Pope’s Intellectual Character: Pope and Dryden Compared’, from *The Life of Pope*, in *The Norton Anthology of English Literature*, vol. 1, ed. Stephen Greenblatt, 8th edn (New York: Norton, 2006) pp. 2693–4, 2774–7.

#### CC-4: British Romantic Literature (1798-1832)

Credits 06

#### CC4T: British Romantic Literature (1798-1832)

##### Course Contents:

##### Poetry:

- William Blake: ‘The Lamb’, ‘The Tyger’
- William Wordsworth: ‘Tintern Abbey’
- Samuel Taylor Coleridge: ‘Christabel’ Part-1
- Percy Bysshe Shelley: ‘Ozymandias’
- John Keats: ‘Ode to a Nightingale’

##### Novel:

- Mary Shelley: *Frankenstein*
- Jane Austen: *Pride and Prejudice*

##### Suggested Topics and Background Prose Readings for Class Presentations Topics

- Reason and Imagination
- Conceptions of Nature
- Literature and Revolution
- The Gothic
- The Romantic Lyric

##### Suggested Readings:

- William Wordsworth, ‘Preface to Lyrical Ballads’, in *Romantic Prose and Poetry*, ed. Harold Bloom and Lionel Trilling (New York: OUP, 1973) pp. 594–611.
- John Keats, ‘Letter to George and Thomas Keats, 21 December 1817’, and ‘Letter to Richard Woodhouse, 27 October, 1818’, in *Romantic Prose and Poetry*, ed. Harold Bloom and Lionel Trilling (New York: OUP, 1973) pp. 766–68, 777–8.
- Jean-Jacques Rousseau, ‘Preface’ to *Emile or Education*, tr. Allan Bloom (Harmondsworth: Penguin, 1991).
- Samuel Taylor Coleridge, *Biographia Literaria*, ed. George Watson (London: Everyman, 1993) chap. XIII, pp. 161–66.



**CC-5: British Literature: 19th Century (1832-1900)**

**Credits 06**

**CC5T: British Literature: 19th Century (1832-1900)**

**Course Contents:**

**Poetry:**

- Alfred Tennyson: ‘Ulysses’
- Robert Browning: ‘My Last Duchess’, ‘The Last Ride Together’
- Mathew Arnold: ‘Dover Beach’

**Novel:**

- Charles Dickens: *Hard Times*

**Suggested Topics and Background Prose Readings for Class Presentations Topics**

- Utilitarianism
- The 19th Century Novel
- Marriage and Sexuality
- The Writer and Society
- Faith and Doubt
- The Dramatic Monologue

**Suggested Readings:**

- Karl Marx and Friedrich Engels, ‘Mode of Production: The Basis of Social Life’, ‘The Social Nature of Consciousness’, and ‘Classes and Ideology’, in *A Reader in Marxist Philosophy*, ed. Howard Selsam and Harry Martel (New York: International Publishers, 1963) pp. 186–8, 190–1, 199–201.
- Charles Darwin, ‘Natural Selection and Sexual Selection’, in *The Descent of Man* in *The Norton Anthology of English Literature*, 8th edn, vol. 2, ed. Stephen Greenblatt (New York: Norton, 2006) pp. 1545–9.
- John Stuart Mill, *The Subjection of Women* in *Norton Anthology of English Literature*, 8th edn, vol.2, ed. Stephen Greenblatt (New York: Norton, 2006) chap. 1, pp. 1061–9.

**CC-6: British Literature: The Early 20th Century**

**Credits 06**

**C6T: British Literature: The Early 20th Century**

**Course Contents:**

**Poetry:**

- W.B. Yeats: ‘The Second Coming’, ‘The Wild Swans at Coole’
- T.S. Eliot ‘The Love Song of J. Alfred Prufrock’

**Fiction:**

- Joseph Conrad: *The Secret Sharer*
- Katherine Mansfield: ‘The Fly’

**Suggested Topics and Background Prose Readings for Class Presentations Topics**

- Modernism and non-European Cultures
- The Women’s Movement in the Early 20th Century



- Psychoanalysis and the Stream of Consciousness
- The Uses of Myth
- The Avant Garde

### **Suggested Readings:**

- Sigmund Freud, ‘Theory of Dreams’, ‘Oedipus Complex’, and ‘The Structure of the Unconscious’, in *The Modern Tradition*, ed. Richard Ellman et. al. (Oxford: OUP, 1965) pp. 571, 578–80, 559–63.
- T.S. Eliot, ‘Tradition and the Individual Talent’, in *Norton Anthology of English Literature*, 8th edn, vol. 2, ed. Stephen Greenblatt (New York: Norton, 2006) pp. 2319–25.
- Raymond Williams, ‘Introduction’, in *The English Novel from Dickens to Lawrence* (London: Hogarth Press, 1984) pp. 9–27.
- Borris Ford, *The Pelican Guide to English Literature*, vol.8.

## **CC-7: American Literature**

**Credits 06**

### **C7T: American Literature**

#### **Course Contents:**

##### **Poetry:**

- Robert Frost: ‘The Road not Taken’
- Langston Hughes: ‘Harlem to be Answered’
- Walt Whitman: ‘O Captain, My Captain’

##### **Stories:**

- Edgar Allan Poe: ‘The Purloined Letter’

##### **Novel:**

- Mark Twain: *The Adventures of Tom Sawyer*

##### **Play:**

- Tennessee Williams: *A Streetcar Named Desire*

### **Suggested Topics and Background Prose Readings for Class Presentations Topics**

- The American Dream
- Social Realism and the American Novel
- Folklore and the American Novel
- Black Women’s Writings
- Questions of Form in American Poetry

### **Suggested Readings:**

- Hector St John Crevecoeur, ‘What is an American’, (Letter III) in *Letters from an American Farmer* (Harmondsworth: Penguin, 1982) pp. 66–105.
- Frederick Douglass, *A Narrative of the life of Frederick Douglass* (Harmondsworth: Penguin, 1982) chaps. 1–7, pp. 47–87.
- Henry David Thoreau, ‘Battle of the Ants’ excerpt from ‘Brute Neighbours’, in *Walden* (Oxford: OUP, 1997) chap. 12.

- Ralph Waldo Emerson, 'Self Reliance', in *The Selected Writings of Ralph Waldo Emerson*, ed. with a biographical introduction by Brooks Atkinson (New York: The Modern Library, 1964).
- Toni Morrison, 'Romancing the Shadow', in *Playing in the Dark: Whiteness and Literary Imagination* (London: Picador, 1993) pp. 29–39.

## CC-8: European Classical Literature

Credits 06

### C8T: European Classical Literature

#### Course Contents:

- Homer: *The Iliad*, tr. E.V. Rieu (Harmondsworth: Penguin, 1985) (Book I).
- Sophocles: *Oedipus the King*, tr. Robert Fagles in *Sophocles: The Three Theban Plays* (Harmondsworth: Penguin, 1984).
- Plautus: *Pot of Gold*, tr. E.F. Watling (Harmondsworth: Penguin, 1965).
- Ovid Selections from *Metamorphoses* 'Bacchus', (Book III), 'Pyramus and Thisbe' (Book IV), tr. Mary M. Innes (Harmondsworth: Penguin, 1975).

#### Suggested Topics and Background Prose Readings for Class Presentations Topics

- The Epic
- Comedy and Tragedy in Classical Drama
- The Athenian City State
- Catharsis and Mimesis
- Satire
- Literary Cultures in Augustan Rome

#### Suggested Readings:

- Aristotle, *Poetics*, translated with an introduction and notes by Malcolm Heath, (London: Penguin, 1996) chaps. 6–17, 23, 24, and 26.
- Plato, *The Republic*, Book X, tr. Desmond Lee (London: Penguin, 2007).
- Horace, *Ars Poetica*, tr. H. Rushton Fairclough, *Horace: Satires, Epistles and Ars Poetica* (Cambridge Mass.: Harvard University Press, 2005) pp. 451–73.

## CC-9: Modern European Drama

Credits 06

### C9T: Modern European Drama

#### Course Contents:

- Henrik Ibsen: *Ghosts*
- Bertolt Brecht: *The Good Woman of Szechuan*
- Samuel Beckett: *Waiting for Godot*

#### Suggested Topics and Background Prose Readings for Class Presentations

#### Topics

- Politics, Social Change and the Stage
- Text and Performance
- European Drama: Realism and Beyond

- Tragedy and Heroism in Modern European Drama
- The Theatre of the Absurd

### Suggested Readings:

- Constantin Stanislavski, *An Actor Prepares*, chap. 8, 'Faith and the Sense of Truth', tr. Elizabeth Reynolds Hapgood (Harmondsworth: Penguin, 1967) sections 1, 2, 7, 8, 9, pp. 121–5, 137–46.
- Bertolt Brecht, 'The Street Scene', 'Theatre for Pleasure or Theatre for Instruction', and 'Dramatic Theatre vs Epic Theatre', in *Brecht on Theatre: The Development of an Aesthetic*, ed. and tr. John Willet (London: Methuen, 1992) pp. 68–76, 121–8.
- George Steiner, 'On Modern Tragedy', in *The Death of Tragedy* (London: Faber, 1995) pp. 303–24.

## CC-10: Popular Literature

Credits 06

### C10T: Popular Literature

#### Course Contents:

- Lewis Carroll: *Through the Looking Glass*
- Agatha Christie: *The Murder of Roger Ackroyd*
- Shyam Selvadurai: *Funny Boy*
- Sukumar Ray: *AbolTabol* (Translated by Sukanta Chowdhuri)/Autobiographical Notes on Ambedkar (For the Visually Challenged students)

### Suggested Topics and Background Prose Readings for Class Presentations

#### Topics

- Coming of Age
- The Canonical and the Popular
- Caste, Gender and Identity
- Ethics and Education in Children's Literature
- Sense and Nonsense
- The Graphic Novel

#### Suggested Readings:

- Chelva Kanaganayakam, 'Dancing in the Rarefied Air: Reading Contemporary Sri Lankan Literature' (*ARIEL*, Jan. 1998) rpt, Malashri Lal, Alamgir Hashmi, and Victor J. Ramraj, eds., *Post Independence Voices in South Asian Writings* (Delhi: Doaba Publications, 2001) pp. 51–6
- Sumathi Ramaswamy, 'Introduction', in *Beyond Appearances?: Visual Practices and Ideologies in Modern India* (Sage: Delhi, 2003) pp. xiii–xxix.
- Leslie Fiedler, 'Towards a Definition of Popular Literature', in *Super Culture: American Popular Culture and Europe*, ed. C.W.E. Bigsby (Ohio: Bowling Green University Press, 1975) pp. 29–38.
- Felicity Hughes, 'Children's Literature: Theory and Practice', *English Literary History*, vol. 45, 1978, pp. 542–61.

## CC-11: Postcolonial Literatures

Credits 06

## C11T: Postcolonial Literatures

### Course Contents:

#### Poetry:

- Pablo Neruda: 'Tonight I can Write' 'The Way Spain Was'
- Derek Walcott: 'A Far Cry from Africa' 'Names'
- Mamang Dai: 'Small Towns and the River' 'The Voice of the Mountain'

#### Novel:

- Chinua Achebe: *Things Fall Apart*

#### Stories:

- Bessie Head: 'The Collector of Treasures'
- Ama Ata Aidoo: 'The Girl who can'

## Suggested Topics and Background Prose Readings for Class Presentations

### Topics

- De-colonization, Globalization and Literature
- Literature and Identity Politics
- Writing for the New World Audience
- Region, Race, and Gender
- Postcolonial Literatures and Questions of Form

### Suggested Readings:

- Franz Fanon, 'The Negro and Language', in *Black Skin, White Masks*, tr. Charles Lam Markmann (London: Pluto Press, 2008) pp. 8–27.
- Ngũgĩ waThiong'o, 'The Language of African Literature', in *Decolonising the Mind* (London: James Curry, 1986) chap. 1, sections 4–6.
- Gabriel Garcia Marquez, the Nobel Prize Acceptance Speech, in *Gabriel Garcia Marquez: New Readings*, ed. Bernard McGuirk and Richard Cardwell (Cambridge: Cambridge University Press, 1987).

## CC-12: Women's Writing

Credits 06

## C12T: Women's Writing

### Course Contents:

#### Poetry:

- Emily Dickinson: 'I cannot live with you', 'I'm wife; I've finished that'
- Sylvia Plath: 'Daddy'
- Eunice De Souza: 'Advice to Women',

#### Fiction:

- Mahashweta Devi 'Draupadi', tr. Gayatri Chakravorty Spivak (Calcutta: Seagull, 2002)
- Toni Morrison: *Beloved*

### Non-Fiction:

- Baby Kamble: *Our Wretched Life*
- Rassundari Debi Excerpts from *Amar Jiban* in Susie Tharu and K. Lalita, eds., *Women's Writing in India*, vol. 1 (New Delhi: OUP, 1989) pp. 191–2.

### Suggested Topics and Background Prose Readings for Class Presentations

#### Topics

- The Confessional Mode in Women's Writing
- Sexual Politics
- Race, Caste and Gender
- Social Reform and Women's Rights

#### Suggested Readings:

- Virginia Woolf, *A Room of One's Own* (New York: Harcourt, 1957) chaps. 1 and 6.
- Simone de Beauvoir, 'Introduction', in *The Second Sex*, tr. Constance Borde and Shiela Malovany-Chevallier (London: Vintage, 2010) pp. 3–18.
- Kumkum Sangari and Sudesh Vaid, eds., 'Introduction', in *Recasting Women: Essays in Colonial History* (New Delhi: Kali for Women, 1989) pp. 1–25.
- Chandra Talapade Mohanty, 'Under Western Eyes: Feminist Scholarship and Colonial Discourses', in *Contemporary Postcolonial Theory: A Reader*, ed. Padmini Mongia (New York: Arnold, 1996) pp. 172–97.

### CC-13: Indian Classical Literature

Credits 06

### C13T: Indian Classical Literature

#### Course Contents:

- Kalidasa. *Abhijnana Shakuntalam*, tr. Chandra Rajan, in *Kalidasa: The Loom of Time* (New Delhi: Penguin, 1989).
- Vyasa. 'The Dicing' and 'The Sequel to Dicing', 'The Book of the Assembly Hall', 'The Temptation of Karna', Book V 'The Book of Effort', in *The Mahabharata*: tr. and ed. J.A.B. van Buitenen (Chicago: Brill, 1975) pp. 106–69.
- Sudraka. *Mrcchakatika*, tr. M.M. Ramachandra Kale (New Delhi: Motilal Banarasidass, 1962).

### Suggested Topics and Background Prose Readings for Class Presentations

#### Topics

- The Indian Epic Tradition: Themes and Recensions
- Classical Indian Drama: Theory and Practice
- Alankara and Rasa
- Dharma and the Heroic

#### Suggested Readings:



- Bharata, *Natyashastra*, tr. Manomohan Ghosh, vol. I, 2nd edn (Calcutta: Granthalaya, 1967) chap. 6: 'Sentiments', pp. 100–18.
- Iravati Karve, 'Draupadi', in *Yuganta: The End of an Epoch* (Hyderabad: Disha, 1991) pp. 79–105.
- J.A.B. Van Buitenen, 'Dharma and Moksa', in Roy W. Perrett, ed., *Indian Philosophy, vol. V, Theory of Value: A Collection of Readings* (New York: Garland, 2000) pp. 33–40.
- Vinay Dharwadkar, 'Orientalism and the Study of Indian Literature', in *Orientalism and the Postcolonial Predicament: Perspectives on South Asia*, ed. Carol A. Breckenridge and Peter van der Veer (New Delhi: OUP, 1994) pp. 158–95.

## CC-14: Indian Writing in English

Credits 06

### C14T: Indian Writing in English

#### Course Contents:

##### Poetry:

- R.K. Narayan: *Swami and Friends*
- H.L.V. Derozio: 'The Harp of India'
- Kamala Das: 'Introduction'
- Nissim Ezekiel: 'The Night of the Scorpion'

##### Fiction:

- Mulk Raj Anand: 'Two Lady Rams'
- Salman Rushdie: 'The Free Radio'

##### Drama:

- Girish Karnad: *Tughlaq*

#### Suggested Topics and Background Prose Readings for Class Presentations

##### Topics

- Indian English
- Indian English Literature and its Readership
- Themes and Contexts of the Indian English Novel
- The Aesthetics of Indian English Poetry
- Modernism in Indian English Literature

##### Suggested Readings:

- Raja Rao, Foreword to *Kanthapura* (New Delhi: OUP, 1989) pp. v–vi.
- Salman Rushdie, 'Commonwealth Literature does not exist', in *Imaginary Homelands* (London: Granta Books, 1991) pp. 61–70.
- Meenakshi Mukherjee, 'Divided by a Common Language', in *The Perishable Empire* (New Delhi: OUP, 2000) pp. 187–203.
- Bruce King, 'Introduction', in *Modern Indian Poetry in English* (New Delhi: OUP, 2nd edn, 2005) pp. 1–10.

### Discipline Specific Electives (DSE)



## DSE-1: Nineteenth Century European Realism

Credits 06

### DSE1T: Nineteenth Century European Realism

#### Course Contents:

- Fyodor Dostoyevsky: *Crime and Punishment*, tr. Jessie Coulson (London: Norton, 1989).
- Gustave Flaubert: *Madame Bovary*, tr. Geoffrey Wall (London: Penguin, 2002).

#### Suggested Topics and Background Prose Readings for Class Presentations

##### Topics

- History, Realism and the Novel Form
- Ethics and the Novel
- The Novel and its Readership in the 19th Century
- Politics and the Russian Novel: Slavophiles and Westernizers

##### Suggested Readings:

- Leo Tolstoy, 'Man as a creature of history in *War and Peace*', ed. Richard Ellmann et. al., *The Modern Tradition*, (Oxford: OUP, 1965) pp. 246–54.
- Honore de Balzac, 'Society as Historical Organism', from Preface to *The Human Comedy*, in *The Modern Tradition*, ed. Ellmann et. al (Oxford: OUP, 1965) pp. 265–67.
- Gustav Flaubert, 'Heroic honesty', Letter on *Madame Bovary*, in *The Modern Tradition*, ed. Richard Ellmann et. al. (Oxford: OUP, 1965) pp. 242–3.
- George Lukacs, 'Balzac and Stendhal', in *Studies in European Realism* (London, Merlin Press, 1972) pp. 65–85.

## DSE-2: World Literatures

Credits 06

### DSE2T: World Literatures

#### Course Contents:

- V.S. Naipaul: *Bend in the River* (London: Picador, 1979).
- Julio Cortazar: 'Blow-Up', in *Blow-Up and other Stories* (New York: Pantheon, 1985).
- Judith Wright: 'Bora Ring', in *Collected Poems* (Sydney: Angus & Robertson, 2002) p. 8.

#### Suggested Topics and Background Prose Readings for Class Presentations

##### Topics

- The Idea of World Literature
- Memory, Displacement and Diaspora
- Hybridity, Race and Culture
- Adult Reception of Children's Literature
- Literary Translation and the Circulation of Literary Texts
- Aesthetics and Politics in Poetry

**Suggested Readings:**

- Sarah Lawall, 'Preface' and 'Introduction', in *Reading World Literature: Theory, History, Practice*, ed. Sarah Lawall (Austin, Texas: University of Texas Press, 1994) pp. ix–xviii, 1–64.
- David Damrosch, *How to Read World Literature?* (Chichester: Wiley-Blackwell, 2009) pp. 1–64, 65–85.
- Franco Moretti, 'Conjectures on World Literature', *New Left Review*, vol.1 (2000), pp. 54–68.
- Theo D'haen et. al., eds., 'Introduction', in *World Literature: A Reader* (London: Routledge, 2012).

**DSE-3: Science Fiction and Detective Literature****Credits 06****DSE3T: Science Fiction and Detective Literature****Course Contents:**

- Wilkie Collins: *The Woman in White*
- Arthur Conan Doyle: *The Hound of the Baskervilles*

**Suggested Topics and Readings for Class Presentation Topics**

- Crime across the Media
- Constructions of Criminal Identity
- Cultural Stereotypes in Crime Fiction
- Crime Fiction and Cultural Nostalgia
- Crime Fiction and Ethics
- Crime and Censorship

**Suggested Readings:**

- J. Edmund Wilson, 'Who Cares Who Killed Roger Ackroyd?', *The New Yorker*, 20 June 1945.
- George Orwell, *Raffles and Miss Blandish*, available at: <[www.george-orwell.org/Raffles\\_and\\_Miss\\_Blandish/0.html](http://www.george-orwell.org/Raffles_and_Miss_Blandish/0.html)>
- W.H. Auden, *The Guilty Vicarage*, available at: <[harpers.org/archive/1948/05/the-guilty-vicarage/](http://harpers.org/archive/1948/05/the-guilty-vicarage/)>
- Raymond Chandler, 'The Simple Art of Murder', *Atlantic Monthly*, Dec. 1944, available at: <<http://www.en.utexas.edu/amlit/amlitprivate/scans/chandlerart.html>>

**OR****DSE-3: Literature and Cinema****Credits 06****DSE3T: Literature and Cinema****Course Contents:**

- William Shakespeare, *Romeo and Juliet*, and its adaptations: *Romeo & Juliet* (1968; dir. Franco Zeffirelli, Paramount); and *Romeo + Juliet* (1996; dir. Baz Luhrmann, 20th Century Fox).



- Bapsi Sidhwa, *Ice Candy Man* and its adaptation *Earth* (1998; dir. Deepa Mehta, Cracking the Earth Films Incorp.); and Amrita Pritam, *Pinjar: The Skeleton and Other Stories*, tr. Khushwant Singh (New Delhi: Tara Press, 2009) and its adaptation: *Pinjar* (2003; dir. C.P. Dwivedi, Lucky Star Entertainment).

## Suggested Topics and Background Prose Readings for Class Presentations

### Topics

- Theories of Adaptation
- Transformation and Transposition
- Hollywood and ‘Bollywood’
- The ‘Two Ways of Seeing’
- Adaptation as Interpretation

### Suggested Readings:

- Linda Hutcheon, ‘On the Art of Adaptation’, *Daedalus*, vol. 133, (2004).
- Thomas Leitch, ‘Adaptation Studies at Crossroads’, *Adaptation*, 2008, vol. 1, no. 1, pp. 63–77.
- Poonam Trivedi, ‘Filmi Shakespeare’, *Litfilm Quarterly*, vol. 35, issue 2, 2007.
- Tony Bennett and Janet Woollacott, ‘Figures of Bond’, in *Popular Fiction: Technology, Ideology, Production, Reading*, ed. Tony Bennet (London and New York: Routledge, 1990).

### Other films that may be used for class presentations:

- William Shakespeare: *Comedy of Errors*, *Macbeth*, and *Othello* and their adaptations: *Angeer* (dir. Gulzar, 1982), *Maqbool* (dir. Vishal Bhardwaj, 2003), *Omkara* (dir. Vishal Bhardwaj, 2006) respectively.
- Jane Austen: *Pride and Prejudice* and its adaptations: BBC TV mini-series (1995), Joe Wright (2005) and Gurinder Chadha’s *Bride and Prejudice* (2004).
- *Rudaali* (dir. Kalpana Lajmi, 1993) and *Gangor* or ‘Behind the Bodice’ (dir. Italo Spinelli, 2010).
- Ruskin Bond: *Junoon* (dir. Shyam Benegal, 1979), *The Blue Umbrella* (dir. Vishal Bhardwaj, 2005), and *Saat Khoon Maaf* (dir. Vishal Bhardwaj, 2011).
- E.M. Forster, *Passage to India* and its adaptation dir. David Lean (1984).

### Note:

- a) For every unit, 4 hours are for the written text and 8 hours for its cinematic adaptation (Total: 12 hours)
- b) To introduce students to the issues and practices of cinematic adaptations, teachers may use the following critical material:
  1. Deborah Cartmell and Imelda Whelehan, eds., *The Cambridge Companion to Literature on Screen* (Cambridge: Cambridge University Press, 2007).
  2. John M. Desmond and Peter Hawkes, *Adaptation: Studying Film and Literature* (New York: McGraw-Hill, 2005).
  3. Linda Hutcheon, *A Theory of Adaptation* (New York: Routledge, 2006).
  4. J.G. Boyum, *Double Exposure* (Calcutta: Seagull, 1989).
  5. B. Mcfarlens, *Novel to Film: An Introduction to the Theory of Adaptation* (Clarendon University Press, 1996).

## DSE - 4: Partition Literature

Credits 06

### DSE4T: Partition Literature

#### Course Contents:

- Amitav Ghosh: *The Shadow Lines*.
- Dibyendu Palit: 'Alam's Own House', tr. Sarika Chaudhuri, *Bengal Partition Stories: An Unclosed Chapter*, ed. Bashabi Fraser (London: Anthem Press, 2008) pp. 453–72.
- Manik Bandhopadhyaya, 'The Final Solution', tr. Rani Ray, *Mapmaking: Partition Stories from Two Bengals*, ed. Debjani Sengupta (New Delhi: Srishti, 2003) pp. 23–39.
- Sa'adat Hasan Manto, 'Toba Tek Singh', in *Black Margins: Manto*, tr. M. Asaduddin (New Delhi: Katha, 2003) pp. 212–20.
- Jibananda Das, 'I Shall Return to This Bengal', tr. Sukanta Chaudhuri, in *Modern Indian Literature* (New Delhi: OUP, 2004) pp. 8–13.

#### Suggested Topics and Readings for Class Presentation Topics

- Colonialism, Nationalism, and the Partition
- Communalism and Violence
- Homelessness and Exile
- Women in the Partition

#### Background Readings and Screenings

- Ritu Menon and Kamla Bhasin, 'Introduction', in *Borders and Boundaries* (New Delhi: Kali for Women, 1998).
- Sukrita P. Kumar, *Narrating Partition* (Delhi: Indialog, 2004).
- Urvashi Butalia, *The Other Side of Silence: Voices from the Partition of India* (Delhi: Kali for Women, 2000).
- Sigmund Freud, 'Mourning and Melancholia', in *The Complete Psychological Works of Sigmund Freud*, tr. James Strachey (London: Hogarth Press, 1953) pp. 3041–53.

#### Films

*Garam Hawa* (dir. M.S. Sathyu, 1974).

*Khamosh Paani: Silent Waters* (dir. Sabiha Sumar, 2003).

*Subarnarekha* (dir. Ritwik Ghatak, 1965)

Or

## DSE - 4: Travel Writing

Credits 06

### DSE4T: Travel Writing

#### Course Contents:

- Ibn Batuta: 'The Court of Muhammad bin Tughlaq', Khuswant Singh's *City Improbable: Writings on Delhi*, Penguin Publisher

- Mark Twain: *The Innocent Abroad* (Chapter VII , VIII and IX) (Wordsworth Classic Edition)
- William Dalrymple: *City of Djinns* (Prologue, Chapters I and II) Penguin Books
- Rahul Sankrityayan: *From Volga to Ganga* (Translation by Victor Kierman) (Section I to Section II) Pilgrims Publishing

### Suggested Topics and Background Prose Readings for Class Presentations

#### Topics:

- Travel Writing and Ethnography
- Gender and Travel
- Globalization and Travel
- Travel and Religion
- Orientalism and Travel

#### Suggested Readings:

- Susan Bassnett, 'Travel Writing and Gender', in *Cambridge Companion to Travel Writing*, ed. Peter Hulme and Tim Young (Cambridge: CUP,2002) pp, 225-241
- Tabish Khair, 'An Interview with William Dalrymple and Pankaj Mishra' in *Postcolonial Travel Writings: Critical Explorations*, ed. Justin D Edwards and Rune Graulund (New York: Palgrave Macmillan, 2011), 173-184
- Casey Balton, 'Narrating Self and Other: A Historical View', in *Travel Writing: The Self and The Other* (Routledge, 2012), pp.1-29
- Sachidananda Mohanty, 'Introduction: Beyond the Imperial Eyes' in *Travel Writing and Empire* (New Delhi: Katha, 2004) pp. ix –xx.

### *Skill Enhancement Courses (SEC)*

#### SEC-1: English Language Teaching

**Credits 02**

#### SEC-1: English Language Teaching

#### Course Contents:

- Knowing the Learner
- Structures of English Language
- Methods of Teaching English Language and Literature
- Materials for Language Teaching
- Assessing Language Skills
- Using Technology in Language Teaching

#### Suggested Readings:

- Penny Ur, *A Course in Language Teaching: Practice and Theory* (Cambridge: CUP, 1996).
- Marianne Celce-Murcia, Donna M. Brinton, and Marguerite Ann Snow, *Teaching English as a Second or Foreign Language* (Delhi: Cengage Learning, 4th edn, 2014).

- Adrian Doff, *Teach English: A Training Course For Teachers (Teacher's Workbook)* (Cambridge: CUP, 1988).
- *Business English* (New Delhi: Pearson, 2008).
- R.K. Bansal and J.B. Harrison, *Spoken English: A Manual of Speech and Phonetics* (New Delhi: Orient BlackSwan, 4th edn, 2013).
- Mohammad Aslam, *Teaching of English* (New Delhi: CUP, 2nd edn, 2009).

Or

**SEC-1: Soft Skills**

**Credits 02**

**SEC1T: Soft Skills**

**Course Contents:**

What is soft skill? Teamwork, Adaptability, Leadership, Problem solving

Development of Soft skills: Precis; Comprehension; Essays.

**Suggested Readings:**

- *English and Soft Skills*. S.P. Dhanavel. Orient BlackSwan
- *English for Students of Commerce: Precis, Composition, Essays, Poems* eds. Kaushik, et al.

Or

**SEC-1: Translation Studies**

**Credits 02**

**SEC1T: Translation Studies**

**Course Contents:**

1. Introducing Translation: a brief history and significance of translation in a multi linguistic and multicultural society like India.
2. Exercises in different Types / modes of translation, such as:
  - a) Semantic / Literal translation
  - b) Free / sense/ literary translation
  - c) Functional / communicative translation
3.
  - a) Introducing basic concepts and terms used in Translation Studies through relevant tasks, for example: Equivalence, Language variety, Dialect, Idiolect, Register, Style, Mode, Code mixing / Switching.
  - b) Translation in Practice.

**Resources for Practice:**

Dictionaries  
Encyclopedias  
Thesauri  
Glossaries  
Software of translation

### **Suggested Readings:**

- Baker, Mona, *In Other Words: A Coursebook on Translation*, Routledge, (Useful exercises for practical translation and training)
- ----- (Ed.) *Routledge Encyclopedia of Translation Studies*. London and New York: Routledge, 2001. (Readable entries on concepts and terms) Sherry Simon, *Gender in translation: Cultural Identity and the Politics of Transmission*. New York: Routledge,
- Catford, I.C. *A Linguistic Theory of Translation*. London: OUP, 1965. Frishberg, Nancy J. *Interpreting: An Introduction*. Registry of Interpreters,.
- Gargesh, Ravinder and Krishna Kumar Goswami. (Eds.). *Translation and Interpreting: Reader and Workbook*. New Delhi: Orient Longman,.
- House, Juliana. *A Model for Translation Quality Assessment*. Tubingen: Gunter Narr,
- Lakshmi, H. *Problems of Translation*. Hyderabad: Booklings Corporation,.
- Newmark, Peter. *A Textbook of Translation*. London: Prentice Hall,
- Nida, E.A. and C.R. Taber. *The Theory and Practice of Translation*. Leiden: E.J. Brill,
- Toury, Gideon. *Translation Across Cultures*. New Delhi : Bahri Publications Private Limited,

### **SEC-2: Creative Writing**

**Credits 02**

#### **SEC2T: Creative Writing**

#### **Course Contents:**

##### **Unit 1:**

What is Creative Writing?

##### **Unit 2:**

The Art and Craft of Writing

##### **Unit 3:**

Modes of creative Writing

##### **Unit 4:**

Writing for the Media

##### **Unit 5:**

Preparing for Publication

#### **Suggested Readings:**

- Creative writing: A Beginner's Manual by Anjana Neira Dev and Others, Published by Pearson, Delhi.

**Or**

### **SEC-2: Business Communication**

**Credits 02**

#### **SEC2T: Business Communication**

#### **Course Contents:**





- Introduction to the essentials of Business Communication: Theory and practice
- Writing a project report
- Writing reports on field work/visits to industries, business concerns etc. /business negotiations.
- Summarizing annual report of companies
- E-correspondence
- Spoken English for business communication (Viva for internal assessment)

#### **Suggested Readings:**

- Scot, O.; Contemporary *Business Communication*. Biztantra, New Delhi.
- Lesikar, R.V. & Flatley, M.E.; *Basic Business Communication Skills for Empowering the Internet Generation*, Tata McGraw Hill Publishing Company Ltd. New Delhi.
- Ludlow, R. & Panton, F.; *The Essence of Effective Communications*, Prentice Hall of India Pvt. Ltd., New Delhi.
- R. C. Bhatia, *Business Communication*, Ane Books Pvt Ltd, New Delhi

**Or**

**SEC-2: Technical Writing**

**Credits 02**

**SEC2T: Technical Writing**

#### **Course Contents:**

1. Communication: Language and communication, distinct features of writing.
2. Writing Skills; Selection of topic, thesis statement, developing the thesis introductory, developmental, transitional and concluding paragraphs, linguistic unity, coherence and cohesion, descriptive, narrative, expository and argumentative writing.
3. Technical Writing: Scientific and technical subjects; formal and informal writings; formal writings/reports, handbooks, manuals, letters, memorandum, notices, agenda, minutes; common errors to be avoided.

#### **Suggested Readings:**

- M. Frank. Writing as thinking: *A guided process approach*, Englewood Cliffs, Prentice Hall Regents.
- L. Hamp-Lyons and B. Heasley: *Study Writing; A course in written English*. For academic and professional purposes, Cambridge Univ. Press.
- R. Quirk, S. Greenbaum, G. Leech and J. Svartik: *A comprehensive grammar of the English language*, Longman, London.
- Daniel G. Riordan & Steven A. Panley: *“Technical Report Writing Today”* - Biztantra.
- Daniel G. Riordan, Steven E. Pauley, Biztantra: *Technical Report Writing Today*, 8th Edition

**Generic Elective (GE)**  
**[Interdisciplinary for other department]**

## GE- 1: Academic Writing and Composition

Credits 06

### GE1T: Academic Writing and Composition

#### Course Contents:

- Introduction to the Writing Process
- Introduction to the Conventions of Academic Writing
- Writing in one's own words: Summarizing and Paraphrasing
- Critical Thinking: Syntheses, Analyses, and Evaluation
- Structuring an Argument: Introduction, Interjection, and Conclusion
- Citing Resources; Editing, Book and Media Review

#### Suggested Readings:

- Liz Hamp-Lyons and Ben Heasley, *Study writing: A Course in Writing Skills for Academic Purposes* (Cambridge: CUP, 2006).
- Renu Gupta, *A Course in Academic Writing* (New Delhi: Orient BlackSwan, 2010).
- Ilona Leki, *Academic Writing: Exploring Processes and Strategies* (New York: CUP, 2nd edn, 1998).
- Gerald Graff and Cathy Birkenstein, *They Say/I Say: The Moves That Matter in Academic Writing* (New York: Norton, 2009).

## GE- 2: Media and Communication Skills

Credits 06

### GE2T: Media and Communication Skills

#### Course Contents:

#### 1. Introduction to Mass Communication

1. Mass Communication and Globalization
2. Forms of Mass Communication

Topics for Student Presentations:

- a. Case studies on current issues Indian journalism
- b. Performing street plays
- c. Writing pamphlets and posters, etc.

#### 2. Advertisement

1. Types of advertisements
2. Advertising ethics
3. How to create advertisements/storyboards

Topics for Student Presentations:

- a. Creating an advertisement/visualization
- b. Enacting an advertisement in a group
- c. Creating jingles and taglines

#### 3. Media Writing

1. Scriptwriting for TV and Radio
2. Writing News Reports and Editorials
3. Editing for Print and Online Media

Topics for Student Presentations:

- a. Script writing for a TV news/panel discussion/radio programme / hosting radio programmes on community radio
- b. Writing news reports/book reviews/film reviews/TV program reviews/interviews
- c. Editing articles
- d. Writing an editorial on a topical subject

#### **4. Introduction to Cyber Media and Social Media**

1. Types of Social Media
2. The Impact of Social Media
3. Introduction to Cyber Media

**Or**

**GE-2: Text and Performance**

**Credits 06**

**GE2T: Text and Performance**

#### **Course Contents:**

##### **1. Introduction**

1. Introduction to theories of Performance
2. Historical overview of Western and Indian theatre
3. Forms and Periods: Classical, Contemporary, Stylized, Naturalist

Topics for Student Presentations:

- a. Perspectives on theatre and performance
- b. Historical development of theatrical forms
- c. Folk traditions

##### **2. Theatrical Forms and Practices**

1. Types of theatre, semiotics of performative spaces, e.g. proscenium 'in the round', amphitheatre, open-air, etc.
2. Voice, speech: body movement, gestures and techniques (traditional and contemporary), floor exercises: improvisation/characterization

Topics for Student Presentations:

- a. On the different types of performative space in practice
- b. Poetry reading, elocution, expressive gestures, and choreographed movement

##### **3. Theories of Drama**

1. Theories and demonstrations of acting: Stanislavsky, Brecht
2. Bharata

Topics for Student Presentations:

- a. Acting short solo/ group performances followed by discussion and analysis with application of theoretical perspectives

##### **4. Theatrical Production**

1. Direction, production, stage props, costume, lighting, backstage support.
2. Recording/archiving performance/case study of production/performance/impact of media on performance processes.

Topics for Student Presentations:

- a. All aspects of production and performance; recording, archiving, interviewing performers and data collection.

**GE- 3: Language and Linguistics**

**Credits 06**

**GE3T: Language and Linguistics**

**Course Contents:**

1. Language: language and communication; language varieties: standard and non-standard language; language change.  
Mesthrie, Rajend and Rakesh M Bhatt. 2008. *World Englishes: The study of new linguistic varieties*. Cambridge: Cambridge University Press.
2. Phonology and Morphology: Akmajian, A., R. A. Demers and R, M. Harnish, *Linguistics: An Introduction to Language and Communication*, 2nd ed.  
Fromkin, V., and R. Rodman, *An Introduction to Language*, 2nd ed. (New Yourk: Holt, Rinehart and Winston, 1974) Chapters 3, 6 and 7
3. Syntax : categories and constituents phrase structure; maxims of conversation.  
Akmajian, A., R. A. Demers and R, M Harnish, *Linguistics: An Introduction to Language and Communication*, 2nd ed. (Cambridge, Mass.: MIT Press, 1984; Indian edition, Prentice Hall, 1991) Chapter 5 and 6.

**Or**

**GE- 3: Contemporary India: Women and Empowerment**

**Credits 06**

**GE3T: Contemporary India: Women and Empowerment**

**Course Contents:**

1. Social Construction of Gender (Masculinity and Feminity) Patriarchy in Indian History.
2. Women and Law  
Women and the Indian Constitution  
Personal Laws(Customary practices on inheritance and Marriage) (Supplemented by workshop on legal awareness)
3. Women and Environment  
State interventions, Domestic violence, Female foeticide, sexual harassment  
Female Voices: *Sultana's Dream* or Bama : Karuk ku

**GE- 4: Gender & Human Rights**

**Credits 06**

**GE4T: Gender & Human Rights**

**Course Contents:**

1. Poetry: Meena Kandasamy “Aggression” Tamsula Ao “Laburnum for My Head”
2. Drama: Manjula Padmanabhan *Lights Out*
3. Essay: Virginia Woolf “Professions for Women”, *Women's Rights are Human Rights*. Section V “The Human Rights Framework in Practice”

Or

**GE - 4: Environment & Literature**

**Credits 06**

**GE4T: Environment & Literature**

**Course Contents:**

Introduction (Nature in Oriental & Western Thought, Deep Ecology, Third World Environmentalism)

1. G M Hopkins. 'Binsey Poplars'
2. Mahasweta Devi. 'Pterodactyl'
3. Ruskin Bond. 'Dust on the Mountains'.

**Suggested Readings:**

- Vasudha Narayanan 'Water, Wood, and Wisdom: Ecological Perspectives from the Hindu Traditions'
- Allen Carlson. *Environmental Aesthetics*
- Preeti Ranjan Ghosh. "Towards an Understanding of Environmental Aesthetics: Some Reflections", *The Philosophical Quarterly*, 1998
- Beth Fowkes Tobin. *Colonizing Nature*
- Vasudha Narayanan. *Water, Wood and Wisdom*
- Vandana Shiva. *Women in Nature*

# VIDYASAGAR UNIVERSITY



**Curriculum for 3-Year B.A. (General)  
in**

**ENGLISH**

**Under Choice Based Credit System (CBCS)  
w.e.f 2018-2019**

**VIDYASAGAR UNIVERSITY**  
**BA (General) in English**  
**[Choice Based Credit System]**

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
1	I			<b>SEMESTER-I</b>					
		Core-1 (DSC-1A)		Poetry & Short Story	6	5-1-0	15	60	75
		Core-2 (DSC-2A)		Other Discipline(Discipline-2)/TBD	6		15	60	75
		AECC-1 (Core)[Language Core]		English-I	6	5-1-0	15	60	75
		AECC-1 (Elective)		English/MIL	2	1-1-0	10	40	50
				<b>Semester - I : Total</b>	20				275
					<b>SEMESTER-II</b>				
	II	Core-3 (DSC-1B)		Essay, Drama & Novel	6	5-1-0	15	60	75
		Core-4 (DSC-2B)		Other Discipline(Discipline-2)/TBD	6		15	60	75
		AECC-2 (Core)[Language Core]		MIL-I	6	5-1-0	15	60	75
		AECC-2 (Elective)		Environmental Studies	4		20	80	100
				<b>Semester - 2 : Total</b>	22				325

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
2	III			<b>SEMESTER-III</b>			<b>CA</b>	<b>ESE</b>	<b>TOTAL</b>
		Core-5 (DSC-1C)		Contemporary India: Women and Empowerment	6	5-1-0	15	60	75
		Core-6 (DSC-2C)		Other Discipline ( Discipline-2)/TBD	6		15	60	75
		AECC-3 (Core)[Language Core]		English-II	6	5-1-0	15	60	75
		SEC-1		SEC-1: Soft Skills Or Film Studies	2	1-1-0	10	40	50
				<b>Semester - 3 : Total</b>	20				275
					<b>SEMESTER-IV</b>				
	IV	Core-7 (DSC-1D)		Academic Writing and Composition	6	5-1-0	15	60	75
		Core-8 (DSC-2D)		Other Discipline ( Discipline-2) /TBD	6		15	60	75
		AECC-4 (Core)[Language Core]		MIL-II	6	5-1-0	15	60	75
		SEC-2		SEC-2: Creative Writing Or Technical Writing	2	1-1-0	10	40	50
				<b>Semester - 4 : Total</b>	20				275



Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
3	V			<b>SEMESTER-V</b>			<b>CA</b>	<b>ESE</b>	<b>TOTAL</b>
		DSE-1A		Any one from Discipline -1(English)	6	5-1-0	15	60	75
		DSE-2A		Other Discipline(any one from Discipline -2) / TBD	6		15	60	75
		GE-1		TBD	6		15	60	75
		SEC-3		<b>SEC-3:</b> Translation Studies Or English Language Teaching	2	1-1-0	10	40	50
					<b>Semester - 5 : Total</b>	20			
					<b>SEMESTER-VI</b>				
	VI	DSE-1B		Any one from Discipline -1(English)	6	5-1-0	15	60	75
		DSE-2B		Other Discipline (any one from Discipline -2) / TBD	6		15	60	75
		GE-2		TBD	6		15	60	75
		SEC-4		<b>SEC-4:</b> Business Communications Or Spoken English	2	1-1-0	10	40	50
					<b>Semester - 6 : Total</b>	20			
					<b>Total in all semester:</b>	<b>122</b>			

**CC** = Core Course , **AECC** = Ability Enhancement Compulsory Course , **GE** = Generic Elective , **SEC** = Skill Enhancement Course , **DSE** = Discipline Specific Elective , **CA**= Continuous Assessment , **ESE**= End Semester Examination , **TBD**=To be decided , **CT** = Core Theory, **CP**=Core Practical , **L** = Lecture, **T** = Tutorial , **P** = Practical , **MIL** = Modern Indian Language , **ENVS** = Environmental Studies ,

## List of Core Courses and Electives

### Core Course (CC)

- DSC-1A: Poetry & Short story  
DSC-1B: Essay, Drama & Novel  
DSC-1C: Contemporary India: women and empowerment  
DSC-1D: Academic Writing and Composition

### Discipline Specific Electives (DSE)

- DSE-1: British Literature  
Or  
DSE-1: Indian Literature in Translation  
DSE-2: Partition Literature  
Or  
DSE-2: Nation, Culture and India

### Skill Enhancement Course (SEC)

- SEC-1: **Soft Skills**  
Or  
SEC-1: Film Studies  
SEC-2: Creative Writing  
Or  
SEC-2: Technical Writing  
SEC-3: Translation Studies  
Or  
SEC-3: English Language Teaching  
SEC-4: Business Communications  
Or  
SEC-4: Spoken English

### Generic Electives (GE)

#### [Interdisciplinary for other department]

- GE-1: **Gender & Human Rights**  
Or  
GE-1: Contemporary India: Women and Empowerment  
Or  
GE-1: Academic Writing and Composition  
GE-2: Environment & Literature  
Or  
GE-2: Novel and Prose  
Or  
GE-2: Language and Linguistics

### AECC(Core)[Language Core]-English

#### English (AECC-Core L1 &L2)

- CL-1(English): British Poetry -1  
Or  
CL-1(English): Language, Variety and Stylistics  
CL-2(English): British Poetry - 2  
Or  
CL-2(English): Language, Imagination & Creativity

Core Courses (CC)

**DSC-1A (CC-1): Poetry & Short story**

**Credits 06**

**DSC1AT: Poetry & short Story**

**Course Contents:**

1. a) William Shakespeare: Sonnet 116  
b) William Wordsworth: “A Slumber did my Spirit Seal”
2. a) John Keats – “Bright Star”  
b) Wilfred Owen – “Strange Meeting”
3. Charles Lamb – “Dream Children”
4. H. E. Bates – “The Ox”

**DSC-1B(CC-2): Essay, Drama & Novel**

**Credits 06**

**DSC1BT: Essay, Drama & Novel**

**Course Contents:**

1. George Orwell – “Shooting an Elephant”
2. R. K. Narayan – “A Library without Books”
3. George Bernard Shaw – *Arms and the Man*
4. J. B. Priestley – *An Inspector Calls*
5. Ernest Hemingway – *The Old Man and the Sea*

**DSC-1C (CC-3): Contemporary India: women and empowerment**

**Credits 06**

**DSC1CT: Contemporary India: women and empowerment**

**Course Contents:**

**1. Social Construction of Gender:**

1. Masculinity, Femininity
2. Patriarchy
3. Sex & Gender
4. Gender Socialization
5. Gender discrimination
6. Gender stereotyping

**Texts: (any one)**

Nivedita Menon : *Sexualities: Issues in Contemporary Indian Feminisms* (selections)

Nivedita Menon : *Gender and Politics in India* (Selections)

**2. History of Women's Movements in India (Pre- and Post-Independence):**

1. Women and Nationalism
2. Women and Partition
3. Women and Political Participation

**Text: (any two)**

1. “Letters to a Wife: Satyendranath Tagore’s Letters to Jynadanandini Tagore” from *Epistolary Cultures in 19<sup>th</sup> century Bengal*, Stree Samya, Kolkata,

2. Gholam Murshed “Chapter Four” from *The Reluctant Debutante*.
3. Urvashi Butalia ‘Beginnings’ from *The Other Side of Silence*
4. Jashodhara Bagchi and Shubharanjan Dasgupta. *The Trauma and The Triumph: Gender and Partition in Eastern India, Vol I (“Introduction”)*

### 3. Women and Law:

1. Women and the Indian Constitution
2. Personal Laws
3. Customary practices on inheritance and Marriage

#### Text: (Selections from any one text)

1. Flavia Agnes. Ed. *Women and Law in India: An Omnibus* Comprising
2. Flavia Agnes. *Enslaved Daughters* (selections).
3. Sudhir Chandra. *Hindu Women and Marriage Law*
4. Monomoyee Basu. *Law and Gender Inequality*.

### 4. Women and Violence:

1. State interventions
2. Domestic violence
3. Female foeticide
4. Sexual harassment

#### Texts: (any one)

1. Rokeya Sakhawat Hussain – *Sultana’s Dream*
2. Bama Faustina Soosairaj – *Karukku*

#### Suggested Readings:

- David Glover. *Gender*. New York: Routledge New Critical Idiom Series.
- *The Social Construction of Gender* (A Gender & Society Reader) by Judith Lorber (Editor), Susan A. Farrell (Editor)
- Veena Oldenburg. *Dowry Murders: The Imperial Origins of a Cultural Crime*
- Attia Hussein. *Translating Partition*. New Delhi: Katha
- Brinda Bose. *Translating Desire*. New Delhi: Katha
- Radha Kumar. *The History of Doing: The Women's Movement in India*
- Kalpana Kannabiran. *Women and Law Critical Feminist Perspectives*
- Carolyn Merchant. *Earthcare: Women and the Environment*.

### DSC-1D (CC- 4): Academic Writing and Composition

Credits 06

#### DSC1DT: Academic Writing and Composition

#### Course Contents:

1. Introduction to the Writing Process: Conventions of Academic Writing, Writing in one’s own words – Summarizing and Paraphrasing
2. Critical Thinking: Syntheses, Analyses, and Evaluation
3. Structuring an Argument: Introduction, Interjection, and Conclusion
4. Citing Resources, Editing, Book and Media Review



### **Suggested Readings:**

- Liz Hamp-Lyons and Ben Heasley, *Study writing: A Course in Writing Skills for Academic Purposes* (Cambridge: CUP, 2006).
- Renu Gupta, *A Course in Academic Writing* (New Delhi: Orient BlackSwan, 2010).
- IlonaLeki, *Academic Writing: Exploring Processes and Strategies* (New York: CUP, 2<sup>nd</sup> edn, 1998).
- Gerald Graff and Cathy Birkenstein, *They Say/I Say: The Moves That Matter in Academic Writing* (New York: Norton, 2009).
- John M. Swales. *Academic Writing for Graduate Students*

### **DISIPLINE SPECIFIC ELECTIVE (DSE)**

#### **DSE -1: British Literature**

**Credits 06**

#### **DSE1T: British Literature**

##### **Course Contents:**

1. William Shakespeare – *As you Like It*
2. Thomas Hardy- *Ah, Are Digging on My Grave?*
3. Robert Lynd- *On Not Being a Philosopher*

**Or**

#### **DSE- 1: Indian Literature in Translation**

**Credits 06**

#### **DSE1T: Indian Literature in Translation**

##### **Course Contents:**

1. Rabindranath Tagore – *The Wife’s Letter* (Translation of *Steer Patra*)
2. Vijay Tendulkar – *Silence: The Court is in Session* (Translation of *Shantata: Court ChaluAhe*)
3. Mahasweta Devi- ‘Draupadi’

#### **DSE-2 : Partition Literature**

**Credits 06**

#### **DSE2T: Partition Literature**

##### **Course Contents:**

1. Sa’adat Hasan Manto, ‘Toba Tek Singh’, in *Black Margins: Manto*, tr. M. Asaduddin (New Delhi: Katha, 2003) pp. 212–20.
2. Jibananda Das, ‘I Shall Return to This Bengal’, tr. SukantaChaudhuri, in *Modern Indian Literature* (New Delhi: OUP, 2004) pp. 8–13.

**Or**

#### **DSE-2 : Nation, Culture and India**

**Credits 06**

#### **DSE2T: Nation, Culture and India**



**Course Contents:**

1. Amartya Sen – “Secularism and its Discontents” (from *The Argumentative Indian*) 10
2. Rabindranath Tagore – “Nationalism and India” (from *Nationalism*) 15

**SKILL ENHANCEMENT COURSE (SEC)**

**SEC-1: Soft Skills****Credits 02****Course Contents:**

1. Teamwork
2. Emotional Intelligence
3. Adaptability
4. Leadership
5. Problem solving

**Suggested Readings**

- *English and Soft Skills*. S.P. Dhanavel. Orient BlackSwan
- *English for Students of Commerce: Precise, Composition, Essays, Poems* eds. Kaushik, et al.

**Or**

**SEC-1: Film Studies****Credits 02****Course Contents:**

1. Evolution of the Cinema: Silent Film, Talkie, Colour Film, Digital Age, 3D Films.
2. Response and Review: (Illustrative film shows & appreciation programme to be arranged)

**Suggested Readings:**

- James Monaco. *How To Read a Film*. New York: OUP, 2009.
- Andrew Dix. *Beginning Film Studies*. Manchester university Press, 2008.
- Satyajit Ray. *Our Films, Their Films*. Orient Blackswan, 2001.
- Satyajit Ray. *Deep Focus: Reflection on Indian Cinema*. Ed. Sandip Ray. Harper Collins India. 2011.

**SEC-2: Creative Writing****Credits 02****Course Contents:****Unit 1.**

What is Creative Writing?

**Unit 2.**

The Art and Craft of Writing

**Unit 3.**

Modes of creative Writing

#### Unit 4.

##### Writing for the Media

##### Suggested Readings:

- Anjana Neira Dev and Others, *Creative writing: A Beginner's Manual* (Delhi: Pearson, 2009).
- Mary Lee Marksberry. *Foundation of Creativity* (New York : Harper and Row, 1963)

Or

#### SEC-2: Technical Writing

Credits 02

##### Course Contents:

1. Communication: Language and communication, differences between speech and writing, distinct features of speech, distinct features of writing.
2. Writing Skills: Selection of topic, developmental, transitional and concluding paragraphs, descriptive, narrative, expository and argumentative writing.
3. Technical Writing: Formal and informal writings, formal writings/reports, letters, memorandum, notices, agenda, minutes, common errors to be avoided.

##### Suggested Readings

- M. Frank. *Writing as thinking: A guided process approach*, Englewood Cliffs, Prentice Hall Regents.
- L. Hamp-Lyons and B. Heasley. *Study Writing: A course in written English*. For academic and professional purposes, Cambridge Univ. Press.
- R. Quirk, S. Greenbaum, G. Leech and J. Svartik. *A comprehensive grammar of the English language*, Longman, London.
- Daniel G. Riordan & Steven A. Panley. *Technical Report Writing Today* Biztantra. Additional Reference Books
- Daniel G. Riordan, Steven E. Pauley, *Biztantra: Technical Report Writing Today*, 8th Edition (2004).

#### SEC-3: Translation Studies

Credits 02

##### Course Contents:

1. Introducing Translation: A brief history and significance of translation in a multi lingual and multicultural society like India
2. Exercises in different Types/modes of translation: a. Semantic/Literal b. free sense/literary c. Functional/communicative d. Transcreation.
3. Introducing basic concepts and terms used in Translation Studies through relevant tasks: Equivalence, Language variety, Dialect, Idiolect, Register, Style, Mode, and Code mixing/Switching. b. Defining the process of translation (analysis, transference, restructuring) through critical examination of standard translated literary/non-literary texts.

##### Suggested Readings:

- Baker, Mona, *In Other Words: A Coursebook on Translation*, Routledge, 2001.

- *Routledge Encyclopedia of Translation Studies*. London and New York: Routledge, 2001.
- 3 Sherry Simon, *Gender in translation: Cultural Identity and the Politics of Transmission*. New York: Routledge, 1996.
- Catford, I. C. *A Linguistic Theory of Translation*. London: OUP, 1965.
- Frishberg, Nancy J. *Interpreting: An Introduction. Registry of Interpreters*, 1990.
- Gargesh, Ravinder and Krishna Kumar Goswami. (Eds.). *Translation and Interpreting: Reader and Workbook*. New Delhi: Orient Longman, 2007.
- House, Juliana. *A Model for Translation Quality Assessment*. Tübingen: Gunter Narr, 1977.
- Lakshmi, H. *Problems of Translation*. Hyderabad: Booklings Corporation, 1993.

**Or**

**SEC-3: English Language Teaching**

**Credits 02**

**Course Contents:**

1. Knowing the Learner

Or

1. Structures of the English Language

2. Methods of teaching English Language

3. Assessing Language Skills

4. Materials for Language Teaching

Or

4. Using Technology in Language Teaching

**Suggested Readings:**

- Penny Ur, *A Course in Language Teaching: Practice and Theory* (Cambridge: CUP, 1996).
- Marianne Celce-Murcia, Donna M. Brinton, and Marguerite Ann Snow, *Teaching English as a Second or Foreign Language* (Delhi: Cengage Learning, 4th edn, 2014).
- Adrian Doff, *Teach English: A Training Course For Teachers (Teacher's Workbook)* (Cambridge: CUP, 1988).
- *Business English* (New Delhi: Pearson, 2008).
- R. K. Bansal and J. B. Harrison, *Spoken English: A Manual of Speech and Phonetics* (New Delhi: Orient BlackSwan, 4th edn, 2013).
- Mohammad Aslam, *Teaching of English* (New Delhi: CUP, 2nd edn, 2009)

**SEC-4: Business Communications**

**Credits 02**

**Course Contents:**

1. Introduction to the Essentials of Business Communication: Theory and Practice
2. Writing a project report
3. Citing References, using bibliographical and research tools
4. Writing minutes of meetings
5. E-Correspondence
6. Making oral presentations (Viva for internal assessment)
7. Spoken English for Business Communication (Viva for internal assessment)



**Suggested Readings:**

- Scot, O. Contemporary Business Communication. Biztantra, New Delhi.
- Lesikar, R. V. & Flatley, M. E. Basic Business Communication Skills for Empowering the Internet Generation, Tata McGraw Hill Publishing Company Ltd. New Delhi.

**Or**

**SEC-4: Spoken English****Credits 02****Course Contents:**

1. Differences between speech and writing – distinct features of Oral Communication; Essentials of Good Communication- Barriers
2. Listening: Weak Forms, Stress, Intonation, Voice Modulation, Telephonic Conversation, Rules of Interruption in Civilized discourse
3. Speech & Situation/ Context:
  - a. Greeting & Leave Taking
  - b. Making & Granting/Refusing Requests
  - c. Queries & Giving Information/Direction
  - d. Describing objects/process
  - e. Narrating events & Commentary
  - f. Persuasion & Motivation
  - g. Complaints & Apologies
  - h. Expressing disapproval
  - i. Alerting & Warning
4. Presentation Skills: Interview, Debate, GD, Anchoring, Public Address, Broadcasting (Intensive learner-centric pedagogic mode and use of Language Lab are desirable for making the course successful. Having explained the preliminaries of each course-content, teachers may put group of learners in a particular situation of conversation and monitor their conversation/ use of language as facilitators.)

**Suggested Readings:**

- W.S. Allen. Lining English speech. Orient Longman, London, 1968.
- R.K Bansal and J.B Harrison. Spoken English for India. Orient Longman, Madras, 1972.
- Leena Sen. Communication Skills. Prentice Hall of India, New Delhi.

**Generic Elective (GE)**

**[Interdisciplinary for other department]**

**GE-1: Gender & Human Rights****Credits 06****GE1T: Gender & Human Rights****Course Contents:**

1. Poetry: Meena Kandasamy “Aggression” Tamsula Ao “Laburnum for My Head”
2. Drama: Manjula Padmanabhan *Lights Out*
3. Essay: Virginia Woolf “Professions for Women”, *Women’s Rights are Human Rights*. Section V “The Human Rights Framework in Practice”

Or

**GE-1: Contemporary India: Women and Empowerment**

**Credits 06**

**GE1T: Contemporary India: Women and Empowerment**

**Course Contents:**

1. Social Construction of Gender (Masculinity and Femininity) Patriarchy
2. History of Women's Movements in India (Pre-independence, post independence)  
Women, Nationalism, Partition  
Women and Political Participation
3. Women and Law  
Women and the Indian Constitution  
Personal Laws (Customary practices on inheritance and Marriage)  
(Supplemented by workshop on legal awareness)
4. Women and Environment  
State interventions, Domestic violence, Female foeticide, sexual harassment  
Female Voices: *Sultana's Dream*  
Dalit Discourse:

Or

**GE-1 : Academic Writing and Composition**

**Credits 06**

**GE1T : Academic Writing and Composition**

**Course Contents:**

1. Introduction to the Writing Process
2. Introduction to the Conventions of Academic Writing
3. Writing in one's own words: Summarizing and Paraphrasing
4. Critical Thinking: Syntheses, Analyses, and Evaluation
5. Structuring an Argument: Introduction, Interjection, and Conclusion
6. Citing Resources; Editing, Book and Media Review

**Suggested Readings**

- Liz Hamp-Lyons and Ben Heasley, *Study writing: A Course in Writing Skills for Academic Purposes* (Cambridge: CUP, 2006).
- Renu Gupta, *A Course in Academic Writing* (New Delhi: Orient BlackSwan, 2010).
- Ilona Leki, *Academic Writing: Exploring Processes and Strategies* (New York: CUP, 2nd edn, 1998).
- Gerald Graff and Cathy Birkenstein, *They Say/I Say: The Moves That Matter in Academic Writing* (New York: Norton, 2009).

**GE-2: Environment & Literature**

**Credits 06**

**GE2T: Environment & Literature**

**Course Contents:**

Introduction (Nature in Oriental & Western Thought, Deep Ecology, Third World Environmentalism)

1. Gordon J. L. Ramel. 'Daffodils No More'
2. Mahasweta Devi. 'Pterodactyl'
3. Ruskin Bond. 'Dust on the Mountains',

**Suggested Readings:**

- Vasudha Narayanan 'Water, Wood, and Wisdom: Ecological Perspectives from the Hindu Traditions'
- Allen Carlson. *Environmental Aesthetics*
- Preeti Ranjan Ghosh. "Towards an Understanding of Environmental Aesthetics: Some Reflections", *The Philosophical Quarterly*, 1998
- Beth Fowkes Tobin. *Colonizing Nature*
- Vasudha Narayanan. *Water, Wood and Wisdom*
- Vandana Shiva. *Women in Nature*

**Or**

**GE-2: Novel and Prose**

**Credits 06**

**GE2T: Novel and Prose**

**Course Contents:**

1. Charles Dickens: Oliver Twist
2. R.K.Narayan: A Library without Books
3. Guy de Maupassant: My Uncle Jules

**Or**

**GE-2: Language and Linguistics**

**Credits 06**

**GE2T: Language and Linguistics**

**Course Contents:**

1. Language: language and communication; language varieties: standard and non-standard language; language change.
2. Phonetics: Overview of Articulatory Phonetics. The Consonants of English. The Vowel Sounds of English
3. Phonology and Phonetic Transcription: The Phonology of English. Transcription of Consonants. Transcription of Vowels
4. Syntax and semantics: categories and constituents of phrase structure; (Noun Phrase & Verbal).

**Suggested Reading:**

- Roach Peter, *Phonetics* (New Delhi: Oxford University Press, 2001).
- Balasubramanian, T., *Textbook of English Phonetics for Indian Students* (New Delhi: Laxmi Publications, 2009).
- Mesthrie, Rajend and Rakesh M Bhatt. 2008. *World Englishes: The study of new linguistic varieties*. Cambridge: Cambridge University Press.
- De Saussure, Ferdinand. 1966. *Course in general linguistics*. New York: McGraw Hill Introduction: Chapter 3

- Akmajian, A., R. A. Demers and R. M. Harnish, *Linguistics: An Introduction to Language and Communication*, 2nd ed.
- Fromkin, V., and R. Rodman, *An Introduction to Language*, 2nd ed. (New York: Holt, Rinehart and Winston, 1974) Chapters 3, 6 and 7
- Akmajian, A., R. A. Demers and R. M. Harnish, *Linguistics: An Introduction to Language and Communication*, 2nd ed. (Cambridge, Mass.: MIT Press, 1984; Indian edition, Prentice Hall, 1991) Chapter 5 and 6.

**AECC-CORE ( AECC-Core)**  
**[Language-Core]**

**[AECC- Core] English -1**

**CL-1(English): British Poetry -1**

**Credits 06**

1. Shakespeare : Shall I Compare Thee to a Summer's Day,  
John Donne – Batter my Heart  
Milton : On His Blindness  
Pope: Ode on Solitude
2. William Blake: A Poison Tree  
Wordsworth : To the Skylark  
Shelley : To a Skylark  
Keats : Ode to Autumn
3. Rhetoric and Prosody

**Suggested Readings:**

- Jaydip Sarkar & Anindya Bhattacharya, *A Handbook of Rhetoric and Prosody*, Orient Blackswan, Kolkata, 2017

**Or**

**CL-1(English): Language, Variety and Stylistics**

**Credits 06**

1. Language & Communication – distinctness of human language
2. Language varieties – Standard & Non-standard Language, Formal & Informal
3. Difference between Declarative and Expressive forms of language – when Statement becomes Expression
4. Register, Collocation and Style

**Suggested Readings:**

- Rajend Mesthrie and Rakesh M. Bhatt. *World Englishes: The Study of New Linguistic Varieties*
- GB Shaw. 'Spoken English & Broken English'
- Geoffrey N. Leech. *A Linguistic Guide to English Poetry*
- H.G.Widdowson. *Stylistics & the Teaching of Literature*
- *Language Literature and Creativity* Orient Blackswan

**CL-2(English): Poetry - 2**

**Credits 06**

**Course Contents:**

1. Alfred L.Tennyson : Break Break Break,
2. Robert Browning: Porphyria's Lover
3. T.S.Eliot: Preludes
4. W.B. Yeats: The Lake Isles of Innisfree

**Or**

**CL-2(English): Language, Imagination & Creativity**

**Credits 06**

**Course Contents:**

**Language, Imagination & Creativity**

1. Plain Language and Figurative Language (Related Tropes like Metaphor, Conceit, Metonymy)
2. Language and Emotion – Hyperbole, Pathetic Fallacy, Irony, Understatement
3. Escape from Banality – Foregrounding devices like Parallelism & Deviation
4. Avoiding/ Cultivating Ambiguity – Ambiguity: Weakness or Strength

**Suggested Readings:**

- I. A. Richards. *Practical Criticism* (Part III)
- Geoffrey N. Leech. *A Linguistic Guide to English Poetry*
- Bose & Sterling. *Rhetoric & Prosody*
- William Empson. *Seven Types of Ambiguity*
- Susanta Kumar Bardhan. *Introduction to Stylistics*
- Geoffrey Leech. *A Communicative Grammar of English*

# VIDYASAGAR UNIVERSITY



**Curriculum for 3-Year B. A (HONOURS)**  
**in**  
**Bengali**

**Under Choice Based Credit System (CBCS)**  
**w.e.f 2018-2019**

**VIDYASAGAR UNIVERSITY**  
**BA (Honours) in Bengali**  
[Choice Based Credit System]

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
<b>Semester-I</b>									
1	I	Core-1		CT1: বাংলা ভাষার উদ্ভব ও পরিচয়	6	5-1-0	15	60	75
		Core-2		CT2: বাংলা সাহিত্যের ইতিহাস (প্রাচীন ও মধ্যযুগ)	6	5-1-0	15	60	75
		GE-1		TBD	6	5-1-0/ 4-0-4	15	60	75
		AECC-1 (Elective)		English/MIL					
	<b>Semester -I: total</b>					<b>20</b>			
<b>Semester-II</b>									
1	II	Core-3		CT3: প্রাচীন ও মধ্যযুগের পদপাঠ	6	5-1-0	15	60	75
		Core-4		CT4: চৈতন্য জীবনী ও মঙ্গলকাব্য সাহিত্যপাঠ	6	5-1-0	15	60	75
		GE-2		TBD	6	5-1-0/ 4-0-4	15	60	75
		AECC-2 (Elective)		ENVS					
	<b>Semester-II : total</b>					<b>22</b>			

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
<b>Semester-III</b>									
2	III	Core-5		CT5: উনিশ-বিশ শতকের প্রবন্ধ ও কাব্য-সাহিত্যের ইতিহাস এবং আখ্যান সাহিত্য পাঠ	6	5-1-0	15	60	75
		Core-6		CT6: ছন্দ-অলংকার ও নির্বাচিত কবিতা পাঠ	6	5-1-0	15	60	75
		Core-7		CT7: প্রবন্ধ সাহিত্য পাঠ	6	5-1-0	15	60	75
		GE-3		TBD	6	5-10/ 4-0-4	15	60	75
		SEC-1		SEC-1: বাংলা ব্যাকরণ ও অনুবাদতত্ত্ব Or লিখন দক্ষতা বৃদ্ধি	2	1-1-0	10	40	50
<b>Semester – III : total</b>					<b>26</b>				<b>350</b>
<b>Semester-IV</b>									
	IV	Core-8		CT8: উনিশ ও বিশ শতকের নাট্য ও কথাসাহিত্যের ইতিহাস এবং ছোটগল্প পাঠ	6	5-1-0	15	60	75
		Core-9		CT9: কাব্যপাঠ	6	5-1-0	15	60	75
		Core-10		CT10: উপন্যাস পাঠ	6	5-1-0	15	60	75
		GE-4		TBD	6	5-1-0/ 4-0-4	15	60	75
		SEC-2		SEC-2: বাংলা ভাষা ও সাহিত্য বিষয়ক প্রকল্প রচনা ও প্রকল্পের উপস্থাপনা Or চিত্রনাট্য রচনা ও সাম্প্রতিক ঘটনা-বিশ্লেষণ	2	1-1-0	10	40	50
<b>Semester – IV : total</b>					<b>26</b>				<b>350</b>



Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
		<b>Semester-V</b>							
<b>3</b>	<b>V</b>	Core-11		CT11: নাট্য পাঠ	6	5-1-0	15	60	75
		Core-12		CT12: কাব্যতত্ত্ব, পাশ্চাত্য সাহিত্য সমালোচনা তত্ত্ব ও সাহিত্যের রূপরীতি	6	5-1-0	15	60	75
		DSE-1		DSE-1: প্রাচীন সাহিত্যতত্ত্ব ও সাহিত্যতাত্ত্বিক or বাংলা সাহিত্যে প্রভাব or সাহিত্য আন্দোলন, সমালোচনা ও রূপরীতি	6	5-1-0	15	60	75
		DSE-2		DSE-2: জীবনী সাহিত্য ও পত্রসাহিত্য or বাংলা বিতর্কমূলক, সৌন্দর্যতত্ত্বমূলক ও বিজ্ঞান চেতনামূলক গ্রন্থপাঠ or বাংলা ছোটগল্প, ভ্রমণ কাহিনি ও গোয়েন্দা কাহিনি পাঠ or বাংলা রঙ্গমঞ্চ, সাময়িকপত্র ও অনুবাদ সাহিত্যের ইতিহাস	6	5-1-0	15	60	75
		<b>Semester –V : total</b>				<b>24</b>			
		<b>Semester-VI</b>							
	<b>VI</b>	Core-13		CT13: লোকসাহিত্য	6	5-1-0	15	60	75
		Core-14		CT14: সংস্কৃত, ইংরেজি ও প্রতিবেশী সাহিত্যের ইতিহাস	6	5-1-0	15	60	75
		DSE-3		DSE-3: গদ্যসাহিত্য পাঠ Or কাব্যসাহিত্য পাঠ Or নাট্যসাহিত্য পাঠ	6	5-1-0	15	60	75
		DSE-4		DSE-4: রবীন্দ্র সাহিত্য পাঠ Or উপন্যাস সাহিত্য পাঠ Or প্রকৃতিচেতনামূলক, জাতীয়তামূলক ও বিশ্বমানবতামূলক সাহিত্য পাঠ Or বাংলা সাহিত্য এবং চিত্র, চলচ্চিত্র ও ক্রীড়া	6	5-1-0	15	60	75
		<b>Semester – VI : total</b>				<b>24</b>			
<b>Total in all semester:</b>					<b>142</b>				<b>1900</b>

**CC** = Core Course , **AECC** = Ability Enhancement Compulsory Course , **GE** = Generic Elective , **SEC** = Skill Enhancement Course , **DSE** = Discipline Specific Elective , **CA**= Continuous Assessment , **ESE**= End Semester Examination , **TBD**=To be decided , **CT** = Core Theory, **L** = Lecture, **T** = Tutorial , **P** = Practical , **MIL** = Modern Indian Language , **ENVS** = Environmental Studies ,

### List of Core Course (CC)

- CC-1: বাংলা ভাষার উদ্ভব ও পরিচয়  
CC-2: বাংলা সাহিত্যের ইতিহাস (প্রাচীন ও মধ্যযুগ)  
CC-3: প্রাচীন ও মধ্যযুগের পদপাঠ  
CC-4: চৈতন্য জীবনী ও মঙ্গলকাব্য সাহিত্যপাঠ  
CC-5: উনিশ-বিশ শতকের প্রবন্ধ ও কাব্য-সাহিত্যের ইতিহাস এবং আখ্যান সাহিত্য পাঠ  
CC-6: ছন্দ-অলংকার ও নির্বাচিত কবিতা পাঠ  
CC-7: প্রবন্ধ সাহিত্য পাঠ  
CC-8: উনিশ ও বিশ শতকের নাট্য ও কথাসাহিত্যের ইতিহাস এবং ছোটগল্প পাঠ  
CC-9: কাব্যপাঠ  
CC-10: উপন্যাস পাঠ  
CC-11: নাট্য পাঠ  
CC-12: কাব্যতত্ত্ব, পাশ্চাত্য সাহিত্য সমালোচনা তত্ত্ব ও সাহিত্যের রূপরীতি  
CC-13: লোকসাহিত্য  
CC-14: সংস্কৃত, ইংরেজি ও প্রতিবেশী সাহিত্যের ইতিহাস

### Discipline Specific Electives (DSE)

- DSE-1: প্রাচীন সাহিত্যতত্ত্ব ও সাহিত্যতাত্ত্বিক  
অথবা  
DSE-1: বাংলা সাহিত্যে প্রভাব  
অথবা  
DSE-1: সাহিত্য আন্দোলন, সমালোচনা ও রূপরীতি  
DSE-2: জীবনী সাহিত্য ও পত্রসাহিত্য  
অথবা  
DSE-2: বাংলা বিতর্কমূলক, সৌন্দর্যতত্ত্বমূলক ও বিজ্ঞান চেতনামূলক গ্রন্থপাঠ  
অথবা  
DSE-2: বাংলা ছোটগল্প, ভ্রমণ কাহিনি ও গোয়েন্দা কাহিনি পাঠ  
অথবা  
DSE-2: বাংলা রঙ্গমঞ্চ, সাময়িকপত্র ও অনুবাদ সাহিত্যের ইতিহাস  
DSE-3: গদ্যসাহিত্য পাঠ  
অথবা  
DSE-3: কাব্যসাহিত্য পাঠ  
অথবা  
DSE-3: নাট্যসাহিত্য পাঠ  
DSE-4: রবীন্দ্র সাহিত্য পাঠ  
অথবা  
DSE-4: উপন্যাস সাহিত্য পাঠ  
অথবা  
DSE-4: প্রকৃতিচেতনামূলক, জাতীয়তামূলক ও বিশ্বমানবতামূলক সাহিত্য পাঠ  
অথবা

DSE-4: বাংলা সাহিত্য এবং চিত্র, চলচ্চিত্র ও ক্রীড়া

**Skill Enhancement Course (SEC)**

SEC-1: বাংলা ব্যাকরণ ও অনুবাদতত্ত্ব

অথবা

SEC-1: লিখন দক্ষতা বৃদ্ধি

SEC-2: বাংলা ভাষা ও সাহিত্য বিষয়ক প্রকল্প রচনা ও প্রকল্পের উপস্থাপনা

অথবা

SEC-2: চিত্রনাট্য রচনা ও সাম্প্রতিক ঘটনা-বিশ্লেষণ

**Generic Electives (GE)**

**Interdisciplinary for other Department**

GE-1: বাংলার ভূ-খণ্ড ও জাতির উৎপত্তি, ধর্ম ও সংস্কৃতির ইতিহাস এবং লোকসাহিত্য

অথবা

GE-1: বাংলা ভাষার বিভিন্ন স্তর ও বাংলা ভাষাচর্চা

GE-2: কাব্যসাহিত্যের ধারা ও বৈষ্ণব পদাবলী পাঠ

অথবা

GE-2: নাট্যসাহিত্যের ধারা এবং কাব্য ও নাটক পাঠ

GE-3: বাংলা প্রবন্ধ ও কথাসাহিত্যের ধারা এবং প্রবন্ধ পাঠ

অথবা

GE-3: উপন্যাস ও ছোটগল্প পাঠ

GE-4: বাংলা গীতি সাহিত্য, শিশুসাহিত্য ও রম্যরচনার ধারা

অথবা

GE-4: বাংলা সাহিত্য এবং দার্শনিক, রাজনৈতিক ও সামাজিক চিন্তা

**AECC-Elective (MIL-Bengali)**

MIL (Bengali): বাংলা ভাষা-প্রসঙ্গ, অনুবাদ ও কথন-দক্ষতা

## কোর কোর্স (CC)

CC-1: বাংলা ভাষার উদ্ভব ও পরিচয়

Credits 06

C1T: বাংলা ভাষার উদ্ভব ও পরিচয়

Course Contents:

বাংলা ভাষার উদ্ভব, বাংলা ভাষার বিভিন্ন স্তর, বাংলা শব্দভাণ্ডার, শব্দার্থতত্ত্ব, ধ্বনি পরিবর্তনের কারণ ও সূত্র, বাংলা পদ, বাংলা কারক ও বিভক্তি, বাংলা লোকভাষা ও বাংলা উপভাষা।

Suggested Readings:

1. Origin and Development of the Bengali Language- Suniti Kumar Chatterjee
২. বাংলা ভাষাতত্ত্বের ভূমিকা -সুনীতিকুমার চট্টোপাধ্যায়
৩. বাংলা ভাষা -পার্বতীচরণ ভট্টাচার্য
৪. Middle Indo Aryan Grammar-S.K. Chatterjee and S.Sen
৫. সাধারণ ভাষাবিজ্ঞান ও বাংলা ভাষা- রামেশ্বর 'শ
৬. বাংলা ভাষার ইতিবৃত্ত -ড. মুহম্মদ শহীদুল্লাহ
৭. ভাষার ইতিবৃত্ত – ড. সুকুমার সেন
৮. ভাষাবিদ্যা পরিচয় -পরেশচন্দ্র ভট্টাচার্য
৯. আধুনিক ভারতীয় ভাষা-প্রসঙ্গে- পরেশচন্দ্র ভট্টাচার্য
১০. আধুনিক ভাষাতত্ত্ব -অতীন্দ্র মজুমদার
১১. আধুনিক ভাষাতত্ত্ব -আবুল কালাম মনজুর মুরশেদ
১২. ভাষা বিজ্ঞানের কথা – মহম্মদ দানীউল হক
১৩. ভাষা প্রকাশ বাংলা ব্যাকরণ- ড. সুনীতিকুমার চট্টোপাধ্যায়
১৪. বাংলা ভাষা পরিক্রমা (১ ও ২ খণ্ড)- পরেশচন্দ্র মজুমদার
১৫. ভাষাতত্ত্ব ও বাংলা ভাষা- বাণীরঞ্জন দে
১৬. বাংলা ভাষাতত্ত্ব – মিহির চৌধুরী কামিল্যা
১৭. ভাষাতত্ত্ব – অতীন্দ্র মজুমদার
১৮. লোকভাষা-লোকসংস্কৃতি ও অবিভক্ত মেদিনীপুর – ছন্দা ঘোষাল
১৯. ভাষাবিজ্ঞান ও বাংলা ভাষা- অনিমেষকান্তি পাল
২০. ঝাড়খণ্ডী বাংলার ঝাড়গাঁয়ী রূপ – ছন্দা ঘোষাল

CC-2: বাংলা সাহিত্যের ইতিহাস ( প্রাচীন ও মধ্যযুগ)

Credits 06

C2T: বাংলা সাহিত্যের ইতিহাস ( প্রাচীন ও মধ্যযুগ)

Course Contents:

সুজ্যমান বাংলার প্রকীর্তন, চর্যাপদ, শ্রীকৃষ্ণকীর্তন, চৈতন্যচরিত সাহিত্য, অনুবাদ সাহিত্য, বৈষ্ণব পদাবলী সাহিত্য, মঙ্গলকাব্য ধারা, আরাকান রাজসভার সাহিত্য, শাক্ত পদাবলী, নাথসাহিত্য, বাউলগীতি

Suggested Readings:



১. বাংলা সাহিত্যের ইতিবৃত্ত - ড. অসিতকুমার বন্দ্যোপাধ্যায়
২. বাংলা সাহিত্যের ইতিকথা - ড. ভূদেব চৌধুরী
৩. বাঙ্গালা সাহিত্যের ইতিহাস - ড. সুকুমার সেন
৪. সমগ্র বাংলা সাহিত্যের পরিচয় - ড. পরেশচন্দ্র ভট্টাচার্য
৫. বাঙলা সাহিত্যের রূপরেখা - গোপাল হালদার
৬. সমগ্র বাংলা সাহিত্যের ইতিহাস - ক্ষেত্র গুপ্ত
৭. বাংলা সাহিত্যের সম্পূর্ণ ইতিবৃত্ত - অসিতকুমার বন্দ্যোপাধ্যায়
৮. মঙ্গলকাব্যের ইতিহাস - আশুতোষ ভট্টাচার্য
৯. মধ্যযুগের কবি ও কাব্য - শঙ্করীপ্রসাদ বসু
১০. বাংলা সাহিত্যে বিকাশের ধারা – শ্রীকুমার বন্দ্যোপাধ্যায়
১১. বাংলা সাহিত্যের প্রাচীন কবিদের পরিচয় ও সময় – সুখময় মুখোপাধ্যায়

### CC-3: প্রাচীন ও মধ্যযুগের পদপাঠ

Credits 06

### C3T: প্রাচীন ও মধ্যযুগের পদপাঠ

#### Course Contents:

- ক. চর্যাপদ (পাঠ্যপদ - ১,২,৫,৭,৮,১০,১৪,২৪,২৮)
- খ. বৈষ্ণব পদাবলী ( নির্বাচিত ৮টি পদ)  
 বিদ্যাপতি - এ সখি হামারি দুখের নাহি ওর;  
 আজু রজনী হাম ভাগে পোহায়লুঁ  
 চন্ডীদাস - যত নিবারিয়ে তায় নিবার না যায় রে;  
 রাধার কি হইল অন্তরে ব্যথা  
 জ্ঞানদাস – রূপ লাগি আঁখি বুঝে গুনে মন ভোর  
 গোবিন্দদাস – গগনহি নিমগন দিনমণি কাঁতি;  
 কন্টক গাড়ি কমল-সম পদতল  
 বলরামদাস - শ্রীদাম সুদাম দাম শুন ওরে বলরাম
- গ. শাক্ত পদাবলী ( নির্বাচিত ৮টি পদ)  
 রামপ্রসাদ সেন - ওহে প্রাণনাথ গিরিবর;  
 গিরি, এবার আমার উমা;  
 মা আমায় ঘুরাবি কত;  
 কেবল আসার আশা  
 কমলাকান্ত ভট্টাচার্য -ওরে নবমী নিশি;  
 ওহে গিরিরাজ, গৌরী অভিমান;  
 কি হলো নবমী নিশি;  
 বারে বারে কহ রাণি

#### Suggested Readings:

১. চর্যাপদে ভূমিকা - জাহ্নবীকুমার চক্রবর্তী
২. চর্যাপদে পরিচয় - সত্যব্রত দে



৩. চর্যাগীতি পরিক্রমা - নির্মল দাশ
৪. চর্যাগীতিকোষ - সৌমেন্দ্রনাথ সরকার
৫. চর্যাগীতি - মনীন্দ্রমোহন বসু
৬. পাঁচশত বৎসরের পদাবলী - বিমানবিহারী মজুমদার (সম্পাদনা)
৭. মধ্যযুগের কবি ও কাব্য - শঙ্করীপ্রসাদ বসু
৮. বৈষ্ণব সাহিত্য - ত্রিপুরা শঙ্কর সেন শাস্ত্রী
৯. বাংলা সাহিত্যে কৃষ্ণকথার ক্রমবিকাশ - সত্যবতী গিরি
১০. বৈষ্ণব পদাবলী পরিচয় - জীবেন্দু রায়
১১. বৈষ্ণব রসপ্রকাশ - ক্ষুদিরাম দাস
১২. পদাবলী পরিচয় - হরেকৃষ্ণ মুখোপাধ্যায়
১৩. বৈষ্ণব কবি প্রসঙ্গে - দেবনাথ বন্দ্যোপাধ্যায়
১৪. প্রসঙ্গ : বৈষ্ণব সাহিত্য - লায়েক আলি খান
১৫. বৈষ্ণব পদাবলী - সত্য গিরি
১৬. ভারতের শক্তিসাধনা ও শাক্তসাহিত্য - শশিভূষণ দাশগুপ্ত
১৭. শাক্তপদাবলী ও শক্তিসাধনা - জাহ্নবীকুমার চক্রবর্তী
১৮. শাক্তপদাবলী - অমরেন্দ্রনাথ রায় (সম্পাদনা)
১৯. শাক্তপদাবলী - ধ্রুবকুমার মুখোপাধ্যায় (সম্পাদনা)
২০. শাক্তগীতি পদাবলী - অরুণকুমার বসু
২১. শাক্তপদাবলী - ত্রিপুরাশঙ্কর সেনশাস্ত্রী

#### CC-4: চৈতন্যজীবনী ও মঙ্গলকাব্য সাহিত্যপাঠ

Credits 06

#### C4T: চৈতন্যজীবনী ও মঙ্গলকাব্য সাহিত্যপাঠ

##### Course Contents:

- ক. চৈতন্যভাগবত ( আদিখণ্ড) - বৃন্দাবন দাস
- খ. চণ্ডীমঙ্গল (আখিটিকখণ্ড) - মুকুন্দ চক্রবর্তী
- গ. অন্নদামঙ্গল - ভারতচন্দ্র

##### Suggested Readings:

১. চৈতন্যভাগবত - সুকুমার সেন (সম্পাদিত)
২. চৈতন্যভাগবত - রাধাগোবিন্দ নাথ (সম্পাদিত)
৩. শ্রী শ্রী চৈতন্য চরিতের উপাদান - বিমানবিহারী মজুমদার
৪. অমিয় নিমাই চরিত - শিশিরকুমার ঘোষ
৫. শ্রীচৈতন্য প্রদক্ষিণ - বিষ্ণুপদ পাণ্ডা
৬. চৈতন্য ভাগবত - রবিরঞ্জন চট্টোপাধ্যায় (সম্পাদিত)
৭. গৌড়ীয় বৈষ্ণব অভিধান - হরিদাস দাস
৮. গৌড়ীয় বৈষ্ণব দর্শন - রাধাগোবিন্দ নাথ
৯. শ্রীচৈতন্যের দিব্যজীবন ও অষ্টোত্ত অস্তর্ধান পর্ব - মাধব পট্টনায়ক
১০. কবিকঙ্কণ চণ্ডী - দেবকুমার ঘোষ
১১. চণ্ডীমঙ্গল পরিক্রমা - সুখময় মুখোপাধ্যায়



১২. কবিকঙ্কণ চণ্ডী - ক্ষুদিরাম দাস
১৩. ভারতচন্দ্র ও অন্নদামঙ্গল - ভবেশ মজুমদার
১৪. কবি ভারতচন্দ্র - শঙ্করীপ্রসাদ বসু
১৫. ভারতচন্দ্র রায় গুণাকরের অন্নদামঙ্গল - দেবকুমার ঘোষ
১৬. ভারতচন্দ্রের অন্নদামঙ্গল - কার্তিক ভদ্র
১৭. ভারতচন্দ্রের অন্নদামঙ্গল - নির্মলেন্দু মুখোপাধ্যায়
১৮. ভারতচন্দ্রের অন্নদামঙ্গল - মদনমোহন গোস্বামী
১৯. চণ্ডীমঙ্গল – (সম্পা.) সন্দীপ মণ্ডল
২০. কবিকঙ্কণ মুকুন্দের চণ্ডীমঙ্গল : বীক্ষা ও সমীক্ষা – (সম্পা.) বিশ্বনাথ রায়
২১. চৈতন্য ভাগবত (সম্পা.) - দুর্গাপদ গঙ্গোপাধ্যায়

## CC-5: উনিশ-বিশ শতকের প্রবন্ধ ও কাব্য সাহিত্যের ইতিহাস এবং আখ্যান সাহিত্য পাঠ Credits 06

### C5T: উনিশ-বিশ শতকের প্রবন্ধ ও কাব্য সাহিত্যের ইতিহাস এবং আখ্যান সাহিত্য পাঠ

#### Course Contents:

#### ক. উনিশ ও বিশ শতকের প্রবন্ধ সাহিত্যের ইতিহাস

শ্রীরামপুর মিশন, ফোর্ট উইলিয়াম কলেজ, রাজা রামমোহন রায়, ঈশ্বরচন্দ্র বিদ্যাসাগর, অক্ষয়কুমার দত্ত, ভূদেব মুখোপাধ্যায়, কালীপ্রসন্ন সিংহ, গ্যারীচাঁদ মিত্র, বঙ্কিমচন্দ্র চট্টোপাধ্যায়, স্বামী বিবেকানন্দ, রবীন্দ্রনাথ ঠাকুর, হরপ্রসাদ শাস্ত্রী, রামেন্দ্রসুন্দর ত্রিবেদী, অমূল্যচরণ বিদ্যাভূষণ, প্রমথ চৌধুরী, অন্নদাশঙ্কর রায়, সুনীতিকুমার চট্টোপাধ্যায়, সৈয়দ মুজতবা আলী, যোগেশচন্দ্র রায় বিদ্যানিধি, বুদ্ধদেব বসু।

#### খ. উনিশ ও বিশ শতকের কাব্য সাহিত্যের ইতিহাস -

ঈশ্বর গুপ্ত, মধুসূদন দত্ত, রঙ্গলাল বন্দ্যোপাধ্যায়, হেমচন্দ্র বন্দ্যোপাধ্যায়, নবীনচন্দ্র সেন, বিহারীলাল চক্রবর্তী, রবীন্দ্রনাথ ঠাকুর, সত্যেন্দ্রনাথ দত্ত, মোহিতলাল মজুমদার, নজরুল ইসলাম, প্রমেন্দ্র মিত্র, সুধীন্দ্রনাথ দত্ত, বিষ্ণু দে, বুদ্ধদেব বসু, জীবনানন্দ দাশ, অমিয় চক্রবর্তী, সুভাষ মুখোপাধ্যায়, শক্তি চট্টোপাধ্যায়, শঙ্খ ঘোষ।

#### গ. আখ্যান সাহিত্যপাঠ -

শকুন্তলা - বিদ্যাসাগর

#### Suggested Readings:

১. বাংলা সাহিত্যে গদ্য - সুকুমার সেন
২. আধুনিক বাংলা প্রবন্ধ সাহিত্যের ধারা - অধীর দে
৩. বাংলা গদ্য রীতির ইতিহাস - অরুণকুমার মুখোপাধ্যায়
৪. বাংলা গদ্যের ক্রমবিকাশ - হীরেন্দ্রনাথ দত্ত
৫. গদ্যচর্চার ইতিহাস ও প্রমথ চৌধুরী - লায়েক আলি খান ও প্রশান্তকুমার দাস
৬. বাংলা গদ্যের ক্রমবিকাশ - হীরেন্দ্রনাথ দত্ত
৭. বাঙ্গালা সাহিত্যের ইতিহাস - সুকুমার সেন

৮. বাংলা সাহিত্যের ইতিবৃত্ত - অসিতকুমার বন্দ্যোপাধ্যায়
৯. বাংলা সাহিত্যের ইতিকথা - ভূদেব চৌধুরী
১০. আধুনিক বাংলা কাব্য - তারাপদ রায়
১১. বাংলা কবিতার কালান্তর - সরোজ বন্দ্যোপাধ্যায়
১২. ঊনবিংশ শতাব্দীর বাংলা গীতিকাব্য - অরুণকুমার মুখোপাধ্যায়
১৩. রবীন্দ্রানুসারী কবি সমাজ - অরুণকুমার মুখোপাধ্যায়
১৪. রবীন্দ্র কবিতার বিপরীত স্রোত - কাননবিহারী ঘোষ
১৫. আধুনিক বাংলা কবিতার রূপরেখা - বাসন্তীকুমার মুখোপাধ্যায়
১৬. আধুনিক কবিতার মানচিত্র - জীবেন্দ্র সিংহ রায়
১৭. আধুনিক বাংলা কাব্য পরিচয় - দীপ্তি ত্রিপাঠী
১৮. আমার কালের কয়েকজন কবি - জগদীশ চট্টোচার্য
১৯. বাংলা কবিতার কালান্তর - সরোজ বন্দ্যোপাধ্যায়
২০. আধুনিক কবিতার দিগ্বলয় - অশ্রুকুমার সিকদার
২১. বাংলা কবিতার মেজাজ ও মনোবীজ - জহর সেন মজুমদার
২২. স্বাধীনতা পরবর্তী বাংলা কবিতা: উৎস ও বিবর্তন - গৈরিক ঘোষ
২৩. আধুনিক কবিতার ইতিহাস - অলোকরঞ্জন দাশগুপ্ত
২৪. বাংলা সাহিত্যে বিদ্যাসাগর - অসিতকুমার বন্দ্যোপাধ্যায়
২৫. শকুন্তলা ও সীতার বনবাস : বিদ্যাসাগর - নরেশচন্দ্র জানা
২৬. ঈশ্বরচন্দ্র বিদ্যাসাগর প্রণীত শকুন্তলা - (সম্পা.) উজ্জ্বলকুমার মজুমদার

## CC-6: ছন্দ-অলঙ্কার ও নির্বাচিত কবিতা পাঠ

Credits 06

## C6T: ছন্দ-অলঙ্কার ও নির্বাচিত কবিতা পাঠ

### Course Contents:

#### ছন্দ ও অলঙ্কার

##### ক. ছন্দ

দলবৃত্ত, মিশ্রকলাবৃত্ত, কলাবৃত্ত, পয়ার, ত্রিপদী, চৌপদী, সনেট, অমিত্রাক্ষর, গদ্যছন্দ, পর্ব- পর্বাঙ্গ, যতি, লয়, মাত্রা, ছেদ, ছন্দ নির্ণয়।

##### খ. অলঙ্কার

অনুপ্রাস, শ্লেষ, যমক, রূপক, উপমা, উৎপ্রেক্ষা, ব্যাজস্ততি, সমাসোক্তি, অতিশয়োক্তি, সন্দেহ, অপহুতি, বিরোধভাস, বিষম, অলঙ্কার নির্ণয়।

##### গ. নির্বাচিত কবিতাপাঠ -

আমরা - সত্যেন্দ্রনাথ দত্ত

সাম্রাজ্যবাদী - নজরুল

দুঃখবাদী - যতীন্দ্রনাথ সেনগুপ্ত

ফ্রাইবুর্গের পথে - অমিয় চক্রবর্তী

আট বছর আগের একদিন - জীবনানন্দ দাশ

শাস্ত্রী - সুধীন্দ্রনাথ দত্ত





অবনী বাড়ী আছে – শক্তি চট্টোপাধ্যায়

**Suggested Readings:**

১. বাংলা ছন্দশিল্প ও ছন্দচিত্তার অগ্রগতি - প্রবোধচন্দ্র সেন
২. নূতন ছন্দ পরিক্রমা - প্রবোধচন্দ্র সেন
৩. বাংলা ছন্দের মূলসূত্র - অমূল্যধন মুখোপাধ্যায়
৪. বাংলা ছন্দশিল্প ও ছন্দচিত্তা - নীলরতন সেন
৫. বাংলা ছন্দ বিবর্তনের ধারা - নীলরতন সেন
৬. ছন্দের বারান্দা - শঙ্খ ঘোষ
৭. বাংলা ছন্দ – জীবেন্দ্র সিংহ রায়
৮. নব ছন্দশৈলী – সুধাংশুশেখর শাসমল
৯. ছন্দ পরিচয় - রামবহাল তেওয়ারী
১০. বাংলা ছন্দ : রূপ ও রীতি- মিহির চৌধুরী কামিল্যা
১১. বাংলা ছন্দশিল্প : প্রসঙ্গ অনুসঙ্গ - অপূর্ব কোলে
১২. অলঙ্কার চন্দ্রিকা - শ্যামাপদ চক্রবর্তী
১৩. বাংলা অলংকার বিচার - পঞ্চানন মালাকার
১৪. বাংলা অলংকার মঞ্জরী - অশোককুমার মিশ্র
১৫. বাংলা অলংকার : রূপ ও স্বরূপ - মিহির চৌধুরী কামিল্যা
১৬. প্রসঙ্গ অলঙ্কার – শুদ্ধসঙ্গ বসু
১৭. সত্যেন্দ্রনাথ দত্তের কবিতা ও কাব্যরূপ – হরপ্রসাদ মিত্র
১৮. বাংলা সাহিত্যে নজরুল – আজহারউদ্দীন খান
১৯. নজরুল মানস – সুশীল গুপ্ত
২০. নজরুল প্রতিভা – লায়েক আলি খান
২১. একটি নক্ষত্র আসে – অশুজ বসু
২২. জীবনানন্দ – বীতশোক ভট্টাচার্য
২৩. যতীন্দ্রনাথের কবি মানস ও কাব্য শিল্প – অমরেন্দ্র গণাই
২৪. কবি শক্তি – সমীর সেনগুপ্ত
২৫. কবি জীবনানন্দ – সঞ্জয় ভট্টাচার্য
২৬. সুধীন্দ্রনাথ পাঠের ভূমিকা – দেবীপ্রসাদ বন্দ্যোপাধ্যায়
২৭. সুধীন্দ্রনাথ দত্ত – অমিয় দেব
২৮. সুধীন্দ্রনাথ দত্ত : ভাববিশ্ব ও কাব্যবীক্ষা – তপোধীর ভট্টাচার্য
২৯. উনবিংশ শতাব্দীর বাংলা গীতিকাব্য - অরুণকুমার মুখোপাধ্যায়
৩০. বাংলা কবিতার কালান্তর - সরোজ বন্দ্যোপাধ্যায়
৩১. আধুনিক কবিতা ভাবনা ও অনুভাবনা – শ্রুতিনাথ চক্রবর্তী
৩২. প্রাচীন ভারতীয় সাহিত্য অনুপ্রাণনায় পাঁচজন আধুনিক কবি - বাণীরঞ্জন দে
৩৩. বিশ্ব নাগরিক অমিয় চক্রবর্তী : স্রষ্টা ও সৃষ্টি – সুমিতা চক্রবর্তী
৩৪. আধুনিক কবিতার ইতিহাস – অলোকরঞ্জন দাশগুপ্ত ও দেবীপ্রসাদ বন্দ্যোপাধ্যায়
৩৫. আধুনিক কবিতার মানচিত্র – জীবেন্দ্র সিংহ রায়

## C7T: প্রবন্ধ সাহিত্য পাঠ

## Course Contents:

ক. বিবিধ প্রবন্ধ – বঙ্কিমচন্দ্র চট্টোপাধ্যায়

শকুন্তলা, মিরন্দা ও দেশদ্রোণী; গীতিকাব্য; বিদ্যাপতি ও জয়দেব; অনুকরণ; বাঙ্গালার ইতিহাস; বঙ্গদেশের কৃষক।

খ. নির্বাচিত প্রবন্ধ পাঠ –

১. কৌতুকহাস্যের মাত্রা (পঞ্চভূত) – রবীন্দ্রনাথ ঠাকুর
২. জাতভাষা এক স্থানীয় ভাষা (কি লিখি) – যোগেশচন্দ্র রায় বিদ্যানিধি
৩. ভারতীয় সংস্কৃতির গোড়ার কথা – অমূল্যচরণ বিদ্যাভূষণ
৪. বইপড়া – প্রমথ চৌধুরী
৫. অপবিজ্ঞান – রাজশেখর বসু
৬. দেশপ্রেম বনাম জাতিপ্রেম – অন্নদাশঙ্কর রায়
৭. রবীন্দ্রনাথ ও উত্তরসাধক – বুদ্ধদেব বসু

গ. চরিতকথা – রামেন্দ্রসুন্দর ত্রিবেদী

ঈশ্বরচন্দ্র বিদ্যাসাগর, বালেন্দ্রনাথ ঠাকুর, বঙ্কিমচন্দ্র চট্টোপাধ্যায়, অধ্যাপক মক্ষমুলার, হর্মান হেলম হোল্যান্ড

## Suggested Readings:

১. আধুনিক বাংলা প্রবন্ধ সাহিত্যের ধারা – অধীর দে
২. বাংলা গদ্যরীতির ইতিহাস – অরুণকুমার মুখোপাধ্যায়
৩. বঙ্কিমচন্দ্র : সৃজন ও বীক্ষণ – ভবতোষ চট্টোপাধ্যায়
৪. বঙ্কিমচন্দ্রের বিবিধ প্রবন্ধ – নাড়ুগোপাল দে
৫. প্রমথ চৌধুরী – জীবেন্দ্র সিংহ রায়
৬. রাজশেখর বসু : জীবন ও সাহিত্য – কল্যাণী ঘোষ
৭. রামেন্দ্রসুন্দরের চরিতকথা – বুদ্ধদেব ভট্টাচার্য
৮. চিন্তানায়ক বঙ্কিমচন্দ্র – ভবতোষ দত্ত
৯. আধুনিক বাংলা প্রবন্ধ সাহিত্যের ধারা(১ম ও ২য়) – অধীর দে
১০. বাংলা গদ্যের পদাঙ্ক – বিজিত দত্ত
১১. যোগেশচন্দ্র বিদ্যানিধি – শৈলেন দাস ও নমিতা মণ্ডল
১২. বুদ্ধদেব বসু : মননে অন্বেষণে – তরুণ মুখোপাধ্যায়
১৩. বাংলা প্রবন্ধ : উনিশ ও বিশ – সুজয় কুমার মাইতি
১৪. রামেন্দ্রসুন্দর ও বাংলা সাহিত্য – প্রদ্যোত সেনগুপ্ত
১৫. যোগেশচন্দ্র বিদ্যানিধি : জীবন ও সাহিত্য- মধুমিতা মহাপাত্র
১৬. গদ্যচর্চার ইতিহাস ও প্রমথ চৌধুরী- সম্পা. লায়েক আলি খান ও প্রশান্তকুমার দাস
১৭. বঙ্কিম-মনীষা – অলোক রায়

C8T: উনিশ ও বিশ শতকের নাট্য ও কথাসাহিত্যের ইতিহাস এবং ছোটগল্প পাঠ

Course Contents:

ক. উনিশ ও বিশ শতকের নাট্য সাহিত্যের ইতিহাস

ক. রামনারায়ণ তর্করত্ন, মধুসূদন দত্ত, দীনবন্ধু মিত্র, অমৃতলাল বসু, গিরিশচন্দ্র ঘোষ, জ্যোতিরিন্দ্রনাথ ঠাকুর, ক্ষীরোদপ্রসাদ বিদ্যাবিনোদ, রবীন্দ্রনাথ ঠাকুর, দ্বিজেন্দ্রলাল রায়, মন্মথ রায়, বিজন ভট্টাচার্য, তুলসী লাহিড়ী, বাদল সরকার, মনোজ মিত্র।

খ. উনিশ ও বিশ শতকের উপন্যাস ও ছোটগল্পের ইতিহাস

১. উপন্যাস –

বঙ্কিমচন্দ্র চট্টোপাধ্যায়, রবীন্দ্রনাথ ঠাকুর, শরৎচন্দ্র চট্টোপাধ্যায়, বিভূতিভূষণ বন্দ্যোপাধ্যায়, তারাশঙ্কর বন্দ্যোপাধ্যায়, মানিক বন্দ্যোপাধ্যায়, বনফুল, শরদিন্দু বন্দ্যোপাধ্যায়, মহাশ্বেতা দেবী

২. ছোটগল্প -

রবীন্দ্রনাথ ঠাকুর, প্রভাতকুমার মুখোপাধ্যায়, পরশুরাম, জগদীশ গুপ্ত, প্রেমেন্দ্র মিত্র, বনফুল, সুবোধ ঘোষ, নরেন্দ্রনাথ মিত্র, , সমরেশ বসু, নারায়ণ গঙ্গোপাধ্যায়, জ্যোতিরিন্দ্র নন্দী, শরদিন্দু বন্দ্যোপাধ্যায়, বিমল কর, আশাপূর্ণা দেবী।

গ. ছোটগল্প পাঠ –

অতিথি – রবীন্দ্রনাথ ঠাকুর

সমাপ্তি – রবীন্দ্রনাথ ঠাকুর,

উমারানী – বিভূতিভূষণ বন্দ্যোপাধ্যায়

তারিণী মাঝি – তারাশঙ্কর বন্দ্যোপাধ্যায়

কচি সংসদ – রাজশেখর বসু

ফসিল – সুবোধ ঘোষ

তেলেনাপোতা আবিষ্কার – প্রেমেন্দ্র মিত্র

Suggested Readings:

১. বাঙ্গালা সাহিত্যের ইতিহাস – সুকুমার সেন
২. বাংলা সাহিত্যের ইতিবৃত্ত – অসিতকুমার বন্দ্যোপাধ্যায়
৩. বাংলা সাহিত্যের ইতিকথা – ভূদেব চৌধুরী
৪. বাংলা নাট্য সাহিত্যের ইতিহাস – শ্রী আশুতোষ ভট্টাচার্য
৫. বাংলা নাটকের ইতিহাস – অজিতকুমার ঘোষ
৬. নাট্য সাহিত্যের আলোচনা ও নাটক বিচার – সাধনকুমার ভট্টাচার্য
৭. নাট্য সাহিত্যের ভূমিকা – বিভাস রায়চৌধুরী
৮. বঙ্গসাহিত্যের উপন্যাসের ধারা – শ্রীকুমার বন্দ্যোপাধ্যায়
৯. বাংলা উপন্যাসের ইতিহাস – ক্ষেত্রগুপ্ত
১০. বাংলা উপন্যাসের কালান্তর – সরোজ বন্দ্যোপাধ্যায়
১১. বাংলা উপন্যাস ও তার আধুনিকতা – সত্যেন্দ্রনাথ রায়
১২. আমার কালের কয়েকজন কথাশিল্পী – জগদীশ ভট্টাচার্য
১৩. মধ্যাহ্ন থেকে সায়াহ্নে – অরুণকুমার মুখোপাধ্যায়

১৪. কালের প্রতিমা - অরুণকুমার মুখোপাধ্যায়
১৫. কালের পুতলিকা - অরুণকুমার মুখোপাধ্যায়
১৬. বাংলা সাহিত্যের ছোটগল্প ও গল্পকার - ভূদেব চৌধুরী
১৭. দুই বিশ্বমুদ্র মধ্যবর্তী বাংলা কথা সাহিত্য - গোপীকানাথ রায়চৌধুরী
১৮. বাংলা ছোটগল্প : প্রসঙ্গ ও প্রকরণ - বীরেন্দ্র দত্ত
১৯. গল্পচর্চা - উজ্জ্বলকুমার মজুমদার
২০. রবীন্দ্র ছোটগল্পের শিল্পরূপ - তপোব্রত ঘোষ
২১. রবীন্দ্রনাথের নির্বাচিত ছোটগল্প - অসিতকুমার মুখোপাধ্যায়
২২. রবীন্দ্রনাথের গল্প : বিশ্লেষণীপাঠ - সমরেশ মজুমদার
২৩. রবীন্দ্রনাথের ছোটগল্প - প্রমথনাথ বিশী
২৪. বাংলা ছোটগল্প : মননে দর্পণে - শীতল চৌধুরী
২৫. বাংলা ছোটগল্পের সূচনা ও প্রেমেন্দ্র মিত্র - সুরজিৎ দাশগুপ্ত
২৬. বাংলা সাহিত্যে ছোটগল্প - নারায়ণ গঙ্গোপাধ্যায়
২৭. প্রেমেন্দ্র মিত্রের বিচিত্র জগৎ - রামরঞ্জন রায়
২৮. ছোটগল্পের রূপশিল্পী - রামরঞ্জন রায়
২৯. সুবোধ ঘোষ কথাসাহিত্য - অরিন্দম গোস্বামী
৩০. পরশুরামের গল্প : জীবনের ধূপছায়া - গীতিকা পণ্ডা

## CC-9: কাব্য পাঠ

Credits 06

## C9T: কাব্য পাঠ

### Course Contents:

- ক. বীরঙ্গনা - মাইকেল মধুসূদন দত্ত  
(দ্বারকানাথের প্রতি ঝঙ্কিনী, লক্ষ্মণের প্রতি সুর্পনা, দশরথের প্রতি কৈকয়ী, সোমের প্রতি তারা, দুঃস্বপ্নের প্রতি শকুন্তলা, নীলধ্বজের প্রতি জনা)
- খ. বলাকা- রবীন্দ্রনাথ ঠাকুর (পাঠ্য পদ)  
(১, ৪, ৫, ৬, ৭, ৮, ৩৬, ৩৭, ৪৫ সংখ্যক কবিতা)
- গ. বনলতা সেন - জীবনানন্দ দাশ

### Suggested Readings:

- ১। বীরঙ্গনা কাব্য - হীরেন চট্টোপাধ্যায়
- ২। মধুসূদন ব্যক্তি ও সৃষ্টি - সুকুমার রায়
- ৩। বলাকা কাব্য পরিক্রমা - শ্রী ক্ষিতিমোহন সেন
- ৪। মধুসূদনের কবিতা ও কাব্য শিল্প - ক্ষেত্রগুপ্ত
- ৫। কবি শ্রী মধুসূদন - মোহিতলাল মজুমদার
- ৬। মধুসূদন কবি ও নাট্যকার - সুবোধ চন্দ্র সেনগুপ্ত
- ৭। কবি জীবনানন্দ দাশ - সঞ্জয় ভট্টাচার্য
- ৮। জীবনানন্দের কবিতায় জিজ্ঞাসায় বিশ্লেষণ - গোকুলানন্দ মিশ্র
- ৯। জীবনানন্দ - বীতশোক ভট্টাচার্য
- ১০। রবীন্দ্র সাহিত্যের ভূমিকা - নীহাররঞ্জন রায়

- ১১। রবীন্দ্র কাব্য পরিক্রমা - উপেন্দ্রনাথ ভট্টাচার্য
- ১২। রবিরশ্মি - চারুচন্দ্র বন্দ্যোপাধ্যায়
- ১৩। কবি মধুসূদনের বীরঙ্গনা – সত্যবতী গিরি (সম্পা.)
- ১৪। বীরঙ্গনা কাব্য – অমরেন্দ্র গণাই
- ১৫। বীরঙ্গনা কাব্যচর্চা - উজ্জ্বলকুমার মজুমদার
- ১৬। বনলতা সেন : কালে ও কালোত্তরে – (সম্পা.) লক্ষ্মণ কর্মকার
- ১৭। বীরঙ্গনা কাব্য – নির্মলেন্দু ভৌমিক

## CC-10: উপন্যাস পাঠ

Credits 06

## C10T: উপন্যাস পাঠ

### Course Contents:

- ক. কপালকুণ্ডলা – বঙ্কিমচন্দ্র চট্টোপাধ্যায়
- খ. শেষের কবিতা – রবীন্দ্রনাথ ঠাকুর
- গ. কবি – তারাশঙ্কর বন্দ্যোপাধ্যায়

### Suggested Readings:

- ১. বঙ্কিম উপন্যাসের শিল্পরূপ – ক্ষেত্র গুপ্ত
- ২. উপন্যাস সাহিত্যে বঙ্কিম – প্রফুল্লকুমার দাশগুপ্ত
- ৩. বঙ্কিম মানস – অরবিন্দ পোদ্দার
- ৪. বঙ্কিম সরণী – প্রমথনাথ বিশী
- ৫. বঙ্কিম কণিকা – সমীর সেনগুপ্ত
- ৬. বঙ্কিম ভাবনালোক – ভবতোষ দত্ত
- ৭. বঙ্কিমচন্দ্র: সৃজন ও বীক্ষণ – ভবতোষ চট্টোপাধ্যায়
- ৮. উপন্যাসতত্ত্ব ও বঙ্কিমচন্দ্র - সুধীন্দ্রনাথ ভট্টাচার্য
- ৯. তারাশঙ্করের কবি – অচিন্ত্য বিশ্বাস
- ১০. বঙ্কিমচন্দ্রের উপন্যাস – প্রফুল্ল দাশগুপ্ত
- ১১. ঔপন্যাসিক রবীন্দ্রনাথ – বীরেন্দ্র দেবনাথ
- ১২. রবীন্দ্র উপন্যাসের নির্মাণ শিল্প – গোপিকানাথ রায়চৌধুরী
- ১৩. রবীন্দ্র উপন্যাস : ইতিহাসের প্রেক্ষিতে – ভূদেব চৌধুরী
- ১৪. রবীন্দ্র উপন্যাস পরিক্রমা – অর্চনা মজুমদার
- ১৫. শেষের কবিতা : শিল্পিত জীবন – হীরেন চট্টোপাধ্যায়
- ১৬. রবীন্দ্রনাথের শেষের কবিতা- ধ্রুবকুমার মুখোপাধ্যায়
- ১৭. বাংলা উপন্যাসের কালান্তর- সরোজ বন্দ্যোপাধ্যায়
- ১৮. তারাশঙ্করের শিল্প মানস – নিতাই বসু
- ১৯. তারাশঙ্কর অনুসন্ধান – ক্ষেত্র গুপ্ত
- ২০. তারাশঙ্কর অশ্রুশা – সরোজ বন্দ্যোপাধ্যায়
- ২১. তারাশঙ্কর : দেশ-কাল – অলোক রায়

২২. তারাশঙ্কর ও রাঢ় বাংলা – রঞ্জিতকুমার মুখোপাধ্যায়
২৩. তারাশঙ্কর : সময় ও সমাজ – আদিত্য মুখোপাধ্যায়
২৪. তারাশঙ্করের উপন্যাসে সমাজ চিন্তা – শেখর দাশ

## CC-11: নাট্য পাঠ

Credits 06

### C11T: নাট্য পাঠ

#### Course Contents:

- ক. সধবার একাদশী – দীনবন্ধু মিত্র
- খ. সাজাহান – দ্বিজেন্দ্রলাল রায়
- গ. ডাকঘর – রবীন্দ্রনাথ ঠাকুর

#### Suggested Readings:

১. দীনবন্ধু মিত্রের সধবার একাদশী – নির্মলেন্দু ভৌমিক
২. দ্বিজেন্দ্রলাল- দেব কুমার রায়চৌধুরী
৩. দ্বিজেন্দ্রলাল রায়ের স্বদেশ কথা- রবীন্দ্রনাথ রায়
৪. দ্বিজেন্দ্রলাল : কবি ও নাট্যকার- রবীন্দ্রনাথ রায়
৫. দ্বিজেন্দ্রলাল রায় : জীবন ও সাহিত্য- দুর্গাশঙ্কর মুখোপাধ্যায়
৬. সাজাহান- জগন্নাথ ঘোষ (সম্পাদিত)
৭. সাজাহান- নির্মলেন্দু ভৌমিক (সম্পাদিত)
৮. রবীন্দ্রনাথ নাট্যপরিক্রমা - উপেন্দ্রনাথ বন্দ্যোপাধ্যায়
৯. রবীন্দ্র নাট্যপ্রবাহ- প্রমথনাথ বিশী
১০. নাট্য মুক্তি ও রবীন্দ্রনাথ - শেখর সমাদার
১১. রবীন্দ্রনাথের ড্র্যাজেডি চেতনা - জীবনকুমার মুখোপাধ্যায়
১২. রবীন্দ্র নাটক : আলোকিত উদ্ভাবন - কুমার রায়
১৩. রবীন্দ্র নাট্য সাহিত্যের ভূমিকা - সাধনকুমার ভট্টাচার্য
১৪. দীনবন্ধু মিত্রের সধবার একাদশী- সম্পা. অজিতকুমার ঘোষ
১৫. ডাকঘর - সৌমিত্র বসু (সম্পাদিত)
১৬. রবীন্দ্রনাটে কবি রবীন্দ্রনাথ – শ্রুতিনাথ চক্রবর্তী
১৭. রবীন্দ্রনাথ ও কাব্য পরিক্রমা – অজিত চক্রবর্তী
১৮. দ্বিজেন্দ্রলাল রায়ের সাহিত্য ও শিল্পী মানস - দুর্গাশঙ্কর মুখোপাধ্যায়
১৯. দীনবন্ধু মিত্র : কবি ও নাট্যকার- মিহিরকুমার দাশ
২০. দীনবন্ধু মিত্র- সুশীলকুমার দে

## CC-12: কাব্যতত্ত্ব, পাশ্চাত্য সাহিত্য সমালোচনা-তত্ত্ব ও সাহিত্যের রূপরীতি

Credits 06

### C12T: কাব্যতত্ত্ব, পাশ্চাত্য সাহিত্য সমালোচনা-তত্ত্ব ও সাহিত্যের রূপরীতি

#### Course Contents:



- ক. কাব্য জিঞ্জাসা (রস ও ধ্বনি) - অতুলচন্দ্র গুপ্ত  
 খ. ক্লাসিসিজম্, রোমান্টিসিজম্, সুররিয়ালিজম্, রিয়ালিজম্, সিম্বলিজম্  
 গ. মহাকাব্য, ট্রাজেডি, কমেডি, ফার্স(প্রহসন), লিরিক, এলিজি, ওড, আঞ্চলিক উপন্যাস, মনস্তাত্ত্বিক উপন্যাস, ঐতিহাসিক উপন্যাস।

### Suggested Readings:

১. সাহিত্য বিবেক - বিমলকুমার মুখোপাধ্যায়
২. কাব্যতত্ত্ব বিচার - দুর্গাশংকর মুখোপাধ্যায়
৩. প্রাচ্য ও পাশ্চাত্য সাহিত্যতত্ত্ব ও সাহিত্য রূপের অভিধান — আকরাম হোসেন
৪. ভারতীয় কাব্যতত্ত্ব — অবন্তীকুমার সান্যাল
৫. নন্দনের আলোকরেখা: কাব্যজিঞ্জাসা — রামজীবন আচার্য
৬. কাব্যপ্রকাশ – সুরেন্দ্রনাথ দাশগুপ্ত
৭. সাহিত্য বিচার: তত্ত্ব ও প্রয়োগ— বিমলকুমার মুখোপাধ্যায়
৮. পাশ্চাত্য সাহিত্যতত্ত্ব ও সাহিত্য ভাবনা — নবেন্দু সেন
৯. প্রতীচ্যের সাহিত্যতত্ত্ব — তপোধীর ভট্টাচার্য
১০. সাহিত্যতত্ত্ব, সাহিত্য প্রসঙ্গ ও সমালোচনা বিচিত্রা— দুর্গাশঙ্কর মুখোপাধ্যায়
১১. সাহিত্য সংস্কা অভিধান— বদিউর রহমান
১২. ভারতীয় নন্দনতত্ত্ব – তপোধীর ভট্টাচার্য
১৩. সাহিত্য ও সমালোচনার রূপরীতি - উজ্জ্বলকুমার মজুমদার
১৪. সাহিত্য প্রকরণ - হীরেন চট্টোপাধ্যায়
১৫. সাহিত্যের রূপ ও রীতি - দিলীপকুমার রায়
১৬. সাহিত্যের রূপভেদ ও রূপরীতি- সত্যচরণ চট্টোপাধ্যায়
১৭. সাহিত্যের রূপরীতি - কুল্লল চট্টোপাধ্যায়
১৮. সাহিত্যের রূপভেদ ও রূপরীতি নির্ণয়- সুধাংশুশেখর মন্ডল
১৯. কাব্যালোক – সুধীর দাশগুপ্ত
২০. রসসমীক্ষা – রমারঞ্জন মুখোপাধ্যায়
২১. A Glossary of Literary Terms – M.K. Abrams
২২. A History of Literary Criticism – Rafey Habib
২৩. A short history of literary criticism – Vernon Hall
২৪. Literary Criticism: A short history – William Kurtz Wimsatt

**CC-13: লোকসাহিত্য**

**Credits 06**

**C13T: লোকসাহিত্য**

### Course Contents:

- ক. লোকসাহিত্যের সংস্কা, স্বরূপ, বৈশিষ্ট্য।  
 ছড়া, ধাঁধা, প্রবাদ, লোককথা, লোকগীতি, লোকনাটক সম্পর্কিত আলোচনা  
 খ. মহায়া পালা( মৈমনসিংহ গীতিকা)

গ. বাংলার ব্রত – অবনীন্দ্রনাথ ঠাকুর

### Suggested Readings:

১. বাংলা লোকসাহিত্য - আশুতোষ ভট্টাচার্য
২. রবীন্দ্রনাথের লোকসাহিত্য – সনৎ কুমার মিত্র
৩. লোকসংস্কৃতির তত্ত্বরূপ ও স্বরূপ সন্ধান – তুষার চট্টোপাধ্যায়
৪. লোকসংস্কৃতির সীমানা ও স্বরূপ – পল্লব সেনগুপ্ত
৫. বঙ্গীয় লোকসংস্কৃতি কোষ – ড. বরুণকুমার চক্রবর্তী (সম্পাদিত)
৬. লোকসংস্কৃতি - অনিমেষকান্তি পাল
৭. লোকসাহিত্য পাঠ - মানস মজুমদার
৮. ফোকলোর : পরিচিতি ও পঠন-পাঠন - ময়হারুল ইসলাম
৯. লোকসংস্কৃতির তত্ত্ব জিজ্ঞাসা - ড. সৌমেন সেন
১০. বিশ্বায়ন ও লোকসংস্কৃতি – ড. ক্ষেত্র গুপ্ত
১১. বাংলা ধাঁধার ভূমিকা - নির্মলেন্দু ভৌমিক
১২. বাংলা ধাঁধার বিষয় বৈচিত্র্য ও সামাজিক পরিচয় – ড. শীলা বসাক
১৩. বিহঙ্গ - চারণা (লোকগীতি) - নির্মলেন্দু ভৌমিক
১৪. উত্তরবঙ্গের লোকগীতি – শিশিরকুমার মজুমদার
১৫. অবনীন্দ্রনাথ ও বাংলার ব্রত – নির্মলেন্দু ভৌমিক
১৬. বাংলার লোকনৃত্য – মহয়া মুখোপাধ্যায়
১৭. ভারতের লোকনাট্য – ধ্রুব দাস
১৮. বাংলার লোকনাট্য – সনৎ কুমার মিত্র(সম্পাদিত)
১৯. আদিবাসী লোককথা সংগ্রহ – দিব্যজ্যোতি মজুমদার
২০. বাংলার ব্রত ও অন্যান্য – (সম্পা.) সনৎ মিত্র
২১. মৈমনসিংহ-গীতিকা : পুনর্বিচার – মুনমুন চট্টোপাধ্যায়
২২. বাংলার ছড়া : ছড়ার বাংলা - (সম্পা.) সৌগত চট্টোপাধ্যায়
২৩. লোককথার বর্ণমালা - (সম্পা.) সৌগত চট্টোপাধ্যায়
২৪. বাংলার ব্রত ও অবনীন্দ্রনাথ - সৌগত চট্টোপাধ্যায়

CC-14: সংস্কৃত, ইংরেজি ও প্রতিবেশী সাহিত্যের ইতিহাস

Credits 06

C14T: সংস্কৃত, ইংরেজি ও প্রতিবেশী সাহিত্যের ইতিহাস

### Course Contents:

- ক. সংস্কৃত সাহিত্যের ইতিহাস  
(বৈদিক সাহিত্য, রামায়ণ, মহাভারত, কালিদাস, অশ্বঘোষ, ভাস)
- খ. ইংরেজি সাহিত্যের ইতিহাস  
(সেক্সপীয়ার, ওয়ার্ডসওয়ার্থ, চার্লস ডিকেন্স, বায়রণ, শেলী, টি.এস.এলিয়ট)
- গ. অন্যান্য প্রতিবেশী সাহিত্যের ইতিহাস  
হিন্দি ভক্তি সাহিত্য, প্রেমচন্দ, মহাদেবী বর্মা, ফকির মোহন সেনাপতি, রমাকান্ত রথ, কালিন্দীচরণ পানিগ্রাহী, লক্ষ্মীকান্ত বেজবড়ুয়া, রজকান্ত বরদলৈ, বিরিশ্বিকুমার বড়ুয়া।



### Suggested Readings:

১. সংস্কৃত সাহিত্যের ইতিহাস – ত্রৈলোক্যনাথ ভট্টাচার্য
২. সংস্কৃত সাহিত্যের ইতিহাস – গৌরীনাথ শাস্ত্রী
৩. সংস্কৃত সাহিত্য পরিক্রমা – করুণাসিন্ধু দাস
৪. সংস্কৃত সাহিত্যের ইতিহাস – ধীরেন্দ্রনাথ বন্দ্যোপাধ্যায়
৫. সংস্কৃত সাহিত্যের দশরত্ন – সুখেন্দুসুন্দর গঙ্গোপাধ্যায়
৬. সংস্কৃত সাহিত্যের রূপরেখা – বিমানচন্দ্র ভট্টাচার্য
৭. সংস্কৃত সাহিত্যের রূপরেখা – বিমানবিহারী ভট্টাচার্য
৮. সংস্কৃত সাহিত্যের রূপরেখা – নৃসিংহ প্রসাদ ভাদুড়ী
৯. সংস্কৃত সাহিত্যের ইতিহাস – সুকুমারী ভট্টাচার্য
১০. ভারতীয় আর্য-সাহিত্যের ইতিহাস – সুকুমার সেন
১১. A History of English Literature – David Daiches
১২. The Short Oxford History of English Literature – A. sSnders
১৩. ইংরেজি সাহিত্যের ইতিহাস – কুন্ডল চট্টোপাধ্যায়
১৪. প্রেমচন্দ-উপন্যাস ও গল্প – রামবহাল তেওয়ারী
১৫. আধুনিক হিন্দি সাহিত্য – গতি ও প্রকৃতি(১ম ও ২য় খণ্ড) –
১৬. হিন্দি সাহিত্যের ইতিহাস - রামবহাল তেওয়ারী
১৭. ওড়িয়া সাহিত্য – প্রিয়রঞ্জন সেন
১৮. Idea of Comparative Literature in India – Amiya Deb
১৯. অসমিয়া সাহিত্যের ইতিহাস – বিরিশি কুমার বড়ুয়া
২০. প্রগতি ভাবনা- বাংলা কবিতা ও ওড়িয়া কবিতা- মৃগালকান্তি দাস
২১. ওড়িয়া সাহিত্যের সংক্ষিপ্ত ইতিহাস- নটবর সামন্তরায়
২২. আধুনিক ওড়িয়া কাব্যধারা- নরেন্দ্রনাথ মিশ্র

### **Discipline Specific Elective (DSE)**

#### DSE-1: প্রাচীন সাহিত্যতত্ত্ব ও সাহিত্যতাত্ত্বিক

Credits 06

#### DSE1T: প্রাচীন সাহিত্যতত্ত্ব ও সাহিত্যতাত্ত্বিক

#### Course Contents:

১. প্রাচীন মতানুসারে কাব্যের রূপ-রীতি, নাট্যতত্ত্ব
২. রীতি, অলংকার, গুণ, ঔচিত্য ও বক্রোক্তি
৩. ভরত, ভামহ, বামন, দণ্ডী, আনন্দবর্ধন, অভিনব গুপ্ত, বিশ্বনাথ কবিরাজ

#### Suggested Readings:

১. সাহিত্য বিবেক- বিমলকুমার মুখোপাধ্যায়
২. কাব্যতত্ত্ব বিচার – দুর্গাশঙ্কর মুখোপাধ্যায়
৩. প্রাচ্য ও পাশ্চাত্য সাহিত্যতত্ত্ব ও সাহিত্য রূপের অভিধান — আকরাম হোসেন
৪. ভারতীয় কাব্যতত্ত্ব— অবন্তী কুমার সান্যাল

৫. নন্দনের আলোকরেখা: কাব্যজিজ্ঞাসা — রামজীবন আচার্য
৬. সমালোচনা সাহিত্য – শ্রীকুমার বন্দ্যোপাধ্যায় ও প্রফুল্ল পাল
৭. সাহিত্য বিচার: তত্ত্ব ও প্রয়োগ— বিমলকুমার মুখোপাধ্যায়
৮. কাব্য বিচার – সুরেন্দ্রনাথ দাশগুপ্ত
৯. ভারতীয় কাব্যতত্ত্ব – অবন্তীকুমার সাগ্যাল
১০. সাহিত্যতত্ত্ব, সাহিত্য প্রসঙ্গ ও সমালোচনা-বিচিত্রা — দুর্গাশঙ্কর মুখোপাধ্যায়
১১. কাব্যতত্ত্ব – জীবেন্দ্র সিংহ রায়
১২. ভারতীয় নন্দনতত্ত্ব – তপোধীর ভট্টাচার্য
১৩. সাহিত্য ও সমালোচনার রূপরীতি- উজ্জ্বলকুমার মজুমদার
১৪. সাহিত্য-প্রকরণ - হীরেন চট্টোপাধ্যায়
১৫. সাহিত্যের রূপ ও রীতি- দিলীপকুমার রায়
১৬. সাহিত্যের রূপভেদ ও রূপরীতি- সত্যচরণ চট্টোপাধ্যায়
১৭. সাহিত্যের রূপরীতি- কুন্তল চট্টোপাধ্যায়
১৮. সাহিত্যের রূপভেদ ও রূপরীতি নির্ণয়- সুধাংশুশেখর মন্ডল
১৯. কাব্যালোক – সুধীর দাশগুপ্ত
২০. রসসমীক্ষা – রমারঞ্জন মুখোপাধ্যায়

## অথবা

### DSE-1: বাংলা সাহিত্যে প্রভাব

Credits 06

### DSE1T: বাংলা সাহিত্যে প্রভাব

#### Course Contents:

- ক. বাংলা সাহিত্যে সংস্কৃত সাহিত্যের প্রভাব  
বেদ-উপনিষদ, পুরাণ, কালিদাস
- খ. বাংলা সাহিত্যে ইউরোপীয় সাহিত্যের প্রভাব  
শেক্সপিয়ার, মলিয়ার, স্কট, বোদলেয়ার, চার্লস ল্যাঙ্গ, টি.এস.এলিয়ট
- গ. বাংলা সাহিত্যিকদের উপর বাংলা লোকসাহিত্যের প্রভাব  
রবীন্দ্রনাথ, অবনীন্দ্রনাথ ঠাকুর, উপেন্দ্রকিশোর রায় চৌধুরী, ত্রৈলোক্যনাথ মুখোপাধ্যায়, বিভূতিভূষণ বন্দ্যোপাধ্যায়, তারশঙ্কর বন্দ্যোপাধ্যায়

#### Suggested Readings:

১. বাংলা কাব্যে পাশ্চাত্য প্রভাব - উজ্জ্বলকুমার মজুমদার
২. আধুনিক বাংলা কবিতায় ইউরোপীয় প্রভাব - মঞ্জুভাষ মিত্র
৩. প্রতীচ্য প্রেরণা ও কল্লোলীয় সাহিত্য - গোকুলানন্দ মিশ্র
৪. সংস্কৃতানুশীলনে রবীন্দ্রনাথ -সুখময় ভট্টাচার্য
৫. রবীন্দ্রসাহিত্যে সংস্কৃত সাহিত্যের প্রভাব -কল্যাণী শঙ্কর ঘটক
৬. প্রাচীন ভারতীয় সাহিত্য অনুপ্রাণনায় পাঁচজন আধুনিক কবি – বাণী রঞ্জন দে
৭. রবীন্দ্রনাথ ও লোকসংস্কৃতি – সুভাষ মুখোপাধ্যায়
৮. অবনীন্দ্রনাথের শিল্পতত্ত্ব – সত্যেন্দ্রনাথ রায়

৯. বাংলা উপন্যাসে লৌকিক উপাদান – সুভাষ মুখোপাধ্যায়

অথবা

**DSE-1:** সাহিত্য আন্দোলন, সমালোচনা ও রূপরীতি

**Credits 06**

**DSE1T:** সাহিত্য আন্দোলন, সমালোচনা ও রূপরীতি

**Course Contents:**

ক. আন্দোলন :

মডার্নিজম, পোস্ট মডার্নিজম, ফেমিনিজম, এক্সপ্রেশানিজম, ইমপ্রেশানিজম, অ্যাবসার্ডিজম

খ. সমালোচনা :

মিথ ক্রিটিকিজম, আর্কেটাইপাল ক্রিটিকিজম, হিস্টোরিক্যাল ক্রিটিকিজম, কম্পারেটিভ ক্রিটিকিজম।

গ. রীতি :

সনেট, ব্যালাড, চেতনাপ্রবাহমূলক উপন্যাস, আত্মজীবনীমূলক উপন্যাস, মেলোড্রামা, নৃত্যনাট্য, কাব্যনাট্য, নাট্যকাব্য।

**Suggested Readings:**

১. সাহিত্যের রূপ-রীতি ও অন্যান্য প্রসঙ্গ - কুন্তল চট্টোপাধ্যায়
২. বাংলা সাহিত্যের নানা দিক – শুদ্ধস্ব বসু
৩. বাংলা কাব্যে রূপ ও রীতি – ক্ষুদিরাম দাস
৪. সাহিত্যের রূপ শিল্প – অপূর্ব রায়
৫. সাহিত্য-সন্দর্শন – শ্রীশচন্দ্র দাশ
৬. A Glossary of Literary Terms – M.K. Abrams
৭. A History of Literary Criticism – Rafey Habib
৮. A short history of literary criticism – Vernon Hall
৯. Literary Criticism : A short history – William Kurtz Wimsatt
১০. সাহিত্যের রূপ-রীতি – উজ্জ্বলকুমার মজুমদার
১১. সাহিত্যের রূপভেদ : রূপরীতি – সত্যচরণ চট্টোপাধ্যায়
১২. Literary Criticism: A short history – William k. Wimsatt, JR. Cleanth Brooks

**DSE-2:** জীবনী সাহিত্য ও পত্র সাহিত্য

**Credits 06**

**DSE2T:** জীবনী সাহিত্য ও পত্র সাহিত্য

**Course Contents:**

১. রবীন্দ্রনাথের ছিন্নপত্র (নির্বাচিত অংশ)  
(১৬, ৩০, ৪৯, ৮০, ৯২, ১০২, ১০৩, ১০৬, ১১৫)
২. আপন কথা – অবনীন্দ্রনাথ ঠাকুর
৩. তৃণাকুর – বিভূতিভূষণ বন্দ্যোপাধ্যায়

### Suggested Readings:

১. চিঠিপত্রে রবীন্দ্রনাথ – শৌরীন্দ্রমোহন রায়চৌধুরী
২. বিভূতিভূষণ জীবন ও সাহিত্য - সুনীল কুমার চট্টোপাধ্যায়
৩. বিভূতিভূষণ জীবন ও শিল্প - গোপিকানাথ রায়চৌধুরী
৪. অবনীন্দ্রনাথ : সৃষ্টি সমীক্ষা – সরোজ বন্দ্যোপাধ্যায়
৫. বাংলা সাহিত্যে আত্মজীবনী - সোমেন্দ্রনাথ বসু
৬. বাংলা পত্রোপন্যাস – অতুলকুমার দাশ
৭. রবীন্দ্রনাথের পত্রধারা : ছিন্নপত্র ও অন্যান্য - সোমেন্দ্রনাথ সরকার

### অথবা

**DSE-2: বাংলা বিতর্কমূলক, সৌন্দর্যতত্ত্বমূলক এবং বিজ্ঞানচেতনামূলক গ্রন্থপাঠ**

**Credits 06**

**DSE2T: বাংলা বিতর্কমূলক, সৌন্দর্যতত্ত্বমূলক এবং বিজ্ঞানচেতনামূলক গ্রন্থপাঠ**

### Course Contents:

- ক. রজবিলাস – ঈশ্বরচন্দ্র বিদ্যাসাগর
- খ. বাগেশ্বরী শিল্প প্রবন্ধাবলী – অবনীন্দ্রনাথ ঠাকুর  
(দৃষ্টি ও সৃষ্টি, শিল্প ও ভাষা, সৌন্দর্যের সন্ধান, অন্তর বাহির, অসুন্দর, অরূপ না রূপ)
- গ. অব্যক্ত – জগদীশচন্দ্র বসু

### Suggested Readings:

১. অবনীন্দ্র-নন্দনতন্ত্র – সত্যজিৎ চৌধুরী
২. বিদ্যাসাগর – চণ্ডীচরণ বন্দ্যোপাধ্যায়
৩. অব্যক্ত – সম্পা. চারুচন্দ্র ভট্টাচার্য
৪. বাংলা সাহিত্যে বিদ্যাসাগর – অসিতকুমার বন্দ্যোপাধ্যায়
৫. বিদ্যাসাগর ও বাঙালী সমাজ – বিনয় ঘোষ
৬. রসমাগর বিদ্যাসাগর – শঙ্করীপ্রসাদ বসু
৭. অবনীন্দ্রনাথ সংখ্যা – পশ্চিমবঙ্গ (তথ্য ও সংস্কৃতি বিভাগ)
৮. বিজ্ঞানসাধক আচার্য জগদীশচন্দ্র– সম্পা. সুদীপ বসু ও অশোক উপাধ্যায়

### অথবা

**DSE-2: বাংলা ছোটগল্প, ভ্রমণ কাহিনি ও গোয়েন্দা কাহিনি পাঠ**

**Credits 06**

**DSE2T: বাংলা ছোটগল্প, ভ্রমণ কাহিনি ও গোয়েন্দা কাহিনি পাঠ**

### Course Contents:

- ক. রসময়ীর রসিকতা – প্রভাতকুমার মুখোপাধ্যায়  
বেদেনী – তারাশঙ্কর বন্দ্যোপাধ্যায়



- প্রাগৈতিহাসিক – মানিক বন্দ্যোপাধ্যায়  
 হয়তো – প্রমেন্দ্র মিত্র  
 অশ্বমেধের ঘোড়া – দীপেন বন্দ্যোপাধ্যায়  
 খ. মরুতীর্থ হিংলাজ – কালিকানন্দ অবধূত  
 গ. সজারুর কাঁটা – শরদিন্দু বন্দ্যোপাধ্যায়

### Suggested Readings:

১. বাংলা ছোটগল্প : প্রসঙ্গ ও প্রকরণ - বীরেন্দ্র দত্ত
২. বাংলা ছোটগল্প – ভূদেব চৌধুরী
৩. বাংলা ছোটগল্প – শিশির কুমার দাস
৪. বাংলা গল্প বিচিত্রা – নারায়ণ গঙ্গোপাধ্যায়
৫. ছোটগল্পে ত্রয়ী – বিশ্ববন্ধু ভট্টাচার্য
৬. প্রমেন্দ্র মিত্র ও আধুনিক বাংলা সাহিত্য - তরুণ মুখোপাধ্যায় ও শীতল চৌধুরী
৭. ক্রাইম কাহিনীর কাল-ক্রান্তি – সুকুমার সেন
৮. তারাশঙ্করের শিল্পীমানস – নিতাই বসু
৯. মানিক বন্দ্যোপাধ্যায়ের জীবনদৃষ্টি ও শিল্পরীতি – গোপিকানাথ রায়চৌধুরী
১০. মানিক বন্দ্যোপাধ্যায়ের জীবন ও সাহিত্য – সরোজমোহন মিত্র
১১. মানিকের ছোটগল্প : শিল্পীর নবজন্ম – আশিষ কুমার দে
১২. তারাশঙ্কর সাহিত্য সমীক্ষা – গৌরমোহন রায়
১৩. প্রভাত মুখোপাধ্যায় জীবন ও সাহিত্য – ড. শিবেশকুমার চট্টোপাধ্যায়
১৪. বাংলা ভ্রমণ সাহিত্যে মুক্তচিন্তা – পার্থ চট্টোপাধ্যায়
১৫. ছোটগল্পের রূপশিল্পী – ড. রামরঞ্জন রায়
১৬. প্রমেন্দ্র মিত্রের ছোটগল্প মননে ও সৃজনে – অনিন্দিতা বন্দ্যোপাধ্যায়
১৭. কথাশিল্পী শরদিন্দু : মন ও শিল্প- প্রমীলা ভট্টাচার্য
১৮. শরদিন্দু বন্দ্যোপাধ্যায় – নিতাই বসু
১৯. ব্র্যামকেশ শরদিন্দু : শরদিন্দুর ব্র্যামকেশ – বিবেক সিংহ

### অথবা

DSE-2: বাংলা রঙ্গমঞ্চ, সাময়িকপত্র ও অনুবাদ সাহিত্যের ইতিহাস Credits 06

DSE2T: বাংলা রঙ্গমঞ্চ, সাময়িকপত্র ও অনুবাদ সাহিত্যের ইতিহাস

### Course Contents:

- ক. বাংলা রঙ্গমঞ্চের ইতিহাস
- খ. বাংলা সাময়িকপত্রের ইতিহাস
- গ. বাংলা অনুবাদ সাহিত্যের ইতিহাস

### Suggested Readings:

১. বাংলা থিয়েটারের ইতিহাস – দর্শন চৌধুরী
২. বাংলা নাট্যমঞ্চের রূপ-রেখা – দুর্গাশঙ্কর মুখোপাধ্যায়

৩. বাংলা রঙ্গ মঞ্চের রূপ-রেখা – অশোককুমার মিশ্র
৪. বাংলা রঙ্গালয়ের ইতিহাসের উপাদান – শঙ্কর ভট্টাচার্য
৫. সংস্কৃত সাহিত্যের অনুবাদ ধারা – সাবিত্রী দে
৬. বাংলা সংবাদপত্র ও বাঙ্গালীর নবজাগরণ – পার্থ চট্টোপাধ্যায়
৭. বাংলা সাময়িক পত্র – ব্রজেন্দ্রনাথ বন্দ্যোপাধ্যায়
৮. মঞ্চ অভিনয়, নাট্যকলা ও রবীন্দ্রনাথ – পুলিন দাস
৯. বঙ্গরঙ্গমঞ্চ ও বাংলা নাটক - পুলিন দাস
১০. নাট্যমঞ্চ ও নাট্যরূপ – পবিত্র সরকার
১১. বাংলা থিয়েটারে সামাজিক ও রাজনৈতিক নাটক – দীপক পোদ্দার
১২. নাট্যতত্ত্ব ও নাট্যমঞ্চ – অজিতকুমার ঘোষ
১৩. বাংলা সাময়িক পত্র-পত্রিকার ক্রমবিকাশ পঞ্জি – অশোককুমার রায়

### DSE-3: গদ্য সাহিত্য পার্ট

Credits 06

### DSE3T: গদ্য সাহিত্য পার্ট

#### Course Contents:

- ক. আলালের ঘরের দুলাল- গ্যারীচাঁদ মিত্র
- খ. কমলাকান্তের দপ্তর(নির্বাচিত) – বঙ্কিমচন্দ্র চট্টোপাধ্যায়  
(আমার মন, পতঙ্গ, আমার দুর্গোৎসব, একটি গীত, বিড়াল)
- গ. পঞ্চতন্ত্র (নির্বাচিত) - সৈয়দ মুজতবা আলী  
(বই কেনা, ইন্টারভ্যু, বিষ্ণু শর্মা, ঐতিহাসিক উপন্যাস)

#### Suggested Readings:

১. বাংলা গদ্যের পদাঙ্ক – বিজিত দত্ত
২. গ্যারীচাঁদ মিত্র ও সমকালীন বাংলা – সৌরিন্দ্রকুমার ঘোষ
৩. বঙ্কিম মানস – অরবিন্দ পোদ্দার
৪. বঙ্কিম সরনী – প্রমথনাথ বিশী
৫. বঙ্কিম কণিকা – সমীর সেনগুপ্ত
৬. বঙ্কিম ভাবনালোক – ভবতোষ দত্ত
৭. বঙ্কিমচন্দ্র : সৃজন ও বীক্ষণ – ভবতোষ চট্টোপাধ্যায়
৮. কমলাকান্তের দপ্তর – ভবানীগোপাল সান্যাল
৯. মুজতবা আলী জীবন ও সাহিত্য – স্বাতী ভট্টাচার্য
১০. মজলিশী মুজতবা – কোরক পত্রিকা

অথবা

### DSE-3: কাব্য সাহিত্য পার্ট

Credits 06

## DSE3T: কাব্য সাহিত্য পাঠ

### Course Contents:

- ক. বিস্মরনী – মোহিতলাল মজুমদার
- খ. পারাপার- অমিয় চক্রবর্তী
- গ. যৌবন বাউল – অলোকরঞ্জন দাশগুপ্ত

### Suggested Readings:

১. কালের পুতুল – বুদ্ধদেব বসু
২. মোহিতলালের কাব্য ও কবিমানস – দুর্গাশঙ্কর মুখোপাধ্যায়
৩. কবি অমিয় চক্রবর্তী – সুমিতা চক্রবর্তী
৪. অমিয় চক্রবর্তীর পারাপার ও কবিমন – গোকুলানন্দ মিশ্র
৫. কালের প্রতিমা - অরুণ মুখোপাধ্যায়
৬. আধুনিক কবিতা ভাবনা ও অনুভাবনা – শ্রুতিনাথ চক্রবর্তী
৭. কাব্যের মুক্তি ও তারপর – দেবীপ্রসাদ বন্দ্যোপাধ্যায়
৮. আধুনিক কবিতার ইতিহাস – অলোকরঞ্জন দাশগুপ্ত ও দেবীপ্রসাদ বন্দ্যোপাধ্যায়
৯. আধুনিক বাংলা কাব্য পরিচয় - দীপ্তি ত্রিপাঠী
১০. মোহিতলাল মজুমদার : সাহিত্য ও ব্যক্তি প্রতিভা – দ্বিজেন্দ্রলাল নাথ
১১. আমার কালের কয়েকজন কবি – জগদীশ ভট্টাচার্য

অথবা

## DSE-3: নাট্য সাহিত্য পাঠ

Credits 06

## DSE3T: নাট্য সাহিত্য পাঠ

### Course Contents:

- ক. সাজাহান – দ্বিজেন্দ্রলাল রায়
- খ. সাজানো বাগান – মনোজ মিত্র
- গ. একাক্ষ নাটক
  - শিককাবাব – বনফুল
  - রাজপুরী – মন্মথ রায়
  - চৌরানন্দ – তুলসী লাহিড়ী
  - এক পশলা বৃষ্টি – ধনঞ্জয় বৈরাগী
  - সরীসৃপ – বিধায়ক ভট্টাচার্য

### Suggested Readings:

১. একাক্ষ নাটকের রূপ-রেখা(সম্পাদিত) - সরোজ মোহন মিত্র
২. দ্বিজেন্দ্রলাল কবি ও নাট্যকার – রথীন্দ্রনাথ রায়
৩. নাট্যতত্ত্ব বিচার – দুর্গাশঙ্কর মুখোপাধ্যায়
৪. বাংলা নাট্যসাহিত্যের ইতিহাস – আশুতোষ ভট্টাচার্য

৫. বাংলা নাটকের বিবর্তন – সুরেশচন্দ্র মৈত্র
৬. একাঙ্ক নাটক প্রয়োগ ও বিচার – তপন ঘোষাল
৭. দ্বিজেন্দ্রলাল রায় স্মরণ বিস্মরণ – সুধীর চক্রবর্তী
৮. দ্বিজেন্দ্রলালের সাজাহান – রথীন্দ্রনাথ রায়
৯. দ্বিজেন্দ্রলাল রায়ের সাজাহান – সুকুমার বন্দ্যোপাধ্যায়
১০. রবীন্দ্রোত্তর বাংলা নাটক – জগন্নাথ ঘোষ

## DSE-4: রবীন্দ্রসাহিত্য পাঠ

Credits 06

## DSE4T: রবীন্দ্রসাহিত্য পাঠ

### Course Contents:

- ১। সে
- ২। মুক্তধারা
- ৩। নির্বাচিত কবিতা- নির্ঝরের স্বপ্নভঙ্গ, সোনারতরী, বধু, স্বর্গ হইতে বিদায়, রূপ সাগরে ডুব দিয়েছি(৪৭ সংখ্যক, গীতাঞ্জলি), সাধারণ মেয়ে।

### Suggested Readings:

১. রবীন্দ্র ছোটগল্পের শিল্পরূপ - তপোব্রত ঘোষ
২. রবীন্দ্র নাটকের ট্র্যাজিডি – সোমেন্দ্রনাথ বসু
৩. রবীন্দ্র নাট্য সমীক্ষা রূপক-সাংকেতিক - দুর্গা শংকর মুখোপাধ্যায়
৪. রবীন্দ্র সাহিত্যের ভূমিকা - নীহাররঞ্জন রায়
৫. রবীন্দ্রনাথের রূপক নাট্য - শান্তি কুমার দাশগুপ্ত
৬. রবীন্দ্রনাথকে কবি রবীন্দ্রনাথ - সতীনাথ চক্রবর্তী
৭. কথা কবিতা রবীন্দ্রনাথ - নারায়ণ গঙ্গোপাধ্যায়
৮. কালের মাত্রা ও রবীন্দ্র নাটক - শঙ্খ ঘোষ
৯. রবীন্দ্র কাব্য পরিক্রমা - উপেন্দ্রনাথ ভট্টাচার্য
১০. রবিরশ্মি - চারুচন্দ্র বন্দ্যোপাধ্যায়
১১. রবীন্দ্র নাট্যপ্রবাহ - প্রমথনাথ বিশী
১২. রবীন্দ্র সরণি - প্রমথনাথ বিশী
১৩. রবীন্দ্র মানুষ - অরবিন্দ পোদ্দার
১৪. রবীন্দ্রনাথের উত্তর কাব্য - শিশির কুমার ঘোষ
১৫. রবীন্দ্রনাথের মুক্তধারা – ধুবকুমার মুখোপাধ্যায়

অথবা

## DSE-4: উপন্যাস সাহিত্য পাঠ

Credits 06

## DSE4T: উপন্যাস সাহিত্য পাঠ





### Course Contents:

- ক. পুতুল নাচের ইতিকথা – মানিক বন্দ্যোপাধ্যায়
- খ. তুঙ্গভদ্রার তীরে – শরদিন্দু বন্দ্যোপাধ্যায়
- গ. টানাপোড়েন – সমরেশ বসু

### Suggested Readings:

১. বঙ্গ সাহিত্যে উপন্যাসের ধারা - শ্রীকুমার বন্দ্যোপাধ্যায়
২. বাংলা উপন্যাসের কালালুর - সরোজ বন্দ্যোপাধ্যায়
৩. বাংলা উপন্যাসের ইতিহাস (প্রথম থেকে সপ্তম খন্ড) – ক্ষেত্র গুপ্ত
৪. বাংলা উপন্যাস সমীক্ষা - বীতশোক ভট্টাচার্য
৫. মানিক বন্দ্যোপাধ্যায়ের জীবন-দৃষ্টি ও শিল্পরীতি - গোপিকানাথ রায় চৌধুরী
৬. মানিক বন্দ্যোপাধ্যায়ের জীবন ও শিল্প - সরোজ মোহন মিত্র
৭. সমরেশ বসু: স্মরণ-সমীক্ষণ – সত্যজিৎ চৌধুরী ও অন্যান্য
৮. সমরেশ বসু: জীবন ও সাহিত্য – অমল হোড়
৯. সমরেশ বসু: সময় চিহ্ন – পার্থপ্রতিম বন্দ্যোপাধ্যায়
১০. রমণীয় শরদিন্দু – ক্ষেত্রগুপ্ত
১১. কথাগঠন – অনিন্দ্য ভট্টাচার্য

### অথবা

### DSE-4: প্রকৃতিচেতনামূলক, জাতীয়তামূলক ও বিশ্বমানবতামূলক সাহিত্যপাঠ

Credits 06

### DSE4T: প্রকৃতিচেতনামূলক, জাতীয়তামূলক ও বিশ্বমানবতামূলক সাহিত্যপাঠ

### Course Contents:

- ক. নবজাতক – রবীন্দ্রনাথ ঠাকুর
- খ. পলাশীর যুদ্ধ – নবীনচন্দ্র সেন
- গ. আরণ্যক – বিভূতিভূষণ বন্দ্যোপাধ্যায়

### Suggested Readings:

১. রবীন্দ্রকাব্য পরিক্রমা – উপেন্দ্রনাথ ভট্টাচার্য
২. রবীন্দ্র কাব্য প্রবাহ – প্রমথনাথ বিশী
৩. নবজাতক সমীক্ষা – গোকুলানন্দ মিশ্র
৪. আরণ্যক : নানা চোখে – (সম্পা) তরুণ বন্দ্যোপাধ্যায়
৫. আরণ্যকের অনন্যতা - (সম্পা) তাপস বসু
৬. বিভূতিভূষণের আরণ্যক – সমরেশ মজুমদার
৭. নবীনচন্দ্র সাহিত্য ও সাধনা – শান্তি চট্টোপাধ্যায়

**Course Contents:**

- ক. বাংলা সাহিত্যের চলচ্চিত্রায়ন
- খ. বাংলা ক্রীড়া সাহিত্য
- গ. বাংলা সাহিত্য ও চিত্রকলা

**Suggested Readings:**

১. চলচ্চিত্র কথা- তানভীর মোকাম্মেল
২. চলচ্চিত্র দর্পণে রবীন্দ্রনাথ- ভুবনেশ্বর বন্দ্যোপাধ্যায়
৩. চলচ্চিত্রের রবীন্দ্ররচনা - কমল সাহা
৪. মতি নন্দী সংখ্যা – কল্যাণ মজুমদার (সম্পা.)
৫. খেলা সংগ্রহ (মতি নন্দী) – অতীক চট্টোপাধ্যায় (সম্পা.)
৬. চিত্র সমালোচনা – উত্তম চৌধুরী
৭. চিত্রদর্শন – অলোক মুখোপাধ্যায়
৮. ভারতীয় প্রাচীন চিত্রকলা - সুরেন্দ্রনাথ দাশগুপ্ত
৯. বাংলা চিত্রকলা – অশোক ভট্টাচার্য
১০. ছবি কাকে বলে – অশোক মিত্র
১১. বিষয় চলচ্চিত্র – সত্যজিৎ রায়
১২. বাংলা চলচ্চিত্র ও বাংলা সাহিত্য – নিশীথ কুমার মুখোপাধ্যায়

**Skill Enhancement Elective Course (SEC)****SEC-1: বাংলা ব্যাকরণ ও অনুবাদতত্ত্ব**

Credits 02

**SEC1T: বাংলা ব্যাকরণ ও অনুবাদতত্ত্ব****Course Contents:**

- ক. সমাস, সন্ধি, প্রত্যয়, ছেদ ও যতি চিহ্নের ব্যবহার, বাগধারা ও প্রবাদ-প্রবচন, এক কথায় প্রকাশ
- খ. অনুবাদতত্ত্ব (আক্ষরিক অনুবাদ, ভাবানুবাদ ও সংক্ষিপ্ত অনুবাদ) ও পরিভাষা চর্চা

**Suggested Readings:**

১. ব্যাকরণ কৌমুদী – বিদ্যাসাগর
২. উচ্চতর বাংলা ব্যাকরণ – বামনদেব চক্রবর্তী
৩. ভাষা প্রকাশ বাঙ্গালা ব্যাকরণ – সুনীতিকুমার চট্টোপাধ্যায়
৪. ভাষার ইতিবৃত্ত – সুকুমার সেন
৫. On Translations – Richards, I.A.
৬. Translation – Alan Daff

## SEC-1: লিখন-দক্ষতা বৃদ্ধি

Credits 02

## SEC1T: লিখন-দক্ষতা বৃদ্ধি

## Course Contents:

- ক. অফিসিয়াল পত্রলিখন, সংবাদপত্রে প্রতিবেদন, ভাবার্থ ও ভাবসম্প্রসারণ, সরকারী কাজের রিপোর্ট লিখন, বিজ্ঞাপনের খসড়া রচনা, বানানবিধি, প্রুফ সংশোধন
- খ. বাংলা ভাষার কাজে কম্পিউটার শিক্ষা

## Suggested Readings:

১. লেখক ও সম্পাদকের অভিধান – সুভাষ ভট্টাচার্য
২. **Basic Computer Course Made Simple – Satish Jain**
৩. বাংলা বানান চিন্তা – মিতালি ভট্টাচার্য

## SEC-2: বাংলা ভাষা ও সাহিত্য বিষয়ক প্রকল্প রচনা ও প্রকল্পপত্র উপস্থাপনা

Credits 02

## SEC2T: বাংলা ভাষা ও সাহিত্য বিষয়ক প্রকল্প রচনা ও প্রকল্পপত্র উপস্থাপনা

## Course Contents:

- ক. প্রকল্প রচনা (Project Writing)
- খ. প্রকল্পপত্র উপস্থাপনা (Paper presentation)

## SEC-2: চিত্রনাট্য রচনা ও সাম্প্রতিক ঘটনা বিশ্লেষণ

Credits 02

## SEC2T: চিত্রনাট্য রচনা ও সাম্প্রতিক ঘটনা বিশ্লেষণ

## Course Contents:

- ক. চিত্রনাট্য লিখন (Script-Writing)
- খ. সাম্প্রতিক ঘটনা বিশ্লেষণ

## Suggested Readings:

১. চলচ্চিত্রের অভিধান – ধীমান দাশগুপ্ত
২. সিনেমার অ আ ক খ - ধীমান দাশগুপ্ত
৩. বিষয় চলচ্চিত্র – সত্যজিৎ রায়
৪. বই নয়, ছবি – চিদানন্দ দাশগুপ্ত

৫. সিনেমার ভালোমন্দ – সোমেশ্বর ভৌমিক
৬. চিত্রনাট্য রচনা ও চিত্রনাট্য বিশ্লেষণ – ধীমান দাশগুপ্ত
৭. চিত্রনাট্য সাহিত্যে নতুন ভুবন - মানবেন্দ্রনাথ সাহা

**Generic Electives (GE)**  
**[Interdisciplinary for other Department]**

**GE-1: বাংলার ভূ-খণ্ড, জাতির উৎপত্তি ও ধর্ম ও সংস্কৃতির ইতিহাস এবং লোকসাহিত্য**  
**Credits 06**

**GE1T: বাংলার ভূ-খণ্ড, জাতির উৎপত্তি ও ধর্ম ও সংস্কৃতির ইতিহাস এবং লোকসাহিত্য**

**Course Contents:**

- ক. বাঙালি জাতির উৎপত্তি ও বাংলা ভূ-খণ্ডের ইতিহাস
- খ. বাঙালির ধর্ম ও সংস্কৃতির (খাদ্যাভ্যাস, পোশাক-পরিচ্ছদ, উৎসব-পার্বণ, সামাজিক রীতি-অনুষ্ঠান) সাধারণ পরিচয়
- গ. লোকসাহিত্য সংজ্ঞা, স্বরূপ ও বৈশিষ্ট্য  
ছড়া, ধাঁধা, প্রবাদ, রতকথা, গীতিকা, লোককথা, লোকনাটক, লোকগীতি

**Suggested Readings:**

১. বাংলা ও বাঙালীর বিবর্তন - অতুল সুর
২. বৃহৎ বঙ্গ – দীনেশচন্দ্র সেন
৩. গোড়ের ইতিহাস- রজনীকান্ত চক্রবর্তী
৪. গঙ্গারিডি ও বঙ্গভূমি - প্রভাতকুমার ঘোষ
৫. পশ্চিমবঙ্গের সংস্কৃতি - বিনয় ঘোষ
৬. সংবাদপত্রে সেকালের কথা - রজনীন্দ্রনাথ বন্দ্যোপাধ্যায়
৭. বাংলার ইতিহাস - রাখালদাস বন্দ্যোপাধ্যায়
৮. বাঙালীর নৃতাত্ত্বিক পরিচয় - অতুল সুর
৯. বাংলা বাঙালী ও বাঙালীত্ব - আহমদ শরীফ
১০. বাংলার মুখ আমি দেখিয়াছি- শঙ্কর সেনগুপ্ত
১১. বাঙালীর ইতিহাস - নীহাররঞ্জন রায়
১২. বাংলার লোকসংস্কৃতি বিশ্বকোষ- দুলাল চৌধুরী
১৩. বঙ্গীয় লোকসংস্কৃতি কোষ - বরুণকুমার চক্রবর্তী
১৪. লোকসাহিত্য - আসরাফ সিদ্দিকী
১৫. বাংলার প্রবাদ - সুদেষ্ণা বসাক
১৬. বাংলার রতপার্বণ- শীলা বসাক
১৭. গীতিকা : স্বরূপ ও বৈশিষ্ট্য - বরুণ কুমার চক্রবর্তী
১৮. বাংলা ধাঁধার বিষয়বৈচিত্র্য ও সামাজিক পরিচয় – শীলা বসাক
১৯. বাংলার লোকগীত কথা – চিত্তরঞ্জন দেব
২০. বাংলার লোককথা – বুদ্ধদেব রায়
২১. বাংলার লোকনৃত্য ও গীতিবৈচিত্র্য– মণি বর্ধন

**Course Contents:**

- ক. পৃথিবীর প্রধান প্রধান বংশের সাধারণ পরিচয়, ইন্দো-ইউরোপীয় ভাষাবংশের সাধারণ পরিচয়, বাংলা ভাষার উদ্ভবের ইতিহাস, বাংলা ভাষার বিভিন্ন স্তরের বৈশিষ্ট্য,
- খ. বাংলা উপভাষা, বাংলা সাধু ও চলিত ভাষা, বাংলা বাক্যের গঠন (প্রথাগত), বাংলা শব্দভাণ্ডার
- গ. ধ্বনি পরিবর্তনের কারণ ও সূত্রসমূহ, শব্দার্থ পরিবর্তনের কারণ ও সূত্রসমূহ

**Suggested Readings:**

- ১.সাধারণ ভাষাবিজ্ঞান ও বাংলা ভাষা - রামেশ্বর 'শ
- ২.ভাষাবিদ্যা পরিচয় - পরেশচন্দ্র ভট্টাচার্য
- ৩.বাংলাভাষার ব্যাকরণ ও তার ক্রমবিকাশ- নির্মল দাশ
- ৪.বাংলা ভাষা পরিক্রমা- পরেশচন্দ্র মজুমদার
- ৫. ভাষাতত্ত্ব ও বাংলাভাষা – বাণী রঞ্জন দে
- ৬.ঝাড়খণ্ডী বাংলার ঝাড়গাঁয়ী রূপ – ছন্দা ঘোষাল
- ৭.ভাষাতত্ত্ব – অতীন্দ্র মজুমদার
- ৮.Origin and Development of the Bengali Language- Suniti Kumar Chatterjee
- ৯.বাংলা ভাষাতত্ত্বের ভূমিকা - সুনীতিকুমার চট্টোপাধ্যায়
- ১০.বাংলা ভাষা - পার্বতীচরণ ভট্টাচার্য
- ১১. বাংলা ভাষার ইতিবৃত্ত - ড. মুহম্মদ শহীদুল্লাহ
- ১২.ভাষার ইতিবৃত্ত - শ্রী সুকুমার সেন
- ১৩. প্রসঙ্গ: বাংলা ভাষা - সুখেন বিশ্বাস

**Course Contents:**

- ক. প্রাচীন ও মধ্যযুগের সাহিত্যের ধারা : চর্যাপদ, শ্রীকৃষ্ণকীর্তন, মঙ্গলকাব্য, বৈষ্ণবপদাবলী
- খ. আধুনিক কাব্য সাহিত্যের ধারা : মধুসূদন দত্ত, রবীন্দ্রনাথ ঠাকুর, জীবনানন্দ দাশ, নজরুল ইসলাম, সুধীন্দ্রনাথ দত্ত, অমিয় চক্রবর্তী, বিষ্ণু দে, শক্তি চট্টোপাধ্যায়
- গ. বৈষ্ণবপদাবলী পাঠ  
বিদ্যাপতি – চির চন্দন উরে হার না দেলা; এ সখি হামারি দুখের নাহি ওর;  
চণ্ডীদাস – সহ কেবা শুনাইল শ্যাম নাম ; এমন পীরিতি কভু নাহি দেখি শনি  
জ্ঞানদাস – রূপ লাগি আঁখি বুঝে ; বঁধু তোমার গরবে গরবিনী হাম

গোবিন্দদাস – নীরদ নয়নে নীর ঘন সিঞ্জে, কন্টক গাড়ি কমল সম পদতল

### Suggested Readings:

১. বাংলা সাহিত্যের ইতিবৃত্ত – ড. অসিতকুমার বন্দ্যোপাধ্যায়
২. বাংলা সাহিত্যের ইতিকথা- ড. ভূদেব চৌধুরী
৩. বাঙ্গালা সাহিত্যের ইতিহাস- ড. সুকুমার সেন
৪. সমগ্র বাংলা সাহিত্যের পরিচয়- ড. পরেশচন্দ্র ভট্টাচার্য
৫. বাঙলা সাহিত্যের রূপরেখা- গোপাল হালদার
৬. সমগ্র বাংলা সাহিত্যের ইতিহাস- ক্ষেত্র গুপ্ত
৭. বাংলা সাহিত্যের সম্পূর্ণ ইতিবৃত্ত- অসিতকুমার বন্দ্যোপাধ্যায়
৮. মঙ্গলকাব্যের ইতিহাস- আশুতোষ ভট্টাচার্য
৯. মধ্যযুগের কবি ও কাব্য- শঙ্করীপ্রসাদ বসু
১০. পাঁচশত বৎসরের পদাবলী- বিমানবিহারী মজুমদার (সম্পাদনা)
১১. বৈষ্ণব সাহিত্য – ত্রিপুরা শঙ্কর সেন শাস্ত্রী
১২. বাংলা সাহিত্যে কৃষ্ণকথার ক্রমবিকাশ- সত্যবতী গিরি
১৩. বৈষ্ণব পদাবলী পরিচয়- জীবেন্দু রায়
১৪. বৈষ্ণব রহস্য প্রকাশ- ক্ষুদিরাম দাস
১৫. পদাবলী পরিচয়- হরেকৃষ্ণ মুখোপাধ্যায়
১৬. বৈষ্ণব কবি প্রসঙ্গে- দেবনাথ বন্দ্যোপাধ্যায়
১৭. প্রসঙ্গ : বৈষ্ণব সাহিত্য- লায়েক আলি খান
১৮. বৈষ্ণব পদাবলী- সত্য গিরি
১৯. আধুনিক বাংলা কবিতার রূপরেখা – বাসন্তীকুমার মুখোপাধ্যায়
২০. আধুনিক কবিতার মানচিত্র – জীবেন্দু সিংহ রায়
২১. আধুনিক বাংলা কাব্য পরিচয় – দীপ্তি ত্রিপাঠী
২২. আমার কালের কয়েকজন কবি – জগদীশ ভট্টাচার্য
২৩. বাংলা কবিতার কালান্তর – সরোজ বন্দ্যোপাধ্যায়
২৪. আধুনিক কবিতার দিগ্বলয় – অশ্রুকুমার সিকদার

### অথবা

GE-2: নাট্য সাহিত্যের ধারা এবং কাব্য ও নাটক পাঠ

Credits 06

GE2T: নাট্য সাহিত্যের ধারা এবং কাব্য ও নাটক পাঠ

### Course Contents:

- ক. বাংলা নাট্য সাহিত্যের ধারা – মধুসূদন দত্ত, দীনবন্ধু মিত্র, গিরিশচন্দ্র ঘোষ, রবীন্দ্রনাথ ঠাকুর, দ্বিজেন্দ্রলাল রায়, মন্মথ রায়
- খ. বুড় শালিকের ঘাড়ে রোঁ – মধুসূদন দত্ত
- গ. কথা ও কাহিনী – রবীন্দ্রনাথ ঠাকুর

### Suggested Readings:



১. বাংলা নাট্য সাহিত্যের ইতিহাস – শ্রী আশুতোষ ভট্টাচার্য
২. বাংলা নাটকের ইতিহাস – অজিতকুমার ঘোষ
৩. নাট্য সাহিত্যের আলোচনা ও নাটক বিচার – সাধনকুমার ভট্টাচার্য
৪. নাট্য সাহিত্যের ভূমিকা – বিভাস রায়চৌধুরী
৫. বাংলা প্রহসন : একেই কি বলে সভ্যতা ও বুড় শালিকের ঘাড়ে রোঁ – ক্ষেত্র গুপ্ত
৬. মধুসূদন : কবি ও নাট্যকার – সুবোধচন্দ্র সেনগুপ্ত
৭. রবীন্দ্র-কাব্য-পরিক্রমা – উপেন্দ্রনাথ ভট্টাচার্য
৮. বুড় শালিকের ঘাড়ে রোঁ – হীরেন চট্টোপাধ্যায়
৯. রবীন্দ্র কাব্য প্রবাহ – প্রমথনাথ বিশী
১০. বাংলা সাহিত্যে লঘুনাট্যের ধারা – বৈদ্যনাথ শীল

### GE-3: বাংলা প্রবন্ধ ও কথাসাহিত্যের ধারা এবং প্রবন্ধ পাঠ

Credits 06

### GE3T: বাংলা প্রবন্ধ ও কথাসাহিত্যের ধারা এবং প্রবন্ধ পাঠ

#### Course Contents:

- ক. বাংলা প্রবন্ধ সাহিত্যের ধারা –  
ফোর্ট উইলিয়াম কলেজ, শ্রীরামপুর মিশন, বিদ্যাসাগর, বঙ্কিমচন্দ্র চট্টোপাধ্যায়, রবীন্দ্রনাথ ঠাকুর, প্রমথ চৌধুরী, সৈয়দ মুজতবা আলী, বুদ্ধদেব বসু, অন্নদাশঙ্কর রায়।
- খ. বাংলা কথাসাহিত্যের ধারা – বঙ্কিমচন্দ্র চট্টোপাধ্যায়, রবীন্দ্রনাথ ঠাকুর, প্রভাতকুমার মুখোপাধ্যায়, শরৎচন্দ্র চট্টোপাধ্যায়, তারাশঙ্কর বন্দ্যোপাধ্যায়, বিভূতিভূষণ বন্দ্যোপাধ্যায়, মানিক বন্দ্যোপাধ্যায়, শরদিন্দু বন্দ্যোপাধ্যায়, বলাইচাঁদ মুখোপাধ্যায়, সমরেশ বসু।
- গ. লোকরহস্য :  
(বাবু, ব্যাঘ্রাচার্য্য বৃহল্লাঙ্গুল, ইংরাজ স্তোত্র, সুবর্ণগোলক, হনুমদ্বাবুসংবাদ) – বঙ্কিমচন্দ্র চট্টোপাধ্যায়

#### Suggested Readings:

১. বাংলা সাহিত্যে গদ্য – সুকুমার সেন
২. আধুনিক বাংলা প্রবন্ধ সাহিত্যের ধারা - অধীর দে
৩. বাংলা গদ্য রীতির ইতিহাস - অরুণকুমার মুখোপাধ্যায়
৪. বাংলা গদ্যের ক্রমবিকাশ - হীরেন্দ্রনাথ দত্ত
৫. বাংলা গদ্যের ক্রমবিকাশ- হীরেন্দ্রনাথ দত্ত
৬. বঙ্গ সাহিত্যে উপন্যাসের ধারা – শ্রীকুমার বন্দ্যোপাধ্যায়
৭. বাংলা উপন্যাসের কালান্তর – সরোজ বন্দ্যোপাধ্যায়
৮. বাংলা উপন্যাসের ইতিহাস (প্রথম থেকে সপ্তম খন্ড) – ক্ষেত্রগুপ্ত
৯. বাংলা উপন্যাস সমীক্ষা – বীতশোক ভট্টাচার্য
১০. বঙ্কিমচন্দ্র – সুবোধ কুমার সেনগুপ্ত

অথবা

### GE-3: উপন্যাস ও ছোটগল্প পাঠ

Credits 06



## GE3T: উপন্যাস ও ছোটগল্প পাঠ

### Course Contents:

১. বিশ্ববৃক্ষ – বঙ্কিমচন্দ্র চট্টোপাধ্যায়
২. পথের পাঁচালী – বিভূতিভূষণ বন্দ্যোপাধ্যায়
৩. ছোটগল্প সংকলন –
  - পোষ্টমাস্টার – রবীন্দ্রনাথ
  - মহেশ – শরৎচন্দ্র
  - নিমগাছ – বনফুল
  - ডাইনি – তারাশঙ্কর বন্দ্যোপাধ্যায়
  - চিত্রচোর – সুবোধ ঘোষ

### Suggested Readings:

১. পথের পাঁচালি : জীবনদৃষ্টি ও শিল্পরূপ – সমরেশ মজুমদার
২. রবীন্দ্র ছোটগল্পের শিল্পরূপ – তপোব্রত ঘোষ
৩. শরৎচন্দ্র জীবন ও সাহিত্য – ড. অজিতকুমার ঘোষ
৪. বনফুল : জীবন, মন ও সাহিত্য – ড. উর্মি নন্দী
৫. বিভূতিভূষণ : জীবন ও সাহিত্য – সুনীলকুমার চট্টোপাধ্যায়
৬. তারাশঙ্কর অন্বেষা – সরোজ বন্দ্যোপাধ্যায়
৭. বাংলা ছোটগল্প : নববীক্ষণ – সরোজ পান
৮. রবীন্দ্রনাথের নির্বাচিত ছোটগল্প – অসিতকুমার বন্দ্যোপাধ্যায়
৯. বঙ্কিমচন্দ্র – সুবোধ কুমার সেনগুপ্ত
১০. শরৎচন্দ্র - সুবোধ কুমার সেনগুপ্ত
১১. আমার কালের কয়েকজন কথাশিল্পী – জগদীশ ভট্টাচার্য
১২. বাংলা ছোটগল্প – শিশির কুমার দাশ
১৩. সুবোধ ঘোষের ছোটগল্পের মানব মনস্তত্ত্ব – মোমেনুর রসুল
১৪. বাংলা ছোটগল্প : প্রসঙ্গ ও প্রকরণ – বীরেন্দ্র দত্ত
১৫. গল্পচর্চা – উজ্জ্বলকুমার মজুমদার
১৬. ছোটগল্পের পথে পথে – রবিন পাল
১৭. রবীন্দ্রনাথের গল্প : বিশ্লেষণীপাঠ – সমরেশ মজুমদার
১৮. রবীন্দ্রনাথের ছোটগল্প – প্রমথনাথ বিশী
১৯. বাংলা ছোটগল্প : মননে দর্পণে – শীতল চৌধুরী

GE-4: বাংলা গীতিসাহিত্য, শিশুসাহিত্য ও রম্যরচনার ধারা

Credits 06

GE4T: বাংলা গীতিসাহিত্য, শিশুসাহিত্য ও রম্যরচনার ধারা

### Course Contents:

- ক. বাংলা গীতি (সঙ্গীত-সাহিত্য) ধারা
- খ. বাংলা শিশুসাহিত্যের ধারা



(বিদ্যাসাগর, মদনমোহন তর্কালঙ্কার, শিবনাথ শাস্ত্রী, দক্ষিণারঞ্জন মিত্র মজুমদার, রবীন্দ্রনাথ, অবনীন্দ্রনাথ, যোগীন্দ্রনাথ সরকার, উপেন্দ্রকিশোর রায়চৌধুরী, সত্যজিৎ রায়, সুকুমার রায়, লীলা মজুমদার, নারায়ণ গঙ্গোপাধ্যায়, প্রেমেন্দ্র মিত্র, ত্রৈলোক্যনাথ মুখোপাধ্যায়, সুখলতা রাও)

গ. রম্যরচনার ধারা –

হতোম প্যাঁচা, প্রমথ চৌধুরী, কালপেঁচা, মুজতবা আলী, সঞ্জীব চট্টোপাধ্যায়

### Suggested Readings:

১. সংগীতকোষ – করুণাময়ী গোস্বামী
২. বাঙ্গালীর গান- দুর্গাদাস লাহিড়ী
৩. রবীন্দ্রসংগীত- শান্তিদেব ঘোষ
৪. সুরের আগুন- সন্ধ্যা সেন
৫. রবীন্দ্রনাথের গান- সৌমেন্দ্রনাথ ঠাকুর
৬. ভারতীয় সংগীতের প্রকৃতি ও বাংলা গান - শান্তিদেব ঘোষ
৭. বাংলা গানের বিবর্তন – উৎপলা গোস্বামী
৮. বাংলা গানের সঙ্কানে – সুধীর চক্রবর্তী
৯. বাংলা শিশু কিশোর সাহিত্যের ইতিহাস ও বিবর্তন- মহুয়া ভট্টাচার্য
১০. বাংলা শিশু সাহিত্য ও পরিক্রমা – অশোককুমার দে
১১. বাংলা শিশুসাহিত্যের ক্রমবিকাশ - আশা গঙ্গোপাধ্যায়
১২. শিশু সাহিত্য ও সাহিত্যিক – প্রভাসরঞ্জন দে
১৩. শতাব্দীর শিশু সাহিত্য – খগেন্দ্রনাথ মিত্র
১৪. রম্যকথা – বিশ্বনাথ বন্দ্যোপাধ্যায়
১৫. রম্যকথা আলোচনা – কুমারেশ ঘোষ
১৬. বাংলা রম্য রচনার প্রাথমিক পরিচয় – ড. প্রতীপ মজুমদার
১৭. গদ্য পরম্পরা – ফাদার দ্যুপিয়োন
১৮. বাংলা সাহিত্যে সামাজিক নকশার পটভূমির প্রতিষ্ঠা – আবুল কাশেম চৌধুরী
১৯. আধুনিক ব্যঙ্গ পরিচয় – পরিমল গোস্বামী
২০. বীরবলের বৈঠকী গল্প – মিহির সেন
২১. বাংলা গানের চার দিগন্ত – সুধীর চক্রবর্তী
২২. বাংলা গানের ইতিবৃত্ত – সাবিত্রী ঘোষ

### অথবা

GE-4: বাংলা সাহিত্য এবং দার্শনিক, রাজনৈতিক ও সামাজিক চিন্তা

Credits 06

GE4T: বাংলা সাহিত্য এবং দার্শনিক, রাজনৈতিক ও সামাজিক চিন্তা

### Course Contents:

- ক. বাংলা সাহিত্য ও বাঙালির দর্শনচিন্তা
- খ. বাংলা সাহিত্য ও বাঙালির রাজনৈতিক চিন্তা

গ. বাংলা সাহিত্য ও বাঙালী সমাজচিন্তা

### Suggested Readings:

১. চিন্তানায়ক বঙ্কিমচন্দ্র - ভবতোষ দত্ত
২. বঙ্গীয় রেনেসাঁসে পাশ্চাত্য বিদ্যার ভূমিকা – সুনীল বন্দ্যোপাধ্যায়
৩. বাঙ্গালির সংস্কৃতি – সুনীতিকুমার চট্টোপাধ্যায়
৪. গোড়বঙ্গ সংস্কৃতি – হরেকৃষ্ণ মুখোপাধ্যায়
৫. বাঙলা ও বাঙ্গালির বিবর্তন – অতুল সুর
৬. বাঙলা ও বাঙ্গালির সামাজ্য ও সংস্কৃতি – অতুল সুর
৭. বঙ্গের জাতীয় ইতিহাস (রাজন্যকাণ্ড) - নগেন্দ্রনাথ বসু
৮. বাংলার সামাজিক ইতিহাসের ধারা - বিনয় ঘোষ
৯. মধ্যযুগে বাঙ্গালা - কালীপ্রসন্ন বন্দ্যোপাধ্যায়
১০. বাংলার মুসলিম আধিকারের আদিপর্ব - সুখময় মুখোপাধ্যায়
১১. বাংলায় নবচেতনার ইতিহাস - স্বপন বসু
১২. উনিশশতক : ভাব, সংঘাত ও সমন্বয় - রাখালচন্দ্র নাথ
১৩. বাঙালীর নৃতাত্ত্বিক পরিচয় – অতুল সুর
১৪. বাঙালীর রাষ্ট্রচিন্তা – সৌরেন্দ্রমোহন গঙ্গোপাধ্যায়
১৫. ষোড়শ শতকের বাংলা সমাজ ও সাহিত্য - সুমঙ্গল রানা

### **MIL (AECC- Elective) - Bengali**

**AECC (Elective) - MIL (Bengali): বাংলা ভাষা-প্রসঙ্গ, অনুবাদ ও কথন-দক্ষতা**

**Credit 02**

### Course Contents:

#### বিভাগ-ক

##### বাংলা ভাষা-প্রসঙ্গ

১. ভাষাপরিকল্পনা
২. ধর্ম, পেশা, লিঙ্গ ভিত্তিক বাংলা সমাজভাষা
৩. বর্তমান আদর্শ কথ্য-বাংলার প্রকৃতি

#### বিভাগ-খ

##### অনুবাদ

১. অনুবাদ (বাংলা থেকে ইংরেজি ও ইংরেজি থেকে বাংলা)

#### বিভাগ-গ

##### কথন-দক্ষতা

২. সাক্ষাৎকার (Interview)
৩. বক্তৃতা (public speech) দক্ষতা



### Suggested Readings:

১. Sociolinguistics Pattern – William Lebov
২. Sociolinguistic – R.H. Hudson
৩. ভাষা ও সমাজ – মৃগাল নাথ
৪. সমাজভাষাবিজ্ঞান – রাজীব হুমায়ুন
5. Theories of Translation – J. Williams

# Vidyasagar University

## Curriculum for B.A. Honours in Sanskrit [Choice Based Credit System]

### Semester-II

Sl. No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			Credit
				L	T	P	
CC3	Critical Survey of Sanskrit Literature	Core Course-3		5	1	0	6
CC4	Self Management in the Gīta	Core Course-4		5	1	0	6
GE-2	TBD	GE					4/5
							2/1
AECC-2	Environmental Studies	AECC					4
<b>Total Credits = 22</b>							

**L=Lecture, T=Tutorial, P=Practical. AECC- Ability Enhancement Compulsory Course.**

**CC = Core Course, TBD = To be decided,**

**Interdisciplinary/Generic Elective (GE) from other Department. Each paper will be of 6 credits.**

## Semester-II

### List of Core Courses and Electives

#### Core Courses (CC)

CC-3: Critical Survey of Sanskrit Literature

CC-4: Self Management in the Gītā

#### Generic Electives (GE)

[Interdisciplinary for other Department]

**GE-2: Indian Culture and Social Issues**

Or

GE-2: Sanskrit and other Modern Indian Languages

Or

GE-2: Indian Epigraphy & Paleography

**CC-3: Critical Survey of Sanskrit Literature**

**Credits 06**

**CC3T: Critical Survey of Sanskrit Literature**

**Course Content:**

Section 'A'	Vedic Literature
Section 'B'	Rāmāyaṇa
Section 'C'	Mahābhārata
Section 'D'	Purāṇas
Section 'E'	General Introduction to Vyākaraṇa, Darśana and Sāhitvaśāstra

**Unit-Wise Division:**

**Section 'A'**  
**Vedic Literature**

Unit: I	<i>Samhitā (Ṛk, Yajuh, Sāma, Atharva) time, subject-matter, religion &amp; Philosophy, social life</i>
Unit: II	<i>Brāhmaṇa, Āraṇyaka, Upaniṣad, Vedāṅga (Brief Introduction)</i>

**Section 'B'**  
**Rāmāyaṇa**

Unit: I	<i>Rāmāyaṇa-time, subject-matter, Rāmāyaṇa as an Ādikāvya.</i>
Unit: II	<i>Rāmāyaṇa as a Source Text and its Cultural Importance.</i>

**Section 'C'**  
**Mahābhārata**

Unit: I *Mahābhārata* and its Time, Development, and subject matter

Unit:II *Mahābhārata* : Encyclopaedic nature, as a Source, Text, Cultural Importance.

### Section 'D'

#### Purāṇas

Unit: I Purāṇas : Subject matter, Characteristics

Unit: II Purāṇas : Social, Cultural and Historical Importance

### Section 'E'

#### General Introduction to Vyākaraṇa, Darśana and Sāhityaśāstra

Unit-I General Introduction to Vyākaraṇa- Brief History of Vyākaraṇaśāstra

Unit-II General Introduction to Darśana-Major schools of Indian Philosophy Cārvāka, Bauddha, Jaina, Sāṅkhya-yoga, Nyāya-Vaiśeṣika, Pūrvamīmāṃsā and Uttara mīmāṃsā.

Unit-III General Introduction to Poetics- Six major Schools of Indian Poetics-Rasa, Alankāra, Rīti, Dhvani, Vakrokti and Aucitya.

#### [D] Suggested Books/Readings:

1. बलदेव उपाध्याय, संस्कृत साहित्य का इतिहास, शारदा निकेतन, वाराणसी,
2. बलदेव उपाध्याय, वैदिक साहित्य और संस्कृति, वाराणसी
3. प्रीतिप्रभा गोयल, संस्कृत साहित्य का इतिहास, राजस्थानी ग्रन्थागार, जोधपुर.
4. उमाशंकर शर्मा ऋषि, संस्कृत साहित्य का इतिहास, चौखम्बा भारती अकादमी, वाराणसी.
5. राधावल्लभ त्रिपाठी, संस्कृत साहित्य का अभिनव इतिहास, विश्वविद्यालय प्रकाशन, वाराणसी
6. A.B. Keith, *History of Sanskrit Literature*, also Hindi translation, MLBD, Delhi.  
(हिन्दी अनुवाद, मंगलदेव शास्त्री, मोतीलाल बनारसीदास, दिल्ली).
7. M. Krishnamachariar, *History of Classical Sanskrit Literature*, MLBD, Delhi.
8. Gaurinath Shastri, *A Concise History of Sanskrit Literature*, MLBD, Delhi.
9. Maurice Winternitz, *Indian Literature* (Vol. I-III), also Hindi Translation, MLBD, Delhi.

CC4T: Self Management in the Gītā

Course Content:

Section 'A'	Gītā: Cognitive and emotive apparatus
Section 'B'	Gītā: Controlling the mind
Section 'C'	Gītā: Self management through devotion

Unit-Wise Division:

Section 'A'

Gītā: Cognitive and emotive apparatus

Hierarchy of *indriya*, *manas*, *buddhi* and *ātman*  
III.42; XV. 7

Role of the *ātman* –XV.7; XV.9

Unit: I

Mind as a product of *prakṛti* VII.4

Properties of three *guṇas* and their impact on the  
mind – XIII. 5-6; XIV.5-8, 11-13; XIV.17

Section 'B'

Gītā: Controlling the mind

Confusion and conflict

Nature of conflict I.1; IV.16; I.45; II.6

Unit: I

Causal factors – Ignorance – II.41; *Indriya* – II.60,  
Mind – II.67; *Rajoguna* – III.36-39; XVI.21;  
Weakness of mind- II.3; IV.5

Unit: II

Means of controlling the mind



Meditation—difficulties --VI.34-35; procedure  
VI.11-14

Balanced life- III.8; VI.16-17

Diet control- XVII. 8-10

Physical and mental discipline – XVII. 14-19, VI.  
36.

**Means of conflict resolution**

Importance of knowledge – II. 52 ; IV.38-39;  
IV.42

Clarity of *buddhi* – XVIII.30-32

Process of decision making – XVIII.63

**Unit: III**

Control over senses – II.59, 64

Surrender of *kartṛbhāva* –XVIII .13-16; V.8-9

Desirelessness- II.48; II.55

Putting others before self – III.25

**Section 'C'**

**Gītā: Self management through devotion**

Surrender of ego – II.7 ; IX.27; VIII.7; XI.55 ;  
II.47

**Unit: I**

Abandoning frivolous debates – VII.21, IV.11;  
IX.26

Acquisition of moral qualities - XII.11; XII.13-19

**Recommended Books/Readings:**

1. श्रीमद्भगवद्गीता — मधुसूदनसरस्वतीकृत गूढार्थदीपिका संस्कृतटीका तथा प्रतिभाभाष्य (हिन्दी) सहित,
2. श्रीमद्भगवद्गीता, व्याख्याकार — मदनमोहन अग्रवाल, चौखम्बा संस्कृत प्रतिष्ठान, वाराणसी, 1994.
3. श्रीमद्भगवद्गीता — एस० राधाकृष्णन् कृत व्याख्या का हिन्दी अनुवाद, राजपाल गण्ड मन्स, दिल्ली, 1969.

4. श्रीमद्भगवद्गीतारहस्य और कर्मयोगशास्त्र — बालगङ्गाधर तिलक, अपोलो प्रकाशन, दिल्ली, 2008.
5. Śrīmadbhagavadgītā - English commentary by Jayadayal Goyandka, Tattvavivecinī Gītā Press, Gorakhpur, 1997.
6. Śrīmadbhagavadgītārahasya - The Hindu Philosophy of Life, Ethics and or Karmayogaśāstra Religion, Original Sanskrit Stanzas with English Translation, Bal Gangadhar Tilak & Balchandra Sitaram Sukthankar, J.S.Tilak & S.S.Tilak, 1965.
7. Śrīmadbhagavadgītā - A Guide to Daily Living, English translation and notes by Pushpa Anand, Arpana Publications, 2000.
8. Śrīmadbhagavadgītā - The Scripture of Mankind, text in Devanagari with transliteration in English and notes by Swami Tapasyananda, Sri Ramakrishna Math, 1984.
9. Chinmayananda - The Art of Man Making (114 short talks on the Bhagavadgītā), Central Chinmaya Mission Trust, Bombay, 1991.
10. Panchamukhi, V.R.- Managing One-Self (Śrīmadbhagavadgītā : Theory and Practice), R.S. Panchamukhi Indological Research Centre, New Delhi & Amar Grantha Publications, Delhi, 2001.
11. Sri Aurobindo - Essays on the Gītā, Sri Aurobindo Ashram,  
a. Pondicherry, 1987.
12. Srinivasan, N.K. - Essence of Śrīmadbhagavadgītā : Health & Fitness (commentary on selected verses), Pustak Mahal, Delhi, 2006.

## GE-2: Indian Culture and Social Issues

Credits 06

## GE2T: Indian Culture and Social Issues

### Course Content:

Section 'A' Culture in a multi-cultural society

Section 'B' Cultural roots of India

### Unit-Wise Division:

Section 'A'	
Understanding Culture	
Unit: I	<ol style="list-style-type: none"><li>1. What is culture? Culture and Civilization</li><li>2. What is 'Indian' culture?</li><li>3. Culture in a multi-cultural society</li></ol>
Unit: II	<ol style="list-style-type: none"><li>1. Vedic sabhyata</li><li>2. Sindhu sabhyata</li><li>3. Sanskrit in Indo-Islamic tradition – (Proceedings of the Sagar University seminar on 'Islām kā Sanskrit paramparā ko yogadāna')</li></ol>
Unit: III	<ol style="list-style-type: none"><li>1. Pandavani,</li><li>2. Versions of the Rāma legend in Sanskrit literature – Vālmīki's Rāmāyaṇa, Bhāsa's Pratimā nāṭakam, Bhavabhūti's Uttarāma caritam, Raghuvamśam of Kalidasa, Somadeva's Kathāsaritsāgara, Rāmāyaṇa maṅjari of Rājaśekhara etc.</li><li>3. Ṛitusamhāra in folk music</li><li>4. Sanskrit themes in traditional dance forms in Kerala</li><li>5. Yakṣagan</li><li>6. Gītagovinda and Odissi</li><li>7. Major agricultural and seasonal festivals of India and the Indian calendar – Bihu, Holi, Pongal, Makar Saṁkrāntī, Lohari, Onam, Baisakhi, Śrāvaṇī Pūrṇimā</li></ol>

## Section 'B'

### Social Issues

	Law and change – Dharma as an ever evolving phenomenon <i>Manusmṛti</i> , Chapter 2, verses 6 and 12 with the commentary of Medhātithi :
Unit: I	Lingat, Robert : <i>Classical Law of India</i> , Chapter 1, pp 3-7; tradition – pp 9-14 ; good customs – 14-17. Mathur, A.D. : <i>Medieval Hindu Law</i> , Chapter I, pp 1-8
Unit: II	Caste – Voices of challenge Traditional <i>varṇa</i> hierarchy <i>Vajrasūcī</i> by Aśvaghoṣa Identity of women 6 hrs. Draupadī's question– Mahābhārata, <i>Sabhā Parva</i> -- <i>Dyūta Parva</i> ( <a href="http://sanskritdocuments.org">sanskritdocuments.org</a> ) Chapter 66 - Duryodhana asks Draupadī to be brought to the court 1; Vidura's protest 2, 4 ; Chapter 67 – Duryodhana asks Pratikāmī to fetch Draupadī 2; Draupadī's refusal and question 5-10, 16 ; Yudhiṣṭhira's response 39-41 ; Bhīṣma's response 47-49 ; Draupadī's Rejoinder 50-52 ; Vikarṇa's statement, chapter 68, verses 12-17 Karṇa to Vikarṇa – 27-31, 35. Struggle to secure women's right to property 8 hrs. <i>Yājñavalkya Smṛti</i> , <i>Vyavahārādhyāya</i> : Verse 135 with Vijñāneśvara's commentary (section on <i>patnī</i> )
Unit: III	
Unit IV	

### [D] Recommended Books/Readings:

1. उपाध्याय बलदेव, वैदिक साहित्य और संस्कृति
2. मध्यप्रदेश हिन्दी अकादमी, प्राचीन भारतीय सामाजिक एवं आर्थिक संस्थायें भोपाल, 1976
3. पाण्डेय राजबली, हिन्दू संस्कार, चौखम्बा विधा भवन
4. ज्ञानी शिवदत्त, भारतीय संस्कृति,
5. बाशम ए. ल. अद्भुत भारत
6. Basham A.L. . Wonder that was India
7. Bharadwaj, Ramesh: *Vajrasūcī of Aśvaghoṣa (Varṇa-Jāti through the Ages)*. Vidyanidhi, Delhi
8. Gharpure, J.R., *Teaching of Dharmaśāstra*, Lucknow University, 1956, pp. 1-25.
9. Lingat Robert, *Classical Hindu Law*,
10. Majumdar R.C., *History and Culture of the Indian People*, Volume I (Vedic Age), Bhartiya Vidya Bhawan, Mumbai,
11. Mathur A.D., *Medieval Hindu Law*, Oxford University Press, New Delhi 2006

12. Sharma Braj Narain, Social Life in Northern India, New Delhi, 1966
13. Sharma Brijendra Nath, Social and Cultural History of Northern India, New Delhi, 1972
14. Sharma, S.L., Smṛtis, A Philosophical Study, Eastern Book Linkers, Delhi, 2013, pp. 62-74.
15. *Pandey Raj Bali: Hindu Sanskara, (English) Delhi, 2<sup>nd</sup> Revised Edition 1969, Reprinted 1991*
16. Prabhu, P.H., Hindu Social Organisation, Popular Prakashan, Mumbai, 1998, pp. 257-283.
17. Rama Krishna Mission, The Cultural Heritage of India, Calcutta
18. Yadav B.N. S., Society and Culture in Northern India, Allahabad, 1973
19. Basham A.L. . Wonder that was India
20. Gharpure, J.R., Teaching of Dharmasastra, Lucknow University, 1956, pp. 1-25.
21. Lingat Robert, Classical Hindu Law,
22. Majumdar R.C., History and Culture of the Indian People, Volume 1(Vedic Age). Bhartiya Vidya Bhawan, Mumbai,
23. Mathur A.D., Medieval Hindu Law, Oxford University Press, New Delhi 2006
24. Sharma Braj Narain, Social Life in Northern India, New Delhi, 1966
25. Sharma Brijendra Nath, Social and Cultural History of Northern India, New Delhi, 1972
26. Sharma, S.L., Smṛtis, A Philosophical Study, Eastern Book Linkers, Delhi, 2013, pp. 62-74.
27. *Pandey Raj Bali: Hindu Sanskara, (English) Delhi, 2<sup>nd</sup> Revised Edition 1969, Reprinted 1991*
28. Prabhu, P.H., Hindu Social Organisation, Popular Prakashan, Mumbai, 1998, pp. 257-283.
29. Rama Krishna Mission, The Cultural Heritage of India, Calcutta
30. Yadav B.N. S., Society and Culture in Northern India, Allahabad, 1973

Or

**GE-2: Sanskrit and other Modern Indian Languages**

**Credits 06**

**GE2T: Sanskrit and other Modern Indian Languages**

**Course Content:**

Section 'A' Indo-Aryan Languages

Section 'B' Philology

Section 'C' Literature

**Unit-Wise Division:**

**Section 'A'**

**Indo-Aryan Languages**

Unit: I Stages of Indo-Aryan - Old Indo-Aryan, Middle Indo-Aryan Stages of development in the present day

**Section 'B'**

**Philology**

Unit: I Phonetics of Sanskrit and other Modern Indian Languages

Unit: II Morphology of Sanskrit and other Modern Indian Languages

Unit: III Syntax of Sanskrit and other Modern Indian Languages

**Section 'C'**

**Literature**

Unit: I Sanskrit as a source of Modern Indian Literature

Unit: II Vernacular Languages as a source of enrichment of Sanskrit

**[D] Recommended Books/Readings:**

1. Beames, John, A Comparative Grammar of the Modern Aryan Languages of India, Munshiram Manoharlal, Delhi, 1970.
2. Cardona, Geoge and Jain Dhanesh (Ed.), The Indo-Aryan Languages, Routledge Language Family Series, London, 2003.
3. Chatterji, Suniti Kumar, Indo-Aryan and Hindi, Gujarat Vernacular Society, Ahemdabad, 1942.
4. Chatterji, Suniti Kumar, Origin and Development of the Bangali Language, Calcutta University Press Calcutta, 1926.

5. Turner, R.L., Indo-Aryan Linguistics. Diksha Publication, Delhi, 1985.
6. Coldwell, Robert, A comparative Grammar of Dravidian or South Indian Family of Languages, (3<sup>rd</sup> revised edn.) Munshiram Manoharlal, Delhi, 1970
7. नगेन्द्र, भारतीय साहित्य, प्रभात प्रकाशन, दिल्ली, 1987

**Or**

**GE-2: Indian Epigraphy & Paleography**

**Credits 06**

**GE-2: Indian Epigraphy & Paleography**

**Course Contents:**

**Section 'A'**

Study of selected Inscriptions

**Section 'B'**

Indian Palaeography

**Section 'C'**

Brahmi script and history of the study of Indian Epigraphy

**Section 'A'**

**Study of selected Inscriptions**

**Unit: I:**

1. Aśokan edicts & moral values:

a) Samāja b) Suśrūsā c) Āikitsā d) Stryadhyakṣamahāmātrā

2. Dhamma - according to Aśoka

3. Aśokan edicts administrative Officers

a) rajjuka b) Yukta c) dharma- mahāmātra

4. Welfare state: repair of dam, mati-saśiva, karma-saśiva in Junagadh Inscription of Rudradāman

**Unit: II**

1. Eran Pillar Inscription:

Status of Samudragupta

2. Meharauli Iron Pillar Inscription of Āandra:

- Reaction of sub-ordinate rulers after the death of Samudragupta
- Mighty Āndragupta (II)

3. Influence of the Āāhmāna ruler, Vīsaladeva as depicted in the Delhi-Topra Pillar Inscription



**Section 'B'**  
**Indian Palaeography**

**Unit: I**

1. Antiquity of writing in India

- a) Observations from foreign scholars
- b) Literary evidences
- c) Observations made by Indian Epigraphists.

2. Importance of the study of Inscriptions.

- a) Geographical description b) Historical evidences c) Society d) Religion
- e) Literature f) Economic Conditions g) Administration

**Unit: II**

1. Types of Inscriptions:

- a) Praśasti b) Religious c) Donations d) Grants

2. Writing material:

- a) Rocks b) Pillars c) Metal Plates d) Statues e) Pen, Brush, Chisel, Stylus, Paint/Colour

**Section 'C'**  
**Brāhmī script and history of study of Indian Epigraphy**

**Unit: I**

1. Origin of the Brāhmī Script

- a) Foreign Origin      b) Indian Origin
  - a.1. Greek origin a.2. Phoenician origin
  - b.1. Theory of South Indian Origin b.2. Theory of Aryan Origin.

2. Development of the script upto 700 A.D.

3. Varieties of the Brāhmī script.

**Unit: I**

1. History of reading of Indian Inscriptions.

2. Contribution of Epigraphists: G.H. Ojha, Fleet, Prinsep, D.C. Sircar, Cunningham, Buhler.

3. System of dating and use of eras: Vikram Era, Śaka Era, Gupta Era, Harśa Era.

**Unit: II**      **Ethics:** Karma & Punarjanma theory, Liberation

**Recommended Readings:**

1. Bhandarkar, D.R., Aśoka (Hindi)
2. Buhler, G, On the origin of the Indian alphabet & numerals.
3. Dani, A. H, Indian Paleography
4. Ojha, G. H, Bhāratīya Prācīna Lipimāla (Hindi)
5. Pandey, R.B, Aśoka ke Abhilekha (Hindi), Bhāratīya Purālīpi (Hindi)
6. Rana, S.S., Bhāratīya Abhilekha
7. Sircar, D.C., Indian Epigraphy
8. K.D. Bajpeyi (trans.), Indian Epigraphy, - Bhāratīya Purālīpi)
9. Select Inscriptions (Part - I)
10. Upadhyay, V., Prācīna Bhāratīya Abhilekha (Hindi)
11. Thapar, Romila, Asoka tathā Maurya Sāmrajya Ka Patana (Hindi)

# Vidyasagar University

## Curriculum for B.A (Honours) in Sanskrit [Choice Based Credit System]

### Semester-III

Course	Course Code	Name of the Subjects	Course Type/ Nature	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
CC-5		C5T: Classical Sanskrit Literature (Drama)	Core Course - 5	5	1	0	6	75
CC-6		C6T: Poetics and literary criticism	Core Course - 6	5	1	0	6	75
CC-7		C7T: Indian Social Institutions and Polity	Core Course - 7	5	1	0	6	75
GE-3		TBD	Generic Elective -3				6	75
SEC-1		SEC1T: Acting and Script Writing Or SEC1T: Reading skills in Brāhmī Scripts	Skill Enhancement Course-1	1	1	0	2	50
<b>Semester Total</b>							<b>26</b>	<b>350</b>

L=Lecture, T= Tutorial, P=Practical, CC = Core Course, GE= Generic Elective, SEC = Skill Enhancement Course, TBD = to be decided

**Generic Elective (GE)( Interdisciplinary)** from other Department.

**Modalities of selection of Generic Electives (GE):** A student shall have to choose **04** Generic Elective (GE1 to GE4) strictly from **02** subjects / disciplines of choice taking exactly **02** courses from each subjects of disciplines. Such a student shall have to study the curriculum of Generic Elective (GE) of a subject or discipline specified for the relevant semester.

List of the Core Course (CC) and Electives

Core Course (CC)

**CC-5: Classical Sanskrit Literature (Drama)**

**CC-6: Poetics and literary criticism**

**CC-7: Indian Social Institutions and Polity**

Skill Enhancement Course(SEC)

**SEC-1: Acting and Script Writing**

**Or**

**SEC-1: Reading skills in Brāhmī Scripts**

Generic Electives (GE)

**GE-3: Indian Aesthetics**

**Or**

**GE-3: Fundamentals of Indian Philosophy**

**Or**

**GE-3: Ancient Indian Polity**

## **Semester-III**

### **Core Courses (CC)**

#### **CC-5: Classical Sanskrit Literature (Drama)**

**Credits 06**

#### **C5T: Classical Sanskrit Literature (Drama)**

##### **Course Contents:**

Section A: Svapnavāsavadattam– Bhāsa Act I & VI

Section B: Abhijñānaśākuntalam– Kālidāsa I & IV

Section C: Mudrārāṅgasam - Viśākhadatta I, II & III

Section D: Critical survey of Sanskrit Drama

##### **Section A**

#### **Svapnavāsavadattam– Bhāsa Act I & VI**

##### **Unit: I**

Svapnavāsavadattam: Act I & VI Story, Meaning/Translation and Explanation.

##### **Unit: II**

Svapnavāsavadattam: Unique features of Bhāsa's style, Characterization, Importance of 1st and 6th Act, Society, Norms of Marriage, Story of 'regains'. आसोहासः

##### **Section B**

#### **Abhijñānaśākuntalam– Kālidāsa I & IV**

##### **Unit: I**

Abhijñānaśākuntalam : Act I- (a) Introduction, Author, Explanation of terms like nāndī, prastāvanā, sūtradhāra, naṭī, viṣkambhaka, vidūṣaka, kañcukī, (b) Text Reading (Grammar, Translation, Explanation), Poetic excellence, Plot, Timing of Action. Personification of nature, Language of Kālidāsa, dhvani in Upamā Kālidāsa, Purpose and design behind Abhijñānaśākuntalam and other problems related to texts, popular saying about Kālidāsa & Śākuntalam .

##### **Unit: II**

Abhijñānaśākuntalam Act IV- Text Reading (Grammar, Translation, Explanation), Poetic excellence, Plot, Timing of Action.

## Section C

### Mudrārākṣasam - I, II & Viśakhadatta III

#### Unit: I

Mudrārākṣasam: Act I – (a) Introduction, Author, Purpose and design behind Mudrārākṣasa. (b) Text Reading prescribed verses for translation and explanation- 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 14, 16, 18, 19, 21, 22, 24, 26, 27. ( Grammar, Translation, Explanation), Poetic excellence, Plot, Timing of Action.

#### Unit: II

Mudrārākṣasam: Act II - prescribed verses for translation and explanation- 1, 3, 4, 5, 7, 8, 9, 10, 13, 15, 16, 17, 18, 19, 22, and 23, Text Reading (Grammar, Translation, Explanation), Poetic excellence, Plot, Timing of Action.

#### Unit: III

Mudrārākṣasam: Act III - prescribed verses for translation and explanation- 1, 3, 4, 6, 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27, 29, 31 and 33. Text Reading (Grammar, Translation, Explanation), Poetic excellence, Plot, Timing of Action.)

## Section D

### Critical survey of Sanskrit Drama

**Unit-I:** Sanskrit Drama: Origin and Development, Nature of Nātaka,

**Unit-II:** Some important dramatists and dramas: Bhāsa, Kālidāsa, Śūdraka, Viśākhadatta, Śrī Harṣa, Bhavabhūti, Bhaṭṭanārāyaṇa and their works.

#### Suggested Readings:

1. सुबोधचन्द्र पण्डित, अणभज्ञानशाकुन्तलम्, मोतीलाल बनारसीदास, ददली
2. सुरेन्द्रदत्ते शास्त्री, रामनारायण बेनीप्रसाद, अणभज्ञानशाकुन्तलम्, इलाहाबाद
3. नारायणराम आचाया, अणभज्ञानशाकुन्तलम्, णणणायसागर प्रेस
4. C.R.Devadhar(Ed.), Abhijñanaśākuntalam, MLBD, Delhi.
5. M.R. Kale(Ed.), Abhijñanaśākuntalam, MLBD, Delhi.
6. Gajendra Gadakar(Ed.), Bose, Ramendramohan, Abhijñanaśākuntalam, Modern Book Agency, 10 College, Square, Calcutta.
7. जयपाल णवद्याल कार, स्वप्नवासवदत्तम्, मोतीलाल बनारसीदास, ददली
8. M.R. Kale(Ed.), Svapnavāsavadattam , M.L.B.D., Delhi.
9. जगदीशचन्द्र णमश्र, मुराराक्षसम्, चौखम्बा णवद्याभवन, वाराणसी
10. णनरूपण णवद्याल कार, मुराराक्षसम्, साणहत्य भण्डार मरेठ

11. रमाश कर णिपाठी, मुराराक्षसम्, वाराणसी!
12. M.R. Kale(Ed.), Mudrārākṣasam, MLBD, Delhi.
13. K.T.Telang(Ed.), Mudrārākṣasam, Nag Publishers, Delhi.
14. रमाश कर णतवारी, महाकणव काणलदास
15. भगवतशरण, उपाध्याय, काणलदास, कणव और काव्य, भारतीय ज्ञानपीठ, काशी.
16. हजारीप्रसाद णिवेदी, काणलदास की लाणलत्य योजना , राजकमल प्रकाशन, ददलली
17. प कज कुमार, णमश्र शाकुन्दतलणवषयक रम्यत्व की अवधारणा , पररमल पणललकेशन, ददलली
18. Minakshi Dalal, Conflict in Sanskrit Drama, Somaiya Publication Pvt. Ltd.
19. Ratnamayi Dikshit, Women in Sanskrit Dramas, Meherchand Lachhman Das, Delhi.
20. A.B. Keith, Sanskrit Drama, Oxford University Press London, 1970.
21. Minakshi Dalal, Conflict in Sanskrit Drama, Somaiya Publication Pvt. Ltd.
22. G. K. Bhat, Sanskrit Drama, Karnataka University Press, Dharwar 1975
23. Henry W. Wells, Six Sanskrit Plays, Asia Publishing House, Bombay

## CC- 6: Poetics and literary criticism

Credits 06

### C6T: Poetics and literary criticism

#### Course Contents:

- Section A: Introduction to Sanskrit poetics
- Section B: Forms of Kāvya-Literature
- Section C: Śabda-śakti (Power of Word) and rasa-sūtra
- Section D: Alaṃkāra (figures of speech) and chandasa (metre)

### Section A

#### Introduction to Sanskrit Poetics

##### Unit: I

Introduction to poetics: Origin and development of Sanskrit poetics, its various names- kriyākalpa, alaṅkāraśāstra, sāhityaśāstra, saundryaśāstra.

##### Unit: II

Definition (lakṣaṇa), objectives (prayojana) and causes (hetu) of poetry. (according to kāvyaprakāśa)

## Section B

### Forms of Kāvya-Literature

#### Unit: I

Forms of poetry: dr̥śya, śravya, miśra, (campū)

#### Unit: II

Mahākāvya, khaṇḍakāvya, gadya-kāvya: kathā, ākhyāyikā (according to Sāhityadarpaṇa)

## Section C

### Śabda-śakti and rasa-sūtra

Power/Function of word and meaning (according to kāvyaprakāśa). abhidhā (expression/ denotative meaning), lakṣaṇā (indication/ indicative meaning) and vyañjanā (suggestion/ suggestive meaning).

#### Unit: II

Rasa: rasa-sūtra of Bharata and its prominent expositions: utpattivāda, anumitivāda, bhuktivāda and abhivyaktivāda, alaukikatā (transcendental nature) of rasa (as discussed in Kāvya prakāśa).

## Section D

### Figures of speech and Meter

#### Unit: I

Figures of speech- anuprāsa, yamaka, śleṣa, upamā, rūpaka, sandeha, bhrāntimān, apahnuti, utprekṣā, atīśayokti, tulyayogitā, dīpaka, dr̥ṣṭānta, nidarśanā, vyatireka, samāsokti, svabhāvokti, aprastutaprasāmsā, arthāntaranyāsa, kāvyalinga, vibhāvanā.

#### Unit: II

Metres- anuṣṭup, āryā, indravajrā, upendravajrā, drutavilambita, upajāti, vasantatilakā, mālinī, mandākrāntā, śikhariṇī, śārdūlavikrīḍita, sragdharā.

#### Suggested Readings:

1. Alaukikā according to Sāhityadarpaṇa (Ch. X) and metres according to prescribed texts of poetry and drama.
2. Dwivedi, R.C, The Poetic Light: , Motilal Banarsidas, Delhi.1967.
3. Kane P.V., History of Sanskrit Poetics pp.352-991,
4. Kane, P.V., 1961, History of Sanskrit Poetics and its Hindi translation by Indrachandra Shastri, Motilal Banarasidas, Delhi.
5. Kāvya prakāśa, kārikās 4/27, 28 with explanatory notes.
6. Ray, Sharad Ranjan, Sāhityadarpaṇa; Viśvanātha, (Ch I,VI & X) with Eng. Exposition, Delhi.
7. Sāhityadarpaṇa: (Ch.VIth), Kārikā 6/1,2,313-37



8. नगेन्द्र , ( स ० ) , काव्यप्रकाश : मम्मटकृत , आचाया णवश्वश्वेर की व्याख्या सणहत , ज्ञानम डल णल० , वाराणसी 52.
9. शाणलग्राम शास्त्री , साणहत्यदपाण : (व्या०) , मोतीलाल बनारसीदास , ददलली.
10. बलदवे उपाध्याय , सस्कृत — आलोचना , णहन्द्दी सणमणत , सूचना णवभाग , उ. प्र. , 1963.

## CC-7: Indian Social Institutions and Polity

Credits 06

### C7T: Indian Social Institutions and Polity

#### Course Contents:

- Section A: Indian Social Institutions: Nature and Concepts
- Section B: Structure of Society and Value of Life
- Section C: Indian Polity: Origin and Development
- Section D: Cardinal Theories and Thinkers of Indian Polity

### Section A

#### Indian Social Institutions: Nature and Concepts

##### Unit: I

#### Indian Social Institutions: Definition and Scope:

Sociological Definition of Social Institutions. Trends of Social Changes, Sources of Indian Social Institutions (Vedic Literature, Sūtra Literature, Purānas, Rāmāyaṇa , Mahābhārata ,Dharmaśāstras, Buddhist and Jain Literature, Literary Works, Inscriptions, Memoirs of Foreign Writers)

##### Unit: II

#### Social Institutions and Dharmaśāstra Literature:

Dharmaśāstra as a special branch of studies of Social Institutions, sources of Dharma (Manusmṛti, 2, 12; Yājñavalkyasmṛti,1.7).

Different kinds of Dharma in the sense of Social Ethics Manusmṛti, 10, 63; Viṣṇupurāṇa 2.16-17); Six kinds of Dharma in the sense of Duties (Mitākṣarāṭīkā on Yājñavalkyasmṛti,1.1).

Tenfold Dharma as Ethical Qualities (Manusmṛti,6. 92); Fourteen – Dharmasthānas (Yājñavalkyasmṛti,1.3)

## Section B

### Structure of Society and Values of Life

#### Unit: I

##### Varṇa-System and Caste System:

Four-fold division of Varṇa System, (Ṛgveda, 10.90.12), Mahābhārata, Śāntiparva, 72. 3-8);

Division of Varṇa according to Guṇa and Karma (Bhagvadgīta , 4.13, 18.41-44).

Origin of Caste-System from Inter-caste Marriages (Mahābhārata, Anuśāsanaparva, 48.3-11);

Emergence of non-Aryan tribes in Varṇa-System (Mahābhārata, Śāntiparva, 65.13-22).

Social rules for up-gradation and down-gradation of Caste System (Āpastambadharmasūtra, 2.5.11.10-11, Baudhāyanadharmasūtra, 1.8.16.13-14, Manusmṛti, 10, 64, Yājñavalkyasmṛti, 1.96)

#### Unit: II

##### Position of Women in the Society :

Brief survey of position of women in different stages of Society.

Position of women in Mahābhārata (Anuśāsanaparva, 46.5-11, Sabhāparva, 69.4-13.

Praise of women in The Bṛhatsamhitā of Varāhamihira (Strīprasamsā, chapter-74.1-10)

#### Unit: III

##### Social Values of Life:

Social Relevance of Indian life style with special reference to Sixteen Saṃskāras.

Four aims of life 'Puruṣārtha Catuṣṭaya' - 1. Dharma, 2. Artha, 3. Kāma, 4. Mokṣa.

Four Āśramas - 1. Brahmacharya, 2. Gṛhastha, 3. Vānaprastha, 4. Saṃnyāsa.

## Section C

### Indian Polity : Origin and Development

#### Unit: I

Initial stage of Indian Polity (from Vedic period to Buddhist period).

Election of King by the people: 'Viśas' in Vedic period (Ṛgveda,10.173;10.174; Atharvaveda,3.4.2; 6.87.1-2).

Parliamentary Institutions: ‘Sabhā, ‘Samiti’ and ‘Vidatha’ in Vedic period (Atharvaveda,7.12.1;12.1.6 ; R̥gveda ,10.85.26);

King-maker ‘Rājākartārah’ Council in Atharvaveda (3.5.6-7),Council of ‘Ratnis’ in śatapathabrāhmaṇa (5.2.5.1);

Coronation Ceremony of Samrāt in śatapathabrāhmaṇa (51.1.8-13; 9.4.1.1-5).

Republic States in the Buddhist Period (Digghnikāya, Mahāparinibbana Sutta, Aṅguttaranikāya, 1.213; 4.252,256)

## **Unit: II**

Later Stages of Indian Polity (From Kauṭilya to Mahatma Gandhi).

Concept of Welfare State in Arthaśāstra of Kauṭilya (Arthaśāstra, 1.13 : ‘matsyanyāyābhibhuth’ to ‘yo’ asmāngopāyatīti’);

Essential Qualities of King (Arthaśāstra, 6.1.16-18: ‘sampādayatyasampannaḥ’ to ‘jayatyeva na hīyate’);

State Politics ‘Rajadharma’( Mahābhārata , Śāntiparva,120.1-15; Manusmṛti, 7.1-15; Śukranīti,1.1-15);

Constituent Elements of Jain Polity in Nitivākyāmṛta of Somadeva Suri, (Daṇḍanīti- samuddeśa, 9.1.18 and Janapada- samuddeśa, 19.1.10).

Relevance of Gandhian Thought in Modern Period with special reference to ‘Satyāgraha’ Philosophy (‘Satyāgrahagītā’ of Panditā Kṣamārāva and ‘Gandhi Gītā’, 5.1-25 of Prof. Indra)

## **Section D**

### **Cardinal Theories and Thinkers of Indian Polity**

#### **Unit: 1**

Cardinal Theories of Indian Polity: ‘Saptāṅga’ Theory of State: 1.Svāmi, 2. Amātya, 3. Janapada 4. Pura, 5. Kośa, 6. Daṇḍa and 7. Mitra (Arthaśāstra, 6.1. Mahābhārata, Śāntiparva, 56.5, Śukranīti, 1.61-62).

‘Maṇḍala’ Theory of Inter-State Relations: 1.Ari, 2. Mitra, 3. Ari-mitra,4.Mitra- mitra, 5.Ari-mitra-mitra;

‘Śāḍgunya’ Policy of War and Peace : 1. Sandhi, 2. Vighraha, 3. Yāna, 4. Āsana, 5. Saṁśraya 6. Dvaidhibhāva.

‘CaturvidhaUpāya’for Balancing the power of State : 1.Sāma 2.Dāma,3.Daṇḍa.4.Bheda;

Three Types of State Power ‘Śakti’: 1.Prabhu- śakti, 2. Mantra- śakti, 3. Utsāha-śakti.

#### **Unit: II**

## Important Thinkers on Indian Polity:

Manu, Kautilya, Kāmandaka, Śukrācārya, SomadevaSuri, Mahatma Gandhi.

## Suggested Readings:

1. Āpastambadharmasūtra - (Trans.), Bühler, George, The Sacred Laws of the Āryas, SBE Vol. 2, Part 1, 1879
2. Arthasāstra of Kautilya - (Ed.) Kangale, R.P. Delhi, Motilal Banarasidas 1965
3. Atharvavedasamhitā - (Trans.) R.T.H. Griffith, Banaras, 1896-97, rept. (2 Vols) 1968.
4. Baudhāyanadharmasūtra - (Ed.) Umesha Chandra Pandey, Chowkhamba Sanskrit Series Office, Varanasi, 1972.
5. Mahābhārata (7 Vols) - (Eng. Tr.) H.P. Shastri, London, 1952-59.
6. Manu's Code of Law - (Ed. & Trans.) : Olivelle, P. (A Critical Edition and Translation of the Manava- Dharmasāstra), OUP, New Delhi, 2006.
7. Rāmāyaṇa of Vālmīki — (Eng. Tr.) H.P. Shastri, London, 1952-59. (3 Vols)
8. Ṛgvedasamhitā (6 Vols)- (Eng. Tr.) H.H. Wilson, Bangalore Printing & Publishing Co., Bangalore, 1946.
9. Śatapathabrāhmaṇa - (with Eng. trans. ed.) Jeet Ram Bhatt, Eastern (3 Vols), BookLinkers, Delhi, 2009.
10. Viṣṇupurāṇa - (Eng. Tr.) H.H. Wilson, PunthiPustak, reprint, Calcutta, 1961.
11. Yājñavalkyasmṛiti with Mitākṣarā commentary - Chowkhamba Sanskrit Series Office, Varanasi, 1967
12. अ गुत्तरणनकाय (1—4 भाग) कच बनारसकच 1980।
13. कौरटलीय अथाशास्त्र—गहन्ददी अनुवाद—उदयवीर शास्त्री, मेहरचन्द लछमनदास, ददलली, 1968।
14. ददगघणनकाय (1—2 भाग)—सम्पा० जे० कश्यपणबहारकच 1958।
15. नीणतवाक्यामृतम्—सोमदवेसूररणवरणचत, व्या० रामचन्द्र मालवीय, चौखम्बा णवघाभवन, वाराणसी, 1972।
16. बृहत्स गहता—वराहणमणहरणवरणचत, गहन्ददी अनुवाद—बलदवेप्रसाद णमश्र, खेमराज श्रीकृष्णदास प्रकाशन, मुम्बई।
17. महाभारत (1-6 भाग)-गहन्ददी अनुवादसणहत, (अनु०) रामनारायण दत्त शास्त्री पाण्डेय, गीताप्रेस, गोरखपुर।
18. मनुस्मृणत (1-13 भाग) — (सम्पा० एव व्या०) उर्ममला रुस्तगी, जे.पी. पणललशशग हाउस, ददलली, 2005।
19. णवष्णुपुराण-गहन्ददी अनुवादसणहत, (अनु०) मुणनलाल गुप्त, गीताप्रेस, गोरखपुर।
20. शतपथब्राह्मण (1-5 भाग)—(माध्यणन्दनीय शाखा) —सायणाचाया एव हररस्वामीटीकासणहत, ददलली, 1987.
21. शुक्रनीणत-गहन्ददी अनुवाद, ब्रह्मश कर णमश्र, चौखम्बा स स्कृतसीरीज, वाराणसी, 1968।
22. सत्याग्रहगीता—पणण्डता क्षमाराव, पेररस, 1932।
23. नाटाणी, प्रका नारायण—प्राचीनभारत के राजनीततक विचारक, पोइन्टरपब्लि सम, जयपुर, 2002।

24. ससन्हा विनोद ँ ससन्हा रेखा—प्राचीन भारतीय इततहास ँ राजनैतक र्चन्तन, राधा
25. Altekar, A.S - State and Government in Ancient India, MotilalBanarsidass, Delhi, 2001.
26. Altekar, A.S - The Position of Women in Hindu Civilization, Delhi, 1965.
27. Belvalkar, S.K.- Mahābhārata :Śāntiparvam, 1954.
28. Bhandarkar , D.R. - Some Aspects of Ancient Indian Hindu Polity,Banaras Hindu University Bharadwaj, Ramesh: Vajrasūcī of Aśvaghōṣa (Varṇa-Jāti through the Ages), Vidyanidhi, Delhi
29. Gharpure, J.R. - Teaching of Dharmaśāstra, Lucknow University,1956.
30. Ghosal, U.N. - A History of Indian Political Ideas, Bombay,1959.
31. Jayaswal, K.P.- Hindu Polity, Bangalore, 1967.
32. Jha, M.N. -Modern Indian Political Thought, MeenakshiParkashan, Meerut, UP.
33. Law, N. S. - Aspect of Ancient Indian Polity, Calcutta, 1960.
34. Maheshwari, S. R. -Local Government in India, Orient Longman, New Delhi,
35. Mehta, V.R. - Foundations of Indian Political Thought, Manohar Publisher, Delhi, 1999.
36. Pandey, G.C.-Jaina Political Thought, Jaipur Prakrit Bharti, 1984.
37. Prabhu, P.H.- Hindu Social Organisation, Popular Prakashan, Mumbai, 1998
38. Prasad, Beni - Theory of Government in Ancient India, Allahabad, 1968.
39. Saletore, B.A. - Ancient Indian Political Thought and Institutions, Bombay, 1963.
40. Sharma, R. S. - Aspects of Political Ideas and Institutions in Ancient India,
41. MotilalBanarsidass, Delhi, 1996.
42. Sharma, S.L. -Smṛtis, A Philosophical Study, Eastern Book Linkers, Delhi, 2013
43. Singh, G.P. & Singh, S.Premananda - Kingship in Ancient India: Genesis and Growth,Akansha Publishing House, Delhi, 2000.
44. Sinha, K.N. - Sovereignty in Ancient Indian Polity, London,1938.
45. Valavalkar, P.H. — Hindu Social Institutions, Manglore, 1939

### *Skill Enhancement Course (SEC)*

## **SEC-1: Acting and Script Writing**

**Credits 02**

### **SEC1T: Acting and Script Writing**

#### **Course Contents:**

Section A: Acting (Abhinaya)

Section B: Script Writing (Pāṭakathālekhaṇa)

#### **Section A**

#### **Acting (Abhinaya)**

#### **Unit: I**

- a. Persons competent for presentation (acting) :  
kuśala (skilful), vidagdha (learned), pragalbha (bold in speech), jitaśramī (inured to hard-work) .
- b. Lokadharmī and Nātyadharmī Abhinaya
- c. Nātya-prayoktā-gaṇa (members of theatrical group) :  
sūtradhāra (director), nātyakāra (playwrighter), naṭa (actor) kuśīlava(musician), bhārata, nartaka (dancer), vidūṣaka (jester) etc.

### Unit: II

(i.) Assignment of role:

- a. General principles of distribution
- b. Role of minor characters
- c. Role of women characters
- d. Special cases of assigning of role

(ii.) Kinds of roles: anurūpa (natural), virūpa (unnatural), rūpānusariṇī (imitative)

### Unit: III

Definition of abhinaya and its types:

- a. Āṅgika (gestures): aṅga, upāṅga and pratyaṅga
- b. Vācika(oral): svāra, sthāna, varṇa, kāku, bhāṣā .
- c. Sāttvika (representation of the Involuntary gestures)
- d. Āhārya: pusta, alaṅkāra, aṅgaracanā, sañjīva (dresses and make-up)

### Section B

### Script Writing

#### Unit: I

#### Types of dramatic production:

sukumāra (delicate), āviddha (energetic).

Nature of plot (vastu): Ādhikārika (principal), Prāsaṅgika (subsidiary), Dṛśya (presentable), Sūchya (restricted scenes).

#### Unit: II

#### Division of Plot

- a. Source of plot: Prakhyāta (legendary), Utpādyā (invented), Mīśra (mixed);
- b. Objectives of plot- Kārya (dharma, artha, kāma);
- c. Elements of plot- Five kinds of Arthaprakṛtis (caustations), Kāryāvasthā (stages of the action of actor); Sandhis (junctures) and their sub-divisions (segments)
- d. Five kinds of Arthopakṣepaka (interludes);

### Unit: III

#### Dialogue writing: kinds of saṁvāda ( dialogue)

- Sarvaśrāvya or Prakāśa (aloud)
- Aśrāvya or Svagata (aside)
- Niyataśrāvya : Janāntika (personal address), Apavārita (confidential)
- Ākāśabhāṣita (conversation with imaginary person).

### Unit: IV

- Duration of play
- Three Unities: Time, Actions and place.
- Starting of a play: Pūrvaraṅga –Raṅgadvāra, Nāndī, Prastāvanā, Prarocanā.
- Analysis of acting, plot and dialogue in the context of Abhijñānaśākuntalam.

#### Suggested Readings:

- Ghosh, M.M.: Nāṭyaśāstra of Bharatamuni.
- M.M. Ghosh, Nāṭyśāstra of Bharatamuni, vol-1, Manisha Granthalaya, Calcutta, 1967.
- Hass, The Daśarūpaka : A Treatise on Hindu Dramaturgy, Columbia University, NewYork , 1912.
- Adyarangachrya, Introduction to Bharata's Nāṭyaśātra, Popular Prakashan Bombay, 1966.
- हजारी प्रसाद , णिवेदी , नाट्यशास्त्र की भारतीय प रपरा और दशरूपक , राजकमल प्रकाशन ददलली ,1963.
- राधावल्लभ , णिपाठी , भारतीय नाट्यशास्त्र की परम्परा और णवश्व र गम च , प्रणतभा प्रकाशन , ददलली ,1999.
- राधावल्लभ , णिपाठी , भारतीय नाट्य स्वरूप और पर परा , हररशसह गौर णवश्वणवघालय , सागर , 1988.
- वाचस्पणत , गैरोला — भारतीय नाट्यपरम्परा और अणभनयदपाण , इलाहाबाद , 1967.

Or

### SEC-1: Reading skills in Brāhmī Scripts

Credits 02

#### SEC1T: Reading skills in Brāhmī Scripts

#### Course Contents:

Section A: Brāhmī Alphabet

Section B: Translation

Section C: Kind of Scripts

### Section A

#### Brāhmī alphabets

##### Unit: I:

Early Brāhmī alphabet - Aśokan period

### Section B

#### Translation to variations – up to 4th century C.E

##### Unit: I

Translation to variations – up to 4th century C.E.

### Section C

#### Kind of script

Unit - I: North Indian

Unit - II: South Indian

Unit - III: East Indian

Unit - IV: West Indian

Unit - V: Vākāṭaka variety

#### Suggested Readings:

1. Dani, A.H. Indian Paleography, 1963
2. Upasak, C.S. History & Paleography of Mauryan Brāhmī Script, 1960
3. Verma, T.P. Paleography of Brāhmī script in North India, 1971
4. ओझा, गौ. ही. भारतीय प्राचीन णलणपमाला
5. पाण्डये, राजबली : अशोक के अणभलेख, 1967

### Generic Electives ( GE)

**GE-3: Indian Aesthetics**

**Credits 06**

**GE3T: Indian Aesthetics**

**Course Contents:**



Section A:	Aesthetics ( Saundaryaśāstra), its nature and components
Section B:	Aesthetic experience ( Rasa) and its process
Section C:	Aesthetic elements (saundarya - tattva)
Section D:	Prominent thinkers on Aesthetics

## Section A

### Aesthetics ( Saundaryaśāstra), its nature and components

#### Unit: I

Beauty (Saundarya): its definition, nature and components: vāya,rūpa, vacana, hāva

#### Unit: II

Discussion of synonyms of the term Beauty (Saundarya) : ramaṇīyatā, śucitā, lāvaṇya, cārutā, kānti, vicchitti, madhuratā, mugdhatā, manohāritā, śrī.

## Section B

### Aesthetic experience (Rasa) and its process

#### Unit: I

Nature of rasa (Aesthetic experience) according to Sāhityadarpaṇa, aesthetic enjoyment – eternal bliss, the ultimate reality (ānandamayatā, alaukikatā).

#### Unit: II

Constituents of rasa: bhāva (human feelings and emotions) vibhāva (causes or determinants), anubhāva (voluntary gestures), sāttvika bhāva (Involuntary gestures), vyabhicāri bhāva (transitory states) and sthāyibhāva (basic mental states), sahrdaya / sāmājika (Connoisseur / Spectator). anukārya, anukartā.

#### Unit: III

sādhāraṇīkaraṇa (Generalization), four mental stages of rasa realization: vikāsa (cheerfulness), vistāra (exaltation), kṣobha (agitation), vikṣepa (perturbation). Number of rasas according to Bharat.

## Section C

### Aesthetic elements (saundarya - tattva)

#### Unit: I

Art as the mode of expression of saundarya –in fine arts (Architecture, Sculpture and Painting).

#### Unit: II

Main aesthetic elements of literary arts (Poetry and Drama) : alānkāra, rīti, dhvani,vakrokti & aucitya.

## Section D

### Prominent thinkers of Indian Aesthetics

#### Unit: I

Bharata, Bhāmaha, Vāmana, Daṇḍī, Ānandavardhana Abhinavagupta, Kuntaka, Mahimabhaṭṭa, Kṣemendra, Vishvanātha and Jagannātha.

#### Unit: II

Perception of beauty in Drama from cultural, social and aesthetical point of view in the context of Abhijñānaśākuntalam.

#### Suggested Readings:

1. Sāhityadarpaṇa of Vishvanatha, (Based on karikas3/1-28).
2. Kane P.V., History of Sanskrit Poetics pp.352-391, i. Upadhyaya, Baladeva, Sanskrit Ālocanā (for six schools)
3. Kane P.V., History of Sanskrit Poetics
4. Pandey, Kantichandra: Comparative Aesthetics, vol.1 Chowkhamba Sanskrit series office Varanasi, 2008
5. Gnoli, R. : The Aesthetic Experience according to Abhinavagupta, Chowkhamba Sanskrit series office Varanasi.
6. चतुर्वेदी, ब्रजमोहन भारतीय सौन्दर्यादशान पृ० 42—60.
7. चतुर्वेदी, ब्रजमोहन भारतीय सौन्दर्यादशान पृ० 37—42.
8. चतुर्वेदी ब्रजमोहन भारतीय सौन्दर्यादशान पृ० 61—76.
9. कृष्णकुमार अल कारशास्त्र का इणतहास, साणहत्य भण्डार,मेरठ,199
10. उपाध्याय बलदवे स स्कृत—आलोचना, णहन्ददी सणमणत, सचूना णवभाग, उ. प्र., 1963
11. कृष्णकुमार अल कारशास्त्र का इणतहास, साणहत्य भण्डार,मेरठ,1998
12. Coomarswami A : Introduction to Indian Art, Theosophical Society , Adyar, 1956.

Or

**GE-3: Fundamentals of Indian Philosophy**

**Credits 06**

**GE3T: Fundamentals of Indian Philosophy**

#### Course Contents:

Section A: General Introduction

Section B: Schools of Indian Philosophy

Section C: Problems in Indian Philosophy

## **Section A**

### **Fundamentals of Philosophy**

#### **Unit: I**

Darśana - concept and aims, Classification of Indian Philosophical schools,

#### **Unit: II**

Salient features of Indian Philosophy

## **Section B**

### **Schools of Indian Philosophy**

#### **Unit: I**

##### **Heterodox Schools**

- Cārvāka – General introduction with emphasis on Challenge to Veda, Rejection of Transcendental Entities, Ethics (Based on Sarvadarshansamgrah)
- Jainism – General introduction with emphasis on Anekāntavāda, Syādvāda, Saptabhaṅginaya, triratna
- Buddhism- General Introduction with emphasis on Four Noble Truths

#### **Unit: II**

##### **Orthodox Schools of Philosophy**

- Sāṃkhya – General Introduction with emphasis on prakṛti, guṇatraya & puruṣa Entities (Based on Sāṃkhyakārikā)
- Yoga - Eight fold path of Yoga (Based on Yogasūtra Sādhana-pāda and their on Yogabhāṣya thereon)

#### **Unit: III**

Nyāya –General introduction with emphasis on Vaiśeṣika : Seven Padārthas (Based on Tarkasamgrah)

#### **Unit: IV**

Advaita Vedānta – General introduction with emphasis a Brahman, Māyā, Jīva and Jagat (Based on Vedāntasāra)

#### **Unit: V**

Mīmāṃsā - Svataḥ Prāmāṇyavāda

**Unit: VI**

Bhakti Schools of Vedānta – General introduction with emphasis on God, Īśvara & nature of bhakti

**Section C**

**Problems in Indian Philosophy**

**Unit: I**

**Epistemology:** six pramāṇas

**Unit: II**

**Metaphysics:** realism, idealism, Causation - Satkāryavāda. Asatkāryavāda, Pariṇāmavāda, Vivartavāda, svabhāvavāda, consciousness and matter, theories of self

**Unit: III**

**Ethics:** Karma & Punarjanma theory, Liberation

**Suggested Readings:**

1. Bhartiya, Mahesh - Bhāratīya Darśana Kī Pramukha Samasyāem, Ghaziabad, 1999.
2. Chatterjee, S. C. & D. M. Datta - Introduction to Indian Philosophy, Calcutta University, Calcutta, 1968 (Hindi Translation also).
3. Chatterjee, S. C. – The Nyāya Theory of Knowledge, Calcutta, 1968.
4. Hiriyanna, M. - Outline of Indian Philosophy, London, 1956 (also Hindi Translation).
5. Shastri, Kuppaswami, A Primer of Indian Logic, 1951 (only introduction).
6. Bhartiya, Mahesh - Causation in Indian Philosophy, Ghaziabad, 1975.
7. O’Flaherty, Wendy Doniger – Karma and Rebirth in Classical Indian Tradition, MLBD, Delhi, 1983.
8. Pandey, Ram Chandra - Panorama of Indian Philosophy (also Hindi version), M.L.B.D., Delhi, 1966.
9. Radhakrishnan, S. - Indian Philosophy, Oxford University Press, Delhi, 1990.
10. Raja, Kuhnian - Some Fundamental Problems in Indian Philosophy, MLBD, Delhi, 1974.
11. Rishi, Uma Shankar (Ed.), Sarva-Darshana\_Samgraha, Chowkhamba Vidyabhawan, Varansi, 1984.

**Or**

**GE-3: Ancient Indian Polity**

**Credits 06**

**GE3T: Ancient Indian Polity**

**Course Contents:**

Section A: Name, Scope and Origin of Ancient Indian Polity

Section B: Types and Nature of the State

Section C: Kingship, Council of Ministers and Assemblies

Section D: Law and Justice, Taxation and Inter- State Relations

## Section A

### Name, Scope and Origin of Ancient Indian Polity

#### Unit: I

#### Name, Scope and Sources of the Science of Polity

- Name of Ancient Indian Polity: Daṇḍanīti, Dharmasāstra, Nītisāstra;
- Scope of Indian Polity: Relation with Dharma, Artha and Nīti;
- Sources : Vedic Literature, Purāṇas, Rāmāyaṇa, Mahābhārata, Dharmasāstra, Kautilya's Arthasāstra and Nīti –sāstra

#### Unit: II

#### Origin of the State'Daṇḍanīti':

- Origin of State'Daṇḍanīti': Mātsyanyāya- Theory -( Arthasāstra 1.1.3, Mahābhārata, Śānti parva, 67.17-28, Manusmṛti, 7.20)
- Divinity of the King'Rājā' – (Arthasāstra, 1.9, Mahābhārata, Śānti parva, 67.43-48, ,Manusmṛti, 7.4-7)

## Section B

### Types and Nature of the State

#### Unit: I

#### Types of the State:

- Rājya, Svrājya, Bhojya, Vairājya, Mahārājya, Sāmrajya concept in Aitreya Brāhmaṇa (8.3.13-14 and 8.4.15-16)
- Republics in Buddhist Literature (Dighnikāya, Mahāparinibbāṇa Sūta, Anguttaranikāya, 1.213; 4.252, 256)

#### Unit: II

#### Nature of the State:

- With special reference to Saptāṅga-Theory: 1. Svāmī, 2. Amātya, 3. Janapada, 4. Pura, 5. Kośa, 6. Daṇḍa and 7. Mitra (Arthasāstra, 6.1; Manusmṛti, 9.294)

## Section C

### Problems in Indian Philosophy

#### Unit: I

##### Kingship and Council of Ministers:

- Kingship :Royal Succession, Coronation Ceremony, King as a Public Servent (Sukranīti,4.2.130,137), King as a Trustee(Arthaśāstra,10.3),
- King as Upholder of the Moral Order(Mahābhārata, Śānti parva,120.1-35; Manusmṛti, 7.1-35);
- Council of Ministers : Ratni Council in Vedic age Śatapathabrāhmaṇa, 5.2.5.1);
- Council of Ministers in Kauṭilya's Arthaśāstra (1.4,1.5,1.11) and Śukranīti,(2.70- 72)

#### Unit: II

##### Central Assemblies and Local Administration:

- Central Assembly in Vedic Literature : 'Sabhā', 'Samiti' in Atharvaveda (7.12.1;12.1.6) and 'Vidatha' in Ṛgveda (10.85.26 ):
- Town Assembly:' Paura- Janpada' in Rāmāyaṇa and Mahābhārata;
- Village Council: Sabhā, Pañcakula, Pañcāyata

## Section D

### Law, Justice, Taxation and Inter-State Relations

#### Unit: I

##### Nature and Sources of Law 'Dharma':

- Four types of Source of Law 'Dharma':1.'Dharma', 2. Vyavahāra', 3.'Caritra' and 4. 'Rājaśāsana';
- Four types of Enforcement of Law: 1. Rules of Castes 'Jatidharma', 2. Local Customs' 'Janapadadharma', 3. Bye-laws of Guilds 'Śreṇīdharmā' and 4. Family Traditions 'Kuladharmā'

#### Unit: II

##### Judicial administration and Courts:

- King as Head and Fountain Sources of all Justice, Qualities of Chief Justice-'Pradvivak 'and members of Jury-'Sabhāsadah, (Shukraniti, 4.5.69-196)
- Two types of Royal Courts 'Dharmasthīya' and 'Kaṇṭakaśodhana' in Arthaśāstra (3.1-20)
- Social and local Courts situated in Villages-' Kula', 'Puga', 'Dharmaśāsana'.

#### Unit: III

##### Taxation Policy of State:

- Reasonable and Equitable Taxation Policy 'Śāstranīta' permitted by Dharmasāstra (Mahābhārata, Śānti parva, 71.10-25, Manusmṛti, 7.127, 144) ;
- Criticism of unlawful taxation policy in Mahābhārata, Śānti parva (87.19-18-22, 88.4-7)
- Two Types of Tax Sources in Arthasāstra -1.'Aya- sarira' and 2' Aya-mukha'(Altekar, A.S , State and Government in Ancient India, pp.262 267; Sahay, Shiva Swarup, , Prachin Bharaa ka Samajika evam Arthika Itihas, pp.456-458)

#### Unit: IV

#### Inter-State Relations of State:

- Brief survey of 'Maṇḍala' Theory of Inter- State Relations; Principles and means of Diplomacy : 1.Sāma 2.Dāma,3 Dandā.4.Bheda;
- Diplomacy of War and Peace – 'Śāḍgunya theory:1.Sandhi, 2.Vigraha, 3.Yāna, 4.Āsana, 5.Sansraya and, 6.Dvaidhībhāva (Altekar, A.S , State and Government in Ancient India, pp.291-308; Satyaketu Vidyalankar, Prachin Bharatiya Shasana Vyavastha aur Rajashastra, pp.363- 376)

#### Suggested Readings:

1. Arthashastra of Kautilya-(ed.) Kangale, R.P. Delhi, Motilal Banarasidas 1965
2. Atharvaveda samhita- (Trans.) R.T.H. Griffith, Banaras, 1896-97, rept.(2 Vols) 1968.
3. Mahabharata (7 Vols)- (Eng. Tr.) H.P. Shastri, London, 1952-59.
4. Manu's Code of Law- (ed. & trans.) : Olivelle, P. ( A Critical Edition and Translation of the Mānava- Dharmaśāstra), OUP, New Delhi, 2006.
5. Ramayana of Valmiki - (Eng. Tr.) H.P. Shastri, London, 1952-59. (3 Vols)
6. Rgveda samhita (6 Vols)- (Eng. Tr.) H.H. Wilson, Bangalore Printing &Publishing Co., Bangalore, 1946. 7. Satapatha brahmana- (with Eng. trans. ed.) Jeet Ram Bhatt, Eastern (3 Vols) Book Linkers, Delhi, 2009.
7. अ गुतर णनकाय (1-4 भाग) कच बनारसक्च1980
8. कौरटलीय अथाशास्त्र -णहन्ददी अनुवाद -उदयवीर शास्त्री, मेहरचन्द लछमनदास, ददलली,1968.
9. दीघणनकाय (1-2 भाग) कचसम्पा० जे० कश्यप णबहार, 1958
10. महाभारत (1-6 भाग) - णहन्ददी अनुवाद सणहत, (अनु०) रामनारायण दत्त शास्त्री पाण्डेय गीताप्रेस, गोरखपुर.
11. मनुस्मृणत (1-13 भाग) - (सम्पा० एव व्या०) उर्ममला रुस्तगी, जे.पी. पणललशशग हाउस, ददलली, 2005
12. शतपथब्राह्मण (1-5 भाग) (माध्यणन्दनीय शाखा) -सायणाचाया एव हररस्वामी टीकासणहत, ददलली, 1987.
13. शुक्रनीणत - णहन्ददी अनुवाद, ब्रह्मश कर णमश्र, चौखम्बा स स्कृत सीरीज, वाराणसी, 1968.
14. काणे, पी.वी.-धमाशास्त्र का इणतहास (1-4 भाग) अनु० अजुन चौबे काश्यप,णहन्ददी सणमणत,लखनऊ, 1966—73.
15. गानार, जे.डललयू.- राज्यणवज्ञान और शासन, (अनु०) रामनारायण यादवेन्दु, आगरा, 1972.
16. नाटाणी, प्रकाश नारायण - प्राचीन भारत के राजनीणतक णवचारक, पोइन्दटर पणललशसा, जयपुर, 2002.
17. मोहनचन्द- जैन स स्कृत महाकाव्यों में भारतीय समाज, ईस्टना बुक शलकसा, ददलली, 1989.
18. णवघाल कार, सत्यकेतु - प्राचीन भारतीय शासनव्यवस्था और राजशास्त्र, सरस्वती सदन, मसूरी, 1968.

19. सहायकचणशवस्वरूपकच- प्राचीन भारत का सामाजिक एव आर्थिक इणतहास, मोतीलाल बनारसीदास, ददलली, 2012
24. णसन्दहा णवनोद एव णसन्दहा रेखा- प्राचीन भारतीय इणतहास एव राजनैणतक णचन्दतन, राधा णणललकेशन्दस, ददलली, 1989
25. Altekar, A.S - State and Government in Ancient India, Motilal Banarsidass, Delhi, 2001.
26. Belvalkar, S.K. -Mahabharata: Santi Parvam, 1954.
27. Gharpure, J.R. -Teaching of Dharmashastra, Lucknow University,1956
28. Ghosal, U.N. - A History of Indian Political Ideas, Bombay, 1959.
29. Jayaswal, K.P. - Hindu Polity, Bangalore, 1967.
30. Law, N. S. - Aspect of Ancient Indian Polity, Calcutta, 1960.
31. Maheshwari, S. R. - Local Government in India, Orient Longman, New Delhi,
32. Prasad, Beni - Theory of Government in Ancient India, Allahabad, 1968.
33. Saletore, B.A. - Ancient Indian Political Thought and Institutions, Bombay, 1963.
34. Sharma, R. S. - Aspects of Political Ideas and Institutions in Ancient India, Motilal Banarsidass, Delhi, 1996.
35. Sinha, K.N. - Sovereignty in Ancient Indian Polity, London, 1938.
36. Verma, V.P. - Studies in Hindu Political Thought and its Metaphysical Foundations, Delhi, 1954.



# Vidyasagar University

## Curriculum for B.A (Honours) in Sanskrit [Choice Based Credit System]

### Semester-III

Course	Course Code	Name of the Subjects	Course Type/ Nature	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
CC-5		C5T: Classical Sanskrit Literature (Drama)	Core Course - 5	5	1	0	6	75
CC-6		C6T: Poetics and literary criticism	Core Course - 6	5	1	0	6	75
CC-7		C7T: Indian Social Institutions and Polity	Core Course - 7	5	1	0	6	75
GE-3		TBD	Generic Elective -3				6	75
SEC-1		SEC1T: Acting and Script Writing Or SEC1T: Reading skills in Brāhmī Scripts	Skill Enhancement Course-1	1	1	0	2	50
<b>Semester Total</b>							<b>26</b>	<b>350</b>

L=Lecture, T= Tutorial, P=Practical, CC = Core Course, GE= Generic Elective, SEC = Skill Enhancement Course, TBD = to be decided

**Generic Elective (GE)( Interdisciplinary)** from other Department.

**Modalities of selection of Generic Electives (GE):** A student shall have to choose **04** Generic Elective (GE1 to GE4) strictly from **02** subjects / disciplines of choice taking exactly **02** courses from each subjects of disciplines. Such a student shall have to study the curriculum of Generic Elective (GE) of a subject or discipline specified for the relevant semester.

**List of the Core Course (CC) and Electives**

**Core Course (CC)**

**CC-5: Classical Sanskrit Literature (Drama)**

**CC-6: Poetics and literary criticism**

**CC-7: Indian Social Institutions and Polity**

**Skill Enhancement Course(SEC)**

**SEC-1: Acting and Script Writing**

**Or**

**SEC-1: Reading skills in Brāhmī Scripts**

**Generic Electives (GE)**

**GE-3: Indian Aesthetics**

**Or**

**GE-3: Fundamentals of Indian Philosophy**

**Or**

**GE-3: Ancient Indian Polity**

## **Semester-III**

### **Core Courses (CC)**

#### **CC-5: Classical Sanskrit Literature (Drama)**

**Credits 06**

#### **C5T: Classical Sanskrit Literature (Drama)**

##### **Course Contents:**

Section A: Svapnavāsavadattam– Bhāsa Act I & VI

Section B: Abhijñānaśākuntalam– Kālidāsa I & IV

Section C: Mudrārāṅgasam - Viśākhadatta I, II & III

Section D: Critical survey of Sanskrit Drama

##### **Section A**

#### **Svapnavāsavadattam– Bhāsa Act I & VI**

##### **Unit: I**

Svapnavāsavadattam: Act I & VI Story, Meaning/Translation and Explanation.

##### **Unit: II**

Svapnavāsavadattam: Unique features of Bhāsa's style, Characterization, Importance of 1st and 6th Act, Society, Norms of Marriage, Story of 'regains'. आसोहासः

##### **Section B**

#### **Abhijñānaśākuntalam– Kālidāsa I & IV**

##### **Unit: I**

Abhijñānaśākuntalam : Act I- (a) Introduction, Author, Explanation of terms like nāndī, prastāvanā, sūtradhāra, naṭī, viṣkambhaka, vidūṣaka, kañcukī, (b) Text Reading (Grammar, Translation, Explanation), Poetic excellence, Plot, Timing of Action. Personification of nature, Language of Kālidāsa, dhvani in Upamā Kālidāsa, Purpose and design behind Abhijñānaśākuntalam and other problems related to texts, popular saying about Kālidāsa & Śākuntalam .

##### **Unit: II**

Abhijñānaśākuntalam Act IV- Text Reading (Grammar, Translation, Explanation), Poetic excellence, Plot, Timing of Action.

## Section C

### Mudrārākṣasam - I, II & Viśakhadatta III

#### Unit: I

Mudrārākṣasam: Act I – (a) Introduction, Author, Purpose and design behind Mudrārākṣasa. (b) Text Reading prescribed verses for translation and explanation- 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 14, 16, 18, 19, 21, 22, 24, 26, 27. ( Grammar, Translation, Explanation), Poetic excellence, Plot, Timing of Action.

#### Unit: II

Mudrārākṣasam: Act II - prescribed verses for translation and explanation- 1, 3, 4, 5, 7, 8, 9, 10, 13, 15, 16, 17, 18, 19, 22, and 23, Text Reading (Grammar, Translation, Explanation), Poetic excellence, Plot, Timing of Action.

#### Unit: III

Mudrārākṣasam: Act III - prescribed verses for translation and explanation- 1, 3, 4, 6, 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27, 29, 31 and 33. Text Reading (Grammar, Translation, Explanation), Poetic excellence, Plot, Timing of Action.)

## Section D

### Critical survey of Sanskrit Drama

**Unit-I:** Sanskrit Drama: Origin and Development, Nature of Nātaka,

**Unit-II:** Some important dramatists and dramas: Bhāsa, Kālidāsa, Śūdraka, Viśākhadatta, Śrī Harṣa, Bhavabhūti, Bhaṭṭanārāyaṇa and their works.

#### Suggested Readings:

1. सुबोधचन्द्र पण्डित, अणभज्ञानशाकुन्तलम्, मोतीलाल बनारसीदास, ददली
2. सुरेन्द्रदवे शास्त्री, रामनारायण बेनीप्रसाद, अणभज्ञानशाकुन्तलम्, इलाहाबाद
3. नारायणराम आचाया, अणभज्ञानशाकुन्तलम्, णणणायसागर प्रेस
4. C.R.Devadhar(Ed.), Abhijñanaśākuntalam, MLBD, Delhi.
5. M.R. Kale(Ed.), Abhijñanaśākuntalam, MLBD, Delhi.
6. Gajendra Gadakar(Ed.), Bose, Ramendramohan, Abhijñanaśākuntalam, Modern Book Agency, 10 College, Square, Calcutta.
7. जयपाल णवद्याल कार, स्वप्नवासवदत्तम्, मोतीलाल बनारसीदास, ददली
8. M.R. Kale(Ed.), Svapnavāsavadattam , M.L.B.D., Delhi.
9. जगदीशचन्द्र णमश्र, मुराराक्षसम्, चौखम्बा णवद्याभवन, वाराणसी
10. णनरूपण णवद्याल कार, मुराराक्षसम्, साणहत्य भण्डार मरेठ

11. रमाश कर णिपाठी, मुराराक्षसम्, वाराणसी!
12. M.R. Kale(Ed.), Mudrārākṣasam, MLBD, Delhi.
13. K.T.Telang(Ed.), Mudrārākṣasam, Nag Publishers, Delhi.
14. रमाश कर णतवारी, महाकणव काणलदास
15. भगवतशरण, उपाध्याय, काणलदास, कणव और काव्य, भारतीय ज्ञानपीठ, काशी.
16. हजारीप्रसाद णिवेदी, काणलदास की लाणलत्य योजना , राजकमल प्रकाशन, ददलली
17. प कज कुमार, णमश्र शाकुन्दतलणवषयक रम्यत्व की अवधारणा , पररमल पणललकेशन, ददलली
18. Minakshi Dalal, Conflict in Sanskrit Drama, Somaiya Publication Pvt. Ltd.
19. Ratnamayi Dikshit, Women in Sanskrit Dramas, Meherchand Lachhman Das, Delhi.
20. A.B. Keith, Sanskrit Drama, Oxford University Press London, 1970.
21. Minakshi Dalal, Conflict in Sanskrit Drama, Somaiya Publication Pvt. Ltd.
22. G. K. Bhat, Sanskrit Drama, Karnataka University Press, Dharwar 1975
23. Henry W. Wells, Six Sanskrit Plays, Asia Publishing House, Bombay

## CC- 6: Poetics and literary criticism

Credits 06

### C6T: Poetics and literary criticism

#### Course Contents:

- Section A: Introduction to Sanskrit poetics
- Section B: Forms of Kāvya-Literature
- Section C: Śabda-śakti (Power of Word) and rasa-sūtra
- Section D: Alaṃkāra (figures of speech) and chandasa (metre)

### Section A

#### Introduction to Sanskrit Poetics

##### Unit: I

Introduction to poetics: Origin and development of Sanskrit poetics, its various names- kriyākalpa, alaôkāraśāstra, sāhityaśāstra, saundryaśāstra.

##### Unit: II

Definition (lakṣaṇa), objectives (prayojana) and causes (hetu) of poetry. (according to kāvyaprakāśa)

## Section B

### Forms of Kāvya-Literature

#### Unit: I

Forms of poetry: dr̥śya, śravya, miśra, (campū)

#### Unit: II

Mahākāvya, khaṇḍakāvya, gadya-kāvya: kathā, ākhyāyikā (according to Sāhityadarpaṇa)

## Section C

### Śabda-śakti and rasa-sūtra

Power/Function of word and meaning (according to kāvyaprakāśa). abhidhā (expression/ denotative meaning), lakṣaṇā (indication/ indicative meaning) and vyañjanā (suggestion/ suggestive meaning).

#### Unit: II

Rasa: rasa-sūtra of Bharata and its prominent expositions: utpattivāda, anumitivāda, bhuktivāda and abhivyaktivāda, alaukikatā (transcendental nature) of rasa (as discussed in Kāvya prakāśa).

## Section D

### Figures of speech and Meter

#### Unit: I

Figures of speech- anuprāsa, yamaka, śleṣa, upamā, rūpaka, sandeha, bhrāntimān, apahnuti, utprekṣā, atīśayokti, tulyayogitā, dīpaka, dr̥ṣṭānta, nidarśanā, vyatireka, samāsokti, svabhāvokti, aprastutaprasāmsā, arthāntaranyāsa, kāvyalinga, vibhāvanā.

#### Unit: II

Metres- anuṣṭup, āryā, indravajrā, upendravajrā, drutavilambita, upajāti, vasantatilakā, mālinī, mandākrāntā, śikhariṇī, śārdūlavikrīḍita, sragdharā.

#### Suggested Readings:

1. Alaukikā according to Sāhityadarpaṇa (Ch. X) and metres according to prescribed texts of poetry and drama.
2. Dwivedi, R.C, The Poetic Light: , Motilal Banarsidas, Delhi.1967.
3. Kane P.V., History of Sanskrit Poetics pp.352-991,
4. Kane, P.V., 1961, History of Sanskrit Poetics and its Hindi translation by Indrachandra Shastri, Motilal Banarasidas, Delhi.
5. Kāvya prakāśa, kārikās 4/27, 28 with explanatory notes.
6. Ray, Sharad Ranjan, Sāhityadarpaṇa; Viśvanātha, (Ch I,VI & X) with Eng. Exposition, Delhi.
7. Sāhityadarpaṇa: (Ch.VIth), Kārikā 6/1,2,313-37

8. नगेन्द्र , ( स ० ) , काव्यप्रकाश : मम्मटकृत , आचाया णवश्वश्वेर की व्याख्या सणहत , ज्ञानम डल णल० , वाराणसी 52.
9. शाणलग्राम शास्त्री , साणहत्यदपाण : (व्या०) , मोतीलाल बनारसीदास , ददलली.
10. बलदवे उपाध्याय , सस्कृत — आलोचना , णहन्द्दी सणमणत , सूचना णवभाग , उ. प्र. , 1963.

## CC-7: Indian Social Institutions and Polity

Credits 06

### C7T: Indian Social Institutions and Polity

#### Course Contents:

- Section A: Indian Social Institutions: Nature and Concepts
- Section B: Structure of Society and Value of Life
- Section C: Indian Polity: Origin and Development
- Section D: Cardinal Theories and Thinkers of Indian Polity

### Section A

#### Indian Social Institutions: Nature and Concepts

##### Unit: I

#### Indian Social Institutions: Definition and Scope:

Sociological Definition of Social Institutions. Trends of Social Changes, Sources of Indian Social Institutions (Vedic Literature, Sūtra Literature, Purānas, Rāmāyaṇa , Mahābhārata ,Dharmaśāstras, Buddhist and Jain Literature, Literary Works, Inscriptions, Memoirs of Foreign Writers)

##### Unit: II

#### Social Institutions and Dharmaśāstra Literature:

Dharmaśāstra as a special branch of studies of Social Institutions, sources of Dharma (Manusmṛti, 2, 12; Yājñavalkyasmṛti,1.7).

Different kinds of Dharma in the sense of Social Ethics Manusmṛti, 10, 63; Viṣṇupurāṇa 2.16-17); Six kinds of Dharma in the sense of Duties (Mitākṣarāṭīkā on Yājñavalkyasmṛti,1.1).

Tenfold Dharma as Ethical Qualities (Manusmṛti,6. 92); Fourteen – Dharmasthānas (Yājñavalkyasmṛti,1.3)

## Section B

### Structure of Society and Values of Life

#### Unit: I

##### Varṇa-System and Caste System:

Four-fold division of Varṇa System, (Ṛgveda, 10.90.12), Mahābhārata, Śāntiparva, 72. 3-8);

Division of Varṇa according to Guṇa and Karma (Bhagvadgīta , 4.13, 18.41-44).

Origin of Caste-System from Inter-caste Marriages (Mahābhārata, Anuśāsanaparva, 48.3-11);

Emergence of non-Aryan tribes in Varṇa-System (Mahābhārata, Śāntiparva, 65.13-22).

Social rules for up-gradation and down-gradation of Caste System (Āpastambadharmasūtra, 2.5.11.10-11, Baudhāyanadharmasūtra, 1.8.16.13-14, Manusmṛti, 10, 64, Yājñavalkyasmṛti, 1.96)

#### Unit: II

##### Position of Women in the Society :

Brief survey of position of women in different stages of Society.

Position of women in Mahābhārata (Anuśāsanaparva, 46.5-11, Sabhāparva, 69.4-13.

Praise of women in The Bṛhatsamhitā of Varāhamihira (Strīprasamsā, chapter-74.1-10)

#### Unit: III

##### Social Values of Life:

Social Relevance of Indian life style with special reference to Sixteen Samskāras.

Four aims of life 'Puruṣārtha Catuṣṭaya' - 1. Dharma, 2. Artha, 3. Kāma, 4. Mokṣa.

Four Āśramas - 1. Brahmacharya, 2. Gṛhastha, 3. Vānaprastha, 4. Saṁnyāsa.

## Section C

### Indian Polity : Origin and Development

#### Unit: I

Initial stage of Indian Polity (from Vedic period to Buddhist period).

Election of King by the people: 'Viśas' in Vedic period (Ṛgveda,10.173;10.174; Atharvaveda,3.4.2; 6.87.1-2).



Parliamentary Institutions: ‘Sabhā, ‘Samiti’ and ‘Vidatha’ in Vedic period (Atharvaveda,7.12.1;12.1.6 ; R̥gveda ,10.85.26);

King-maker ‘Rājākartārah’ Council in Atharvaveda (3.5.6-7),Council of ‘Ratnis’ in śatapathabrāhmaṇa (5.2.5.1);

Coronation Ceremony of Samrāt in śatapathabrāhmaṇa (51.1.8-13; 9.4.1.1-5).

Republic States in the Buddhist Period (Digghnikāya, Mahāparinibbana Sutta, Aṅguttaranikāya, 1.213; 4.252,256)

## **Unit: II**

Later Stages of Indian Polity (From Kauṭilya to Mahatma Gandhi).

Concept of Welfare State in Arthaśāstra of Kauṭilya (Arthaśāstra, 1.13 : ‘matsyanyāyābhibhuth’ to ‘yo’ asmāngopāyatīti’);

Essential Qualities of King (Arthaśāstra, 6.1.16-18: ‘sarpādāyatyasampannaḥ’ to ‘jayatyeva na hīyate’);

State Politics ‘Rajadharma’( Mahābhārata , Śāntiparva,120.1-15; Manusmṛti, 7.1-15; Śukranīti,1.1-15);

Constituent Elements of Jain Polity in Nitivākyāmṛta of Somadeva Suri, (Daṇḍanīti- samuddeśa, 9.1.18 and Janapada- samuddeśa, 19.1.10).

Relevance of Gandhian Thought in Modern Period with special reference to ‘Satyāgraha’ Philosophy (‘Satyāgrahagītā’ of Panditā Kṣamārāva and ‘Gandhi Gītā’, 5.1-25 of Prof. Indra)

## **Section D**

### **Cardinal Theories and Thinkers of Indian Polity**

#### **Unit: 1**

Cardinal Theories of Indian Polity: ‘Saptāṅga’ Theory of State: 1.Svāmi, 2. Amātya, 3. Janapada 4. Pura, 5. Kośa, 6. Daṇḍa and 7. Mitra (Arthaśāstra, 6.1. Mahābhārata, Śāntiparva, 56.5, Śukranīti, 1.61-62).

‘Maṇḍala’ Theory of Inter-State Relations: 1.Ari, 2. Mitra, 3. Ari-mitra,4.Mitra- mitra, 5.Ari-mitra-mitra;

‘Śāḍgunya’ Policy of War and Peace : 1. Sandhi, 2. Vighraha, 3. Yāna, 4. Āsana, 5. Saṁśraya 6. Dvaidhibhāva.

‘CaturvidhaUpāya’for Balancing the power of State : 1.Sāma 2.Dāma,3.Daṇḍa.4.Bheda;

Three Types of State Power ‘Śakti’: 1.Prabhu- śakti, 2. Mantra- śakti, 3. Utsāha-śakti.

#### **Unit: II**

## Important Thinkers on Indian Polity:

Manu, Kautilya, Kāmandaka, Śukrācārya, SomadevaSuri, Mahatma Gandhi.

## Suggested Readings:

1. Āpastambadharmasūtra - (Trans.), Bühler, George, The Sacred Laws of the Āryas, SBE Vol. 2, Part 1, 1879
2. Arthśāstra of Kautilya - (Ed.) Kangale, R.P. Delhi, Motilal Banarasidas 1965
3. Atharvavedasamhitā - (Trans.) R.T.H. Griffith, Banaras, 1896-97, rept. (2 Vols) 1968.
4. Baudhāyanadharmasūtra - (Ed.) Umesha Chandra Pandey, Chowkhamba Sanskrit Series Office, Varanasi, 1972.
5. Mahābhārata (7 Vols) - (Eng. Tr.) H.P. Shastri, London, 1952-59.
6. Manu's Code of Law - (Ed. & Trans.) : Olivelle, P. (A Critical Edition and Translation of the Manava- Dharmasāstra), OUP, New Delhi, 2006.
7. Rāmāyaṇa of Vālmīki — (Eng. Tr.) H.P. Shastri, London, 1952-59. (3 Vols)
8. Ṛgvedasamhitā (6 Vols)- (Eng. Tr.) H.H. Wilson, Bangalore Printing & Publishing Co., Bangalore, 1946.
9. Śatapathabrāhmaṇa - (with Eng. trans. ed.) Jeet Ram Bhatt, Eastern (3 Vols), BookLinkers, Delhi, 2009.
10. Viṣṇupurāṇa - (Eng. Tr.) H.H. Wilson, PunthiPustak, reprint, Calcutta, 1961.
11. Yājñavalkyasmṛiti with Mitākṣarā commentary - Chowkhamba Sanskrit Series Office, Varanasi, 1967
12. अ गुत्तरणनकाय (1—4 भाग) कच बनारसकच 1980।
13. कौरटलीय अथाशास्त्र—गहन्ददी अनुवाद—उदयवीर शास्त्री, मेहरचन्द लछमनदास, ददलली, 1968।
14. ददगघणनकाय (1—2 भाग)—सम्पा० जे० कश्यपणबहारकच 1958।
15. नीणतवाक्यामृतम्—सोमदवेसूररणवरणचत, व्या० रामचन्द्र मालवीय, चौखम्बा णवघाभवन, वाराणसी, 1972।
16. बृहत्स णहता—वराहणमणहरणवरणचत, गहन्ददी अनुवाद—बलदवेप्रसाद णमश्र, खेमराज श्रीकृष्णदास प्रकाशन, मुम्बई।
17. महाभारत (1-6 भाग)-गहन्ददी अनुवादसणहत, (अनु०) रामनारायण दत्त शास्त्री पाण्डेय, गीताप्रेस, गोरखपुर।
18. मनुस्मृणत (1-13 भाग) — (सम्पा० एव व्या०) उर्ममला रुस्तगी, जे.पी. पणललशशग हाउस, ददलली, 2005।
19. णवष्णुपुराण-गहन्ददी अनुवादसणहत, (अनु०) मुणनलाल गुप्त, गीताप्रेस, गोरखपुर।
20. शतपथब्राह्मण (1-5 भाग)—(माध्यणन्दनीय शाखा) —सायणाचाया एव हररस्वामीटीकासणहत, ददलली, 1987.
21. शुक्रनीणत-गहन्ददी अनुवाद, ब्रह्मश कर णमश्र, चौखम्बा स स्कृतसीरीज, वाराणसी, 1968।
22. सत्याग्रहगीता—पणण्डता क्षमाराव, पेररस, 1932।
23. नाटाणी, प्रका नारायण—प्राचीनभारत के राजनीततक विचारक, पोइन्टरपब्लि सम, जयपुर, 2002।

24. ससन्हा विनोद ँ ससन्हा रेखा—प्राचीन भारतीय इततहास ँ राजनैतक र्चन्तन, राधा
25. Altekar, A.S - State and Government in Ancient India, MotilalBanarsidass, Delhi, 2001.
26. Altekar, A.S - The Position of Women in Hindu Civilization, Delhi, 1965.
27. Belvalkar, S.K.- Mahābhārata :Śāntiparvam, 1954.
28. Bhandarkar , D.R. - Some Aspects of Ancient Indian Hindu Polity,Banaras Hindu University Bharadwaj, Ramesh: Vajrasūcī of Aśvaghōṣa (Varṇa-Jāti through the Ages), Vidyanidhi, Delhi
29. Gharpure, J.R. - Teaching of Dharmaśāstra, Lucknow University,1956.
30. Ghosal, U.N. - A History of Indian Political Ideas, Bombay,1959.
31. Jayaswal, K.P.- Hindu Polity, Bangalore, 1967.
32. Jha, M.N. -Modern Indian Political Thought, MeenakshiParkashan, Meerut, UP.
33. Law, N. S. - Aspect of Ancient Indian Polity, Calcutta, 1960.
34. Maheshwari, S. R. -Local Government in India, Orient Longman, New Delhi,
35. Mehta, V.R. - Foundations of Indian Political Thought, Manohar Publisher, Delhi, 1999.
36. Pandey, G.C.-Jaina Political Thought, Jaipur Prakrit Bharti, 1984.
37. Prabhu, P.H.- Hindu Social Organisation, Popular Prakashan, Mumbai, 1998
38. Prasad, Beni - Theory of Government in Ancient India, Allahabad, 1968.
39. Saletore, B.A. - Ancient Indian Political Thought and Institutions, Bombay, 1963.
40. Sharma, R. S. - Aspects of Political Ideas and Institutions in Ancient India,
41. MotilalBanarsidass, Delhi, 1996.
42. Sharma, S.L. -Smṛtis, A Philosophical Study, Eastern Book Linkers, Delhi, 2013
43. Singh, G.P. & Singh, S.Premananda - Kingship in Ancient India: Genesis and Growth,Akansha Publishing House, Delhi, 2000.
44. Sinha, K.N. - Sovereignty in Ancient Indian Polity, London,1938.
45. Valavalkar, P.H. — Hindu Social Institutions, Manglore, 1939

### *Skill Enhancement Course (SEC)*

## **SEC-1: Acting and Script Writing**

**Credits 02**

### **SEC1T: Acting and Script Writing**

#### **Course Contents:**

**Section A:** Acting (Abhinaya)

**Section B:** Script Writing (Pāṭakathālekhaṇa)

#### **Section A**

#### **Acting (Abhinaya)**

#### **Unit: I**

- a. Persons competent for presentation (acting) :  
kuśala (skilful), vidagdha (learned), pragalbha (bold in speech), jitaśramī (inured to hard-work) .
- b. Lokadharmī and Nātyadharmī Abhinaya
- c. Nātya-prayoktā-gaṇa (members of theatrical group) :  
sūtradhāra (director), nāṭyakāra (playwrighter), naṭa (actor) kuśīlava(musician), bhārata, nartaka (dancer), vidūṣaka (jester) etc.

### Unit: II

(i.) Assignment of role:

- a. General principles of distribution
- b. Role of minor characters
- c. Role of women characters
- d. Special cases of assigning of role

(ii.) Kinds of roles: anurūpa (natural), virūpa (unnatural), rūpānusariṇī (imitative)

### Unit: III

Definition of abhinaya and its types:

- a. Āṅgika (gestures): aṅga, upāṅga and pratyāṅga
- b. Vācika(oral): svāra, sthāna, varṇa, kāku, bhāṣā .
- c. Sāttvika (representation of the Involuntary gestures)
- d. Āhārya: pusta, alaṅkāra, aṅgaracanā, sañjīva (dresses and make-up)

### Section B

### Script Writing

### Unit: I

**Types of dramatic production:**

sukumāra (delicate), āviddha (energetic).

Nature of plot (vastu): Ādhikārika (principal), Prāsaṅgika (subsidiary), Dṛśya (presentable), Sūchya (restricted scenes).

### Unit: II

**Division of Plot**

- a. Source of plot: Prakhyāta (legendary), Utpādyā (invented), Mīśra (mixed);
- b. Objectives of plot- Kārya (dharma, artha, kāma);
- c. Elements of plot- Five kinds of Arthaprakṛtis (caustations), Kāryāvasthā (stages of the action of actor); Sandhis (junctures) and their sub-divisions (segments)
- d. Five kinds of Arthopakṣepaka (interludes);

### Unit: III

#### Dialogue writing: kinds of saṁvāda ( dialogue)

- Sarvaśrāvya or Prakāśa (aloud)
- Aśrāvya or Svagata (aside)
- Niyataśrāvya : Janāntika (personal address), Apavārita (confidential)
- Ākāśabhāṣita (conversation with imaginary person).

### Unit: IV

- Duration of play
- Three Unities: Time, Actions and place.
- Starting of a play: Pūrvaraṅga –Raṅgadvāra, Nāndī, Prastāvanā, Prarocanā.
- Analysis of acting, plot and dialogue in the context of Abhijñānaśākuntalam.

#### Suggested Readings:

- Ghosh, M.M.: Nāṭyaśāstra of Bharatamuni.
- M.M. Ghosh, Nāṭyśāstra of Bharatamuni, vol-1, Manisha Granthalaya, Calcutta, 1967.
- Hass, The Daśarūpaka : A Treatise on Hindu Dramaturgy, Columbia University, NewYork , 1912.
- Adyarangachrya, Introduction to Bharata's Nāṭyaśātra, Popular Prakashan Bombay, 1966.
- हजारी प्रसाद , णिवेदी , नाट्यशास्त्र की भारतीय प रपरा और दशरूपक , राजकमल प्रकाशन ददलली ,1963.
- राधावल्लभ , णिपाठी , भारतीय नाट्यशास्त्र की परम्परा और णवश्व र गम च , प्रणतभा प्रकाशन , ददलली ,1999.
- राधावल्लभ , णिपाठी , भारतीय नाट्य स्वरूप और पर परा , हररशसह गौर णवश्वणवघालय , सागर , 1988.
- वाचस्पणत , गैरोला — भारतीय नाट्यपरम्परा और अणभनयदपाण , इलाहाबाद , 1967.

Or

### SEC-1: Reading skills in Brāhmī Scripts

Credits 02

#### SEC1T: Reading skills in Brāhmī Scripts

##### Course Contents:

Section A: Brāhmī Alphabet

Section B: Translation

Section C: Kind of Scripts

### Section A

#### Brāhmī alphabets

##### Unit: I:

Early Brāhmī alphabet - Aśokan period

### Section B

#### Translation to variations – up to 4th century C.E

##### Unit: I

Translation to variations – up to 4th century C.E.

### Section C

#### Kind of script

Unit - I: North Indian

Unit - II: South Indian

Unit - III: East Indian

Unit - IV: West Indian

Unit - V: Vākāṭaka variety

#### Suggested Readings:

1. Dani, A.H. Indian Paleography, 1963
2. Upasak, C.S. History & Paleography of Mauryan Brāhmī Script, 1960
3. Verma, T.P. Paleography of Brāhmī script in North India, 1971
4. ओझा, गौ. ही. भारतीय प्राचीन णलणपमाला
5. पाण्डये, राजबली : अशोक के अणभलेख, 1967

### Generic Electives ( GE)

**GE-3: Indian Aesthetics**

**Credits 06**

**GE3T: Indian Aesthetics**

**Course Contents:**

- Section A: Aesthetics ( Saundaryaśāstra), its nature and components  
Section B: Aesthetic experience ( Rasa) and its process  
Section C: Aesthetic elements (saundarya - tattva)  
Section D: Prominent thinkers on Aesthetics

## **Section A**

### **Aesthetics ( Saundaryaśāstra), its nature and components**

#### **Unit: I**

Beauty (Saundarya): its definition, nature and components: vāya,rūpa, vacana, hāva

#### **Unit: II**

Discussion of synonyms of the term Beauty (Saundarya) : ramaṇīyatā, śucitā, lāvaṇya, cārutā, kānti, vicchitti, madhuratā, mugdhatā, manohāritā, śrī.

## **Section B**

### **Aesthetic experience (Rasa) and its process**

#### **Unit: I**

Nature of rasa (Aesthetic experience) according to Sāhityadarpaṇa, aesthetic enjoyment – eternal bliss, the ultimate reality (ānandamayātā, alaukikatā).

#### **Unit: II**

Constituents of rasa: bhāva (human feelings and emotions) vibhāva (causes or determinants), anubhāva (voluntary gestures), sātṭvika bhāva (Involuntary gestures), vyabhicāri bhāva (transitory states) and sthāyibhāva (basic mental states), sahrdaya / sāmājika (Connoisseur / Spectator). anukārya, anukartā.

#### **Unit: III**

sādhāraṇīkaraṇa (Generalization), four mental stages of rasa realization: vikāsa (cheerfulness), vistāra (exaltation), kṣobha (agitation), vikṣepa (perturbation). Number of rasas according to Bharat.

## **Section C**

### **Aesthetic elements (saundarya - tattva)**

#### **Unit: I**

Art as the mode of expression of saundarya –in fine arts (Architecture, Sculpture and Painting).

#### **Unit: II**

Main aesthetic elements of literary arts (Poetry and Drama) : alānkāra, rīti, dhvani,vakrokti & aucitya.

## Section D

### Prominent thinkers of Indian Aesthetics

#### Unit: I

Bharata, Bhāmaha, Vāmana, Daṇḍī, Ānandavardhana Abhinavagupta, Kuntaka, Mahimabhaṭṭa, Kṣemendra, Vishvanātha and Jagannātha.

#### Unit: II

Perception of beauty in Drama from cultural, social and aesthetical point of view in the context of Abhijñānaśākuntalam.

#### Suggested Readings:

1. Sāhityadarpaṇa of Vishvanatha, (Based on karikas3/1-28).
2. Kane P.V., History of Sanskrit Poetics pp.352-391, i. Upadhyaya, Baladeva, Sanskrit Ālocanā (for six schools)
3. Kane P.V., History of Sanskrit Poetics
4. Pandey, Kantichandra: Comparative Aesthetics, vol.1 Chowkhamba Sanskrit series office Varanasi, 2008
5. Gnoli, R. : The Aesthetic Experience according to Abhinavagupta, Chowkhamba Sanskrit series office Varanasi.
6. चतुर्वेदी, ब्रजमोहन भारतीय सौन्दर्यादशान पृ० 42—60.
7. चतुर्वेदी, ब्रजमोहन भारतीय सौन्दर्यादशान पृ० 37—42.
8. चतुर्वेदी ब्रजमोहन भारतीय सौन्दर्यादशान पृ० 61—76.
9. कृष्णकुमार अल कारशास्त्र का इणतहास, साणहत्य भण्डार,मेरठ,199
10. उपाध्याय बलदवे स स्कृत—आलोचना, णहन्ददी सणमणत, सचूना णवभाग, उ. प्र., 1963
11. कृष्णकुमार अल कारशास्त्र का इणतहास, साणहत्य भण्डार,मेरठ,1998
12. Coomarswami A : Introduction to Indian Art, Theosophical Society , Adyar, 1956.

Or

**GE-3: Fundamentals of Indian Philosophy**

**Credits 06**

**GE3T: Fundamentals of Indian Philosophy**

#### Course Contents:

Section A: General Introduction



Section B: Schools of Indian Philosophy

Section C: Problems in Indian Philosophy

## **Section A**

### **Fundamentals of Philosophy**

#### **Unit: I**

Darśana - concept and aims, Classification of Indian Philosophical schools,

#### **Unit: II**

Salient features of Indian Philosophy

## **Section B**

### **Schools of Indian Philosophy**

#### **Unit: I**

#### **Heterodox Schools**

- Cārvāka – General introduction with emphasis on Challenge to Veda, Rejection of Transcendental Entities, Ethics (Based on Sarvadarshansamgrah)
- Jainism – General introduction with emphasis on Anekāntavāda, Syādvāda, Saptabhaṅginaya, triratna
- Buddhism- General Introduction with emphasis on Four Noble Truths

#### **Unit: II**

#### **Orthodox Schools of Philosophy**

- Sāṃkhya – General Introduction with emphasis on prakṛti, guṇatraya & puruṣa Entities (Based on Sāṃkhyakārikā)
- Yoga - Eight fold path of Yoga (Based on Yogasūtra Sādhana-pāda and their on Yogabhāṣya thereon)

#### **Unit: III**

Nyāya –General introduction with emphasis on Vaiśeṣika : Seven Padārthas (Based on Tarkasamgrah)

#### **Unit: IV**

Advaita Vedānta – General introduction with emphasis a Brahman, Māyā, Jīva and Jagat (Based on Vedāntasāra)

#### **Unit: V**

Mīmāṃsā - Svataḥ Prāmāṇyavāda

**Unit: VI**

Bhakti Schools of Vedānta – General introduction with emphasis on God, Īśvara & nature of bhakti

**Section C**

**Problems in Indian Philosophy**

**Unit: I**

**Epistemology:** six pramāṇas

**Unit: II**

**Metaphysics:** realism, idealism, Causation - Satkāryavāda. Asatkāryavāda, Pariṇāmavāda, Vivartavāda, svabhāvavāda, consciousness and matter, theories of self

**Unit: III**

**Ethics:** Karma & Punarjanma theory, Liberation

**Suggested Readings:**

1. Bhartiya, Mahesh - Bhāratīya Darśana Kī Pramukha Samasyāem, Ghaziabad, 1999.
2. Chatterjee, S. C. & D. M. Datta - Introduction to Indian Philosophy, Calcutta University, Calcutta, 1968 (Hindi Translation also).
3. Chatterjee, S. C. – The Nyāya Theory of Knowledge, Calcutta, 1968.
4. Hiriyanna, M. - Outline of Indian Philosophy, London, 1956 (also Hindi Translation).
5. Shastri, Kuppaswami, A Primer of Indian Logic, 1951 (only introduction).
6. Bhartiya, Mahesh - Causation in Indian Philosophy, Ghaziabad, 1975.
7. O’Flaherty, Wendy Doniger – Karma and Rebirth in Classical Indian Tradition, MLBD, Delhi, 1983.
8. Pandey, Ram Chandra - Panorama of Indian Philosophy (also Hindi version), M.L.B.D., Delhi, 1966.
9. Radhakrishnan, S. - Indian Philosophy, Oxford University Press, Delhi, 1990.
10. Raja, Kuhnian - Some Fundamental Problems in Indian Philosophy, MLBD, Delhi, 1974.
11. Rishi, Uma Shankar (Ed.), Sarva-Darshana\_Samgraha, Chowkhamba Vidyabhawan, Varansi, 1984.

**Or**

**GE-3: Ancient Indian Polity**

**Credits 06**

**GE3T: Ancient Indian Polity**

**Course Contents:**

Section A: Name, Scope and Origin of Ancient Indian Polity

Section B: Types and Nature of the State

Section C: Kingship, Council of Ministers and Assemblies

Section D: Law and Justice, Taxation and Inter- State Relations

## Section A

### Name, Scope and Origin of Ancient Indian Polity

#### Unit: I

#### Name, Scope and Sources of the Science of Polity

- Name of Ancient Indian Polity: Daṇḍanīti, Dharmasāstra, Nītisāstra;
- Scope of Indian Polity: Relation with Dharma, Artha and Nīti;
- Sources :Vedic Literature, Purāṇas, Rāmāyaṇa, Mahābhārata, Dharmasāstra, Kautilya's Arthasāstra and Nīti –sāstra

#### Unit: II

#### Origin of the State'Daṇḍanīti':

- Origin of State'Daṇḍanīti':Mātsyanyāya- Theory -( Arthasāstra 1.1.3, Mahābhārata, Śānti parva, 67.17-28, Manusmṛti,7.20)
- Divinity of the King'Rājā' – (Arthasāstra,1.9, Mahābhārata, Śānti parva,67.43-48, ,Manusmṛti, 7.4-7)

## Section B

### Types and Nature of the State

#### Unit: I

#### Types of the State:

- Rājya,Svrājya,Bhojya,Vairājya,Mahārājya, Sāmrajya concept in Aitreya Brāhmaṇa (8.3.13-14 and 8.4.15-16)
- Republics in Buddhist Literature (Dighnikāya, MahāparinibbāṇaSūta, Anguttaranikāya,1.213;4.252,256)

#### Unit: II

#### Nature of the State:

- With special reference to Saptānga-Theory: 1. Svāmī, 2. Amātya, 3. Janapada, 4. Pura, 5. Kośa, 6. Daṇḍa and 7. Mitra (Arthasāstra,6.1; Manusmṛti, 9.294)

## Section C

### Problems in Indian Philosophy

#### Unit: I

##### Kingship and Council of Ministers:

- Kingship :Royal Succession, Coronation Ceremony, King as a Public Servent (Sukranīti,4.2.130,137), King as a Trustee(Arthaśāstra,10.3),
- King as Upholder of the Moral Order(Mahābhārata, Śānti parva,120.1-35; Manusmṛti, 7.1-35);
- Council of Ministers : Ratni Council in Vedic age Śatapathabrāhmaṇa, 5.2.5.1);
- Council of Ministers in Kauṭilya's Arthaśāstra (1.4,1.5,1.11) and Śukranīti,(2.70- 72)

#### Unit: II

##### Central Assemblies and Local Administration:

- Central Assembly in Vedic Literature : 'Sabhā', 'Samiti' in Atharvaveda (7.12.1;12.1.6) and 'Vidatha' in Ṛgveda (10.85.26 ):
- Town Assembly: 'Paura- Janpada' in Rāmāyaṇa and Mahābhārata;
- Village Council: Sabhā, Pañcakula, Pañcāyata

## Section D

### Law, Justice, Taxation and Inter-State Relations

#### Unit: I

##### Nature and Sources of Law 'Dharma':

- Four types of Source of Law 'Dharma':1.'Dharma', 2. Vyavahāra', 3.'Caritra' and 4. 'Rājaśāsana';
- Four types of Enforcement of Law: 1. Rules of Castes 'Jatidharma', 2. Local Customs 'Janapadadharma', 3. Bye-laws of Guilds 'Śreṇīdharmā' and 4. Family Traditions 'Kuladharmā'

#### Unit: II

##### Judicial administration and Courts:

- King as Head and Fountain Sources of all Justice, Qualities of Chief Justice-'Pradvivak 'and members of Jury-'Sabhāsadah, (Shukraniti, 4.5.69-196)
- Two types of Royal Courts 'Dharmasthīya' and 'Kaṇṭakaśodhana' in Arthaśāstra (3.1-20)
- Social and local Courts situated in Villages-' Kula', 'Puga', 'Dharmaśāsana'.

#### Unit: III

##### Taxation Policy of State:

- Reasonable and Equitable Taxation Policy 'Śāstranīta' permitted by Dharmasāstra (Mahābhārata, Śānti parva, 71.10-25, Manusmṛti, 7.127, 144) ;
- Criticism of unlawful taxation policy in Mahābhārata, Śānti parva (87.19-18-22, 88.4-7)
- Two Types of Tax Sources in Arthasāstra -1.'Aya- sarira' and 2' Aya-mukha'(Altekar, A.S , State and Government in Ancient India, pp.262 267; Sahay, Shiva Swarup, , Prachin Bharaa ka Samajika evam Arthika Itihas, pp.456-458)

#### Unit: IV

#### Inter-State Relations of State:

- Brief survey of 'Maṇḍala' Theory of Inter- State Relations; Principles and means of Diplomacy : 1.Sāma 2.Dāma,3 Danda.4.Bheda;
- Diplomacy of War and Peace – 'Śāḍgunya theory:1.Sandhi, 2.Vigraha, 3.Yāna, 4.Āsana, 5.Sansraya and, 6.Dvaidhībhāva (Altekar, A.S , State and Government in Ancient India, pp.291-308; Satyaketu Vidyalankar, Prachin Bharatiya Shasana Vyavastha aur Rajashastra, pp.363- 376)

#### Suggested Readings:

1. Arthashastra of Kautilya-(ed.) Kangale, R.P. Delhi, Motilal Banarasidas 1965
2. Atharvaveda samhita- (Trans.) R.T.H. Griffith, Banaras, 1896-97, rept.(2 Vols) 1968.
3. Mahabharata (7 Vols)- (Eng. Tr.) H.P. Shastri, London, 1952-59.
4. Manu's Code of Law- (ed. & trans.) : Olivelle, P. ( A Critical Edition and Translation of the Mānava- Dharmaśāstra), OUP, New Delhi, 2006.
5. Ramayana of Valmiki - (Eng. Tr.) H.P. Shastri, London, 1952-59. (3 Vols)
6. Rgveda samhita (6 Vols)- (Eng. Tr.) H.H. Wilson, Bangalore Printing &Publishing Co., Bangalore, 1946. 7. Satapatha brahmana- (with Eng. trans. ed.) Jeet Ram Bhatt, Eastern (3 Vols) Book Linkers, Delhi, 2009.
7. अ गुतर णनकाय (1-4 भाग) कच बनारसक्च1980
8. कौरटलीय अथाशास्त्र -णहन्ददी अनुवाद -उदयवीर शास्त्री, मेहरचन्द लछमनदास, ददलली,1968.
9. दीघणनकाय (1-2 भाग) कचसम्पा० जे० कश्यप णबहार, 1958
10. महाभारत (1-6 भाग) - णहन्ददी अनुवाद सणहत, (अनु०) रामनारायण दत्त शास्त्री पाण्डेय गीताप्रेस, गोरखपुर.
11. मनुस्मृणत (1-13 भाग) - (सम्पा० एव व्या०) उर्ममला रुस्तगी, जे.पी. पणललशशग हाउस, ददलली, 2005
12. शतपथब्राह्मण (1-5 भाग) (माध्यणन्दनीय शाखा) -सायणाचाया एव हररस्वामी टीकासणहत, ददलली, 1987.
13. शुक्रनीणत - णहन्ददी अनुवाद, ब्रह्मश कर णमश्र, चौखम्बा स स्कृत सीरीज, वाराणसी, 1968.
14. काणे, पी.वी.-धमाशास्त्र का इणतहास (1-4 भाग) अनु० अजुान चौबे काश्यप,णहन्ददी सणमणत,लखनऊ, 1966—73.
15. गानार, जे.डललयू.- राज्यणवज्ञान और शासन, (अनु०) रामनारायण यादवेन्दु, आगरा, 1972.
16. नाटाणी, प्रकाश नारायण - प्राचीन भारत के राजनीणतक णवचारक, पोइन्दटर पणललशसा, जयपुर, 2002.
17. मोहनचन्द- जैन स स्कृत महाकाव्यों में भारतीय समाज, ईस्टना बुक शलकसा, ददलली, 1989.
18. णवघाल कार, सत्यकेतु - प्राचीन भारतीय शासनव्यवस्था और राजशास्त्र, सरस्वती सदन, मसूरी, 1968.

19. सहायकचणशवस्वरूपकच- प्राचीन भारत का सामाजिक एव आर्थिक इणतहास, मोतीलाल बनारसीदास, ददलली, 2012
24. ढसन्दुहा ढवनोद एव ढसन्दुहा रेखा- प्राचीन भारतीय इणतहास एव राजनैणतक ढचन्दुतन, राधा ढणललकेशन्दुस, ददलली, 1989
25. Altekar, A.S - State and Government in Ancient India, Motilal Banarsidass, Delhi, 2001.
26. Belvalkar, S.K. -Mahabharata: Santi Parvam, 1954.
27. Gharpure, J.R. -Teaching of Dharmashastra, Lucknow University,1956
28. Ghosal, U.N. - A History of Indian Political Ideas, Bombay, 1959.
29. Jayaswal, K.P. - Hindu Polity, Bangalore, 1967.
30. Law, N. S. - Aspect of Ancient Indian Polity, Calcutta, 1960.
31. Maheshwari, S. R. - Local Government in India, Orient Longman, New Delhi,
32. Prasad, Beni - Theory of Government in Ancient India, Allahabad, 1968.
33. Saletore, B.A. - Ancient Indian Political Thought and Institutions, Bombay, 1963.
34. Sharma, R. S. - Aspects of Political Ideas and Institutions in Ancient India, Motilal Banarsidass, Delhi, 1996.
35. Sinha, K.N. - Sovereignty in Ancient Indian Polity, London, 1938.
36. Verma, V.P. - Studies in Hindu Political Thought and its Metaphysical Foundations, Delhi, 1954.

# VIDYASAGAR UNIVERSITY

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**Curriculum for 3 -Year B Sc (HONOURS)  
in  
Botany**

**Under Choice Based Credit System (CBCS)  
w.e.f 2017-2018**

# VIDYASAGAR UNIVERSITY

## B Sc (Honours) in Botany

[Choice Based Credit System]

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks				
							CA	ESE	TOTAL		
<b>Semester-I</b>											
1	I	Core-1		CT1: Algae and Microbiology	6	4-0-0	15	60	75		
				CP1: Algae and Microbiology-Lab		0-0-4					
		Core-2		CT2: Biomolecule and Cell Biology	6	4-0-0	15	60	75		
				CP2: Biomolecule and Cell Biology-Lab		0-0-4					
		GE-1		TBD	6	4/5	15	60	75		
				TBD		2/1					
		AECC-1		English/MIL	2	1-1-0	10	40	50		
		<b>Semester -I: total</b>					<b>20</b>			<b>275</b>	
		<b>Semester-II</b>									
			II	Core-3		CT3: Mycology and Phytopathology	6	4-0-0	15	60	75
	CP3: Mycology and Phytopathology -Lab				0-0-4						
Core-4				CT4: Archegoniate	6	4-0-0	15	60	75		
				CP4: Archegoniate-Lab		0-0-4					
GE-2				TBD	6	4/5	15	60	75		
				TBD		2/1					
AECC-2				ENVS	4		20	80	100		
<b>Semester-II : total</b>					<b>22</b>			<b>325</b>			



Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
							CA	ESE	TOTAL	
2	<b>Semester-III</b>									
	III	Core-5		CT5: Morphology and Anatomy	6	4-0-0	15	60	75	
				CP5: Morphology and Anatomy - Lab		0-0-4				
		Core-6		CT6: Economic Botany	6	4-0-0	15	60	75	
				CP6: Economic Botany-Lab		0-0-4				
		Core-7		CT7: Genetics	6	4-0-0	15	60	75	
				CP7: Genetics -Lab		0-0-4				
		GE-3		TBD	6	4/5	15	60	75	
						2/1				
	SEC-1		TBD	2		10	40	50		
	<b>Semester – III : total</b>					<b>26</b>				<b>350</b>
	<b>Semester-IV</b>									
	IV	Core-8		CT8: Molecular Biology	6	4-0-0	15	60	75	
				CP8: Molecular Biology -Lab		0-0-4				
		Core-9		CT9: Plant Ecology and Phytogeography	6	4-0-0	15	60	75	
				CP9: Plant Ecology and Phytogeography -Lab		0-0-4				
		Core-10		CT10: Plant Systematics	6	4-0-0	15	60	75	
				CP10: Plant Systematics-Lab		0-0-4				
		GE-4		TBD	6	4/5	15	60	75	
						2/1				
		SEC-2		TBD	2		10	40	50	
		<b>Semester – IV : total</b>					<b>26</b>			

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
<b>3</b>	<b>V</b>	<b>Semester-V</b>							
		Core-11		CT11: Reproductive Biology Angiosperms	6	4-0-0	15	60	75
				CP11: Reproductive Biology Angiosperms -Lab		0-0-4			
		Core-12		CT12: Plant Physiology	6	4-0-0	15	60	75
				CP12: Plant Physiology -Lab		0-0-4			
		DSE-1		TBD	6	4-0-0	15	60	75
						0-0-4			
		DSE-2		TBD	6	4-0-0	15	60	75
						0-0-4			
		<b>Semester –V : total</b>					<b>24</b>		
	<b>Semester-VI</b>								
	<b>VI</b>	Core-13		CT13: Plant Metabolism	6	4-0-0	15	60	75
				CP13: Plant Metabolism -Lab		0-0-4			
		Core-14		CT14: Plant Biotechnology	6	4-0-0	15	60	75
				CP14: Plant Biotechnology-Lab		0-0-4			
		DSE-3		TBD	6	4-0-0	15	60	75
						0-0-4			
		DSE-4		TBD	6	4-0-0	15	60	75
						0-0-4			
		<b>Semester – VI : total</b>					<b>24</b>		
<b>Total in all semester:</b>					<b>142</b>			<b>1900</b>	

CC = Core Course , AECC = Ability Enhancement Compulsory Course , GE = Generic Elective , SEC = Skill Enhancement Course , DSE = Discipline Specific Elective , CA= Continuous Assessment , ESE= End Semester Examination , TBD=To be decided , CT = Core Theory, CP=Core Practical , L = Lecture, T = Tutorial ,P = Practical , MIL = Modern Indian Language , ENVS = Environmental Studies ,

### **List of Core Course (CC)**

- CC-1: Phycology and Microbiology
- CC-2: Bio-molecules and Cell Biology
- CC-3: Mycology and Phytopathology
- CC-4: Archegoniate
- CC-5: Anatomy of Angiosperms
- CC-6: Economic Botany
- CC-7: Genetics
- CC-8: Molecular Biology
- CC-9: Plant Ecology and Phytogeography
- CC-10: Plant Systematics
- CC-11: Reproductive Biology of Angiosperms
- CC-12: Plant Physiology
- CC-13: Plant Metabolism
- CC-14: Plant Biotechnology

### **Discipline Specific Electives (DSE)**

DSE-1: Natural Resource Management

Or

DSE-1: Biostatistics

DSE-2: Plant Breeding

Or

DSE-2: Stress Biology

DSE-3: Industrial and Environmental Microbiology

Or

DSE-3: Bioinformatics

DSE-4: Analytical Techniques in Plant Sciences

Or

DSE-4: Research Methodology

### **Skill Enhancement Course (SEC)**

SEC-1: Biofertilizers

Or

SEC-1: Floriculture

SEC-2: Medicinal Botany

Or

SEC-2: Mushroom Culture Technology

### **Generic Electives (GE)**

GE-1: Biodiversity (Microbes, Algae, Fungi and Archegoniate)

GE-2: Plant Ecology and Taxonomy

GE-3: Economic Botany and Plant Biotechnology

GE-4: Plant Anatomy and Embryology

Or

GE-4: Plant Physiology and Metabolism

## Core Courses(CC)

**CC-1: Phycology and Microbiology**

**Credits 06**

**C1T: Phycology and Microbiology**

**Credits 04**

### **Course Contents:**

#### **Unit 1: Introduction to microbial world**

Microbial nutrition, growth and metabolism. Economic importance of viruses with reference to vaccine production, role in research, medicine and diagnostics, as causal organisms of plant diseases. Economic importance of bacteria with reference to their role in agriculture and industry (fermentation and medicine).

#### **Unit 2: Viruses**

Discovery, physiochemical and biological characteristics; classification (Baltimore), general structure with special reference to viroids and prions; replication (general account), DNA virus (T-phage), lytic and lysogenic cycle; RNA virus (TMV).

#### **Unit 3: Bacteria**

Discovery, general characteristics; Types-archaeobacteria, eubacteria, wall-less forms (mycoplasma and spheroplasts); Cell structure; Nutritional types; Reproduction-vegetative, asexual and recombination (conjugation, transformation and transduction).

#### **Unit 4: Algae**

General characteristics; Ecology and distribution; range of thallus organization; Cell structure and components; cell wall, pigment system, reserve food (of only groups represented in the syllabus), flagella; methods of reproduction; Classification; criteria, system of Fritsch, and evolutionary classification of Lee (only upto groups) and Van – den Hoek et.al(1982); Significant contributions of important phycologists (F.E. Fritsch, G.M. Smith, R.N. Singh, T.V. Desikachary, H.D. Kumar, M.O.P. Iyengar). Role of algae in the environment, agriculture, biotechnology and industry.

#### **Unit 5: Cyanophyta and Xanthophyta**

Ecology and occurrence; Range of thallus organization; Cell structure; Reproduction, Morphology and life-cycle of *Nostoc* and *Vaucheria*.

#### **Unit 6: Chlorophyta and Charophyta**

General characteristics; Occurrence; Range of thallus organization; Cell structure; Reproduction. Morphology and life-cycles of *Chlamydomonas*, *Volvox*, *Oedogonium*, *Coleochaete*, *Chara*.

Evolutionary significance of *Prochloron*.

#### **Unit 7: Phaeophyta and Rhodophyta**

Characteristics; Occurrence; Range of thallus organization; Cell structure; Reproduction. Morphology and life-cycles of *Ectocarpus*, *Fucus* and *Polysiphonia*.

**(Practical)****Microbiology**

1. Electron micrographs/Models of viruses – T-Phage and TMV, Line drawings/ Photographs of Lytic and Lysogenic Cycle.
2. Types of Bacteria to be observed from temporary/permanent slides/photographs. Electron micrographs of bacteria, binary fission, endospore, conjugation, root Nodule.
3. Gram staining.
4. Endospore staining with malachite green using the (endospores taken from soil bacteria).
5. Study of bacteria from root nodules/Curd sample.

**Phycology**

Study of vegetative and reproductive structures of *Nostoc*, *Chlamydomonas* (electron micrographs), *Volvox*, *Oedogonium*, *Coleochaete*, *Chara*, *Vaucheria*, *Ectocarpus*, *Fucus* and *Polysiphonia*, *Prochloron* through electron micrographs, temporary preparations and permanent slides.

**Suggested Readings:**

- Lee, R.E. (2008). Phycology, Cambridge University Press, Cambridge. 4th edition.
- Wiley JM, Sherwood LM and Woolverton CJ. (2013) Prescott's Microbiology. 9th Edition. McGraw
- Hill International.
- Kumar, H.D. (1999). Introductory Phycology. Affiliated East-West Press, Delhi.
- 4.Sahoo, D. (2000). Farming the ocean: seaweeds cultivation and utilization. Aravali International, New Delhi.
- Campbell, N.A., Reece J.B., Urry L.A., Cain M.L., Wasserman S.A. Minorsky P.V., Jackson
- R.B. (2008). Biology, Pearson Benjamin Cummings, USA. 8th edition.
- Pelczar, M.J. (2001) Microbiology, 5th edition, Tata McGraw-Hill Co, New Delhi.

**CC-2 : Bio-molecules and Cell Biology****Credits 06****C2T : Bio-molecules and Cell Biology****Credits 04****Course Contents:****Unit-1: Biomolecules**

Types and significance of chemical bonds; Structure and properties of water; pH and buffers.

**Carbohydrates:** Nomenclature and classification; Monosaccharides ; Disaccharides; Oligosaccharides and polysaccharides.

**Lipids:** Definition and major classes of storage and structural lipids; Fatty acids structure and functions; Essential fatty acids; Triacyl glycerols structure, functions and properties; Phosphoglycerides.

**Proteins:** Structure of amino acids; Levels of protein structure-primary, secondary, tertiary and quaternary; Protein denaturation and biological roles of proteins.

**Nucleic acids:** Structure of nitrogenous bases; Structure and function of nucleotides; Types of nucleic acids; Structure of A, B, Z types of DNA; Types of RNA; Structure of tRNA.

### **Unit- 2: Bioenergetics**

Laws of thermodynamics, concept of free energy, endergonic and exergonic reactions, coupled reactions, redox reactions. ATP: structure, its role as a energy currency molecule.

### **Unit- 3: Enzymes**

Structure of enzyme: holoenzyme, apoenzyme, cofactors, coenzymes and prosthetic group; Classification of enzymes; Features of active site, substrate specificity, mechanism of action (activation energy, lock and key hypothesis, induced - fit theory), Michaelis – Menten equation, enzyme inhibition and factors affecting enzyme activity.

### **Unit-4: The cell**

Cell as a unit of structure and function; Characteristics of prokaryotic and eukaryotic cells; Origin of eukaryotic cell (Endosymbiotic theory).

### **Unit- 5: Cell wall and plasma membrane**

Chemistry, structure and function of Plant cell wall. Overview of membrane function; fluid mosaic model; Chemical composition of membranes; Membrane transport – Passive, active and facilitated transport, endocytosis and exocytosis.

### **Unit- 6: Cell organelles**

**Nucleus:** Structure-nuclear envelope, nuclear pore complex, nuclear lamina, molecular organization of chromatin; nucleolus. **Cytoskeleton:** Role and structure of microtubules, microfilaments and intermediary filament. **Chloroplast, mitochondria and peroxisomes:** Structural organization; Function; Semiautonomous nature of mitochondria and chloroplast. **Endomembrane system:** Endoplasmic Reticulum – Structure, targeting and insertion of proteins in the ER, protein folding, processing; Smooth ER and lipid synthesis, export of proteins and lipids; Golgi Apparatus – organization, protein glycosylation, protein sorting and export from Golgi Apparatus; Lysosomes

### **Unit -7: Cell division**

Phases of eukaryotic cell cycle, mitosis and meiosis; Regulation of cell cycle- checkpoints, role of protein kinases.

## **C2P : Bio-molecules and Cell Biology**

**Credits 02**

### **(Practical )**

1. Qualitative tests for carbohydrates, reducing sugars, non-reducing sugars, lipids and proteins.

2. Study of plant cell structure with the help of epidermal peel mount of Onion/*Rhoeo/Crinum*.
3. Demonstration of the phenomenon of protoplasmic streaming in *Hydrilla* leaf.
4. Measurement of cell size by the technique of micrometry.
5. Counting the cells per unit volume with the help of haemocytometer. (Yeast / pollen grains).
6. Study of cell and its organelles with the help of electron micrographs.
7. Cytochemical staining of : DNA- Feulgen Acto carmin and Aceto Orcrin stain and cell wall in the epidermal peel of onion using Periodic Schiff's (PAS) staining technique.
8. Study the phenomenon of plasmolysis and deplasmolysis.
9. Study the effect of organic solvent and temperature on membrane permeability.
10. Study different stages of mitosis and meiosis.

#### **Suggested Readings:**

- Campbell, MK (2012) Biochemistry, 7th ed., Published by Cengage Learning
- Campbell, PN and Smith AD (2011) Biochemistry Illustrated, 4th ed., Published by Churchill Livingstone
- Tymoczko JL, Berg JM and Stryer L (2012) Biochemistry: A short course, 2nd ed., W.H.Freeman
- Berg JM, Tymoczko JL and Stryer L (2011) Biochemistry, W.H.Freeman and Company
- Nelson DL and Cox MM (2008) Lehninger Principles of Biochemistry, 5th Edition., W.H. Freeman and Company.
- Karp, G. (2010). Cell Biology, John Wiley & Sons, U.S.A. 6th edition.
- Hardin, J., Becker, G., Skliensmith, L.J. (2012). Becker's World of the Cell, Pearson Education Inc. U.S.A. 8th edition.
- Cooper, G.M. and Hausman, R.E. (2009) The Cell: A Molecular Approach. 5th edition. ASM Press & Sunderland, Washington, D.C.; Sinauer Associates, MA.
- Becker, W.M., Kleinsmith, L.J., Hardin. J. and Bertoni, G. P. (2009) The World of the Cell. 7<sup>th</sup> edition. Pearson Benjamin Cummings Publishing, San Francisco

**CC-3 : Mycology and Phytopathology**

**Credits 06**

**C3 T : Mycology and Phytopathology**

**Credits 04**

#### **Course Contents:**

##### **Unit- 1: Introduction to true fungi**

General characteristics; Affinities with plants and animals; Thallus organization; Cell wall composition; Nutrition; Classification.

##### **Unit- 2: Chytridiomycota and Zygomycota**

Characteristic features; Ecology and significance; Thallus organisation; Reproduction; Life cycle with reference to *Synchytrium*, *Rhizopus* .

##### **Unit-3: Ascomycota**

General characteristics (asexual and sexual fruiting bodies); Ecology; Life cycle, Heterokaryosis and parasexuality; Life cycle and classification with reference to *Saccharomyces*, *Aspergillus*, *Penicillium*, *Alternaria*, *Neurospora* and *Peziza*.

#### **Unit- 4: Basidiomycota**

General characteristics; Ecology; Life cycle and Classification with reference to black stem rust on wheat *Puccinia* (Physiological Specialization), loose and covered smut (symptoms only), *Agaricus*; Bioluminescence, Fairy Rings and Mushroom Cultivation with special reference to Oyster Mushroom..

#### **Unit- 5: Allied Fungi**

General characteristics; Status of Slime molds, Classification; Occurrence; Types of plasmodia; Types of fruiting bodies.

#### **Unit- 6: Oomycota**

General characteristics; Ecology; Life cycle and classification with reference to *Phytophthora*, *Albugo*.

#### **Unit -7: Symbiotic associations**

Lichen – Occurrence; General characteristics; Growth forms and range of thallus organization; Nature of associations of algal and fungal partners; Reproduction; Mycorrhiza-Ectomycorrhiza, Endomycorrhiza and their significance.

#### **Unit- 8: Applied Mycology**

Role of fungi in biotechnology; Application of fungi in food industry (Flavour & texture, Fermentation, Baking, Organic acids, Enzymes, Mycoproteins); Secondary metabolites (Pharmaceutical preparations); Agriculture (Biofertilizers); Mycotoxins; Biological control (Mycofungicides, Mycoherbicides, Mycoinsecticides, Myconematicides); Medical mycology.

#### **Unit- 9: Phytopathology**

Terms and concepts; General symptoms; Geographical distribution of diseases; Etiology; Symptomology; Host-Pathogen relationships; Disease cycle and environmental relation; prevention and control of plant diseases, and role of quarantine.

Bacterial diseases – Citrus canker and angular leaf spot of cotton. Viral diseases – Tobacco Mosaic viruses, vein clearing. Fungal diseases – Early blight of potato, Black stem rust of wheat, White rust of crucifers.

### **C3P: Mycology and Phytopathology**

**Credits 02**

#### **Practical**

1. Introduction to the world of fungi (Unicellular, coenocytic/septate mycelium, ascocarps & basidiocarps).
2. *Rhizopus*: study of asexual stage from temporary mounts and sexual structures through permanent slides.
3. *Aspergillus* and *Penicillium*: study of asexual stage from temporary mounts. Study of Sexual stage from permanent slides/photographs.
4. *Peziza*: Ascobolus sectioning through ascocarp.
5. *Alternaria*: Specimens/photographs and temporary mounts.



6. *Puccinia*: Herbarium specimens of Black Stem Rust of Wheat and infected Barberry leaves; sections/ mounts of spores on wheat and permanent slides of both the hosts.
7. *Agaricus*: Specimens of button stage and full grown mushroom; sectioning of gills of *Agaricus*, fairy rings and bioluminescent mushrooms to be shown.
8. Study of phaneroplasmodium from actual specimens and /or photograph. Study of *Stemonitis* sporangia.
9. *Albugo*: Study of symptoms of plants infected with *Albugo*; asexual phase study through section/ temporary mounts and sexual structures through permanent slides.
10. Lichens: Study of growth forms of lichens (crustose, foliose and fruticose) on different substrates. Study of thallus and reproductive structures (soredia and apothecium) through permanent slides. Mycorrhizae: ectomycorrhiza and endomycorrhiza (Photographs)
11. Phytopathology : Herbarium specimens of bacterial diseases; Citrus Canker; Angular leaf spot of cotton, Viral diseases: TMV, Vein clearing, Fungal diseases: Early blight of potato, Black stem rust of wheat and White rust of crucifers.

### Suggested Readings:

- Agrios, G.N. (1997) Plant Pathology, 4th edition, Academic Press, U.K.
- Alexopoulos, C.J., Mims, C.W., Blackwell, M. (1996). Introductory Mycology, John Wiley & Sons (Asia) Singapore. 4<sup>th</sup> edition.
- Webster, J. and Weber, R. (2007). Introduction to Fungi, Cambridge University Press, Cambridge. 3<sup>rd</sup> edition.
- Sethi, I.K. and Walia, S.K. (2011). Text book of Fungi and Their Allies, Macmillan Publishers India Ltd.
- Sharma, P.D. (2011). Plant Pathology, Rastogi Publication, Meerut, India.

**CC-4: Archegoniate**

**Credits 06**

**C4T: Archegoniate**

**Credits 04**

### Course Contents:

#### Unit 1: Introduction

Unifying features of archegoniates; Transition to land habit; Alternation of generations.

#### Unit 2: Bryophytes

General characteristics; Adaptations to land habit; Classification; Range of thallus organization.

#### Unit 3: Type Studies- Bryophytes

Classification (up to family), morphology, anatomy and reproduction of *Riccia*, *Marchantia*, *Pellia*, *Porella*, *Anthoceros*, *Sphagnum* and *Funaria*; Pogonatum, Reproduction and evolutionary trends in *Riccia*, *Marchantia*, *Plagichasma* *Anthoceros* and *Funaria* (developmental stages not included). Ecological and economic importance of bryophytes with special reference to *Sphagnum*.

#### Unit 4: Pteridophytes

General characteristics; Classification; Early land plants (*Cooksonia* and *Rhynia*).

### Unit 5: Type Studies- Pteridophytes

Classification (up to family), morphology, anatomy and reproduction of *Psilotum*, *Selaginella*, *Equisetum* and *Pteris* (Developmental details not to be included). Apogamy, and apospory, heterospory and seed habit, telome theory, stelar evolution; Ecological and economic importance.

### Unit 6: Gymnosperms

General characteristics, classification (up to family), morphology, anatomy and reproduction of *Cycas*, *Pinus* and *Gnetum* (Developmental details not to be included); Ecological and economic importance.

## C4P : Archegoniate

Credits 02

### Practical

1. *Riccia* – Morphology of thallus.
2. *Marchantia*- Morphology of thallus, whole mount of rhizoids & Scales, vertical section of thallus through Gemma cup, whole mount of Gemmae (all temporary slides), vertical section of Antheridiophore, Archegoniophore, longitudinal section of Sporophyte (all permanent slides).
3. *Anthoceros*- Morphology of thallus, dissection of sporophyte (to show stomata, spores, pseudocelaters, columella) (temporary slide), vertical section of thallus (permanent slide).
4. *Pellia*, *Porella*- Permanent slides.
5. *Sphagnum*- Morphology of plant, whole mounts of leaf (permanent slide only).
6. *Funaria*- Pogonatum/ Polytrichum Morphology, whole mount of leaf, rhizoids, operculum, peristome, annulus, spores (temporary slides); permanent slides showing antheridial and archegonial heads, longitudinal section of capsule and protonema.
7. *Psilotum*- Study of specimen, transverse section of synangium (permanent slide).
8. *Selaginella*- Morphology, whole mount of leaf with ligule, transverse section of stem, whole mount of strobilus, whole mount of microsporophyll and megasporophyll (temporary slides), longitudinal section of strobilus (permanent slide).
9. *Equisetum*- Morphology, transverse section of internode, longitudinal section of strobilus, transverse section of strobilus, whole mount of sporangiophore, whole mount of spores (wet and dry) (temporary slide), transverse section of rhizome (permanent slide).
10. *Pteris*- Morphology, transverse section of rachis, vertical section of sporophyll, whole mount of sporangium, whole mount of spores (temporary slides), transverse section of rhizome, whole mount of prothallus with sex organs and young sporophyte (permanent slide).

11. *Cycas*- Morphology (coralloid roots, bulbil, leaf), whole mount of microsporophyll, transverse section of coralloid root, transverse section of rachis, vertical section of leaflet, vertical section of microsporophyll, whole mount of spores (temporary slides), longitudinal section of ovule, transverse section of root (permanent slide).
12. *Pinus*- Morphology (long and dwarf shoots, whole mount of dwarf shoot, male and female cones), transverse section of Needle, transverse section of stem, longitudinal section of / transverse section of male cone, whole mount of microsporophyll, whole mount of Microspores (temporary slides), longitudinal section of female cone, tangential longitudinal section & radial longitudinal sections stem (permanent slide).
13. *Gnetum*- Morphology (stem, male & female cones), transverse section of stem, vertical section of ovule (permanent slide)

14. **Botanical excursion.**

**Suggested Readings:**

- Vashistha, P.C., Sinha, A.K., Kumar, A. (2010). Pteridophyta. S. Chand. Delhi, India.
- Bhatnagar, S.P. & Moitra, A. (1996). Gymnosperms. New Age International (P) Ltd Publishers, New Delhi, India.
- Parihar, N.S. (1991). An introduction to Embryophyta: Vol. I. Bryophyta. Central Book Depot. Allahabad.
- Raven, P.H., Johnson, G.B., Losos, J.B., Singer, S.R. (2005). Biology. Tata McGraw Hill, Delhi.
- Vanderpoorten, A. & Goffinet, B. (2009) Introduction to Bryophytes. Cambridge University Press.

**CC-5: Anatomy of Angiosperms**

**Credits 06**

**C5T: Anatomy of Angiosperms**

**Credits 04**

**Course Contents:**

**Unit 1: Introduction and scope of Plant Anatomy:** Applications in systematics, forensics and pharmacognosy.

**Unit 2: Structure and Development of Plant Body**

Internal organization of plant body: The three tissue systems, types of cells and tissues. Development of plant body: polarity, cytodifferentiation and organogenesis during embryogenic development, Root-stem transition, Nodal anatomy – Basic concept.

**Unit 2: Tissues**

Classification of tissues; Simple and complex tissues (no phylogeny); cytodifferentiation of tracheary elements and sieve elements; Pits and plasmodesmata; Wall ingrowths and transfer cells, adcrustation and incrustation, Ergastic substances. Hydathodes, cavities, lithocysts and laticifers.

**Unit 3: Apical meristems**

Evolution of concept of organization of shoot apex (Apical cell theory, Histogen theory, Tunica Corpus theory, continuing meristematic residue, cytohistological zonation); Types of vascular bundles; Structure of dicot and monocot stem. Origin, development, arrangement and diversity in size and shape of leaves; Structure of dicot and monocot leaf, Kranz anatomy. Organization of root apex (Apical cell theory, Histogen theory, Korper-Kappe theory); Quiescent centre; Root cap; Structure of dicot and monocot root; Endodermis, exodermises and origin of lateral root.

#### **Unit 4: Vascular Cambium and Wood**

Structure, function and seasonal activity of cambium; Secondary growth in root and stem. Anomalous secondary growth in *Bignonia*, *Boerhaavia*, *Aristolochia* and *Dracaena*. Axially and radially oriented elements; Types of rays and axial parenchyma; Cyclic aspects and reaction wood; Sapwood and heartwood; Ring and diffuse porous wood; Early and late wood, tyloses; Dendrochronology. Development and composition of periderm, rhytidome and lenticels.

#### **Unit 5: Adaptive and Protective Systems**

Epidermal tissue system, cuticle, epicuticular waxes, trichomes (uni- and multicellular, glandular and nonglandular, two examples of each), stomata (classification); Adcrustation and incrustation; Anatomical adaptations of xerophytes and hydrophytes. Mechanical tissue – distribution and significance.

#### **C5P: Anatomy of Angiosperms**

**Credits 02**

#### **Practical**

1. Study of anatomical details through permanent slides/temporary stain mounts/macerations/museum specimens with the help of suitable examples.
2. Apical meristem of root, shoot and vascular cambium.
3. Distribution and types of parenchyma, collenchyma and sclerenchyma.
4. Xylem: Tracheary elements-tracheids, vessel elements; thickenings; perforation plates; xylem fibres.
5. Wood: ring porous; diffuse porous; tyloses; heart- and sapwood.
6. Phloem: Sieve tubes-sieve plates; companion cells; phloem fibres.
7. Epidermal system: cell types, stomata types; trichomes: non-glandular and glandular.
8. Root: monocot, dicot, secondary growth.
9. Stem: monocot, dicot - primary and secondary growth; periderm; lenticels.
10. Leaf: isobilateral, dorsiventral, C4 leaves (Kranz anatomy).
11. Adaptive Anatomy: xerophytes, hydrophytes.
12. Secretory tissues: cavities, lithocysts and laticifers.

#### **Suggested Readings:**

- Dickison, W.C. (2000). Integrative Plant Anatomy. Harcourt Academic Press, USA.
- Fahn, A. (1974). Plant Anatomy. Pergmon Press, USA.
- Mauseth, J.D. (1988). Plant Anatomy. The Benjamin/Cummings Publisher, USA.
- Evert, R.F. (2006) Esau's Plant Anatomy: Meristems, Cells, and Tissues of the Plant Body: Their Structure, Function and Development. John Wiley and Sons, Inc.

**CC-6: Economic Botany**

**Credits 06**

**C6T: Economic Botany**

**Credits 04**

**Course Contents:**

**Unit 1: Origin of Cultivated Plants**

Concept of Centres of Origin, their importance with reference to Vavilov's work. Examples of major plant introductions; Crop domestication and loss of genetic diversity; evolution of new crops/varieties, importance of germplasm diversity.

**Unit 2: Cereals**

Wheat and Rice (origin, morphology, cultivation, management processing & uses); Brief account of millets.

**Unit 3: Legumes**

Origin, morphology cultivation, management and uses of Chick pea, Pigeon pea and fodder legumes. Importance to man and ecosystem.

**Unit 4: Sources of sugars and starches**

Morphology cultivation, management and processing of sugarcane, products and by-products of sugarcane industry. Potato – morphology, propagation & uses.

**Unit 5: Spices**

Listing of important spices, their family and part used. Economic importance with special reference to fennel, saffron, clove and black pepper

**Unit 6: Beverages**

Tea, Coffee (morphology, processing & uses)

**Unit 7: Sources of oils and fats**

General description, classification, extraction, their uses and health implications groundnut, coconut, linseed, soybean, mustard and coconut (Botanical name, family & uses). Essential Oils: General account, extraction methods, comparison with fatty oils & their uses.

**Unit 8: Natural Rubber**

Para-rubber: tapping, processing and uses.

**Unit 9: Drug-yielding plants**

Therapeutic and habit-forming drugs with special reference to *Cinchona*, *Digitalis*, *Papaver* and *Cannabis*; Tobacco (Morphology, processing, uses and health hazards).

**Unit 10: Timber plants**

General account with special reference to teak and pine.

**Unit 11: Fibers**

Classification based on the origin of fibers; Cotton, Coir and Jute (morphology, extraction and uses).

## **C6P: Economic Botany**

**Credits 02**

### **Practical**

1. **Cereals:** Wheat (habit sketch, L. S/T.S. grain, starch grains, micro-chemical tests)  
Rice (habit sketch, study of paddy and grain, starch grains, micro-chemical tests).
2. **Legumes:** Soybean, Groundnut, (habit, fruit, seed structure, micro-chemical tests).
3. **Sources of sugars and starches:** Sugarcane (habit sketch; cane juice- micro-chemical tests), Potato (habit sketch, tuber morphology, T.S. tuber to show localization of starch grains, w.m. starch grains, micro-chemical tests).
4. **Spices:** Black pepper, Fennel and Clove (habit and sections).
5. **Beverages:** Tea (plant specimen, tea leaves), Coffee (plant specimen, beans).
6. **Sources of oils and fats:** Coconut- T.S. nut, Mustard–plant specimen, seeds; tests for fats in crushed seeds.
7. **Essential oil-yielding plants:** Habit sketch of *Rosa*, *Vetiveria*, *Santalum* and *Eucalyptus* (specimens/photographs).
8. **Rubber:** specimen, photograph/model of tapping, samples of rubber products.
9. **Drug-yielding plants:** Specimens of *Digitalis*, *Papaver* and *Cannabis*.
10. **Tobacco:** specimen and products of Tobacco.
11. **Woods:** *Tectona*, *Pinus*: Specimen, Section of young stem.
12. **Fiber-yielding plants:** Cotton (specimen, whole mount of seed to show lint and fuzz; whole mount of fiber and test for cellulose), Jute (specimen, transverse section of stem, test for lignin on transverse section of stem and fiber).

### **Suggested Readings:**

- Kochhar, S.L. (2012). Economic Botany in Tropics, MacMillan & Co. New Delhi, India.
- Wickens, G.E. (2001). Economic Botany: Principles & Practices. Kluwer Academic Publishers, The Netherlands.
- Chrispeels, M.J. and Sadava, D.E. 1994 Plants, Genes and Agriculture. Jones & Bartlett Publishers.

## **CC-7: Genetics**

**Credits 06**

## **C7T: Genetics**

**Credits 04**

### **Course Contents:**

#### **Unit 1: Mendelian genetics and its extension**

Mendelism: History; Principles of inheritance; Chromosome theory of inheritance; Autosomes and sex chromosomes; Probability and pedigree analysis; Incomplete dominance and codominance; Multiple alleles, Lethal alleles, Epistasis, Pleiotropy, Recessive and Dominant traits, Penetrance and Expressivity, Numericals; Polygenic inheritance.

#### **Unit 2: Extra-chromosomal Inheritance**

Chloroplast mutation: Variegation in Four o'clock plant; Mitochondrial mutations in yeast; Maternal effects-shell coiling in snail; Infective heredity- Kappa particles in *Paramecium*.

### **Unit 3: Linkage, crossing over and chromosome mapping**

Linkage and crossing over-Cytological and molecular basis of crossing over; Recombination frequency, two factor and three factor crosses; Interference and coincidence; Numericals based on gene mapping; Sex Linkage.

### **Unit 4: Variation in chromosome number and structure**

Deletion, Duplication, Inversion, Translocation, Position effect, Euploidy and Aneuploidy

### **Unit 5: Gene mutations**

Types of mutations; Molecular basis of Mutations; Mutagens – physical and chemical (Base analogs, deaminating, alkylating and intercalating agents); Detection of mutations: CIB method. Role of Transposons in mutation. DNA repair mechanisms.

### **Unit 6: Fine structure of gene**

Classical vs molecular concepts of gene; Cis-Trans complementation test for functional allelism; Structure of Phage T4, rII Locus.

### **Unit 6. Population and Evolutionary Genetics**

Allele frequencies, Genotype frequencies, Hardy-Weinberg Law, role of natural selection, mutation, genetic drift. Genetic variation and Speciation.

## **C7P: Genetics**

**Credits 02**

### **Practical**

1. Demonstration on pretreatment, fixation, staining and squash and smear preparation.
2. Study of Mitosis from Onion / Garlic / Lentil root.
3. Study of Meiosis with pollen mother cell (PMC) of Onion / Solanum / Datura by smear preparation.
4. Mendel's laws through seed ratios. Laboratory exercises in probability and chi-square.
5. Chromosome mapping using point test cross data.
6. Pedigree analysis for dominant and recessive autosomal and sex linked traits.
7. Incomplete dominance and gene interaction through seed ratios (9:7, 9:6:1, 13:3, 15:1, 12:3:1, 9:3:4).
8. Blood Typing: groups & Rh factor.
9. Study of aneuploidy: Down's, Klinefelter's and Turner's syndromes.
10. Photographs/Permanent Slides showing Translocation Ring, Laggards and Inversion Bridge.
11. Study of human genetic traits: Sickle cell anemia, Xeroderma Pigmentosum, Albinism, red-green Colour blindness, Widow's peak, Rolling of tongue, Hitchhiker's thumb and Attached ear lobe.

### **Suggested Readings:**

- Gardner, E.J., Simmons, M.J., Snustad, D.P. (1991). Principles of Genetics, John Wiley & sons, India. 8th edition.
- Snustad, D.P. and Simmons, M.J. (2010). Principles of Genetics, John Wiley & Sons Inc., India. 5th edition.
- Klug, W.S., Cummings, M.R., Spencer, C.A. (2009). Concepts of Genetics. Benjamin Cummings, U.S.A. 9th edition.
- Griffiths, A.J.F., Wessler, S.R., Carroll, S.B., Doebley, J. (2010). Introduction to Genetic Analysis. W. H. Freeman and Co., U.S.A. 10th edition.

**CC-8: Molecular Biology**

**Credits 06**

**C8T: Molecular Biology**

**Credits 04**

**Course Contents:**

**Unit- 1: Nucleic acids: Carriers of genetic information**

Historical perspective; DNA as the carrier of genetic information (Griffith's, Hershey & Chase, Avery, McLeod & McCarty, Fraenkel-Conrat's experiment).

**Unit -2. The Structures of DNA and RNA / Genetic Material**

DNA Structure: Miescher to Watson and Crick- historic perspective, DNA structure, Salient features of double helix, Types of DNA, Types of genetic material, denaturation and renaturation, cot curves; Organization of DNA-Prokaryotes, Viruses, Eukaryotes. RNA Structure- Organelle DNA -- mitochondria and chloroplast DNA. The Nucleosome-Chromatin structure- Euchromatin, Heterochromatin- Constitutive and Facultative heterochromatin.

**Unit- 2: The replication of DNA**

Chemistry of DNA synthesis (Kornberg's discovery); General principles – bidirectional, semiconservative and semi discontinuous replication, RNA priming; Various models of DNA replication, including rolling circle,  $\theta$  (theta) mode of replication, replication of linear ds-DNA, replication of the 5' end of linear chromosome; Enzymes involved in DNA replication.

**Unit- 3: Central dogma and genetic code**

Key experiments establishing- The Central Dogma (Adaptor hypothesis and discovery of mRNA template), Genetic code (deciphering & salient features)

**Unit 4: Transcription**

Transcription in prokaryotes and eukaryotes. Principles of transcriptional regulation; Prokaryotes: Regulation of lactose metabolism and tryptophan synthesis in *E.coli*. Eukaryotes: transcription factors, heat shock proteins, steroids and peptide hormones; Gene silencing.

**Unit 5: Processing and modification of RNA**

Split genes-concept of introns and exons, removal of introns, spliceosome machinery, splicing pathways, group I and group II intron splicing, alternative splicing eukaryotic mRNA processing (5' cap, 3' polyA tail); Ribozymes; RNA editing and mRNA transport.



## Unit 6: Translation

Ribosome structure and assembly, mRNA; Charging of tRNA, aminoacyl tRNA synthetases; Various steps in protein synthesis, proteins involved in initiation, elongation and termination of polypeptides; Fidelity of translation; Inhibitors of protein synthesis; Post-translational modifications of proteins.

## C8P: Molecular Biology

Credits 02

### Practical

1. Preparation of LB medium and raising *E.Coli*.
2. Isolation of genomic DNA from *E.Coli*.
3. DNA isolation from cauliflower head.
4. DNA estimation by diphenylamine reagent/UV Spectrophotometry.
5. Study of DNA replication mechanisms through photographs (Rolling circle, Theta replication and semi-discontinuous replication).
6. Study of structures of prokaryotic RNA polymerase and eukaryotic RNA polymerase II through photographs.
7. Photographs establishing nucleic acid as genetic material (Messelson and Stahl's, Avery et al, Griffith's, Hershey & Chase's and Fraenkel & Conrat's experiments)
8. Study of the following through photographs: Assembly of Spliceosome machinery; Splicing mechanism in group I & group II introns; Ribozyme and Alternative splicing.

### Suggested Readings

- Watson J.D., Baker, T.A., Bell, S.P., Gann, A., Levine, M., Losick, R. (2007). Molecular Biology of the Gene, Pearson Benjamin Cummings, CSHL Press, New York, U.S.A. 6th edition.
- Snustad, D.P. and Simmons, M.J. (2010). Principles of Genetics. John Wiley and Sons Inc., U.S.A. 5th edition.
- Klug, W.S., Cummings, M.R., Spencer, C.A. (2009). Concepts of Genetics. Benjamin Cummings. U.S.A. 9th edition.
- Russell, P. J. (2010). i-Genetics- A Molecular Approach. Benjamin Cummings, U.S.A. 3<sup>rd</sup> edition.
- Griffiths, A.J.F., Wessler, S.R., Carroll, S.B., Doebley, J. (2010). Introduction to Genetic Analysis. W. H. Freeman and Co., U.S.A. 10th edition.

## CC-9: Plant Ecology and Phylogeography

Credits 06

## C9T: Plant Ecology and Phylogeography

Credits 04

### Course Contents:

#### Unit 1: Introduction

Basic concepts; Levels of organization. Inter-relationships between the living world and the environment, the components and dynamism, homeostasis.

#### Unit 2: Soil

Importance; Origin; Formation; Composition; Physical; Chemical and Biological components; Soil profile; Role of climate in soil development.

### **Unit 3: Water**

Importance: States of water in the environment; Atmospheric moisture; Precipitation types (rain, fog, snow, hail, dew); Hydrological Cycle; Water in soil; Water table.

### **Unit 4: Light, temperature, wind and fire**

Variations; adaptations of plants to their variation.

### **Unit 5: Ecosystems**

Structure; Processes; Trophic organisation; Food chains and Food webs; Ecological pyramids.

### **Unit 6: Population ecology**

Characteristics and Dynamics .Ecological Speciation

### **Unit 7: Plant communities**

Concept of ecological amplitude; Habitat and niche; Characters: analytical and synthetic; Ecotone and edge effect; Dynamics: succession – processes, types; climax concepts.

### **Unit 8: Biotic interactions**

Trophic organization, basic source of energy, autotrophy, heterotrophy; symbiosis, commensalism, parasitism; food chains and webs; ecological pyramids; biomass, standing crop.

### **Unit 9: Functional aspects of ecosystem**

Principles and models of energy flow; Production and productivity; Ecological efficiencies; Biogeochemical cycles; Cycling of Carbon, Nitrogen and Phosphorus.

### **Unit 10: Phytogeography**

Principles; Continental drift; Theory of tolerance; Endemism; Brief description of major terrestrial biomes (one each from tropical, temperate & tundra); Phytogeographical division of India; Local Vegetation.

## **C9P: Plant Ecology and Phytogeography**

**Credits 02**

### **Practical**

1. Study of instruments used to measure microclimatic variables: Soil thermometer, maximum and minimum thermometer, anemometer, psychrometer/hygrometer, rain gauge and lux meter.
2. Determination of pH of various soil and water samples (pH meter, universal indicator/Lovibond comparator and pH paper)
3. Analysis for carbonates, chlorides, nitrates, sulphates, organic matter and base deficiency from
4. two soil samples by rapid field tests.
5. Determination of organic matter of different soil samples by Walkley & Black rapid titration
6. method.

7. Comparison of bulk density, porosity and rate of infiltration of water in soils of three habitats.
8. Determination of dissolved oxygen of water samples from polluted and unpolluted sources.
9. (a). Study of morphological adaptations of hydrophytes and xerophytes (four each).  
(b). Study of biotic interactions of the following: Stem parasite (*Cuscuta*), Root parasite (*Orobanchae*) Epiphytes, Predation (Insectivorous plants).
10. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus, by species area curve method (species to be listed).
11. Quantitative analysis of herbaceous vegetation in the college campus for frequency and comparison with Raunkiaer's frequency distribution law.
12. Quantitative analysis of herbaceous vegetation for density and abundance in the college campus.
13. Field visit to familiarise students with ecology of different sites.

#### Suggested Readings:

- Odum, E.P. (2005). Fundamentals of ecology. Cengage Learning India Pvt. Ltd., New Delhi. 5<sup>th</sup> edition.
- Singh, J.S., Singh, S.P., Gupta, S. (2006). Ecology Environment and Resource Conservation. Anamaya Publications, New Delhi, India.
- Sharma, P.D. (2010). Ecology and Environment. Rastogi Publications, Meerut, India. 8th edition.
- Wilkinson, D.M. (2007). Fundamental Processes in Ecology: An Earth Systems Approach. Oxford University Press. U.S.A.
- Kormondy, E.J. (1996). Concepts of ecology. PHI Learning Pvt. Ltd., Delhi, India. 4th edition.

**CC-10: Plant Systematics**

**Credits 06**

**C10T: Plant Systematics**

**Credits 04**

#### Course Contents:

##### Unit 1: Significance of Plant systematics

Introduction to systematics; Plant identification, Classification, Nomenclature. Evidences from palynology, cytology, phytochemistry and molecular data. Field inventory; Functions of Herbarium; Important herbaria and botanical gardens of the world and India; Virtual herbarium; E-flora; Documentation: Flora, Monographs, Journals; Keys: Single access and Multi-access.

##### Unit 2: Taxonomic hierarchy

Concept of taxa (family, genus, species); Categories and taxonomic hierarchy; Species concept (taxonomic, biological, evolutionary).

##### Unit 3: Botanical nomenclature

Principles and rules (ICN); Ranks and names; Typification, author citation, valid publication, rejection of names, principle of priority and its limitations; Names of hybrids.

#### **Unit 4: Systems of classification**

Major contributions of Theophrastus, Bauhin, Tournefort, Linnaeus, Adanson, de Candolle, Bessey, Hutchinson, Takhtajan and Cronquist; Classification systems of Bentham and Hooker (upto series) and Engler and Prantl (upto series); Brief reference of Angiosperm Phylogeny Group (APG III) classification.

#### **Unit 5: Biometrics, numerical taxonomy and cladistics**

Characters; Variations; OTUs, character weighting and coding; Cluster analysis; Phenograms, cladograms (definitions and differences).

#### **Unit 6: Phylogeny of Angiosperms**

Terms and concepts (primitive and advanced, homology and analogy, parallelism and convergence, monophyly, Paraphyly, polyphyly and clades). Origin and evolution of angiosperms; Co-evolution of angiosperms and animals; Methods of illustrating evolutionary relationship (phylogenetic tree, cladogram).

### **C10P: Plant Systematics**

**Credits 02**

#### **Practical**

1. Study of vegetative and floral characters of the following families (Description, V.S. flower, section of ovary, floral diagram/s, floral formula/e and systematic position according to Bentham & Hooker's system of classification):

1. Ranunculaceae - *Ranunculus*, *Delphinium*.
2. Brassicaceae - *Brassica*, *Alyssum* / *Iberis*.
3. Malvaceae – *Sida Sp.* *Urena lobota*.
4. Myrtaceae - *Eucalyptus*, *Callistemon*
5. Umbelliferae - *Coriandrum* / *Anethum* / *Foeniculum*.
6. Asteraceae - *Sonchus/Launaea*, *Vernonia/Ageratum*, *Eclipta/Tridax*.
7. Solanaceae - *Solanum nigrum/Withania*, *Nicotina*, *Plumbaginefolia*.
8. Lamiaceae - *Salvia/Ocimum*.
9. Euphorbiaceae - *Euphorbia hirta/E.milii*, *Jatropha*.
10. Fasaceae – *Tephrosia Sp.*, *Crotalaria Sp.*,
11. Caesalpineaeceae – *Cassia Sp.*,
12. Asclepiadaeaceae- *Pesgularia Gygnema*,
13. Apocynaceae – *Hollorhen*, *Catharanthus*.
14. Rubiaceae – *Oldenladeae*, *Spermoeoceae*,
15. Liliaceae - *Asphodelus/Lilium/Allium*.
16. Poaceae - *Triticum/Hordeum/Avena*.

2. Field visit (local) – Subject to grant of funds from the university.

3. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).

#### **Suggested Readings:**

- Singh, (2012). *Plant Systematics: Theory and Practice* Oxford & IBH Pvt. Ltd., New Delhi. 3<sup>rd</sup> edition.

- Jeffrey, C. (1982). *An Introduction to Plant Taxonomy*. Cambridge University Press, Cambridge.
- Judd, W.S., Campbell, C.S., Kellogg, E.A., Stevens, P.F. (2002). *Plant Systematics-A*
- *Phylogenetic Approach*. Sinauer Associates Inc., U.S.A. 2nd edition.
- Maheshwari, J.K. (1963). *Flora of Delhi*. CSIR, New Delhi.
- Radford, A.E. (1986). *Fundamentals of Plant Systematics*. Harper and Row, New York.

## **CC-11: Reproductive Biology of Angiosperms**

**Credits 06**

## **C11T: Reproductive Biology of Angiosperms**

**Credits 04**

### **Course Contents:**

#### **Unit 1: Introduction**

History (contributions of G.B. Amici, W. Hofmeister, E. Strasburger, S.G. Nawaschin, P. Maheshwari, B.M. Johri, W.A. Jensen, J. Heslop-Harrison) and scope.

#### **Unit 2: Reproductive development**

Induction of flowering; flower as a modified determinate shoot. Flower development: genetic and molecular aspects.

#### **Unit 3: Anther and pollen biology**

Anther wall: Structure and functions, microsporogenesis, callose deposition and its significance. Microgametogenesis; Pollen wall structure, MGU (Male Germ Unit) structure, NPC system; Palynology and scope (a brief account); Pollen wall proteins; Pollen viability, storage and germination; Abnormal features: Pseudomonads, polyads, massulae, pollinia.

#### **Unit 4: Ovule**

Structure; Types; Special structures—endothelium, obturator, aril, caruncle and hypostase; Female Gametophyte – megasporogenesis (monosporic, bisporic and tetrasporic) and megagametogenesis (details of *Polygonum* type); Organization and ultrastructure of mature embryo sac.

#### **Unit 4: Pollination and fertilization**

Pollination types and significance; adaptations; structure of stigma and style; path of pollen tube in pistil; double fertilization.

#### **Unit 5: Self incompatibility**

Basic concepts (interspecific, intraspecific, homomorphic, heteromorphic, GSI and SSI); Methods to overcome self- incompatibility: mixed pollination, bud pollination, stub pollination; Intra-ovarian and *in vitro* pollination; Modification of stigma surface, parasexual hybridization; Cybrids, *in vitro* fertilization.

#### **Unit 6: Embryo, Endosperm and Seed**

Structure and types; General pattern of development of dicot and monocot embryo and endosperm; Suspensor: structure and functions; Embryo-endosperm relationship; Nutrition

of embryo; Unusual features; Embryo development in *Paeonia*. Seed structure, importance and dispersal mechanisms

### **Units 7: Polyembryony and apomixis**

Introduction; Classification; Causes and applications.

## **C11P: Reproductive Biology of Angiosperms**

**Credits 02**

### **Practical**

1. Anther: Wall and its ontogeny; Tapetum (amoeboid and glandular); MMC, spore tetrads, uninucleate, bicelled and dehisced anther stages through slides/micrographs, male germ unit (MGU) through photographs and schematic representation.
2. Pollen grains: Fresh and acetolyzed showing ornamentation and aperture, pseudomonads, polyads, pollinia (slides/photographs, fresh material), ultrastructure of pollen wall (micrograph); Pollen viability: Tetrazolium test, germination: Calculation of percentage germination in different media using hanging drop method.
3. Ovule: Types-anatropous, orthotropous, amphitropous/campylotropous, circinotropous, unitegmic, bitegmic; Tenuinucellate and crassinucellate; Special structures: Endothelium, obturator, hypostase, caruncle and aril (permanent slides/specimens/photographs).
4. Female gametophyte through permanent slides/ photographs: Types, ultrastructure of mature egg apparatus.
5. Intra-ovarian pollination; Test tube pollination through photographs.
6. Endosperm: Dissections of developing seeds for endosperm with free-nuclear haustoria.
7. Embryogenesis: Study of development of dicot embryo through permanent slides; dissection of developing seeds for embryos at various developmental stages; Study of suspensor through electron micrographs.

### **Suggested Readings:**

- Bhojwani, S.S. and Bhatnagar, S.P. (2011). The Embryology of Angiosperms, Vikas Publishing House. Delhi. 5th edition.
- Shivanna, K.R. (2003). Pollen Biology and Biotechnology. Oxford and IBH Publishing Co. Pvt. Ltd. Delhi.
- Raghavan, V. (2000). Developmental Biology of Flowering plants, Springer, Netherlands.
- Johri, B.M. I (1984). Embryology of Angiosperms, Springer-Verlag, Netherlands.

## **CC-12: Plant Physiology**

**Credits 06**

**Course Contents:****Unit 1: Plant-water relations**

Water Potential and its components, water absorption by roots, aquaporins, pathway of water movement, symplast, apoplast, transmembrane pathways, root pressure, guttation. Ascent of sap – cohesion-tension theory. Transpiration and factors affecting transpiration, antitranspirants, mechanism of stomatal movement.

**Unit 2: Mineral nutrition**

Essential and beneficial elements, macro and micronutrients, methods of study and use of nutrient solutions, criteria for essentiality, mineral deficiency symptoms, roles of essential elements, chelating agents.

**Unit 3: Nutrient Uptake**

Soil as a nutrient reservoir, transport of ions across cell membrane, passive absorption, electrochemical gradient, facilitated diffusion, active absorption, role of ATP, carrier systems, proton ATPase pump and ion flux, uniport, co-transport, symport, antiport.

**Unit 4: Translocation in the phloem**

Experimental evidence in support of phloem as the site of sugar translocation. Pressure–Flow Model; Phloem loading and unloading; Source–sink relationship.

**Unit 5: Plant growth regulators**

Discovery, chemical nature (basic structure), bioassay and physiological roles of Auxin, Gibberellins, Cytokinin, Abscisic acid, Ethylene, Brassinosteroids and Jasmonic acid.

**Unit 6: Physiology of flowering**

Photoperiodism, flowering stimulus, florigen concept, vernalization, seed dormancy.

**Unit 7: Phytochrome , cryptochromes and phototropins**

Discovery, chemical nature, role in photomorphogenesis, low energy responses (LER) and high irradiance responses (HIR), mode of action.

**Practical**

1. Determination of osmotic potential of plant cell sap by plasmolytic method.
2. Determination of water potential of given tissue (potato tuber) by weight method.
3. Study of the effect of wind velocity and light on the rate of transpiration in excised twig/leaf.
4. Calculation of stomatal index and stomatal frequency from the two surfaces of leaves of a mesophyte and xerophyte.
5. To calculate the area of an open stoma and percentage of leaf area open through stomata in a mesophyte and xerophyte (both surfaces).
6. To study the phenomenon of seed germination (effect of light).
7. To study the effect of different concentrations of IAA on *Avena* coleoptile elongation (IAA Bioassay).

8. To study the induction of amylase activity in germinating barley grains.

### **Demonstration experiments**

1. To demonstrate suction due to transpiration.
2. Fruit ripening/Rooting from cuttings (Demonstration).
3. Bolting experiment/*Avena* coleptile bioassay (demonstration).

### **Suggested Readings:**

- Hopkins, W.G. and Huner, A. (2008). Introduction to Plant Physiology. John Wiley and Sons. U.S.A. 4th edition.
- Taiz, L., Zeiger, E., Møller, I.M. and Murphy, A (2015). Plant Physiology and Development. Sinauer Associates Inc. USA. 6th edition.
- Bajracharya D. (1999). Experiments in Plant Physiology-A Laboratory Manual. Narosa Publishing House, New Delhi.

**CC-13: Plant Metabolism**

**Credits 06**

**C13T: Plant Metabolism**

**Credits 04**

### **Course Contents:**

#### **Unit 1: Concept of metabolism**

Introduction, anabolic and catabolic pathways, regulation of metabolism, role of regulatory enzymes (allosteric, covalent modulation and Isozymes).

#### **Unit 2: Carbon assimilation**

Historical background, photosynthetic pigments, role of photosynthetic pigments (chlorophylls and accessory pigments), antenna molecules and reaction centres, photochemical reactions, photosynthetic electron transport, PSI, PSII, Q cycle, CO<sub>2</sub> reduction, photorespiration, C<sub>4</sub> pathways; Crassulacean acid metabolism; Factors affecting CO<sub>2</sub> reduction.

#### **Unit 3: Carbohydrate metabolism**

Synthesis and catabolism of sucrose and starch.

#### **Unit 4: Carbon Oxidation**

Glycolysis, fate of pyruvate, regulation of glycolysis, oxidative pentose phosphate pathway, oxidative decarboxylation of pyruvate, regulation of PDH, NADH shuttle; TCA cycle, amphibolic role, anaplerotic reactions, regulation of the cycle, mitochondrial electron transport, oxidative phosphorylation, cyanide-resistant respiration, factors affecting respiration.

#### **Unit 5: ATP-Synthesis**

Mechanism of ATP synthesis, substrate level phosphorylation, chemiosmotic mechanism (oxidative and photophosphorylation), ATP synthase, Boyers conformational model, Racker's experiment, Jagendorf's experiment; role of uncouplers.

#### **Unit 6: Lipid metabolism**



Synthesis and breakdown of triglycerides,  $\beta$ -oxidation, glyoxylate cycle, gluconeogenesis and its role in mobilisation of lipids during seed germination,  $\alpha$  oxidation.

### **Unit 7: Nitrogen metabolism**

Nitrate assimilation, biological nitrogen fixation (examples of legumes and non-legumes); Physiology and biochemistry of nitrogen fixation; Ammonia assimilation and transamination.

### **Unit 8: Mechanisms of signal transduction**

Receptor-ligand interactions; Second messenger concept, Calcium calmodulin, MAP kinase cascade.

## **C13P: Plant Metabolism**

**Credits 02**

### **Practical**

1. **Chemical separation of photosynthetic pigments.**
2. Experimental demonstration of Hill's reaction.
3. To study the effect of light intensity on the rate of photosynthesis.
4. Effect of carbon dioxide on the rate of photosynthesis.
5. To compare the rate of respiration in different parts of a plant.
6. To demonstrate activity of Nitrate reductase in germinating leaves of different plant sources.
7. To study the activity of lipases in germinating oilseeds and demonstrate mobilization of lipids
  1. during germination.
8. Demonstration of fluorescence by isolated chlorophyll pigments.
9. Demonstration of absorption spectrum of photosynthetic pigments.

### **Suggested Readings**

- Hopkins, W.G. and Huner, A. (2008). Introduction to Plant Physiology. John Wiley and Sons. U.S.A. 4th edition.
- Taiz, L., Zeiger, E., Møller, I.M. and Murphy, A (2015). Plant Physiology and Development. Sinauer Associates Inc. USA. 6th edition.
- Harborne, J.B. (1973). Phytochemical Methods. John Wiley & Sons. New York.

## **CC-14: Plant Biotechnology**

**Credits 06**

## **C14T: Plant Biotechnology**

**Credits 04**

### **Course Contents:**

#### **Unit -1: Plant Tissue Culture**

Historical perspective; Composition of media; Nutrient and hormone requirements (role of vitamins and hormones); Totipotency; Organogenesis; Embryogenesis (somatic and zygotic); Protoplast isolation, culture and fusion; Tissue culture applications (micropropagation, androgenesis, virus elimination, secondary metabolite production, haploids, triploids and hybrids; Cryopreservation; Germplasm Conservation).

## Unit- 2: Recombinant DNA technology

Restriction Endonucleases (History, Types I-IV, biological role and application); Restriction

Mapping (Linear and Circular); Cloning Vectors: Prokaryotic (pUC 18 and pUC19, pBR322, Ti plasmid, BAC); Lambda phage, M13 phagemid, Cosmid, Shuttle vector; Eukaryotic Vectors (YAC).

## Unit- 3: Gene Cloning

Recombinant DNA, Bacterial Transformation and selection of recombinant clones, PCR mediated gene cloning; Gene Construct; construction of genomic and cDNA libraries, screening DNA libraries to obtain gene of interest by genetic selection; complementation, colony hybridization; PCR

## Unit- 4: Methods of gene transfer

*Agrobacterium*-mediated, Direct gene transfer by Electroporation, Microinjection, Microprojectile bombardment; Selection of transgenics– selectable marker and reporter genes (Luciferase, GUS, GFP).

## Unit - 5: Applications of Biotechnology

Pest resistant (Bt-cotton); herbicide resistant plants (RoundUp Ready soybean); Transgenic crops with improved quality traits (Flavr Savr tomato, Golden rice); Improved horticultural varieties (Moondust carnations); Role of transgenics in bioremediation (Superbug); edible vaccines; Industrial enzymes (Aspergillase, Protease, Lipase); Genetically Engineered Products–Human Growth Hormone; Humulin; Biosafety concerns.

## C14P: Plant Biotechnology

Credits 02

### Practical

1. (a) Preparation of MS medium.  
(b) Demonstration of *in vitro* sterilization and inoculation methods using leaf and nodal explants of tobacco, *Datura*, *Brassica* etc.
2. Study of anther, embryo and endosperm culture, micropropagation, somatic embryogenesis & artificial seeds through photographs.
3. Isolation of protoplasts.
4. Construction of restriction map of circular and linear DNA from the data provided.
5. Study of methods of gene transfer through photographs: *Agrobacterium*-mediated, direct gene
6. transfer by electroporation, microinjection, microprojectile bombardment.
7. Study of steps of genetic engineering for production of Bt cotton, Golden rice, Flavr Savr tomato through photographs.
8. Isolation of plasmid DNA.
9. Restriction digestion and gel electrophoresis of plasmid DNA.

### Suggested Readings:

- Bhojwani, S.S. and Razdan, M.K., (1996). Plant Tissue Culture: Theory and Practice. Elsevier Science Amsterdam. The Netherlands.
- Glick, B.R., Pasternak, J.J. (2003). Molecular Biotechnology- Principles and Applications of recombinant DNA. ASM Press, Washington.

- Bhojwani, S.S. and Bhatnagar, S.P. (2011). The Embryology of Angiosperms. Vikas Publication House Pvt. Ltd., New Delhi. 5th edition.
- Snustad, D.P. and Simmons, M.J. (2010). Principles of Genetics. John Wiley and Sons, U.K. 5th edition.
- Stewart, C.N. Jr. (2008). Plant Biotechnology & Genetics: Principles, Techniques and Applications. John Wiley & Sons Inc. U.S.A.

*Discipline Specific Electives (DSE)*

**DSE-1: Natural Resource Management**

**Credits 06**

**DSE1T: Natural Resource Management**

**Credits 04**

**Course Contents:**

**Unit- 1: Natural resources :** Definition and types.

**Unit- 2: Sustainable utilization :** Concept, approaches (economic, ecological and socio-cultural).

**Unit- 3: Land :** Utilization (agricultural, pastoral, horticultural, silvicultural); Soil degradation and management.

**Unit- 4: Water**

Fresh water (rivers, lakes, groundwater, aquifers, watershed); Marine; Estuarine; Wetlands; Threats and management strategies.

**Unit- 5: Biological Resources**

Biodiversity-definition and types; Significance; Threats; Management strategies; Bio-prospecting; IPR; CBD; National Biodiversity Action Plan).

**Unit - 6: Forests**

Definition, Cover and its significance (with special reference to India); Major and minor Forest products; Depletion; Management.

**Unit- 7: Energy :** Renewable and non-renewable sources of energy

**Unit- 8: Contemporary practices in resource management**

EIA, GIS, Participatory Resource Appraisal, Ecological Footprint with emphasis on carbon footprint, Resource Accounting; Waste management.

**Unit- 9: National and international efforts in resource management and conservation**

**DSE-1P: Natural Resource Management**

**Credits 02**

**Practical**

1. Estimation of solid waste generated by a domestic system (biodegradable and nonbiodegradable) and its impact on land degradation.
2. Collection of data on forest cover of specific area.

3. Measurement of dominance of woody species by DBH (diameter at breast height) method.
4. Calculation and analysis of ecological footprint.
5. Ecological modeling.

**Suggested Readings:**

- Vasudevan, N. (2006). Essentials of Environmental Science. Narosa Publishing House, New Delhi.
- Singh, J. S., Singh, S.P. and Gupta, S. (2006). Ecology, Environment and Resource Conservation. Anamaya Publications, New Delhi.
- Rogers, P.P., Jalal, K.F. and Boyd, J.A. (2008). An Introduction to Sustainable Development. Prentice Hall of India Private Limited, New Delhi.

**Or**

**DSE-1: Biostatistics**

**Credits 06**

**DSE1T: Biostatistics**

**Credits 04**

**Course Contents:**

**Unit 1: Biostatistics**

Definition - statistical methods - basic principles. Variables - measurements, functions, limitations and uses of statistics.

**Unit 2: Collection of data primary and secondary**

Types and methods of data collection procedures - merits and demerits. Classification - tabulation and presentation of data - sampling methods.

**Unit 3: Measures of central tendency**

Mean, median, mode, geometric mean - merits & demerits. Measures of dispersion - range, standard deviation, mean deviation, quartile deviation - merits and demerits; Co-efficient of variations.

**Unit 4: Correlation**

Types and methods of correlation, regression, simple regression equation, fitting prediction, similarities and dissimilarities of correlation and regression

**Unit 5: Statistical inference**

Hypothesis - simple hypothesis - student 't' test - chi square test.

**DSE1P: Biostatistics**

**Credits 02**

**Practical**

1. Calculation of mean, standard deviation and standard error
2. Calculation of correlation coefficient values and finding out the probability
3. Calculation of 'F' value and finding out the probability value for the F value.

**Suggested Readings**

- Biostatistic, Danniell, W.W., 1987. New York, John Wiley Sons.

- An introduction to Biostatistics, 3rd edition, Sundarrao, P.S.S and Richards, J. Christian Medical College, Vellore
- Statistical Analysis of epidemiological data, Selvin, S., 1991. New York University Press. Statistics for Biology, Boston, Bishop, O.N. Houghton, Mifflin.
- The Principles of scientific research, Freedman, P. New York, Pergamon Press.
- Statistics for Biologists, Campbell, R.C., 1998. Cambridge University Press.

## **DSE-2: Plant Breeding**

**Credits 06**

## **DSE2T: Plant Breeding**

**Credits 04**

### **Course Contents:**

#### **Unit -1: Plant Breeding**

Introduction and objectives. Breeding systems: modes of reproduction in crop plants. Important achievements and undesirable consequences of plant breeding.

#### **Unit -2: Methods of Crop improvement**

Introduction: Centres of origin and domestication of crop plants, plant genetic resources; Acclimatization; Selection methods: For self pollinated, cross pollinated and vegetatively propagated plants; Hybridization: For self, cross and vegetatively propagated plants – Procedure, advantages and limitations.

#### **Unit -3: Quantitative inheritance**

Concept, mechanism, examples of inheritance of Kernel colour in wheat, Skin colour in human beings. Monogenic vs polygenic Inheritance.

#### **Unit - 4: Inbreeding depression and heterosis**

History, genetic basis of inbreeding depression and heterosis : Applications.

#### **Unit - 5: Crop improvement and breeding**

Role of mutations; Polyploidy; Distant hybridization and role of biotechnology in crop improvement.

## **DSE2P: Plant Breeding (Practical)**

**Credits 02**

### **Practical**

1. Identification of offspring's having parental genotypes and recombinant genotypes, based on combination of morphological attributes in a dihybrid cross.

## 2. Processes of emasculation –

- a) By applying higher temperature,
- b) By amputating anthers.

3. Determination of genetic inheritance of characters in monohybrid and dihybrid crosses by Chi-square test (including Mendelian ratios and the ratios of gene interactions e.g. Dominant Epistasis, Supplementary gene action, Polymeric Gene action, Complementary Gene action, Inhibitory Gene action and Duplicating Gene action.

4. Identification of fertile and sterile pollens with carmine stain and TTC test.

### Suggested Readings:

1. Singh, B.D. (2005). Plant Breeding: Principles and Methods. Kalyani Publishers. 7<sup>th</sup> edition.
2. Chaudhari, H.K. (1984). Elementary Principles of Plant Breeding. Oxford-IBH. 2<sup>nd</sup> edition.
3. Acquaah, G. (2007). Principles of Plant Genetics & Breeding. Blackwell Publishing.

Or

**DSE-2: Stress Biology**

**Credits 06**

**DSE2T: Stress Biology**

**Credits 04**

### Course Contents:

**Unit 1: Defining plant stress:** Acclimation and adaptation.

**Unit 2: Environmental factors:** Water stress; Salinity stress, High light stress; Temperature stress; Hypersensitive reaction; Pathogenesis– related (PR) proteins; Systemic acquired resistance; Mediation of insect and disease resistance by jasmonates.

**Unit 3: Stress sensing mechanisms in plants:** Calcium modulation, Phospholipid signaling

**Unit 4: Developmental and physiological mechanisms that protect plants against environmental stress:** Adaptation in plants; Changes in root: shoot ratio; Aerenchyma development; Osmotic adjustment; Compatible solute production.

**Unit 5: Reactive oxygen species–Production and scavenging mechanisms.**

**DSE2P: Stress Biology**

**Credits 02**

**Practical**

1. Quantitative estimation of peroxidase activity in the seedlings in the absence and presence of salt stress.
2. Superoxide activity in seedlings in the absence and presence of salt stress.
3. Zymographic analysis of peroxidase.
4. Zymographic analysis of superoxide dismutase activity.
5. Quantitative estimation and zymographic analysis of catalase.
6. Quantitative estimation and zymographic analysis of glutathione reductase.
7. Estimation of superoxide anions.

### **Suggested Readings:**

- Hopkins, W.G. and Huner, A. (2008). Introduction to Plant Physiology. John Wiley and Sons. U.S.A. 4th edition.
- Taiz, L., Zeiger, E., MØller, I.M. and Murphy, A (2015). Plant Physiology and Development. Sinauer Associates Inc. USA. 6th edition.

**DSE-3: Industrial and Environmental Microbiology**

**Credits 06**

**DSE-3T: Industrial and Environmental Microbiology**

**Credits 04**

### **Course Contents:**

#### **Unit 1: Scope of microbes in industry and environment**

#### **Unit 2: Bioreactors / Fermenters and fermentation processes**

Solid-state and liquid-state (stationary and submerged) fermentations; Batch and continuous fermentations. Components of a typical bioreactor, Types of bioreactors-laboratory, pilotscale and production fermenters; Constantly stirred tank fermenter, tower fermenter, fixed bed and fluidized bed bioreactors and air-lift fermenter.

A visit to any educational institute/ industry to see an industrial fermenter, and other downstream processing operations.

#### **Unit 3: Microbial production of industrial products**

Microorganisms involved, media, fermentation conditions, downstream processing and uses; Filtration, centrifugation, cell disruption, solvent extraction, precipitation and ultrafiltration, lyophilization, spray drying; Hands on microbial fermentations for the production and estimation (qualitative and quantitative) of Enzyme: amylase or lipase activity, Organic acid (citric acid or glutamic acid), alcohol (Ethanol) and antibiotic (Penicillin)

#### **Unit 4: Microbial enzymes of industrial interest and enzyme immobilization**

Microorganisms for industrial applications\_and hands on screening microorganisms for casein hydrolysis; starch hydrolysis; cellulose hydrolysis. Methods of immobilization, advantages and applications of immobilization, large scale applications of immobilized enzymes (glucose isomerase and penicillin acylase).

### **Unit 5: Microbes and quality of environment.**

Distribution of microbes in air; Isolation of microorganisms from soil, air and water.

### **Unit 6: Microbial flora of water.**

Water pollution, role of microbes in sewage and domestic waste water treatment systems. Determination of BOD, COD, TDS and TOC of water samples; Microorganisms as indicators of water quality, check coliform and fecal coliform in water samples.

### **Unit 7: Microbes in agriculture and remediation of contaminated soils.**

Biological fixation; Mycorrhizae; Bioremediation of contaminated soils. Isolation of root nodulating bacteria, arbuscular mycorrhizal colonization in plant roots.

### **DSE-3P: Industrial and Environmental Microbiology**

**Credits 02**

#### **Practical**

1. Principles and functioning of instruments in microbiology laboratory
2. Hands on sterilization techniques and preparation of culture media.

#### **Suggested Readings:**

- Pelzar, M.J. Jr., Chen E.C. S., Krieg, N.R. (2010). Microbiology: An application based approach. Tata McGraw Hill Education Pvt. Ltd., Delhi.
- Tortora, G.J., Funke, B.R., Case. C.L. (2007). Microbiology. Pearson Benjamin Cummings, San Francisco, U.S.A. 9th edition.

**OR**

### **DSE-3: Bioinformatics**

**Credits 06**

### **DSE3T: Bioinformatics**

**Credits 04**

#### **Course Contents:**

##### **Unit 1. Introduction to Bioinformatics**

Introduction, Branches of Bioinformatics, Aim, Scope and Research areas of Bioinformatics.

##### **Unit 2. Databases in Bioinformatics**

Introduction, Biological Databases, Classification format of Biological Databases, Biological Database Retrieval System.

##### **Unit 3. Biological Sequence Databases**

National Center for Biotechnology Information (NCBI): Tools and Databases of NCBI, Database Retrieval Tool, Sequence Submission to NCBI, Basic local alignment search tool (BLAST), Nucleotide Database, Protein Database, Gene Expression Database. EMBL Nucleotide Sequence Database (EMBL-Bank): Introduction, Sequence Retrieval, Sequence Submission to EMBL, Sequence analysis tools. DNA Data Bank of Japan (DDBJ): Introduction, Resources at DDBJ, Data Submission at DDBJ. Protein



Information Resource (PIR): About PIR, Resources of PIR, Databases of PIR, Data Retrieval in PIR. Swiss-Prot: Introduction and Salient Features.

#### **Unit 4. Sequence Alignments**

Introduction, Concept of Alignment, Multiple Sequence Alignment (MSA), MSA by CLUSTALW, Scoring Matrices, Percent Accepted Mutation (PAM), Blocks of Amino Acid Substitution Matrix (BLOSUM).

#### **Unit 5. Molecular Phylogeny**

Methods of Phylogeny, Software for Phylogenetic Analyses, Consistency of Molecular Phylogenetic Prediction.

#### **Unit 6. Applications of Bioinformatics**

Structural Bioinformatics in Drug Discovery, Quantitative structure-activity relationship (QSAR) techniques in Drug Design, Microbial genome applications, Crop improvement

#### **DSE3P: Bioinformatics**

**Credits 02**

##### **Practical**

1. Nucleic acid and protein databases.
2. Sequence retrieval from databases.
3. Sequence alignment.
4. Sequence homology and Gene annotation.
5. Construction of phylogenetic tree.

##### **Suggested Readings:**

- Ghosh Z. and Bibekanand M. (2008) Bioinformatics: Principles and Applications. Oxford University Press.
- Pevsner J. (2009) Bioinformatics and Functional Genomics. II Edition. Wiley-Blackwell.
- Campbell A. M., Heyer L. J. (2006) Discovering Genomics, Proteomics and Bioinformatics. II Edition. Benjamin Cummings.

#### **DSE-4: Analytical Techniques in Plant Sciences**

**Credits 06**

#### **DSE4T: Analytical Techniques in Plant Sciences**

**Credits 04**

#### **Course Contents:**

##### **Unit- 1: Imaging and related techniques**

Principles of microscopy; Light microscopy; Fluorescence microscopy; Confocal microscopy; Use of fluorochromes: (a) Flow cytometry (FACS); (b) Applications of fluorescence microscopy: Chromosome banding, FISH, chromosome painting; Transmission and Scanning electron microscopy – sample preparation for electron microscopy, cryofixation, negative staining, shadow casting, freeze fracture, freeze etching.

##### **Unit- 2: Cell fractionation**

Centrifugation: Differential and density gradient centrifugation, sucrose density gradient, CsCl<sub>2</sub> gradient, analytical centrifugation, ultracentrifugation, marker enzymes.

### **Unit- 3: Radioisotopes**

Use in biological research, auto-radiography, pulse chase experiment.

### **Unit- 4: Spectrophotometry**

Principle and its application in biological research.

### **Unit- 5: Chromatography**

Principle; Paper chromatography; Column chromatography, TLC, GLC, HPLC, Ion-exchange chromatography; Molecular sieve chromatography; Affinity chromatography.

### **Unit- 6: Characterization of proteins and nucleic acids**

Mass spectrometry; X-ray diffraction; X-ray crystallography; Characterization of proteins and nucleic acids; Electrophoresis: AGE, PAGE, SDS-PAGE

### **Unit- 7: Biostatistics**

Statistics, data, population, samples, parameters; Representation of Data: Tabular, Graphical; Measures of central tendency: Arithmetic mean, mode, median; Measures of dispersion: Range, mean deviation, variation, standard deviation; Chi-square test for goodness of fit.

## **DSE4P: Analytical Techniques in Plant Sciences**

**Credits 02**

### **Practical**

1. Study of Blotting techniques: Southern, Northern and Western, DNA fingerprinting, DNA sequencing, PCR through photographs.
2. Demonstration of ELISA.
3. To separate nitrogenous bases by paper chromatography.
4. To separate sugars by thin layer chromatography.
5. Isolation of chloroplasts by differential centrifugation.
6. To separate chloroplast pigments by column chromatography.
7. To estimate protein concentration through Lowry's methods.
8. To separate proteins using PAGE.
9. To separation DNA (marker) using AGE.
10. Study of different microscopic techniques using photographs/micrographs (freeze fracture, freeze etching, negative staining, positive staining, fluorescence and FISH).
11. Preparation of permanent slides (double staining).

### **Suggested Readings:**

- Plummer, D.T. (1996). An Introduction to Practical Biochemistry. Tata McGraw-Hill Publishing Co. Ltd. New Delhi. 3rd edition.
- Ruzin, S.E. (1999). Plant Microtechnique and Microscopy, Oxford University Press, New York. U.S.A.
- Ausubel, F., Brent, R., Kingston, R. E., Moore, D.D., Seidman, J.G., Smith, J.A., Struhl, K. (1995). Short Protocols in Molecular Biology. John Wiley & Sons. 3rd edition.

- Zar, J.H. (2012). Biostatistical Analysis. Pearson Publication. U.S.A. 4th edition.

OR

**DSE-4: Research Methodology**

**Credits 06**

**DSE4T: Research Methodology**

**Credits 04**

**Course Contents:**

**Unit 1: Basic concepts of research**

Research-definition and types of research (Descriptive vs analytical; applied vs fundamental; quantitative vs qualitative; conceptual vs empirical). Research methods vs methodology. Literature-review and its consolidation; Library research; field research; laboratory research.

**Unit 2: General laboratory practices**

Common calculations in botany laboratories. Understanding the details on the label of reagent bottles. Molarity and normality of common acids and bases. Preparation of solutions. Dilutions. Percentage solutions. Molar, molal and normal solutions. Technique of handling micropipettes; Knowledge about common toxic chemicals and safety measures in their handling.

**Unit 3: Data collection and documentation of observations**

Maintaining a laboratory record; Tabulation and generation of graphs. Imaging of Tissue specimens and application of scale bars. The art of field photography.

**Unit 4: Overview of Biological Problems**

History; Key biology research areas, Model organisms in biology (A Brief overview): Genetics, Physiology, Biochemistry, Molecular Biology, Cell Biology, Genomics, Proteomics Transcriptional regulatory network.

**Unit 5: Methods to study plant cell/tissue structure**

Whole mounts, peel mounts, squash preparations, clearing, maceration and sectioning; Tissue preparation: living vs fixed, physical vs chemical fixation, coagulating fixatives, non-coagulant fixatives; tissue dehydration using graded solvent series; Paraffin and plastic infiltration; Preparation of thin and ultrathin sections.

**Unit 6: Plant microtechniques**

Staining procedures, classification and chemistry of stains. Staining equipment. Reactive dyes and fluorochromes (including genetically engineered protein labeling with GFP and other tags). Cytogenetic techniques with squashed plant materials.

**Unit 7: The art of scientific writing and its presentation**

Numbers, units, abbreviations and nomenclature used in scientific writing. Writing references. Powerpoint presentation. Poster presentation. Scientific writing and ethics, Introduction to copyright-academic misconduct/plagiarism.

**DSE4P: Research Methodology**

**Credits 02**

## Practical

1. Experiments based on chemical calculations.
2. Plant microtechnique experiments.
3. The art of imaging of samples through microphotography and field photography.
4. Poster presentation on defined topics.
5. Technical writing on topics assigned.

## Suggested Readings:

- Dawson, C. (2002). Practical research methods. UBS Publishers, New Delhi.
- Stapleton, P., Yondeowei, A., Mukanyange, J., Houten, H. (1995). Scientific writing for agricultural research scientists – a training reference manual. West Africa Rice Development Association, Hong Kong.
- Ruzin, S.E. (1999). Plant microtechnique and microscopy. Oxford University Press, New York, U.S.A.

## Skill Enhancement Course (SEC)

### SEC-1: Biofertilizers

Credits 02

### SEC1T: Biofertilizers

Credits 02

### Course Contents:

**Unit- 1:** General account about the microbes used as biofertilizer – Rhizobium – isolation, identification, mass multiplication, carrier based inoculants, Actinorrhizal symbiosis.

**Unit- 2:** *Azospirillum*: isolation and mass multiplication – carrier based inoculant, associative effect of different microorganisms. *Azotobacter*: classification, characteristics – crop response to *Azotobacter* inoculum, maintenance and mass multiplication.

**Unit- 3:** Cyanobacteria (blue green algae), *Azolla* and *Anabaena azollae* association, nitrogen fixation, factors affecting growth, blue green algae and *Azolla* in rice cultivation.

**Unit- 4:** Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence and distribution, phosphorus nutrition, growth and yield – colonization of VAM – isolation and inoculum production of VAM, and its influence on growth and yield of crop plants.

**Unit-5:** Organic farming – Green manuring and organic fertilizers, Recycling of biodegradable municipal, agricultural and Industrial wastes – biocompost making methods, types and method of vermicomposting – field Application.

### Suggested Readings:

- Dubey, R.C., 2005 A Text book of Biotechnology S.Chand & Co, New Delhi.
- Kumaresan, V. 2005, Biotechnology, Saras Publications, New Delhi.
- John Jothi Prakash, E. 2004. Outlines of Plant Biotechnology. Emkay \_Publication, New Delhi.

- Sathe, T.V. 2004 Vermiculture and Organic Farming. Daya publishers.
- Subha Rao, N.S. 2000, Soil Microbiology, Oxford & IBH Publishers, New \_Delhi.
- Vayas,S.C, Vayas, S. and Modi, H.A. 1998 Bio-fertilizers and organic \_Farming Akta Prakashan, Nadiad

**OR**

**SEC- 1: Floriculture**

**Credits 02**

**SEC1T: Floriculture**

**Course Contents:**

**Unit 1:** Introduction: History of gardening; Importance and scope of floriculture and landscape gardening.

**Unit 2:** Nursery Management and Routine Garden Operations: Sexual and vegetative methods of propagation; Soil sterilization; Seed sowing; Pricking; Planting and transplanting; Shading; Stopping or pinching; Defoliation; Wintering; Mulching; Topiary; Role of plant growth regulators.

**Unit 3:**Ornamental Plants: Flowering annuals; Herbaceous perennials; Divine vines; Shade and ornamental trees; Ornamental bulbous and foliage plants; Cacti and succulents; Palms and Cycads; Ferns and Selaginellas; Cultivation of plants in pots; Indoor gardening; Bonsai.

**Unit 4:** Principles of Garden Designs: English, Italian, French, Persian, Mughal and Japanese gardens; Features of a garden (Garden wall, Fencing, Steps, Hedge, Edging, Lawn, Flower beds, Shrubbery, Borders, Water garden. Some Famous gardens of India.

**Unit 5:** Landscaping Places of Public Importance: Landscaping highways and Educational institutions.

**Unit 6:** Commercial Floriculture: Factors affecting flower production; Production and packaging of cut flowers; Flower arrangements; Methods to prolong vase life; Cultivation of Important cut flowers (Carnation, Aster, Chrysanthemum, Dahlia, Gerbera, Gladiolous, Marigold,Rose, Lilium, Orchids).

**Unit 7:** Diseases and Pests of Ornamental Plants.

**Suggested Readings:**

- Randhawa, G.S. and Mukhopadhyay, A. 1986. Floriculture in India. Allied Publishers.

**SEC-2: Medicinal Botany**

**Credits 02**

**SEC-2T: Medicinal Botany**

**Course Contents:**

**Unit 1:**

History, Scope and Importance of Medicinal Plants. Indigenous Medicinal Sciences; Definition and Scope - **Ayurveda**: History, origin, panchamahabhutas, saptadhatu and tridosha concepts, Rasayana, plants used in ayurvedic treatments, **Siddha**: Origin of Siddha medicinal systems, Basis of Siddha system, plants used in Siddha medicine. **Unani**: History, concept: Umoor-e- tabiya, tumors treatments/ therapy, polyherbal formulations.

**Unit 2:**

Conservation of endangered and endemic medicinal plants. Definition: endemic and endangered medicinal plants, Red list criteria; In situ conservation: Biosphere reserves, sacred groves, National Parks; Ex situ conservation: Botanic Gardens, Ethnomedicinal plant Gardens. Propagation of Medicinal Plants: Objectives of the nursery, its classification, important components of a nursery, sowing, pricking, use of green house for nursery production, propagation through cuttings, layering, grafting and budding.

**Unit 3:**

Ethnobotany and Folk medicines. Definition; Ethnobotany in India: Methods to study ethnobotany; Applications of Ethnobotany: National interacts, Palaeo-ethnobotany. Folk medicines of ethnobotany, ethnomedicine, ethnoecology, ethnic communities of India. Application of natural products to certain diseases- Jaundice, cardiac, infertility, diabetics, Blood pressure and skin diseases.

**Suggested Readings:**

- Trivedi P C, 2006. Medicinal Plants: Ethnobotanical Approach, Agrobios, India.
- Purohit and Vyas, 2008. Medicinal Plant Cultivation: A Scientific Approach, 2nd edn. Agrobios, India.

Or

**SEC-2: Mushroom Culture Technology****Credits 02****SEC-2T: Mushroom Culture Technology****Course Contents:****Unit 1:**

Introduction, history. Nutritional and medicinal value of edible mushrooms; Poisonous mushrooms. Types of edible mushrooms available in India - *Volvariella volvacea*, *Pleurotus citrinopileatus*, *Agaricus bisporus*.

**Unit 2:**

Cultivation Technology : Infrastructure: substrates (locally available) Polythene bag, vessels, Inoculation hook, inoculation loop, low cost stove, sieves, culture rack, mushroom unit (Thatched house) water sprayer, tray, small polythene bag. Pure culture: Medium, sterilization, preparation of spawn, multiplication. Mushroom bed preparation - paddy straw, sugarcane trash, maize straw, banana leaves. Factors affecting the mushroom bed preparation - Low cost technology, Composting technology in mushroom production.

### Unit 3:

Storage and nutrition: Short-term storage (Refrigeration - upto 24 hours) Long term Storage (canning, pickles, papads), drying, storage in salt solutions. Nutrition - Proteins - amino acids, mineral elements nutrition - Carbohydrates, Crude fibre content - Vitamins.

### Unit 4:

Food Preparation: Types of foods prepared from mushroom. Research Centres - National level and Regional level. Cost benefit ratio - Marketing in India and abroad, Export Value.

### Suggested Readings:

- Marimuthu, T. Krishnamoorthy, A.S. Sivaprakasam, K. and Jayarajan. R (1991) Oyster Mushrooms, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore.
- Swaminathan, M. (1990) Food and Nutrition. Bappco, The Bangalore Printing and Publishing Co. Ltd., No. 88, Mysore Road, Bangalore - 560018.
- Tewari, Pankaj Kapoor, S.C., (1988). Mushroom cultivation, Mittal Publications, Delhi.
- Nita Bahl (1984-1988) Hand book of Mushrooms, II Edition, Vol. I & Vol. II.

Generic Elective (GE)  
[Interdisciplinary for other department]

**GE-1: Biodiversity (Microbes, Algae, Fungi and Archegoniate)**

**Credits 06**

**GE1T: Biodiversity (Microbes, Algae, Fungi and Archegoniate)**

**Credits 04**

### Course Contents:

#### Unit 1: Microbes

Viruses – Discovery, general structure, replication (general account), DNA virus (T-phage); Lytic and lysogenic cycle, RNA virus (TMV); Economic importance; Bacteria – Discovery, General characteristics and cell structure; Reproduction – vegetative, asexual and recombination (conjugation, transformation and transduction); Economic importance.

#### Unit 2: Algae

General characteristics; Ecology and distribution; Range of thallus organization and reproduction; Classification of algae; Morphology and life-cycles of the following: *Nostoc*, *Chlamydomonas*, *Oedogonium*, *Vaucheria*, *Fucus*, *Polysiphonia*. Economic importance of algae.

#### Unit 3: Fungi

Introduction- General characteristics, ecology and significance, range of thallus organization, cell wall composition, nutrition, reproduction and classification; True Fungi- General characteristics, ecology and significance, life cycle of *Rhizopus* (Zygomycota) *Penicillium*, *Alternaria* (Ascomycota), *Puccinia*, *Agaricus* (Basidiomycota); Symbiotic

Associations-Lichens:General account, reproduction and significance; Mycorrhiza: ectomycorrhiza and endomycorrhiza and their significance.

#### **Unit 4: Introduction to Archegoniate**

Unifying features of archegoniates, Transition to land habit, Alternation of generations.

#### **Unit 5: Bryophytes**

General characteristics, adaptations to land habit, Classification, Range of thallus organization. Classification (up to family), morphology, anatomy and reproduction of *Marchantia* and *Funaria*. (Developmental details not to be included). Ecology and economic importance of bryophytes with special mention of *Sphagnum*.

#### **Unit 6: Pteridophytes**

General characteristics, classification, Early land plants (*Cooksonia* and *Rhynia*). Classification (up to family), morphology, anatomy and reproduction of *Selaginella*, *Equisetum* and *Pteris*. (Developmental details not to be included). Heterospory and seed habit, stellar evolution. Ecological and economical importance of Pteridophytes.

#### **Unit 4: Gymnosperms**

General characteristics; Classification (up to family), morphology, anatomy and reproduction of *Cycas* and *Pinus* (Developmental details not to be included). Ecological and economical importance.

### **GE1P: Biodiversity (Microbes, Algae, Fungi and Archegoniate) (Practical) Credits 02**

#### **Practical:**

1. EMs/Models of viruses – T-Phage and TMV, Line drawing/Photograph of Lytic and Lysogenic Cycle.
1. Types of Bacteria from temporary/permanent slides/photographs; EM bacterium; Binary Fission; Conjugation; Structure of root nodule.
2. Gram staining.
3. Study of vegetative and reproductive structures of *Nostoc*, *Chlamydomonas* (electron micrographs), *Oedogonium*, *Vaucheria*, *Fucus\** and *Polysiphonia* through temporary preparations and permanent slides. (\* *Fucus* - Specimen and permanent slides).
4. *Rhizopus* and *Penicillium*: Asexual stage from temporary mounts and sexual Structures through permanent slides.
5. *Alternaria*: Specimens/photographs and tease mounts.
6. *Puccinia*: Herbarium specimens of Black Stem Rust of Wheat and infected Barberryleaves; section/tease mounts of spores on Wheat and permanent slides of both the hosts.



7. *Agaricus*: Specimens of button stage and full grown mushroom; Sectioning of gills of *Agaricus*.
8. Lichens: Study of growth forms of lichens (crustose, foliose and fruticose)
9. Mycorrhiza: ecto mycorrhiza and endo mycorrhiza (Photographs)
10. *Marchantia*- morphology of thallus, w.m. rhizoids and scales, v.s. thallus through gemmacup, w.m. gemmae (all temporary slides), v.s. antheridiophore, archegoniophore, l.s. sporophyte (all permanent slides).
11. *Funaria*- morphology, w.m. leaf, rhizoids, operculum, peristome, annulus, spores (temporary slides); permanent slides showing antheridial and archegonial heads, l.s. capsule and protonema.
12. *Selaginella*- morphology, w.m. leaf with ligule, t.s. stem, w.m. strobilus, w.m. microsporophyll and megasporophyll (temporary slides), l.s. strobilus (permanent slide).
14. *Equisetum*- morphology, t.s. internode, l.s. strobilus, t.s. strobilus, w.m. sporangiophore, w.m. spores (wet and dry)(temporary slides); t.s. rhizome (permanent slide).
13. Pteris- morphology, t.s. rachis, v.s. sporophyll, w.m. sporangium, w.m. spores (temporary slides), t.s. rhizome, w.m. prothallus with sex organs and young sporophyte (permanent slide).
14. *Cycas*- morphology (coralloid roots, bulbil, leaf), t.s. coralloid root, t.s. rachis, v.s. leaflet, v.s. micro sporophyll, w.m. spores (temporary slides), l.s. ovule, t.s. root (permanent slide).
15. *Pinus*- morphology (long and dwarf shoots, w.m. dwarf shoot, male and female), w.m. dwarf shoot, t.s. needle, t.s. stem, l.s./t.s. male cone, w.m. microsporophyll, w.m. microspores (temporary slides), l.s. female cone, t.l.s. & r.l.s. stem (permanent slide).

### Suggested Readings:

- Kumar, H.D. (1999). Introductory Phycology. Affiliated East-West. Press Pvt. Ltd. Delhi. 2nd edition.
- Tortora, G.J., Funke, B.R., Case, C.L. (2010). Microbiology: An Introduction, Pearson Benjamin Cummings, U.S.A. 10th edition.
- Sethi, I.K. and Walia, S.K. (2011). Text book of Fungi & Their Allies, MacMillan Publishers Pvt. Ltd., Delhi.
- Alexopoulos, C.J., Mims, C.W., Blackwell, M. (1996). Introductory Mycology, John Wiley and Sons (Asia), Singapore. 4th edition.
- Raven, P.H., Johnson, G.B., Losos, J.B., Singer, S.R., (2005). Biology. Tata McGraw Hill, Delhi, India.
- Vashishta, P.C., Sinha, A.K., Kumar, A., (2010). Pteridophyta, S. Chand. Delhi, India.
- Bhatnagar, S.P. and Moitra, A. (1996). Gymnosperms. New Age International (P) Ltd Publishers, New Delhi, India.
- Parihar, N.S. (1991). An introduction to Embryophyta. Vol. I. Bryophyta. Central Book Depot, Allahabad.

**GE-2: Plant Ecology and Taxonomy**

**Credits 06**

**GE2T: Plant Ecology and Taxonomy**

**Credits 04**

**Course Contents:**

**Unit- 1: Introduction**

**Unit- 2: Ecological factors**

Soil: Origin, formation, composition, soil profile. Water: States of water in the environment, precipitation types. Light and temperature: Variation Optimal and limiting factors; Shelford law of tolerance. Adaptation of hydrophytes and xerophytes

**Unit -3: Plant communities**

Characters; Ecotone and edge effect; Succession; Processes and types

**Unit- 4: Ecosystem**

Structure; energy flow trophic organisation; Food chains and food webs, Ecological pyramids production and productivity; Bio-geochemical cycling; Cycling of carbon, nitrogen and Phosphorous

**Unit- 5: Phytogeography**

Principle of Biogeographical zone; Endemism.

**Unit- 6: Introduction to plant taxonomy**

Identification, Classification, Nomenclature.

**Unit- 7 : Identification**

Functions of Herbarium, important herbaria and botanical gardens of the world and India; Documentation: Flora, Keys: single access and multi-access

**Unit 8 : Taxonomic evidences from palynology, cytology, phytochemistry and molecular data.**

**Unit 9 : Taxonomic hierarchy**

Ranks, categories and taxonomic groups

**Unit 10: Botanical nomenclature**

Principles and rules (ICN); ranks and names; binominal system, typification, author citation, valid publication, rejection of names, principle of priority and its limitations.

**Unit 11: Classification**

Types of classification-artificial, natural and phylogenetic. Bentham and Hooker (upto series), Engler and Prantl (upto series).

### **Unit 12: Biometrics, numerical taxonomy and cladistics**

Characters; variations; OTUs, character weighting and coding; cluster analysis; phenograms, cladograms (definitions and differences).

#### **GE2P: Practical**

**Credit 02**

#### **Practical:**

1. Study of instruments used to measure microclimatic variables: Soil thermometer, maximum and minimum thermometer, anemometer, psychrometer/hygrometer, rain gauge and lux meter.
2. Determination of pH, and analysis of two soil samples for carbonates, chlorides, nitrates, sulphates, organic matter and base deficiency by rapid field test.
3. Comparison of bulk density, porosity and rate of infiltration of water in soil of three habitats.
4. (a) Study of morphological adaptations of hydrophytes and xerophytes (four each).  
(b) Study of biotic interactions of the following: Stem parasite (*Cuscuta*), Root parasite (*Orobancha*), Epiphytes, Predation (Insectivorous plants).
5. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus by species area curve method. (species to be listed)
6. Quantitative analysis of herbaceous vegetation in the college campus for frequency and comparison with Raunkiaer's frequency distribution law
7. Study of vegetative and floral characters of the following families (Description, V.S. flower, section of ovary, floral diagram/s, floral formula/e and systematic position according to Bentham & Hooker's system of classification): Brassicaceae - *Brassica*, *Alyssum* / *Iberis*; Asteraceae - *Sonchus*/*Launaea*, *Vernonia*/*Ageratum*, *Eclipta*/*Tridax*; Solanaceae - *Solanum nigrum*, *Withania*; Lamiaceae - *Salvia*, *Ocimum*; Liliaceae - *Asphodelus* / *Lilium* / *Allium*.
8. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).

#### **Suggested Readings:**

1. Kormondy, E.J. (1996). Concepts of Ecology. Prentice Hall, U.S.A. 4<sup>th</sup> edition.
2. Sharma, P.D. (2010) Ecology and Environment. Rastogi Publications, Meerut, India. 8<sup>th</sup> edition.
3. Simpson, M.G. (2006). *Plant Systematics*. Elsevier Academic Press, San Diego, CA, U.S.A.
4. Singh, G. (2012). *Plant Systematics: Theory and Practice*. Oxford & IBH Pvt. Ltd., New Delhi. 3<sup>rd</sup> edition

#### **GE-3: Economic Botany and Plant Biotechnology**

**Credits 06**

#### **GE3T: Economic Botany and Plant Biotechnology**

**Credits 04**

#### **Course Contents:**

### **Unit 1: Origin of Cultivated Plants**

Concept of centres of origin, their importance with reference to Vavilov's work.

### **Unit 2: Cereals**

Wheat - Origin, morphology, uses

### **Unit 3: Legumes**

General account with special reference to Gram and soybean

### **Unit 4: Spices**

General account with special reference to clove and black pepper (Botanical name, family, part used morphology and uses)

### **Unit 5: Beverages**

Tea (morphology, processing, uses)

### **Unit 6: Oils and Fats**

General description with special reference to groundnut

### **Unit 7: Fibre Yielding Plants**

General description with special reference to Cotton (Botanical name, family, part used, morphology and uses)

### **Unit 8: Introduction to biotechnology**

### **Unit 9: Plant tissue culture**

Micropropagation ; haploid production through androgenesis and gynogenesis; brief account of embryo and endosperm culture with their applications

### **Unit 10: Recombinant DNA Techniques**

Blotting techniques: Northern, Southern and Western Blotting, DNA Fingerprinting; Molecular DNA markers i.e. RAPD, RFLP, SNPs; DNA sequencing, PCR and Reverse Transcriptase-PCR. Hybridoma and monoclonal antibodies, ELISA and Immuno detection. Molecular diagnosis of human disease, Human gene Therapy.

### **GE3P: Economic Botany and Plant Biotechnology**

**Credits 04**

#### **Practical:**

1. Study of economically important plants : Wheat, Gram, Soybean, Black pepper, Clove Tea, Cotton, Groundnut through specimens, sections and micro chemical tests

2. Familiarization with basic equipments in tissue culture.
3. Study through photographs: Anther culture, somatic embryogenesis, endosperm and embryo culture; micropropagation.
4. Study of molecular techniques: PCR, Blotting techniques, AGE and PAGE.

**Suggested Readings:**

- Kochhar, S.L. (2011). Economic Botany in the Tropics, MacMillan Publishers India Ltd., New Delhi. 4th edition.
- Bhojwani, S.S. and Razdan, M.K., (1996). Plant Tissue Culture: Theory and Practice. Elsevier Science Amsterdam. The Netherlands.
- Glick, B.R., Pasternak, J.J. (2003). Molecular Biotechnology- Principles and Applications of recombinant DNA. ASM Press, Washington.

**GE-4: Plant Anatomy and Embryology**

**Credits 06**

**GE4T: Plant Anatomy and Embryology**

**Credits 04**

**Course Contents:**

**Unit 1: Meristematic and permanent tissues**

Root and shoot apical meristems; Simple and complex tissues

**U nit 2: Organs**

Structure of dicot and monocot root stem and leaf.

**Unit 3: Secondary Growth**

Vascular cambium – structure and function, seasonal activity. Secondary growth in root and stem, Wood (heartwood and sapwood)

**Unit 4: Adaptive and protective systems**

Epidermis, cuticle, stomata; General account of adaptations in xerophytes and hydrophytes.

**Unit 5: Structural organization of flower**

Structure of anther and pollen; Structure and types of ovules; Types of embryo sacs, organization and ultrastructure of mature embryo sac.

**Unit 6: Pollination and fertilization**

Pollination mechanisms and adaptations; Double fertilization; Seed-structure appendages and dispersal mechanisms.

**Unit 7: Embryo and endosperm**

Endosperm types, structure and functions; Dicot and monocot embryo; Embryo endosperm relationship

**Unit 8: Apomixis and polyembryony**

Definition, types and Practical applications

**Practical:**

1. Study of meristems through permanent slides and photographs.
2. Tissues (parenchyma, collenchyma and sclerenchyma); Macerated xylary elements, Phloem (Permanent slides, photographs)
3. Stem: Monocot: *Zea mays*; Dicot: *Helianthus*; Secondary: *Helianthus* (only Permanent slides).
4. Root: Monocot: *Zea mays*; Dicot: *Helianthus*; Secondary: *Helianthus* (only Permanent slides).
5. Leaf: Dicot and Monocot leaf (only Permanent slides).
6. Adaptive anatomy: Xerophyte (*Nerium* leaf); Hydrophyte (*Hydrilla* stem).
7. Structure of anther (young and mature), tapetum (amoeboid and secretory) (Permanent slides).
8. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/campylotropous.
9. Female gametophyte: *Polygonum* (monosporic) type of Embryo sac Development (Permanent slides/photographs).
10. Ultrastructure of mature egg apparatus cells through electron micrographs.
11. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens).
12. Dissection of embryo/endosperm from developing seeds.
13. Calculation of percentage of germinated pollen in a given medium.

**Suggested Readings:**

1. Bhojwani, S.S. & Bhatnagar, S.P. (2011). Embryology of Angiosperms. Vikas Publication House Pvt. Ltd. New Delhi. 5th edition.
2. Mauseth, J.D. (1988). Plant Anatomy. The Benjamin/Cummings Publisher, USA.

**OR****GE-4: Plant Physiology and Metabolism****Credits 06****GE4T: Plant Physiology and Metabolism****Credits 04****Course Contents:****Unit 1: Plant-water relations**

Importance of water, water potential and its components; Transpiration and its significance; Factors affecting transpiration; Root pressure and guttation.

**Unit 2: Mineral nutrition**

Essential elements, macro and micronutrients; Criteria of essentiality of elements; Role of essential elements; Transport of ions across cell membrane, active and passive transport, carriers, channels and pumps.

**Unit 3: Translocation in phloem.**

C omposition of phloem sap, girdling experiment; Pressure flow model; Phloem loading and unloading

#### **Unit 4: Photosynthesis**

Photosynthetic Pigments (Chl a, b, xanthophylls, carotene); Photosystem I and II, reaction center, antenna molecules; Electron transport and mechanism of ATP synthesis; C<sub>3</sub>, C<sub>4</sub> and CAM pathways of carbon fixation; Photorespiration.

#### **U nit 5: Respiration**

Glycolysis, anaerobic respiration, TCA cycle; Oxidative phosphorylation, Glyoxylate, Oxidative Pentose Phosphate Pathway.

#### **U nit 6: Enzymes**

Structure and properties; Mechanism of enzyme catalysis and enzyme inhibition.

#### **U nit 7: Nitrogen metabolism**

Biological nitrogen fixation; Nitrate and ammonia assimilation.

#### **Unit 8: Plant growth regulators**

Discovery and physiological roles of auxins, gibberellins, cytokinins, ABA, ethylene.

#### **Unit 9: Plant response to light and temperature**

Photoperiodism (SDP, LDP, Day neutral plants); Phytochrome (discovery and structure), red and far red light responses on photomorphogenesis; Vernalization.

### **GE4P: Plant Physiology and Metabolism**

**Credits 02**

#### **Practical**

1. Determination of osmotic potential of plant cell sap by plasmolytic method.
2. To study the effect of two environmental factors (light and wind) on transpiration by excised twig.
3. Calculation of stomatal index and stomatal frequency of a mesophyte and a xerophyte.
4. Demonstration of Hill reaction.
5. Demonstrate the activity of catalase and study the effect of pH and enzyme concentration.
6. To study the effect of light intensity and bicarbonate concentration on O<sub>2</sub> evolution in photosynthesis.
7. Comparison of the rate of respiration in any two parts of a plant.
8. Separation of amino acids by paper chromatography.

#### **Demonstration experiments (any four)**

1. Bolting.
2. Effect of auxins on rooting.
3. Suction due to transpiration.
4. R.Q.
5. Respiration in roots.

#### **Suggested Readings**

- Taiz, L., Zeiger, E., MØller, I.M. and Murphy, A (2015). Plant Physiology and Development. Sinauer Associates Inc. USA. 6th edition.
- Hopkins, W.G., Huner, N.P., (2009). Introduction to Plant Physiology. John Wiley & Sons, U.S.A. 4th Edition.
- Bajracharya, D., (1999). Experiments in Plant Physiology- A Laboratory Manual. Narosa Publishing House, New Delhi.



# VIDYASAGAR UNIVERSITY



## Curriculum for 3-Year BSc (General) in

## Botany

Under Choice Based Credit System (CBCS)  
[w.e.f 2018-2019]

**VIDYASAGAR UNIVERSITY**  
**B Sc (General) in Botany**  
[Choice Based Credit System]

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
							CA	ESE	TOTAL	
1	I	<b>SEMESTER-I</b>								
		Core-1 (DSC-1A)		Biodiversity ( Microbes, Algae, Fungi and Archegoniate) - <b>Practical</b>	6	4-0-4	15	60	75	
		Core-2 (DSC-2A)		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75	
		Core-3 (DSC-3A)		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75	
		AECC-1 (Elective)		English/MIL	2	1-1-0	10	40	50	
		<b>Semester - I : Total</b>				<b>20</b>				<b>275</b>
	<b>SEMESTER-II</b>									
	II	Core-4 (DSC-1B)		Plant Ecology and Taxonomy - <b>Practical</b>	6	4-0-4	15	60	75	
		Core-5 (DSC-2B)		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75	
		Core-6 (DSC-3B)		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75	
		AECC-2 (Elective)		Environmental Studies	4		20	80	100	
		<b>Semester - 2 : Total</b>				<b>22</b>				<b>325</b>

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
2	III	<b>SEMESTER-III</b>							
		Core-7 (DSC-1C)		Plant Anatomy and Embryology - <b>Practical</b>	6	4-0-4	15	60	75
		Core-8 (DSC-2C)		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75
		Core-9 (DSC-3C)		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75
		SEC-1		SEC-1: Biofertilizers Or Nursery and Gardening	2	1-1-0	10	40	50
		<b>Semester - 3 : Total</b>			<b>20</b>				<b>275</b>
		<b>SEMESTER-IV</b>							
	IV	Core-10 (DSC-1D)		Plant Physiology and Metabolism - <b>Practical</b>	6	4-0-4	15	60	75
		Core-11 (DSC-2D)		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75
		Core-12 (DSC-3D)		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75
		SEC-2		SEC-2: Herbal Technology Or Mushroom Culture Technology	2	1-1-0	10	40	50
		<b>Semester - 4 : Total</b>			<b>20</b>				<b>275</b>

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks			
3	V	<b>SEMESTER-V</b>						<b>CA</b>	<b>ESE</b>	<b>TOTAL</b>
		DSE-1A		Discipline-1(Botany)	6	4-0-4/ 5-1-0	15	60	75	
		DSE-2A		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75	
		DSE-3A		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75	
		SEC-3		SEC-3: Floriculture Or Ethnobotany	2	1-1-0	10	40	50	
				<b>Semester - 5 : Total</b>	<b>20</b>				<b>275</b>	
			<b>SEMESTER-VI</b>							
	VI	DSE-1B		Discipline-1(Botany)	6	4-0-4/ 5-1-0	15	60	75	
		DSE-2B		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75	
		DSE-3B		Other Discipline/TBD	6	4-0-4/ 5-1-0	15	60	75	
		SEC-4		SEC-4: Medicinal Botany Or Plant Diversity and Human Welfare Or Intellectual Property Rights	2	1-1-0	10	40	50	
				<b>Semester - 6 : Total</b>	<b>20</b>				<b>275</b>	
				<b>Total in all semester:</b>			<b>122</b>			<b>1700</b>

CC = Core Course , AECC = Ability Enhancement Compulsory Course , GE = Generic Elective , SEC = Skill Enhancement Course , DSE = Discipline Specific Elective , CA= Continuous Assessment , ESE= End Semester Examination , TBD=To be decided , CT = Core Theory, CP=Core Practical , L = Lecture, T = Tutorial , P = Practical , MIL = Modern Indian Language , ENV5 = Environmental Studies ,

## List of Core Courses and Electives

### Core Course (CC)

**DSC-1A: Biodiversity (Microbes, Algae, Fungi and Archegoniate)**  
**DSC-1B: Plant Ecology and Taxonomy**  
**DSC-1C: Plant Anatomy and Embryology**  
**DSC-1D: Plant Physiology and Metabolism**

### Discipline Specific Electives (DSE)

**DSE-1: Cell and Molecular Biology**  
**Or**  
**DSE-1: Economic Botany and Biotechnology**  
**Or**  
**DSE-1: Bioinformatics**

**DSE-2: Genetics and Plant Breeding**  
**Or**  
**DSE-2: Analytical Techniques in Plant Sciences**  
**Or**  
**DSE-2: Research Methodology**

### Skill Enhancement Course (SEC)

**SEC-1: Bio-fertilizers**  
**Or**  
**SEC-1: Nursery and Gardening**

**SEC-2: Herbal Technology**  
**Or**  
**SEC-2: Mushroom Culture Technology**

**SEC-3: Floriculture**  
**Or**  
**SEC-3: Ethnobotany**

**SEC-4: Medicinal Botany**  
**Or**  
**SEC-4: Plant Diversity and Human Welfare**  
**Or**  
**SEC-4: Intellectual Property Rights**

## Core Course (CC)

### **DSC-1A(CC-1) : Biodiversity (Microbes, Algae, Fungi and Archegoniate)**

**Credits 06**

### **DSC1AT(C1T) : Biodiversity (Microbes, Algae, Fungi and Archegoniate)**

**Credits 04**

#### **Unit 1: Microbes**

Viruses – Discovery, general structure, replication (general account), DNA virus (T-phage); Lytic and lysogenic cycle, RNA virus (TMV); Economic importance; Bacteria – Discovery, General characteristics and cell structure; Reproduction – vegetative, asexual and recombination (conjugation, transformation and transduction); Economic importance.

#### **Unit 2: Algae**

General characteristics; Ecology and distribution; Range of thallus organization and reproduction; Classification of algae; Morphology and life-cycles of the following: *Nostoc*, *Chlamydomonas*, *Oedogonium*, *Vaucheria*, *Fucus*, *Polysiphonia*. Economic importance of algae

#### **Unit 3: Fungi**

Introduction - General characteristics, ecology and significance, range of thallus organization, cell wall composition, nutrition, reproduction and classification; True Fungi- General characteristics, ecology and significance, life cycle of *Rhizopus* (Zygomycota), *Penicillium*, *Alternaria* (Ascomycota), *Puccinia*, *Agaricus* (Basidiomycota); Symbiotic Associations-Lichens: General account, reproduction and significance; Mycorrhiza: ectomycorrhiza and endomycorrhiza and their significance

#### **Unit 4: Introduction to Archegoniate**

Unifying features of archegoniate, Transition to land habit, Alternation of generations.

#### **Unit 5: Bryophytes**

General characteristics, adaptations to land habit, Classification, Range of thallus organization. Classification (up to family), morphology, anatomy and reproduction of *Marchantia* and *Funaria*. (Developmental details not to be included). Ecology and economic importance of bryophytes with special mention of *Sphagnum*.

#### **Unit 6: Pteridophytes**

General characteristics, classification, Early land plants (*Cooksonia* and *Rhynia*). Classification (up to family), morphology, anatomy and reproduction of *Selaginella*, *Equisetum* and *Pteris*. (Developmental details not to be included). Heterospory and seed habit, stelar evolution. Ecological and economical importance of Pteridophytes.

#### **Unit 4: Gymnosperms**

General characteristics, classification. Classification (up to family), morphology, anatomy and reproduction of *Cycas* and *Pinus*. (Developmental details not to be included). Ecological and economical importance.

### **DSC1P(C1P) : Biodiversity (Microbes, Algae, Fungi and Archegoniate(Practical))**



## List of Practical

Credits : 02

1. EMs/Models of viruses – T-Phage and TMV, Line drawing/Photograph of Lytic and Lysogenic Cycle.
2. Types of Bacteria from temporary/permanent slides/photographs; EM bacterium; Binary Fission; Conjugation; Structure of root nodule. Gram staining
3. Study of vegetative and reproductive structures of *Nostoc*, *Chlamydomonas* (electron micrographs), *Oedogonium*, *Vaucheria*, *Fucus*\* and *Polysiphonia* through temporary preparations and permanent slides. (\* *Fucus* - Specimen and permanent slides)
4. *Rhizopus* and *Penicillium*: Asexual stage from temporary mounts and sexual structures through permanent slides.
5. *Alternaria*: Specimens/photographs and tease mounts.
6. *Puccinia*: Herbarium specimens of Black Stem Rust of Wheat and infected Barberry leaves; section/tease mounts of spores on Wheat and permanent slides of both the hosts.
7. *Agaricus*: Specimens of button stage and full grown mushroom; Sectioning of gills of *Agaricus*.
8. Lichens: Study of growth forms of lichens (crustose, foliose and fruticose)
9. Mycorrhiza: ecto mycorrhiza and endo mycorrhiza (Photographs)
10. *Marchantia*- morphology of thallus, w.m. rhizoids and scales, v.s. thallus through gemma cup, w.m. gemmae (all temporary slides), v.s. antheridiophore, archegoniophore, l.s. sporophyte (all permanent slides).
11. *Funaria*- morphology, w.m. leaf, rhizoids, operculum, peristome, annulus, spores (temporary slides); permanent slides showing antheridial and archegonial heads, l.s. capsule and protonema.
12. *Selaginella* - morphology, w.m. leaf with ligule, t.s. stem, w.m. strobilus, w.m. microsporophyll and megasporophyll (temporary slides), l.s. strobilus (permanent slide).
13. *Equisetum* - morphology, t.s. internode, l.s. strobilus, t.s. strobilus, w.m. sporangiophore, w.m. spores (wet and dry)(temporary slides); t.s. rhizome (permanent slide).
14. *Pteris* - morphology, t.s. rachis, v.s. sporophyll, w.m. sporangium, w.m. spores (temporary slides), t.s. rhizome, w.m. prothallus with sex organs and young sporophyte (permanent slide).
15. *Cycas* - morphology (coralloid roots, bulbil, leaf), t.s. coralloid root, t.s. rachis, v.s. leaflet, v.s. microsporophyll, w.m. spores (temporary slides), l.s. ovule, t.s. root (permanent slide).
16. *Pinus* - morphology (long and dwarf shoots, w.m. dwarf shoot, male and female), w.m. dwarf shoot, t.s. needle, t.s. stem, , l.s./t.s. male cone, w.m. microsporophyll, w.m. microspores (temporary slides), l.s. female cone, t.l.s. & r.l.s. stem (permanent slide).

## Suggested Readings:

- Kumar, H.D. (1999). Introductory Phycology. Affiliated East-West. Press Pvt. Ltd. Delhi. 2<sup>nd</sup> edition.
- Tortora, G.J., Funke, B.R., Case, C.L. (2010). Microbiology: An Introduction, Pearson Benjamin Cummings, U.S.A. 10th edition.
- Sethi, I.K. and Walia, S.K. (2011). Text book of Fungi & Their Allies, MacMillan Publishers Pvt. Ltd., Delhi.

- Alexopoulos, C.J., Mims, C.W., Blackwell, M. (1996). Introductory Mycology, John Wiley and Sons (Asia), Singapore. 4th edition.
- Raven, P.H., Johnson, G.B., Losos, J.B., Singer, S.R., (2005). Biology. Tata McGraw Hill, Delhi, India.
- Vashishta, P.C., Sinha, A.K., Kumar, A., (2010). Pteridophyta, S. Chand. Delhi, India.
- Bhatnagar, S.P. and Moitra, A. (1996). Gymnosperms. New Age International (P) Ltd Publishers, New Delhi, India.
- Parihar, N.S. (1991). An introduction to Embryophyta. Vol. I. Bryophyta. Central Book Depot, Allahabad.

**DSC-1B(CC-2): Plant Ecology and Taxonomy**

**Credits 06**

**DSC1B(C2T): Plant Ecology and Taxonomy**

**Credits 04**

### **Unit 1: Introduction**

### **Unit 2: Ecological factors**

Soil: Origin, formation, composition, soil profile. Water: States of water in the environment, precipitation types. Light and temperature: Variation Optimal and limiting factors; Shelford law of tolerance. Adaptation of hydrophytes and xerophytes.

### **Unit 3: Plant communities**

Characters; Ecotone and edge effect; Succession; Processes and types.

### **Unit 4: Ecosystem**

Structure; energy flow trophic organisation; Food chains and food webs, Ecological pyramids production and productivity; Biogeochemical cycling; Cycling of carbon, nitrogen and Phosphorous

### **Unit 5: Phytogeography**

Principle biogeographical zones; Endemism

### **Unit 6 Introduction to plant taxonomy**

Identification, Classification, Nomenclature.

### **Unit 7: Identification**

Functions of Herbarium, important herbaria and botanical gardens of the world and India; Documentation: Flora, Keys: single access and multi-access

### **Unit 8: Taxonomic evidences from palynology, cytology, phytochemistry and molecular data.**

### **Unit 9: Taxonomic hierarchy**

Ranks, categories and taxonomic groups

### **Unit 10: Botanical nomenclature**

Principles and rules (ICN); ranks and names; binominal system, typification, author citation, valid publication, rejection of names, principle of priority and its limitations.





### Unit 11: Classification

Types of classification-artificial, natural and phylogenetic. Bentham and Hooker (upto series), Engler and Prantl (upto series).

### Unit 12: Biometrics, numerical taxonomy and cladistics

Characters; variations; OTUs, character weighting and coding; cluster analysis; phenograms, cladograms (definitions and differences).

### DSC1BP(C2P): Plant Ecology and Taxonomy(Practical)

Credits 02

#### Practical:

1. Study of instruments used to measure microclimatic variables: Soil thermometer, maximum and minimum thermometer, anemometer, psychrometer/hygrometer, rain gauge and lux meter.
2. Determination of pH, and analysis of two soil samples for carbonates, chlorides, nitrates, sulphates, organic matter and base deficiency by rapid field test.
3. Comparison of bulk density, porosity and rate of infiltration of water in soil of three habitats.
  - a. Study of morphological adaptations of hydrophytes and xerophytes (four each).
  - b. Study of biotic interactions of the following: Stem parasite (*Cuscuta*), Root parasite ( *Orobanche*), Epiphytes, Predation (Insectivorous plants)
4. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus by species area curve method. (species to be listed)
5. Quantitative analysis of herbaceous vegetation in the college campus for frequency and comparison with Raunkiaer's frequency distribution law
6. Study of vegetative and floral characters of the following families (Description, V.S. flower, section of ovary, floral diagram/s, floral formula/e and systematic position according to Bentham & Hooker's system of classification):Brassicaceae - *Brassica*, *Alyssum* / *Iberis*; Asteraceae -*Sonchus/Launaea*, *Vernonia/Ageratum*, *Eclipta/Tridax*; Solanaceae -*Solanum nigrum*, *Withania*; Lamiaceae -*Salvia*, *Ocimum*; Liliaceae - *Asphodelus* / *Lilium* / *Allium*.
7. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).

#### Suggested Readings:

- Kormondy, E.J. (1996). Concepts of Ecology. Prentice Hall, U.S.A. 4th edition.
- Sharma, P.D. (2010) Ecology and Environment. Rastogi Publications, Meerut, India. 8<sup>th</sup> edition.
- Simpson, M.G. (2006). *Plant Systematics*. Elsevier Academic Press, San Diego, CA, U.S.A.
- Singh, G. (2012). *Plant Systematics: Theory and Practice*. Oxford & IBH Pvt. Ltd., New Delhi. 3rd edition.

### DSC-1C(CC-3) : Plant Anatomy and Embryology

Credits 06

### DSC 1CT(C3T) : Plant Anatomy and Embryology

Credits 04

### Unit 1: Meristematic and permanent tissues



Root and shoot apical meristems; Simple and complex tissues.

### **Unit 2: Organs**

Structure of dicot and monocot root stem and leaf.

### **Unit 3: Secondary Growth**

Vascular cambium – structure and function, seasonal activity. Secondary growth in root and stem, Wood (heartwood and sapwood).

### **Unit 4: Adaptive and protective systems**

Epidermis, cuticle, stomata; General account of adaptations in xerophytes and hydrophytes.

### **Unit 5: Structural organization of flower**

Structure of anther and pollen; Structure and types of ovules; Types of embryo sacs, organization and ultrastructure of mature embryo sac.

### **Unit 6: Pollination and fertilization**

Pollination mechanisms and adaptations; Double fertilization; Seed-structure appendages and dispersal mechanisms.

### **Unit 7: Embryo and endosperm**

Endosperm types, structure and functions; Dicot and monocot embryo; Embryo endosperm relationship.

### **Unit 8: Apomixis and polyembryony**

Definition, types and practical applications.

## **DSC1CP(C3P) : Plant Anatomy and Embryology(Practical)**

**Credits 02**

### **Practical**

1. Study of meristems through permanent slides and photographs.
2. Tissues (parenchyma, collenchyma and sclerenchyma); Macerated xylary elements, Phloem (Permanent slides, photographs)
3. Stem: Monocot: *Zea mays*; Dicot: *Helianthus*; Secondary: *Helianthus* (only Permanent slides).
4. Root: Monocot: *Zea mays*; Dicot: *Helianthus*; Secondary: *Helianthus* (only Permanent slides).
5. Leaf: Dicot and Monocot leaf (only Permanent slides).
6. Adaptive anatomy: Xerophyte (*Nerium* leaf); Hydrophyte (*Hydrilla* stem).
7. Structure of anther (young and mature), tapetum (amoeboid and secretory) (Permanent slides).
8. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/campylotropous.
9. Female gametophyte: *Polygonum* (monosporic) type of Embryo sac Development (Permanent slides/photographs).
10. Ultrastructure of mature egg apparatus cells through electron micrographs.
11. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens).
12. Dissection of embryo/endosperm from developing seeds.

13. Calculation of percentage of germinated pollen in a given medium.

**Suggested Readings:**

- Bhojwani, S.S. & Bhatnagar, S.P. (2011). Embryology of Angiosperms. Vikas Publication House Pvt. Ltd. New Delhi. 5th edition.
- Mauseth, J.D. (1988). Plant Anatomy. The Benjamin/Cummings Publisher, USA.

**DSC-1D(CC-4): Plant Physiology and Metabolism**

**Credits 06**

**DSC1DT(C4T): Plant Physiology and Metabolism**

**Credits 04**

**Unit 1: Plant-water relations**

Importance of water, water potential and its components; Transpiration and its significance; Factors affecting transpiration; Root pressure and guttation.

**Unit 2: Mineral nutrition**

Essential elements, macro and micronutrients; Criteria of essentiality of elements; Role of essential elements; Transport of ions across cell membrane, active and passive transport, carriers, channels and pumps.

**Unit 3: Translocation in phloem**

Composition of phloem sap, girdling experiment; Pressure flow model; Phloem loading and unloading.

**Unit 4: Photosynthesis**

Photosynthetic Pigments (Chl a, b, xanthophylls, carotene); Photosystem I and II, reaction center, antenna molecules; Electron transport and mechanism of ATP synthesis; C3, C4 and CAM pathways of carbon fixation; Photorespiration.

**Unit 5: Respiration**

Glycolysis, anaerobic respiration, TCA cycle; Oxidative phosphorylation, Glyoxylate, Oxidative Pentose Phosphate Pathway.

**Unit 6: Enzymes**

Structure and properties; Mechanism of enzyme catalysis and enzyme inhibition.

**Unit 7: Nitrogen metabolism**

Biological nitrogen fixation; Nitrate and ammonia assimilation.

**Unit 8: Plant growth regulators**

Discovery and physiological roles of auxins, gibberellins, cytokinins, ABA, ethylene.

**Unit 9: Plant response to light and temperature**

Photoperiodism (SDP, LDP, Day neutral plants); Phytochrome (discovery and structure), red and far red light responses on photomorphogenesis; Vernalization.

**DSC1DP(C4P): Plant Physiology and Metabolism (Practical)**

**Credits 02**

## Practical

1. Determination of osmotic potential of plant cell sap by plasmolytic method.
2. To study the effect of two environmental factors (light and wind) on transpiration by excised twig.
3. Calculation of stomatal index and stomatal frequency of a mesophyte and a xerophyte.
4. Demonstration of Hill reaction.
5. Demonstrate the activity of catalase and study the effect of pH and enzyme concentration.
6. To study the effect of light intensity and bicarbonate concentration on O<sub>2</sub> evolution in photosynthesis.
7. Comparison of the rate of respiration in any two parts of a plant.
8. Separation of amino acids by paper chromatography.

## Demonstration experiments (any four)

1. Bolting.
2. Effect of auxins on rooting.
3. Suction due to transpiration.
4. R.Q.
5. Respiration in roots.

## Suggested Readings:

- Taiz, L., Zeiger, E., (2010). Plant Physiology. Sinauer Associates Inc., U.S.A. 5th Edition.
- Hopkins, W.G., Huner, N.P., (2009). Introduction to Plant Physiology. John Wiley & Sons, U.S.A. 4th Edition.
- Bajracharya, D., (1999). Experiments in Plant Physiology- A Laboratory Manual. Narosa Publishing House, New Delhi.

## Discipline Specific Electives (DSE)

### DSE-1: Cell and Molecular Biology

Credits 06

### DSE1T: Cell and Molecular Biology

Credits 04

### Unit 1: Techniques in Biology

Principles of microscopy; Light Microscopy; Phase contrast microscopy; Fluorescence microscopy; Confocal microscopy; Sample Preparation for light microscopy; Electron microscopy (EM) - Scanning EM and Scanning Transmission EM (STEM); Sample preparation for electron microscopy; X-ray diffraction analysis.

### Unit 2: Cell as a unit of Life

The Cell Theory; Prokaryotic and eukaryotic cells; Cell size and shape; Eukaryotic Cell components.

### Unit 3: Cell Organelles

Mitochondria : Structure, marker enzymes, composition; Semiautonomous nature; Symbiont hypothesis; Proteins synthesized within mitochondria; mitochondrial DNA. Chloroplast Structure, marker enzymes, composition; semiautonomous nature, chloroplast

DNA, ER, Golgi body & Lysosomes : Structures and roles. Peroxisomes and Glyoxisomes :Structures, composition, functions in animals and plants and biogenesis. Nucleus :Nuclear Envelope- structure of nuclear pore complex; chromatin; molecular organization, DNA packaging in eukaryotes, euchromatin and heterochromatin, nucleolus and ribosome structure (brief).

#### **Unit 4: Cell Membrane and Cell Wall**

The functions of membranes; Models of membrane structure; The fluidity of membranes; Membrane proteins and their functions; Carbohydrates in the membrane; Faces of the membranes; Selective permeability of the membranes; Cell wall.

#### **Unit 5: Cell Cycle**

Overview of Cell cycle, Mitosis and Meiosis; Molecular controls.

#### **Unit 6: Genetic material**

DNA : Miescher to Watson and Crick- historic perspective, Griffith's and Avery's transformation experiments, Hershey-Chase bacteriophage experiment, DNA structure, types of DNA, types of genetic material.

DNA replication (Prokaryotes and eukaryotes): bidirectional replication, semi-conservative, semi discontinuous RNA priming,  $\theta$  (theta) mode of replication, replication of linear, ds-DNA, replicating the 5' end of linear chromosome including replication enzymes.

#### **Unit 7: Transcription (Prokaryotes and Eukaryotes)**

Types of structures of RNA (mRNA, tRNA, rRNA), RNA polymerase - various types; Translation (Prokaryotes and eukaryotes), genetic code.

#### **Unit 8: Regulation of gene expression**

Prokaryotes:Lac operon and Tryptophan operon ; and in Eukaryotes.

### **DSE1P: Cell and Molecular Biology ( Practical)**

**Credits 02**

#### **Practical**

1. To study prokaryotic cells (bacteria), viruses, eukaryotic cells with the help of light and electron micrographs.
2. Study of the photomicrographs of cell organelles
3. To study the structure of plant cell through temporary mounts.
4. To study the structure of animal cells by temporary mounts-squamous epithelial cell and nerve cell.
5. Preparation of temporary mounts of striated muscle fiber
6. To prepare temporary stained preparation of mitochondria from striated muscle cells /cheek epithelial cells using vital stain Janus green.
7. Study of mitosis and meiosis (temporary mounts and permanent slides).
8. Study the effect of temperature, organic solvent on semi permeable membrane.
9. Demonstration of dialysis of starch and simple sugar.
10. Study of plasmolysis and deplasmolysis on *Rhoeo* leaf.
11. Measure the cell size (either length or breadth/diameter) by micrometry.
12. Study the structure of nuclear pore complex by photograph (from Gerald Karp)

13. Study of special chromosomes (polytene & lampbrush) either by slides or photographs.
14. Study DNA packaging by micrographs.
15. Preparation of the karyotype and ideogram from given photograph of somatic metaphase chromosome.

**Suggested Readings :**

- Karp, G. 2010. Cell and Molecular Biology: Concepts and Experiments. 6th Edition. John Wiley & Sons. Inc.
- De Robertis, E.D.P. and De Robertis, E.M.F. 2006. Cell and Molecular Biology. 8<sup>th</sup> edition. Lippincott Williams and Wilkins, Philadelphia.
- Cooper, G.M. and Hausman, R.E. 2009. The Cell: A Molecular Approach. 5<sup>th</sup> edition. ASM Press & Sunderland, Washington, D.C.; Sinauer Associates, MA.
- Becker, W.M., Kleinsmith, L.J., Hardin. J. and Bertoni, G. P. 2009. The World of the Cell. 7th edition. Pearson Benjamin Cummings Publishing, San Francisco.

**Or**

**DSE-1 : Economic Botany and Biotechnology**

**Credits 06**

**DSE1T : Economic Botany and Biotechnology**

**Credits 04**

**Unit 1: Origin of Cultivated Plants**

Concept of centres of origin, their importance with reference to Vavilov's work

**Unit 2: Cereals**

Wheat -Origin, morphology, uses

**Unit 3: Legumes**

General account with special reference to Gram and soybean

**Unit 4: Spices**

General account with special reference to clove and black pepper (Botanical name, family, part used, morphology and uses)

**Unit 5: Beverages**

Tea (morphology, processing, uses)

**Unit 6: Oils and Fats**

General description with special reference to groundnut

**Unit 7: Fibre Yielding Plants**

General description with special reference to Cotton (Botanical name, family, part used, morphology and uses)

**Unit 8: Introduction to biotechnology**

**Unit 9: Plant tissue culture**

Micropropagation ; haploid production through androgenesis and gynogenesis; brief account of embryo & endosperm culture with their applications

## **Unit 10: Recombinant DNA Techniques**

Blotting techniques: Northern, Southern and Western Blotting, DNA Fingerprinting; Molecular DNA markers i.e. RAPD, RFLP, SNPs; DNA sequencing, PCR and Reverse Transcriptase-PCR. Hybridoma and monoclonal antibodies, ELISA and Immunodetection. Molecular diagnosis of human disease, Human gene Therapy.

### **DSE1P : Economic Botany and Biotechnology(Practical)**

**Credits 02**

#### **Practical**

1. Study of economically important plants : Wheat, Gram, Soybean, Black pepper, Clove Tea, Cotton, Groundnut through specimens, sections and microchemical tests
2. Familiarization with basic equipments in tissue culture.
3. Study through photographs: Anther culture, somatic embryogenesis, endosperm and embryo culture; micropropagation.
4. Study of molecular techniques: PCR, Blotting techniques, AGE and PAGE.

#### **Suggested Readings**

- Kochhar, S.L. (2011). Economic Botany in the Tropics, MacMillan Publishers India Ltd., New Delhi. 4th edition.
- Bhojwani, S.S. and Razdan, M.K., (1996). Plant Tissue Culture: Theory and Practice. Elsevier Science Amsterdam. The Netherlands.
- Glick, B.R., Pasternak, J.J. (2003). Molecular Biotechnology- Principles and Applications of recombinant DNA. ASM Press, Washington.

**Or**

### **DSE-1: Bioinformatics**

**Credits 06**

### **DSE1T: Bioinformatics**

**Credits 04**

## **Unit 1: Introduction to Bioinformatics**

Introduction, Branches of Bioinformatics, Aim, Scope and Research areas of Bioinformatics.

## **Unit 2: Databases in Bioinformatics**

Introduction, Biological Databases, Classification format of Biological Databases, Biological Database Retrieval System.

## **Unit 3 : Biological Sequence Databases**

National Center for Biotechnology Information (NCBI): Tools and Databases of NCBI, Database Retrieval Tool, Sequence Submission to NCBI, Basic local alignment search tool (BLAST), Nucleotide Database, Protein Database, Gene Expression Database.

EMBL Nucleotide Sequence Database (EMBL-Bank): Introduction, Sequence Retrieval, Sequence Submission to EMBL, Sequence analysis tools. DNA Data Bank of Japan (DDBJ): Introduction, Resources at DDBJ, Data Submission at

DDBJ. Protein Information Resource (PIR): About PIR, Resources of PIR, Databases of PIR, Data Retrieval in PIR. Swiss-Prot: Introduction and Salient Features.

## **Unit 4: Sequence Alignments**



Introduction, Concept of Alignment, Multiple Sequence Alignment (MSA), MSA by CLUSTALW, Scoring Matrices, Percent Accepted Mutation (PAM), Blocks of Amino Acid Substitution Matrix (BLOSUM).

### **Unit 5: Molecular Phylogeny**

Methods of Phylogeny, Software for Phylogenetic Analyses, Consistency of Molecular Phylogenetic Prediction.

### **Unit 6: Applications of Bioinformatics**

Structural Bioinformatics in Drug Discovery, Quantitative structure-activity relationship (QSAR) techniques in Drug Design, Microbial genome applications, Crop improvement.

### **DSE1P: Bioinformatics (Practical)**

**Credits 02**

#### **Practical**

1. Nucleic acid and protein databases.
2. Sequence retrieval from databases.
3. Sequence alignment.
4. Sequence homology and Gene annotation.
5. Construction of phylogenetic tree.

#### **Suggested Readings:**

- Ghosh Z. and Bibekanand M. (2008) Bioinformatics: Principles and Applications. Oxford University Press.
- Pevsner J. (2009) Bioinformatics and Functional Genomics. II Edition. Wiley-Blackwell.
- Campbell A. M., Heyer L. J. (2006) Discovering Genomics, Proteomics and Bioinformatics. II Edition. Benjamin Cummings.

### **DSE-2: Genetics and Plant Breeding**

**Credits 06**

### **DSE2T: Genetics and Plant Breeding**

**Credits 04**

#### **Unit 1: Heredity**

1. Brief life history of Mendel
2. Terminologies
3. Laws of Inheritance
4. Modified Mendelian Ratios: 2:1- lethal Genes; 1:2:1- Co - dominance, incomplete dominance;- 9:7; 9:4:3; 13:3; 12:3:1.
5. Chi Square
6. Pedigree Analysis
7. Cytoplasmic Inheritance: Shell Coiling in Snail, Kappa particles in Paramecium, leaf variegation in *Mirabilis jalapa*, Male sterility.
8. Multiple allelism
9. Pleiotropism
10. Chromosome theory of Inheritance.

#### **Unit 2: Sex-determination and Sex-linked Inheritance**



### **Unit 3: Linkage and Crossing over**

Linkage: concept & history, complete & incomplete linkage, bridges experiment, coupling & repulsion, recombination frequency, linkage maps based on two and three factor crosses. Crossing over: concept and significance, cytological proof of crossing over.

### **Unit 4: Mutations and Chromosomal Aberrations**

Types of mutations, effects of physical & chemical mutagens. Numerical chromosomal changes: Euploidy, Polyploidy and Aneuploidy ; Structural chromosomal changes: Deletions, Duplications, Inversions & Translocations.

### **Unit 5: Plant Breeding**

Introduction and objectives. Breeding systems: modes of reproduction in crop plants. Important achievements and undesirable consequences of plant breeding.

### **Unit 6: Methods of crop improvement**

Introduction: Centres of origin and domestication of crop plants, plant genetic resources; Acclimatization; Selection methods: For self pollinated, cross pollinated and vegetatively propagated plants; Hybridization: For self, cross and vegetatively propagated plants – Procedure, advantages and limitations.

### **Unit 7: Quantitative inheritance**

Concept, mechanism, examples. Monogenic vs polygenic Inheritance.

### **Unit 8: Inbreeding depression and heterosis**

History, genetic basis of inbreeding depression and heterosis; Applications.

### **Unit 9: Crop improvement and breeding**

Role of mutations; Polyploidy; Distant hybridization and role of biotechnology in crop improvement.

## **DSE2P: Genetics and Plant Breeding(Practical)**

**Credits 02**

### **Practical**

1. Mendel's laws through seed ratios. Laboratory exercises in probability and chisquare.
2. Chromosome mapping using point test cross data.
3. Pedigree analysis for dominant and recessive autosomal and sex linked traits.
4. Incomplete dominance and gene interaction through seed ratios (9:7, 9:6:1, 13:3, 15:1, 12:3:1, 9:3:4).
5. Study of aneuploidy: Down's, Klinefelter's and Turner's syndromes through photographs.
6. Photographs/Permanent Slides showing Translocation Ring, Laggards and Inversion Bridge.
7. Hybridization techniques - Emasculation, Bagging (For demonstration only).
8. Induction of polyploidy conditions in plants (For demonstration only).

### **Suggested Readings:**

- Gardner EJ, Simmons MJ, Snustad DP (2008). Principles of Genetics. 8th Ed. Wiley- India.

- Snustad, D.P. and Simmons, M.J. (2010). Principles of Genetics, John Wiley & Sons Inc., India. 5th edition.
- Klug WS, Cummings MR, Spencer, C, Palladino, M (2011). Concepts of Genetics, 10th Ed., Benjamin Cummings
- Griffiths, A.J.F., Wessler, S.R., Carroll, S.B., Doebley, J. (2010). Introduction to Genetic Analysis. W. H. Freeman and Co., U.S.A. 10th edition.
- Pierce BA (2011) Genetics: A Conceptual Approach, 4th Ed., Macmillan Higher Education Learning
- Singh, B.D. (2005). Plant Breeding: Principles and Methods. Kalyani Publishers. 7<sup>th</sup> edition.
- Chaudhari, H.K. (1984). Elementary Principles of Plant Breeding. Oxford – IBH. 2<sup>nd</sup> edition.
- Acquaah, G. (2007). Principles of Plant Genetics & Breeding. Blackwell Publishing.

**Or**

**DSE-2: Analytical Techniques in Plant Sciences**

**Credits 06**

**DSE2T: Analytical Techniques in Plant Sciences**

**Credits 04**

**Unit 1: Imaging and related techniques**

Principles of microscopy; Light microscopy; Fluorescence microscopy; Confocal microscopy; Use of fluorochromes: (a) Flow cytometry (FACS); (b) Applications of fluorescence microscopy: Chromosome banding, FISH, chromosome painting; Transmission and Scanning electron microscopy – sample preparation for electron microscopy, cryofixation, negative staining, shadow casting, freeze fracture, freeze etching.

**Unit 2: Cell fractionation**

Centrifugation: Differential and density gradient centrifugation, sucrose density gradient, CsCl<sub>2</sub> gradient, analytical centrifugation, ultracentrifugation, marker enzymes.

**Unit 3: Radioisotopes**

Use in biological research, auto-radiography, pulse chase experiment.

**Unit 4: Spectrophotometry**

Principle and its application in biological research.

**Unit 5: Chromatography**

Principle; Paper chromatography; Column chromatography, TLC, GLC, HPLC, Ionexchange chromatography; Molecular sieve chromatography; Affinity chromatography.

**Unit 6: Characterization of proteins and nucleic acids**

Mass spectrometry; X-ray diffraction; X-ray crystallography; Characterization of proteins and nucleic acids; Electrophoresis: AGE, PAGE, SDS-PAGE

**Unit 7: Biostatistics**

Statistics, data, population, samples, parameters; Representation of Data: Tabular, Graphical; Measures of central tendency: Arithmetic mean, mode, median; Measures of dispersion: Range, mean deviation, variation, standard deviation; Chi-square test for goodness of fit.

## **DSE2P: Analytical Techniques in Plant Sciences**

**Credits 02**

### **Practical**

1. Study of Blotting techniques: Southern, Northern and Western, DNA fingerprinting, DNA sequencing, PCR through photographs.
2. Demonstration of ELISA.
3. To separate nitrogenous bases by paper chromatography.
4. To separate sugars by thin layer chromatography.
5. Isolation of chloroplasts by differential centrifugation.
6. To separate chloroplast pigments by column chromatography.
7. To estimate protein concentration through Lowry's methods.
8. To separate proteins using PAGE.
9. To separate DNA (marker) using AGE.
10. Study of different microscopic techniques using photographs/micrographs (freeze fracture, freeze etching, negative staining, positive staining, fluorescence and FISH).
11. Preparation of permanent slides (double staining).

### **Suggested Readings:**

- Plummer, D.T. (1996). An Introduction to Practical Biochemistry. Tata McGraw-Hill Publishing Co. Ltd. New Delhi. 3rd edition.
- Ruzin, S.E. (1999). Plant Microtechnique and Microscopy, Oxford University Press, New York. U.S.A.
- Ausubel, F., Brent, R., Kingston, R. E., Moore, D.D., Seidman, J.G., Smith, J.A., Struhl, K. (1995). Short Protocols in Molecular Biology. John Wiley & Sons. 3<sup>rd</sup> edition.
- Zar, J.H. (2012). Biostatistical Analysis. Pearson Publication. U.S.A. 4th edition.

**Or**

## **DSE-2: Research Methodology**

**Credits 06**

## **DSE2T: Research Methodology**

**Credits 04**

### **Unit 1: Basic concepts of research**

Research-definition and types of research (Descriptive vs analytical; applied vs fundamental; quantitative vs qualitative; conceptual vs empirical). Research methods vs methodology. Literature-review and its consolidation; Library research; field research; laboratory research.

### **Unit 2: General laboratory practices**

Common calculations in botany laboratories. Understanding the details on the label of reagent bottles. Molarity and normality of common acids and bases. Preparation of solutions. Dilutions. Percentage solutions. Molar, molal and normal solutions. Technique

of handling micropipettes; Knowledge about common toxic chemicals and safety measures in their handling.

### **Unit 3: Data collection and documentation of observations**

Maintaining a laboratory record; Tabulation and generation of graphs. Imaging of tissue specimens and application of scale bars. The art of field photography.

### **Unit 4: Overview of Biological Problems**

History; Key biology research areas, Model organisms in biology (A Brief overview): Genetics, Physiology, Biochemistry, Molecular Biology, Cell Biology, Genomics, Proteomics-Transcriptional regulatory network.

### **Unit 5: Methods to study plant cell/tissue structure**

Whole mounts, peel mounts, squash preparations, clearing, maceration and sectioning; Tissue preparation: living vs fixed, physical vs chemical fixation, coagulating fixatives, noncoagulant fixatives; tissue dehydration using graded solvent series; Paraffin and plastic infiltration; Preparation of thin and ultrathin sections.

### **Unit 6: Plant microtechniques**

Staining procedures, classification and chemistry of stains. Staining equipment. Reactive dyes and fluorochromes (including genetically engineered protein labeling with GFP and other tags). Cytogenetic techniques with squashed plant materials.

### **Unit 7: The art of scientific writing and its presentation**

Numbers, units, abbreviations and nomenclature used in scientific writing. Writing references. Powerpoint presentation. Poster presentation. Scientific writing and ethics, Introduction to copyright-academic misconduct/plagiarism.

## **DSE2P: Research Methodology**

**Credits 02**

### **Practical**

1. Experiments based on chemical calculations.
2. Plant microtechnique experiments.
3. The art of imaging of samples through microphotography and field photography.
4. Poster presentation on defined topics.
5. Technical writing on topics assigned.

### **Suggested Readings:**

1. Dawson, C. (2002). Practical research methods. UBS Publishers, New Delhi.
2. Stapleton, P., Yondeowei, A., Mukanyange, J., Houten, H. (1995). Scientific writing for agricultural research scientists – a training reference manual. West Africa Rice
3. Development Association, Hong Kong.
4. Ruzin, S.E. (1999). Plant microtechnique and microscopy. Oxford University Press, New York, U.S.A.

## Skill Enhancement Course(SEC)

### **SEC-1: Bio-fertilizers**

**Credits 02**

#### **SEC1T: Bio-fertilizers**

**Unit 1:**General account about the microbes used as biofertilizer – Rhizobium – isolation, identification, mass multiplication, carrier based inoculants, Actinorrhizal symbiosis.

**Unit 2:***Azospirillum*: isolation and mass multiplication – carrier based inoculant, associative effect of different microorganisms. *Azotobacter*: classification, characteristics – crop response to *Azotobacter* inoculum, maintenance and mass multiplication.

**Unit 3:**Cyanobacteria (blue green algae), *Azolla* and *Anabaena azollae* association, nitrogen fixation, factors affecting growth, blue green algae and *Azolla* in rice cultivation.

**Unit 4:** Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence and distribution, phosphorus nutrition, growth and yield – colonization of VAM – isolation and inoculum production of VAM, and its influence on growth and yield of crop plants.

**Unit 5:**Organic farming – Green manuring and organic fertilizers, Recycling of biodegradable municipal, agricultural and Industrial wastes – biocompost making methods, types and method of vermicomposting – field Application.

#### **Suggested Readings:**

- Dubey, R.C., 2005 A Text book of Biotechnology S.Chand & Co, New Delhi.
- Kumaresan, V. 2005, Biotechnology, Saras Publications, New Delhi.
- John Jothi Prakash, E. 2004. Outlines of Plant Biotechnology. Emkay \_Publication, New Delhi.
- Sathe, T.V. 2004 Vermiculture and Organic Farming. Daya publishers.
- Subha Rao, N.S. 2000, Soil Microbiology, Oxford & IBH Publishers, New \_Delhi.
- Vayas,S.C, Vayas, S. and Modi, H.A. 1998 Bio-fertilizers and organic \_Farming Akta Prakashan, Nadiad

**Or**

### **SEC-1: Nursery and Gardening**

**Credits 02**

#### **SEC1T: Nursery and Gardening**

**Unit-1:**Nursery: definition, objectives and scope and building up of infrastructure fornursery, planning and seasonal activities - Planting - direct seeding and transplants.

**Unit-2:**Seed: Structure and types - Seed dormancy; causes and methods of breaking dormancy - Seed storage: Seed banks, factors affecting seed viability, genetic erosion – Seed production technology - seed testing and certification.

**Unit-3:** Vegetative propagation: air-layering, cutting, selection of cutting, collecting season, treatment of cutting, rooting medium and planting of cuttings - Hardening of plants – green house - mist chamber, shed root, shade house and glass house.

**Unit-4:** Gardening: definition, objectives and scope - different types of gardening - landscape and home gardening - parks and its components - plant materials and design - computer applications in landscaping - Gardening operations: soil laying, manuring, watering, management of pests and diseases and harvesting.

**Unit-5:** Sowing/raising of seeds and seedlings - Transplanting of seedlings - Study of cultivation of different vegetables: cabbage, brinjal, lady's finger, onion, garlic, tomatoes, and carrots - Storage and marketing procedures.

#### **Suggested Readings:**

- Bose T.K. & Mukherjee, D., 1972, Gardening in India, Oxford & IBH Publishing Co., New Delhi.
- Sandhu, M.K., 1989, Plant Propagation, Wile Eastern Ltd., Bangalore, Madras.
- Kumar, N., 1997, Introduction to Horticulture, Rajalakshmi Publications, Nagercoil.
- Edmond Musser & Andres, Fundamentals of Horticulture, McGraw Hill Book Co., New Delhi.
- Agrawal, P.K. 1993, Hand Book of Seed Technology, Dept. of Agriculture and Cooperation, National Seed Corporation Ltd., New Delhi.
- Janick Jules. 1979. Horticultural Science. (3rd Ed.), W.H. Freeman and Co., San Francisco, USA.

## **SEC-2: Herbal Technology**

**Credits 02**

### **SEC2T: Herbal Technology**

**Unit-1:** Herbal medicines: history and scope - definition of medical terms - role of medicinal plants in Siddha systems of medicine; cultivation - harvesting - processing - storage - marketing and utilization of medicinal plants.

**Unit-2:** Pharmacognosy - systematic position and medicinal uses of the following herbs in curing various ailments; Tulsi, Ginger, Fenugreek, Indian Goose berry and Ashoka.

**Unit-3:** Phytochemistry - active principles and methods of their testing - identification and utilization of the medicinal herbs; *Catharanthus roseus* (cardiotonic), *Withania somnifera* (drugs acting on nervous system), *Clerodendron phlomoides* (anti-rheumatic) and *Centella asiatica* (memory booster).

**Unit-4:** Analytical pharmacognosy: Drug adulteration - types, methods of drug evaluation - Biological testing of herbal drugs - Phytochemical screening tests for secondary metabolites (alkaloids, flavonoids, steroids, triterpenoids, phenolic compounds)

**Unit-5:** Medicinal plant banks micro propagation of important species (*Withania somnifera*, neem and tulsi- Herbal foods-future of pharmacognosy)

### Suggested Readings:

- Glossary of Indian medicinal plants, R.N.Chopra, S.L.Nayar and I.C.Chopra, 1956. C.S.I.R, New Delhi.
- The indigenous drugs of India, Kanny, Lall, Dey and Raj Bahadur, 1984. International Book \_Distributors.
- Herbal plants and Drugs Agnes Arber, 1999. Mangal Deep Publications.
- Ayurvedic drugs and their plant source. V.V. Sivarajan and Balachandran Indra 1994. Oxford IBH \_publishing Co.
- Ayurveda and Aromatherapy. Miller, Light and Miller, Bryan, 1998. Banarsidass, Delhi.
- Principles of Ayurveda, Anne Green, 2000. Thomsons, London.
- Pharmacognosy, Dr.C.K.Kokate et al. 1999. Nirali Prakashan.

Or

## SEC-2: Mushroom Culture Technology

Credits 02

### SEC2T: Mushroom Culture Technology

**Unit-1:** Introduction, history. Nutritional and medicinal value of edible mushrooms; Poisonous mushrooms. Types of edible mushrooms available in India - *Volvariella volvacea*, *Pleurotus citrinopileatus*, *Agaricus bisporus*.

**Unit-2:** Cultivation Technology : Infrastructure: substrates (locally available) Polythene bag, vessels, Inoculation hook, inoculation loop, low cost stove, sieves, culture rack, mushroom unit (Thatched house) water sprayer, tray, small polythene bag. Pure culture: Medium, sterilization, preparation of spawn, multiplication. Mushroom bed preparation - paddy straw, sugarcane trash, maize straw, banana leaves. Factors affecting the mushroom bed preparation - Low cost technology, Composting technology in mushroom production.

**Unit-3:** Storage and nutrition : Short-term storage (Refrigeration - upto 24 hours) Long term Storage (canning, pickles, papads), drying, storage in salt solutions. Nutrition - Proteins - amino acids, mineral elements nutrition - Carbohydrates, Crude fibre content - Vitamins.

**Unit-4:** Food Preparation\_: Types of foods prepared from mushroom. Research Centres - National level and Regional level. \_Cost benefit ratio - Marketing in India and abroad, Export Value.

### Suggested Readings:

- Marimuthu, T. Krishnamoorthy, A.S. Sivaprakasam, K. and Jayarajan. R (1991) Oyster Mushrooms, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore.
- Swaminathan, M. (1990) Food and Nutrition. Bappco, The Bangalore Printing and Publishing Co. Ltd., No. 88, Mysore Road, Bangalore - 560018.
- Tewari, Pankaj Kapoor, S.C., (1988). Mushroom cultivation, Mittal Publications, Delhi.
- Nita Bahl (1984-1988) Hand book of Mushrooms, II Edition, Vol. I & Vol. II.

### SEC-3: Floriculture

Credits 02

#### SEC3T Floriculture

**Unit-1: Introduction:** History of gardening; Importance and scope of floriculture and landscape gardening.

**Unit-2: Nursery Management and Routine Garden Operations:** Sexual and vegetative methods of propagation; Soil sterilization; Seed sowing; Pricking; Planting and transplanting; Shading; Stopping or pinching; Defoliation; Wintering; Mulching; Topiary; Role of plant growth regulators.

**Unit-3: Ornamental Plants:** Flowering annuals; Herbaceous perennials; Divine vines; Shade and ornamental trees; Ornamental bulbous and foliage plants; Cacti and succulents; Palms and Cycads; Ferns and Selaginellas; Cultivation of plants in pots; Indoor gardening; Bonsai.

**Unit-4: Principles of Garden Designs:** English, Italian, French, Persian, Mughal and Japanese gardens; Features of a garden (Garden wall, Fencing, Steps, Hedge, Edging, Lawn, Flower beds, Shrubbery, Borders, Water garden. Some Famous gardens of India.

**Unit-5: Landscaping Places of Public Importance:** Landscaping highways and Educational institutions.

**Unit-6: Commercial Floriculture:** Factors affecting flower production; Production and packaging of cut flowers; Flower arrangements; Methods to prolong vase life; Cultivation of Important cut flowers (Carnation, Aster, Chrysanthemum, Dahlia, Gerbera, Gladiolous, Marigold, Rose, Liliun, Orchids).

**Unit-7: Diseases and Pests of Ornamental Plants.**

#### Suggested Readings:

- Randhawa, G.S. and Mukhopadhyay, A. 1986. Floriculture in India. Allied Publishers.

Or

### SEC-3: Ethnobotany

Credits 02

#### SEC3T: Ethnobotany

##### Unit-1: Ethnobotany

Introduction, concept, scope and objectives; Ethnobotany as an interdisciplinary science. The relevance of ethnobotany in the present context; Major and minor ethnic groups or Tribals of India, and their life styles. Plants used by the tribals: a) Food plants b) intoxicants and beverages c) Resins and oils and miscellaneous uses.

##### Unit-2: Methodology of Ethnobotanical studies

a) Field work b) Herbarium c) Ancient Literature d) Archaeological findings e) temples and sacred places.

##### Unit-3: Role of ethnobotany in modern Medicine





Medico-ethnobotanical sources in India; Significance of the following plants in ethnobotanical practices (along with their habitat and morphology) a) *Azadirachta indica* b) *Ocimum sanctum* c) *Vitex negundo*. d) *Gloriosa superba* e) *Tribulus terrestris* f) *Pongamia pinnata* g) *Cassia auriculata* h) *Indigofera tinctoria*. Role of ethnobotany in modern medicine with special example *Rauvolfia serpentina*, *Trichopus zeylanicus*, *Artemisia*, *Withania*.

Role of ethnic groups in conservation of plant genetic resources. Endangered taxa and forest management (participatory forest management).

#### **Unit-4: Ethnobotany and legal aspects**

Ethnobotany as a tool to protect interests of ethnic groups. Sharing of wealth concept with few examples from India. Biopiracy, Intellectual Property Rights and Traditional Knowledge.

#### **Suggested Readings:**

- S.K. Jain, Manual of Ethnobotany, Scientific Publishers, Jodhpur, 1995.
- S.K. Jain (ed.) Glimpses of Indian. Ethnobotany, Oxford and I B H, New Delhi – 1981
- S.K. Jain (ed.) 1989. Methods and approaches in ethnobotany. Society of ethnobotanists, Lucknow, India.
- S.K. Jain, 1990. Contributions of Indian ethnobotany. Scientific publishers, Jodhpur.
- Colton C.M. 1997. Ethnobotany – Principles and applications. John Wiley and sons – Chichester
- Rama Ro, N and A.N. Henry (1996). The Ethnobotany of Eastern Ghats in Andhra Pradesh, India. Botanical Survey of India. Howrah. 8) Rajiv K. Sinha – Ethnobotany The Renaissance of Traditional Herbal Medicine – INA –SHREE Publishers, Jaipur-1996\_9)

### **SEC-4: Medicinal Botany**

**Credits 02**

#### **SEC4T: Medicinal Botany**

**Unit-1:** History, Scope and Importance of Medicinal Plants. Indigenous Medicinal Sciences; Definition and Scope-Ayurveda: History, origin, panchamahabhutas, saptadhatu and tridoshaconcepts, Rasayana, plants used in ayurvedic treatments, Siddha: Origin of Siddha medicinal systems, Basis of Siddha system, plants used in Siddha medicine. Unani: History, concept: Umooor-e- tabiya, tumors treatments/ therapy, polyherbal formulations.

**Unit-2:** Conservation of endangered and endemic medicinal plants. Definition: endemic and endangered medicinal plants, Red list criteria; In situ conservation: Biosphere reserves, sacred groves, National Parks; Ex situ conservation: Botanic Gardens, Ethnomedicinal plant Gardens. Propagation of Medicinal Plants: Objectives of the nursery, its classification, important components of a nursery, sowing, pricking, use of green house for nursery production, propagation through cuttings, layering, grafting and budding.

**Unit- 3:** Ethnobotany and Folk medicines. Definition; Ethnobotany in India: Methods to study ethnobotany; Applications of Ethnobotany: National interacts, Palaeo-ethnobotany. folk medicines of ethnobotany, ethnomedicine, ethnoecology, ethnic communities of

India. Application of natural products to certain diseases- Jaundice, cardiac, infertility, diabetics, Blood pressure and skin diseases.

### **Suggested Readings**

- Trivedi P C, 2006. Medicinal Plants: Ethnobotanical Approach, Agrobios, India.
- Purohit and Vyas, 2008. Medicinal Plant Cultivation: A Scientific Approach, 2nd edn. Agrobios, India.

**Or**

## **SEC-4: Plant Diversity and Human Welfare**

**Credits 02**

### **SEC4T: Plant Diversity and Human Welfare**

**Unit-1: Plant diversity and its scope** - Genetic diversity, Species diversity, Plant diversity at the ecosystem level, Agro biodiversity and cultivated plant taxa, wild taxa. Values and uses of Biodiversity: Ethical and aesthetic values, Precautionary principle, Methodologies for valuation, Uses of plants, Uses of microbes.

**Unit-2: Loss of Biodiversity:** Loss of genetic diversity, Loss of species diversity, Loss of ecosystem diversity, Loss of agro-biodiversity, Projected scenario for biodiversity loss,

Management of Plant Biodiversity: Organizations associated with biodiversity management-Methodology for execution-IUCN, UNEP, UNESCO, WWF, NBPGR; Biodiversity legislation and conservations, Biodiversity information management and communication.

**Unit-3: Conservation of Biodiversity:** Conservation of genetic diversity, species diversity and ecosystem diversity, *In situ* and *ex situ* conservation, Social approaches to conservation, Biodiversity awareness programmes, Sustainable development.

**Unit-4: Role of plants in relation to Human Welfare** a) Importance of forestry their utilization and commercial aspects b) Avenue trees, c) Ornamental plants of India. d) Alcoholic beverages through ages. Fruits and nuts: Important fruit crops their commercial importance. Wood and its uses.

### **Suggested Readings:**

- Krishnamurthy, K.V. (2004). An Advanced Text Book of Biodiversity – Principles and Practices. Oxford and IBH Publications Co. Pvt. Ltd. New Delhi

**Or**

## **SEC-4: Intellectual Property Rights**

**Credits 02**

### **SEC4T: Intellectual Property Rights**

#### **Unit-1: Introduction to Intellectual Property Right (IPR)**

Concept and kinds. Economic importance. IPR in India and world: Genesis and scope, some important examples. IPR and WTO (TRIPS, WIPO).

## **Unit-2 : Patents**

Objectives, Rights, Patent Act 1970 and its amendments. Procedure of obtaining patents, Working of patents. Infringement.

## **Unit-3: Copyrights**

Introduction, Works protected under copyright law, Rights, Transfer of Copyright, Infringement.

## **Unit-4: Trademarks**

Objectives, Types, Rights, Protection of goodwill, Infringement, Passing off, Defences, Domain name.

## **Unit-5: Geographical Indications**

Objectives, Justification, International Position, Multilateral Treaties, National Level, Indian Position.

## **Unit-6: Protection of Traditional Knowledge**

Objective, Concept of Traditional Knowledge, Holders, Issues concerning, Bio-Prospecting and Bio-Piracy, Alternative ways, Protectability, need for a Sui-Generis regime, Traditional Knowledge on the International Arena, at WTO, at National level, Traditional Knowledge Digital Library.

## **Unit-7: Industrial Designs**

Objectives, Rights, Assignments, Infringements, Defences of Design Infringement

## **Unit-8: Protection of Plant Varieties**

Plant Varieties Protection-Objectives, Justification, International Position, Plant varieties protection in India. Rights of farmers, Breeders and Researchers. National gene bank, Benefit sharing. Protection of Plant Varieties and Farmers' Rights Act, 2001.

## **Unit-9: Information Technology Related Intellectual Property Rights**

Computer Software and Intellectual Property, Database and Data Protection, Protection of Semi-conductor chips, Domain Name Protection

## **Unit-10: Biotechnology and Intellectual Property Rights.**

Patenting Biotech Inventions: Objective, Applications, Concept of Novelty, Concept of inventive step, Microorganisms, Moral Issues in Patenting Biotechnological inventions.

### **Suggested Readings:**

- N.K. Acharya: Textbook on intellectual property rights, Asia Law House (2001).
- Manjula Guru & M.B. Rao, Understanding Trips: Managing Knowledge in Developing Countries, Sage Publications (2003).
- P. Ganguli, Intellectual Property Rights: Unleashing the Knowledge Economy, TataMcGraw-Hill (2001).
- Arthur Raphael Miller, Micheal H.Davis; Intellectual Property: Patents, Trademarks and Copyright in a Nutshell, West Group Publishers (2000).
- Jayashree Watal, Intellectual property rights in the WTO and developing countries, Oxford University Press, Oxford.

# Vidyasagar University

## Curriculum for B.Sc. Honours in Zoology

[Choice Based Credit System]

### Semester-I

Sl.No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
C1	C1T: Non- Chordates-I	Core Course-1		4	0	0	6	75
	C1P: Non- Chordates-I ( Practical)	Core Course1 [Practical]		0	0	4		
C2	C2T: Ecology	Core Course-2		4	0	0	6	75
	C2P: Ecology ( Practical)	Core Course-2 [Practical]		0	0	4		
GE-1	GE-1	GE					4/5	75
	GE-1	GE					2/1	
AECC	English	AECC					2	50
<b>Total Credits =20</b>								

**L=Lecture, T=Tutorial, P=Practical**

**AECC- Ability Enhancement Compulsory Course:** English /Modern Indian Language.

#### **Interdisciplinary/Generic Elective (GE) from other Department**

**[Four papers are to be taken and each paper will be of 6 credits]:**

**[Papers are to be taken from any of the following discipline (GE-1 Preferably Chemistry/Physiology):Chemistry/Botany/Physiology/ComputerSc./Microbiology/Bio Technology/ Geology /Nutrition /Aquaculture Management.**

## Semester -1

### Core Courses-1

**CC-1: Non-Chordates I**

**Credits 06**

**C1T1 –Non-Chordates I**

**Credits 04**

Non-Chordates I		
	4 Credits	Class
<b>Unit 1: Basics of Animal Classification</b>		4
Definitions: Classification, Systematics and Taxonomy; Taxonomic Hierarchy, Taxonomic types Codes of Zoological Nomenclature; Principle of priority; Synonymy and Homonymy; Six kingdom concept of classification (Card woese)		
<b>Unit 2: Protista and Metazoa</b>		15
Protozoa General characteristics and Classification up to phylum (according to Levine et. al., 1981) Locomotion in <i>Euglena</i> , <i>Paramoecium</i> and <i>Amoeba</i> ; Conjugation in <i>Paramoecium</i> . Life cycle and pathogenicity of <i>Plasmodium vivax</i> and <i>Entamoeba histolytica</i> <b>Metazoa</b> Evolution of symmetry and segmentation of Metazoa		

<b>Unit 3: Porifera</b>	6
General characteristics and Classification up to classes; Canal system and spicules in sponges	
<b>Unit 4: Cnidaria</b>	10
General characteristics and Classification up to classes Metagenesis in <i>Obelia</i> & <i>Aurelia</i> Metagenesis in <i>Obelia</i> Polymorphism in Cnidaria Corals and coral reef diversity, function & conservation	
<b>Unit 5: Ctenophora</b>	2
General characteristics	
<b>Unit 6: Platyhelminthes</b>	6
General characteristics and Classification up to classes Life cycle and pathogenicity and control measures of <i>Fasciola hepatica</i> and <i>Taenia solium</i>	
<b>Unit 7: Nematoda</b>	7
General characteristics and Classification up to classes Life cycle, and pathogenicity and control measures of <i>Ascaris lumbricoides</i> and <i>Wuchereria bancrofti</i> Parasitic adaptations in helminthes	
<b>Reference Books</b>	
► Ruppert and Barnes, R.D. (2006). Invertebrate Zoology, VIII Edition. Holt Saunders International  Edition.	

► Invertebrates by Brusca & Brusca. Second edition, 2002.

**Classification for metazoans to be followed from: Rupert and Barnes, 1994, 6<sup>th</sup> Edition.**

## **C1 P1 –Non-Chordates I Lab**

**Credits 02**

### **List of Practical**

1. Study of whole mount of *Euglena*, *Amoeba* and *Paramecium*
2. Identification of *Amoeba*, *Euglena*, *Entamoeba*, *Opalina*, *Paramecium*, *Plasmodium vivax* and *Plasmodium falciparum* (from the prepared slides)
3. Identification of *Sycon*, Neptune's Cup, *Obelia*, *Physalia*, *Millepora*, *Aurelia*, *Tubipora*, *Corallium*, *Alcyonium*, *Gorgonia*, *Metridium*, *Pennatula*, *Fungia*, *Meandrina*, *Madrepora*
4. Identification and significance of adult *Fasciola hepatica*, *Taenia solium* and *Ascaris lumbricoides*
5. Staining/mounting of any protozoa/helminth from gut of cockroach

## **Core -2**

**CC-2: Ecology**

**Credits 06**

**C2 T2 –Ecology**

**Credits 04**

Ecology		
	4 Credits	Class
<b>Unit 1: Introduction to Ecology</b>		4
History of ecology, Autecology and synecology, Levels of organization, Laws of limiting factors, Study of Physical factors, The Biosphere.		
<b>Unit 2: Population</b>		20
<p>Unitary and Modular populations</p> <p>Unique and group attributes of population: Demographic factors, life tables, fecundity tables, survivorship curves, dispersal and dispersion.</p> <p>Geometric, exponential and logistic growth, equation and patterns, r and K strategies</p> <p>Population regulation - density-dependent and independent factors</p> <p>Population Interactions, Gause's Principle with laboratory and field examples, Lotka-Volterra equation for competition.</p>		
<b>Unit 3: Community</b>		11
<p>Community characteristics: species diversity, abundance, , dominance, richness, Vertical stratification, Ecotone and edge effect. Ecological succession with one example</p>		
<b>Unit 4: Ecosystem</b>		10
Types of ecosystem with an example in detail, Food chain: Detritus and grazing food chains,		



<p>Linear</p> <p>and Y-shaped food chains, Food web, Energy flow through the ecosystem, Ecological pyramids and</p> <p>Ecological efficiencies</p> <p>Nutrient and biogeochemical cycle with an example of Nitrogen cycle</p> <p>Human modified ecosystem</p>	
<b>Unit 5: Applied Ecology</b>	<b>5</b>
<p>Wildlife Conservation (in-situ and ex-situ conservation).</p> <p>Management strategies for tiger conservation; Wild life protection act (1972)</p>	

### Reference Books

- ▶ Krebs, C. J. (2001). Ecology. VI Edition. Benjamin Cummings.
- ▶ Odum, E.P., (2008). Fundamentals of Ecology. Indian Edition.
- ▶ Brooks/Cole Robert Leo Smith Ecology and field biology
- ▶ Harper and Row publisher
- ▶ Ecology: Theories & Application (2001). 4th Edition by Peter Stilling.
- ▶ Ecology by Cain, Bowman & Hacker. 3rd edition. Sinauer associates

**List of Practical**

1. Study of life tables and plotting of survivorship curves of different types from the hypothetical/real data provided
2. Determination of population density in a natural/hypothetical community by quadrat method and calculation of Shannon-Weiner diversity index for the same community
3. Study of an aquatic ecosystem: Phytoplankton and zooplankton, Measurement of area, temperature, turbidity/penetration of light, determination of pH, and Dissolved Oxygen content (Winkler's method), Chemical Oxygen Demand and free CO<sub>2</sub>
4. Report on a visit to National Park/Biodiversity Park/Wild life sanctuary

Note: In field report costal area to be included.

## Generic Elective Syllabus

### GE-1 [Interdisciplinary for other department]

**GE-1 -Animal Cell Biotechnology**

**Credits 06**

#### **GE-1 T1 -Animal Cell Biotechnology**

**Credits 04**

<b>Animal Cell Biotechnology</b>	
	<b>4 Credits</b>
	<b>Class</b>
<b>Unit 1: Introduction</b>	2
Concept and Scope of Biotechnology	
<b>Unit 2: Techniques in Gene manipulation</b>	15
Recombinant DNA technology, Isolation of genes, Concept of restriction and modification:	
Restriction endonucleases, DNA modifying enzymes	
Cloning Vectors: Plasmids, Phage vectors, Cosmids, Phagemids, BAC, YAC, and HAC. Shuttle and	
Expression Vectors.	
Construction of Genomic libraries and cDNA libraries	
Transformation techniques: microbial, plants and animals: Cloning in mammalian cells, Integration	
of DNA into mammalian genome- Electroporation and Calcium Phosphate Precipitation method.	
<b>Unit 3: Animal cell Culture</b>	9

Basic techniques in animal cell culture and organ culture, Primary Culture and Cell lines,

## Culture

media- Natural and Synthetic, Stem cells, Cryopreservation of cultures.

Agarose and Polyacrylamide Gel Electrophoresis, Southern, Northern and Western blotting, DNA

sequencing: Sanger method, Polymerase chain reaction, DNA Fingerprinting and DNA microarrays.

## **Unit 4: Fermentation**

8

Different types of Fermentation: Submerged & Solid state; batch, Fed batch & Continuous; Stirred

tank, Air Lift, Fixed Bed and Fluidized.

Downstream Processing: Filtration, centrifugation, extraction, chromatography, spray drying and

lyophilization.

## **Unit 5: Transgenic Animal Technology**

6

Production of transgenic animals: nuclear transplantation, Retroviral method, DNA microinjection

method, Dolly and Polly.

## **Unit 6: Application in Health**

6

Development of recombinant Vaccines, Hybridoma technology, Gene Therapy. Production of

recombinant Proteins: Insulin and growth hormones.

## **Unit 7: Bio safety Physical and Biological containment**

4

## Reference Books

- ▶ Animal Cells Culture and Media, D.C. Darling and S.J. Morgan, 1994. BIOS Scientific Publishers Limited.
- ▶ Methods in Cell Biology, Volume 57, Jennie P. Mathur and David Barnes, 1998. Animal Cell Culture Methods Academic Press.
- ▶ P.K. Gupta: Biotechnology and Genomics, Rastogi publishers (2003).
- ▶ B.D. Singh: Biotechnology, Kalyani publishers, 1998 (Reprint 2001).
- ▶ T.A. Brown: Gene cloning and DNA analysis: An Introduction, Blackwell Science (2001).
- ▶ Bernard R. Click & Jack J. Pasternak: Molecular Biotechnology, ASM Press, Washington (1998).
- ▶ Methods in Gene Biotechnology, W. Wu, M.J. Welsh, P.B. Kaufman & H.H. Zhang, 1997, CRC Press, New York
- ▶ Griffiths, A.J.F., J.H. Miller, Suzuki, D.T., Lewontin, R.C. and Gelbart, W.M. (2009). An introduction to genetic analysis. IX Edition. Freeman & Co., N.Y., USA

**List of Practical**

1. Packing and sterilization of glass and plastic wares for cell culture.
2. Preparation of culture media.
3. Preparation of genomic DNA from E. coli/animals/ human.
4. Plasmid DNA isolation (p UC 18/19) and DNA quantitation using agarose gel electrophoresis (by using lambda DNA as standard).
5. Restriction digestion of lambda ( $\lambda$ ) DNA using EcoR1 and Hind III.
6. Preparation of competent cells and Transformation of E. coli with plasmid DNA using CaCl<sub>2</sub>, Selection of transformants on X-gal and IPTG (Optional).
7. Techniques: Western Blot, Southern Hybridization, DNA Fingerprinting, PCR, DNA Microarrays

**Vidyasagar University**  
**Curriculum for B.Sc. Honours in Zoology [Choice Based Credit System]**

**Semester-II**

Sl.No.	Name of the Subject	Nature	Code	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
C3	C3T: Non- Chordates-II	Core Course-3		4	0	0	6	75
	C3P: Non- Chordates-II ( Practical)	Core Course-3 [Practical]		0	0	4		
C4	C4T: Cell Biology	Core Course-4		4	0	0	6	75
	C4P: Cell Biology (Practical)	Core Course-4 [Practical]		0	0	4		
GE-2	GE-2	GE					4/5	75
	GE-2	GE					2/1	
AECC -2	Environmental Studies	AECC					4	100
				<b>Total Credits =22</b>				

**L=Lecture, T=Tutorial, P=Practical**

**AECC- Ability Enhancement Compulsory Course: Environmental Studies.**

**Interdisciplinary/Generic Elective (GE) from other Department**

**[Four papers are to be taken and each paper will be of 6 credits]:**

[Papers are to be taken from any of the following discipline  
**Chemistry/Botany/Physiology/Computer Sc./Microbiology/Bio Technology/ Geology  
 /Nutrition /Aquaculture Management.**

## Semester –II

### Core Courses Core-3

**CC-3 :Non-Chordates II**

**Credits 06**

**C3 T - Non-Chordates II**

**Credits 04**

**C3 T - Non-Chordates II**

**4 Credits**

**Class**

**Unit 1: Introduction**

2

Evolution of coelom and metamerism

**Unit 2: Annelida**

10

General characteristics and Classification up to classes

Excretion in Annelida through nephridia.

Metamerism in Annelida.

**Unit 3:Arthropoda**

16

General characteristics and Classification up to classes Vision in Insecta only.

Respiration in Arthropoda (Gills in prawn and trachea in cockroach)

Metamorphosis in Lepidopteran Insects.

Social life in termite

**Unit 4: Onychophora**

2

General characteristics and Evolutionary significance

**Unit 5: Mollusca**

10

General characteristics and Classification up to classes

Nervous system and torsion in Gastropoda

Feeding and respiration in *Pila* sp

**Unit 6: Echinodermata**

8



General characteristics and Classification up to classes  
Water-vascular system in Asteroidea

Larval forms in Echinodermata

Affinities with Chordates

### Unit 7: Hemichordata

2

General characteristics of phylum Hemichordata. Relationship with non-chordates and chordates

#### Reference Books

- ▶ Rupert and Barnes, R.D. (2006). Invertebrate Zoology, VIII Edition. Holt Saunders International Edition
- ▶ The Invertebrates: A New Synthesis, III Edition, Blackwell Science

**Note: Classification to be followed from Rupert and Barnes, 1994, 6<sup>th</sup> Edition.**

## C3 P – Non-Chordates II

**Credits 02**

### List of Practical

1. Study of following specimens:
  - a. Annelids - *Aphrodite*, *Nereis*, *Heteronereis*, *Sabella*, *Serpula*, *Chaetopterus*, *Pheretima*, *Hirudinaria*
  - b. Arthropods - *Limulus*, *Palamnaeus*, *Palaemon*, *Daphnia*, *Balanus*, *Sacculina*, *Cancer*, *Eupagurus*, *Scolopendra*, *Julus*, *Bombyx*, *Periplaneta*, termites and honey bees *Onychophora* - *Peripatus*
  - c. Molluscs - *Chiton*, *Dentalium*, *Pila*, *Doris*, *Helix*, *Unio*, *Ostrea*, *Pinctada*, *Sepia*, *Octopus*, *Nautilus*
  - d. Echinodermates - *Pentaceros/Asterias*, *Ophiura*, *Clypeaster*, *Echinus*, *Cucumaria* and
  - e. *Antedon*
2. Study of digestive system, septal nephridia and pharyngeal nephridia of earthworm
3. T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm
4. Mount of mouth parts and dissection of digestive system and nervous system of *Periplaneta*\*
5. To submit a Project Report on any related topic to larval forms ( crustacean, mollusc and echinoderm)

## Core-4

**CC-4 : Cell Biology**

**Credits 06**

**C4 T: Cell Biology**

**Credits 04**

**C4 T - Cell Biology**

**4 Credits      Class**

**Unit 1: Overview of Cells**

2

Basic structure of Prokaryotic and Eukaryotic cells, Viruses, Viroid, Prion and Mycoplasma

**Unit 2: Plasma Membrane**

6

Ultra structure and composition of Plasma membrane: Fluid mosaic model

Transport across membrane: Active and Passive transport, Facilitated transport

Cell junctions: Tight junctions, Gap junctions, Desmosomes

**Unit 3: Cytoplasmic organelles I**

5

Structure and Functions: Endoplasmic Reticulum, Golgi Apparatus, Lysosomes

Protein sorting and mechanisms of vesicular transport

**Unit 4: Cytoplasmic organelles II**

6

Mitochondria: Structure, Semi-autonomous nature, Endosymbiotic hypothesis

Mitochondrial Respiratory Chain, Chemi-osmotic hypothesis

Peroxisomes: Structure and Functions

Centrosome: Structure and Functions

**Unit 5: Cytoskeleton**

5

Type, structure and functions of cytoskeleton

Accessory proteins of microfilament & microtubule

A brief idea about molecular motors

**Unit 6: Nucleus**

8

Structure of Nucleus: Nuclear envelope, Nuclear pore complex, Nucleolus

Chromatin: Euchromatin and Hetrochromatin and packaging (nucleosome)

**Unit 7: Cell Division**

10

Cell cycle and its regulation, Cancer (Concept of oncogenes and tumor suppressor genes with special reference to p53, Retinoblastoma and Ras and APC. Mitosis and Meiosis: Basic process and their significance

**Unit 8: Cell Signaling**

8

Cell signalling transduction pathways; Types of signaling molecules and receptors  
GPCR and Role of second messenger (cAMP)  
Extracellular matrix-Cell interactions  
Apoptosis and Necrosis

### Reference Books

- ▶ Lewin's Cells – 3rd Edition – Cassimeris/Lingappa/Plopper – Johns & Bartlett Publishers
- ▶ Biology of Cancer by Robert. A. Weinberg. 2nd edition.
- ▶ Cooper, G.M. and Hausman, R.E. (2009). The Cell: A Molecular Approach. V Edition. ASM Press and Sunderland, Washington, D.C.; Sinauer Associates, MA.
- ▶ Bruce Albert, Bray Dennis, Levis Julian, Raff Martin, Roberts Keith and Watson James (2008). Molecular Biology of the Cell, V Edition, Garland publishing Inc., New York and London.

## C4P–Cell Biology (Lab)

**Credits 02**

### Cell Biology

#### List of Practical

1. Preparation of temporary stained squash of onion root tip to study various stages of mitosis
2. Study of various stages of meiosis.
3. Preparation of permanent slide to show the presence of Barr body in human female blood cells/cheek cells.
4. Preparation of permanent slide to demonstrate:
  - a. DNA by Feulgen reaction
  - b. Cell viability study by Trypan Blue staining
  - c. Mitochondria identification through vital staining

**Generic Elective Syllabus**  
**GE-2 [Interdisciplinary for other department]**

**GE-2 :Animal Diversity** **Credits 06**

**GE2 T:Animal Diversity** **Credits 04**

**GE2 T-Animal Diversity**

	4 Credits	Class
<b>Unit 1: Protista</b>		<b>3</b>
Protozoa : General characters of Protozoa; Life cycle of <i>Plasmodium</i>		
<b>Unit 2: Porifera</b>		<b>3</b>
General characters and canal system in Porifera		
<b>Unit 3: Radiata</b>		<b>3</b>
General characters of Cnidarians and polymorphism		
<b>Unit 4: Aceolomates</b>		<b>2</b>
General characters of Helminthes		
<b>Unit 5: Pseudocoelomates</b>		<b>3</b>
General characters of Nematoda		
Parasitic adaptations		
<b>Unit 6: Annelida</b>		<b>3</b>
General characters of Annelida		
Metamerism		
<b>Unit 7: Arthropoda</b>		<b>4</b>
General characters.		
Social life in insects.		
<b>Unit 8: Mollusca</b>		<b>4</b>
General characters of mollusk.		
Pearl Formation		
<b>Unit 9: Echinodermata</b>		<b>4</b>
General characters of Echinodermata.		
Water Vascular system in Starfish.		

<b>Unit 10: Protochordata</b>	<b>2</b>
Salient features	
<b>Unit 11: Pisces</b>	<b>3</b>
General Characters.	
Osmoregulation, Migration of Fish	
<b>Unit 12: Amphibia</b>	<b>4</b>
General characters, Adaptations for terrestrial life, Parental care	
<b>Unit 13: Reptilia</b>	<b>4</b>
General Characters.	
Amniotes; Origin of reptiles. Terrestrial adaptations in reptiles.	
<b>Unit 14: Aves</b>	<b>4</b>
General Characters.	
The origin of birds; Flight adaptations	
<b>Unit 15: Mammalia</b>	<b>4</b>
General Characters.	
Early evolution of mammals; Primates; Dentition in mammals.	

### Reference Books

- ▶ Barnes, R.D. (1992). Invertebrate Zoology. Saunders College Pub. USA.
- ▶ Ruppert, Fox and Barnes (2006) Invertebrate Zoology. A functional Evolutionary Approach  
7th Edition, Thomson Books/Cole
- ▶ Campbell & Reece (2005). Biology, Pearson Education, (Singapore) Pvt. Ltd.

Kardong, K. V. (2002). Vertebrates Comparative Anatomy. Function and Evolution. Tata McGraw Hill Publishing Company. New Delhi.

Raven, P. H. and Johnson, G. B. (2004). Biology, 6th edition, Tata McGraw Hill Publications. New Delhi.

**List of Practical**

1. Study of following specimens:
  - a. Non Chordates: *Euglena*, *Noctiluca*, *Paramecium*, *Sycon*, , *Physalia*, *Tubipora*, *Metridium*, *Taenia*, *Ascaris*, *Nereis*, *Aphrodite*, Leech, *Peripatus*, *Limulus*, Hermitcrab, *Daphnia*, Millipede, Centipede, Beetle, *Chiton*, *Dentalium*, *Octopus*, *Asterias*, and *Antedon*.
  - b. Chordates: *Balanoglossus*, *Amphioxus*, *Petromyzon*, *Pristis*, *Hippocampus*, *Labeo*, *Ichthyophis/Uraeotyphlus*, Salamander, *Rhacophorus*, *Draco*, *Uromastix*, *Naja*, *Viper*, model of Archaeopteryx, any three common birds-(Crow, duck, Owl), Squirrel and Bat.
2. Study of following Permanent Slides:

Cross section of *Sycon*, Sea anemone and *Ascaris* (male and female). T. S. of Earthworm passing through pharynx, gizzard, and typhlosolar intestine. Bipinnaria and Pluteus larva.
3. Temporary mounts of:
  - a. Septal & pharyngeal nephridia of earthworm.
  - b. Unstained mounts of Placoid, cycloid and ctenoid scales.
4. Dissections of:
  - a. Digestive and nervous system of Cockroach
  - b. Urinogenital system of Rat

# Vidyasagar University

## Curriculum for B.Sc (Honours) in Zoology [Choice Based Credit System]

### Semester-III

Course	Course Code	Name of the Subjects	Course Type/ Nature	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
CC-5		C5T:Chordates	Core Course - 5	4	0	0	6	75
		C5P:Chordates Lab		0	0	4		
CC-6		C6T:Animal Physiology: Controlling & Coordinating Systems	Core Course - 6	4	0	0	6	75
		C6P:Animal Physiology: Controlling & Coordinating Systems Lab		0	0	4		
CC-7		C7T:Fundamentals of Biochemistry	Core Course - 7	4	0	0	6	75
		C7P:Fundamentals of Biochemistry Lab		0	0	4		
GE-3	TBD		Generic Elective -3				4/5	75
							2/1	
SEC-1		SEC-1:Apiculture Or SEC-1:Aquarium Fish Keeping	Skill Enhancement Course-1	1	1	0	2	50
<b>Semester Total</b>							<b>26</b>	<b>350</b>

L=Lecture, T= Tutorial, P=Practical, CC = Core Course, GE= Generic Elective, SEC = Skill Enhancement Course, TBD = to be decided

**Generic Elective (GE) (Interdisciplinary) from other Department [Four papers are to be taken and each paper will be of 6 credits]:**

Papers are to be taken from any of the following discipline:

**Chemistry /Botany/Physiology/Computer Sc./Microbiology /Bio Technology/ Geology /Nutrition /Aquaculture Management.**

**Modalities of selection of Generic Electives (GE):** A student shall have to choose **04** Generic Elective (GE1 to GE4) strictly from **02** subjects / disciplines of choice taking exactly **02** courses from each subjects of disciplines. Such a student shall have to study the curriculum of Generic Elective (GE) of a subject or discipline specified for the relevant semester.

**Semester- III**  
**Core Course (CC)**

**CC-5: Chordates**

**Credits 06**

**C5T: Chordates**

**Credits 04**

**Unit 1: Introduction to Chordates**

General characteristics and outline classification of Phylum Chordata

**Unit 2: Protochordata**

General characteristics and classification of sub-phylum Urochordata and Cephalochordata up to Classes. Retrogressive metamorphosis in *Ascidia*. Chordate Features and Feeding in *Branchiostoma*

**Unit 3: Origin of Chordata**

Dipleurula concept and the Echinoderm theory of origin of chordates  
Advanced features of vertebrates over Protochordata

**Unit 4: Agnatha**

General characteristics and classification of cyclostomes up to order

**Unit 5: Pisces**

General characteristics and classification of Chondrichthyes and Osteichthyes up to Subclasses

Accessory respiratory organ, migration and parental care in fishes

Swim bladder in fishes. Classification up to Sub-Classes

**Unit 6: Amphibia**

General characteristics and classification up to living Orders.

Metamorphosis and parental care in Amphibia

**Unit 7: Reptilia**

General characteristics and classification up to living Orders.

Poison apparatus and Biting mechanism in Snake

**Unit 8: Aves**

General characteristics and classification up to Sub-Classes

Exoskeleton and migration in Birds

Principles and aerodynamics of flight

**Unit 9: Mammals**

General characters and classification up to living orders

Affinities of Prototheria

Exoskeleton derivatives of mammals

Adaptive radiation in mammals with reference to locomotory appendages

Echolocation in Micro chiropterans and Cetaceans

**Unit 10: Zoogeography**



Zoogeographical realms, Plate tectonic and Continental drift theory, distribution of birds and mammals in different realms

### **Suggested Readings :**

1. Young, J. Z. (2004). The Life of Vertebrates. III Edition. Oxford university press.
2. Pough H. Vertebrate life, VIII Edition, Pearson International.
3. Darlington P.J. The Geographical Distribution of Animals, R.E. Krieger Pub Co.
4. Hall B.K. and Hallgrimsson B. (2008). Strickberger's Evolution. IV Edition. Jones and Bartlett Publishers Inc.
5. Parker, T. J. & Haswell, W. (1972). Text Book of Zoology, Volume II: Marshall and Willam (Eds.) 7th Ed. Macmillan Press, London.
6. Kardong, K. V. (2002). Vertebrates: Comparative anatomy, function evolution. Tata McGraw Hill.
7. Kent, G. C. & Carr, R. K. (2001). Comparative anatomy of the Vertebrates. 9th Ed. McGraw Hill.
8. Nelson, J.S., (2006) : Fishes of the World, 4th Edn., Wiley.
9. Romer, A. S. & Parsons, T. S. (1986). The vertebrate body. 6th Ed. Saunders College Publishing.
10. Jordan, E.L. & Verma, P.S. (2003). Chordate Zoology. S. Chand & Company Ltd. New Delhi.
11. Sinha, K. S., Adhikari, S., Ganguly, B. B. & Bharati Goswami, B. D. (2001). Biology of Animals. Vol. II. New Central Book Agency (p) Ltd.
12. Futuyama, D. (1997). Evolutionary Biology. 3rd Ed. Sinauer Associates, INC.

**Note: Classifications for Protochordata, Agnatha, Reptilia, Aves and Mammalia to be followed from Young (1981), for Pisces to be followed from Romer (1959), for Amphibia to be followed from Duellman and Trueb (1986).**

### **CP5: Chordates Lab**

**Credits 02**

#### **List of Practical**

1. Protochordata  
*Balanoglossus, Herdmania, Branchiostoma*
2. Agnatha  
*Petromyzon, Myxine*
3. Fishes  
*Scoliodon, Sphyrna, Pristis, Torpedo, Chimaera, Mystus, Heteropneustes, Labeo, Exocoetus, Echeineis, Anguilla, Hippocampus, Tetradon/ Diodon, Anabas, Flat fish*
4. Amphibia  
*Necturus, Bufo, Hyla, Alytes, Axolotl, Tylototriton*
5. Reptilia  
*Chelone, Trionyx, Hemidactylus, Varanus, Uromastix, Chamaeleon, Ophiosaurus, Draco, Bungarus, Vipera, Naja, Hydrophis, Zamenis, Crocodylus. Key for Identification of poisonous and non-poisonous snakes*
6. Mammalia: Bat (Insectivorous and Frugivorous), *Funambulus*
7. Pecten from Fowl head
8. Dissection of brain and pituitary of Tilapia

9. Power point presentation on study of any two animals from two different classes by students (may be included if dissections not given permission)

**CC-6: Animal Physiology: Controlling & Coordinating Systems** Credits 06

**C6T: Animal Physiology: Controlling & Coordinating Systems** Credits 04

**Unit 1: Tissues**

Structure, location, classification and functions of epithelial tissue, connective tissue, muscular tissue and nervous tissue and, fixation and staining of tissues.

**Unit 2: Bone and Cartilage**

Structure and types of bones and cartilages, Ossification

**Unit 3: Nervous System**

Structure of neuron, resting membrane potential, Origin of action potential and its propagation across the myelinated and unmyelinated nerve fibers; Types of synapse, Synaptic transmission and Neuromuscular junction; Reflex action and its types

**Unit 4: Muscular system**

Histology of different types of muscle; Ultra structure of skeletal muscle; Molecular and chemical basis of muscle contraction; Characteristics of muscle fibre

**Unit 5: Reproductive System**

Histology of testis and ovary

Physiology of Reproduction

**Unit 6: Endocrine System**

Histology and function of pituitary, thyroid, pancreas and adrenal

Classification of hormones; Mechanism of Hormone action

Signal transduction pathways for Steroidal and Non steroidal hormones

Hypothalamus (neuroendocrine gland) - principal nuclei involved in neuroendocrine control of anterior pituitary and endocrine system

Placental hormones

**Suggested Readings :**

1. Histology: A Text and Atlas. Sixth Edition. Ross & Pawlina. Lippincott Williams & Wilkins.
2. Eckert Animal Physiology by David Randall and Warren Burggren. 4th edition. W. H. Freeman.

**C6P: Animal Physiology: Controlling & Coordinating Systems Lab** Credits 02

**List of Practical**

1. Recording of simple muscle twitch with electrical stimulation (or Virtual)

2. Demonstration of the unconditioned reflex action (Deep tendon reflex such as knee jerk reflex)
3. Preparation of temporary mounts: Squamous epithelium, Striated muscle fibres and nerve cells
4. Study of permanent slides of Mammalian skin, Cartilage, Bone, Spinal cord, Nerve cell, Pituitary, Pancreas, Testis, Ovary, Adrenal, Thyroid and Parathyroid
5. Microtomy: Preparation of permanent slide of any five mammalian (Goat/white rat) tissues

**CC-7: Fundamentals of Biochemistry**

**Credits 06**

**C7T: Fundamentals of Biochemistry**

**Credits 04**

### **Unit 1: Carbohydrates**

Structure and Biological importance: Monosaccharides, Disaccharides, Polysaccharides; Derivatives of Monosachharides

Carbohydrate metabolism: Glycolysis, Citric acid cycle, Pentose phosphate pathway, Gluconeogenesis

### **Unit 2: Lipids**

Structure and Significance: Physiologically important saturated and unsaturated fatty acids, Tri-acylglycerols, Phospholipids, Sphingolipid, Glycolipids, Steroids, Eicosanoids and terpinoids.

Lipid metabolism:  $\beta$ -oxidation of fatty acids; Fatty acid biosynthesis

### **Unit 3: Proteins**

Amino acids

Structure, Classification, General and Electro chemical properties of  $\alpha$ -amino acids; Physiological importance of essential and non-essential amino acids

Proteins

Bonds stabilizing protein structure; Levels of organization

Protein metabolism: Transamination, Deamination, Urea cycle, Fate of C-skeleton of Glucogenic and Ketogenic amino acids

### **Unit 4: Nucleic Acids**

Structure: Purines and pyrimidines, Nucleosides, Nucleotides, Nucleic acids

Types of DNA and RNA, Complementarity of DNA, Hpyo- Hyperchromaticity of DNA

Basic concept of nucleotide metabolism

### **Unit 5: Enzymes**

Nomenclature and classification; Cofactors; Specificity of enzyme action; Isozymes; Mechanism of enzyme action; Enzyme kinetics; Derivation of Michaelis-Menten equation, Lineweaver-Burk plot;

Factors affecting rate of enzyme-catalyzed reactions; Enzyme inhibition; Allosteric enzymes and their kinetics; Strategy of enzyme action- Catalytic and Regulatory (Basic concept with one example each)

### **Unit 5: Oxidative Phosphorylation**

Redox systems; Review of mitochondrial respiratory chain, Inhibitors and un-couplers of Electron Transport System

## **C7P: Fundamentals of Biochemistry Lab**

**Credits 02**

### **List of Practical**

1. Qualitative tests of functional groups in carbohydrates, proteins and lipids.
2. Paper chromatography of amino acids.
3. Quantitative estimation of Lowry Methods.
4. Demonstration of proteins separation by SDS-PAGE.
5. To study the enzymatic activity of Trypsin and Lipase.
6. To perform the Acid and Alkaline phosphatase assay from serum/ tissue.

### **Suggested Readings:**

1. Cox, M.M and Nelson, D.L. (2008). Lehninger's Principles of Biochemistry, V Edition, W.H. Freeman and Co., New York.
2. Berg, J.M., Tymoczko, J.L. and Stryer, L. (2007). Biochemistry, VI Edition, W.H. Freeman and Co., New York.
3. Murray, R.K., Bender, D.A., Botham, K.M., Kennelly, P.J., Rodwell, V.W. and Well, P.A.(2009). Harper's Illustrated Biochemistry, XXVIII Edition, International Edition, The McGraw- Hill Companies Inc.
4. Hames, B.D. and Hooper, N.M. (2000). Instant Notes in Biochemistry, II Edition, BIOS Scientific Publishers Ltd., U.K.
5. Watson, J.D., Baker, T.A., Bell, S.P., Gann, A., Levine, M. and Losick, R. (2008). Molecular Biology of the Gene, VI Edition, Cold Spring Harbor Lab. Press, Pearson Pub.

## **Skill Enhancement Course (SEC)**

### **SEC1: Apiculture**

**Credits 02**

### **SEC1T: Apiculture**

#### **Unit 1: Biology of Bees**

History, Classification and Biology of Honey Bees

Social Organization of Bee Colony

**Unit 2: Rearing of Bees**

Artificial Bee rearing (Apiary), Beehives – Newton and Langstroth  
Bee Pasturage  
Selection of Bee Species for Apiculture  
Bee Keeping Equipment  
Methods of Extraction of Honey (Indigenous and Modern)

**Unit 3: Diseases and Enemies**

Bee Diseases and Enemies  
Control and Preventive measures

**Unit 4: Bee Economy**

Products of Apiculture Industry and its Uses (Honey, Bees Wax, Propolis), Pollen etc

**Unit 5: Entrepreneurship in Apiculture**

Bee Keeping Industry – Recent Efforts, Modern Methods in employing artificial Beehives for cross pollination in horticultural gardens

**Suggested Readings :**

1. Prost, P. J. (1962). Apiculture. Oxford and IBH, New Delhi.
2. Bisht D.S., Apiculture, ICAR Publication.
3. Singh S., Beekeeping in India, Indian council of Agricultural Research, New Delhi.

Or

**SEC1: Aquarium Fish Keeping****Credits 02****SEC1T: Aquarium Fish Keeping****Aquarium Fish Keeping****Unit 1: Introduction to Aquarium Fish Keeping**

The potential scope of Aquarium Fish Industry as a Cottage Industry, Exotic and Endemic species of Aquarium Fishes

**Unit 2: Biology of Aquarium Fishes**

Common characters and sexual dimorphism of Fresh water and Marine Aquarium fishes such as Guppy, Molly, Sword tail, Gold fish, Angel fish, Blue morph, Anemone fish and Butterfly fish

**Unit 3: Food and feeding of Aquarium fishes**

Use of live fish feed organisms. Preparation and composition of formulated fish feeds, Aquarium fish as larval predator

**Unit 4: Fish Transportation**

Live fish transport - Fish handling, packing and forwarding techniques.

### **Unit 5: Maintenance of Aquarium**

General Aquarium maintenance – budget for setting up an Aquarium Fish Farm as a Cottage Industry

### **Generic Elective**

#### **GE-3 [Interdisciplinary for other department]**

**GE-3: Aquatic Biology**

**Credits 06**

**GE3T: Aquatic Biology**

**Credits 04**

#### **Unit 1: Aquatic Biomes**

Brief introduction to the aquatic biomes: Freshwater ecosystem (lakes, wetlands, streams and rivers), estuaries, intertidal zones, oceanic pelagic zone, marine benthic zone and coral reefs.

#### **Unit 2: Freshwater Biology**

Lakes: Origin and classification, Lake as an Ecosystem, Lake morphometry, Physico-chemical Characteristics: Light, Temperature, Thermal stratification, Dissolved Solids, Carbonate, Bicarbonates, Phosphates and Nitrates, Turbidity, dissolved gases (Oxygen, Carbon dioxide). Nutrient Cycles in Lakes (Nitrogen, Sulphur and Phosphorous).

Streams: Different stages of stream development, Physico-chemical environment, Adaptation of hill- stream fishes.

#### **Unit 3: Marine Biology**

Salinity and density of Sea water, Continental shelf, Adaptations of deep sea organisms, Coral reefs, Sea weeds.

#### **Unit 4: Management of Aquatic Resources**

Causes of pollution: Agricultural, Industrial, Sewage, Thermal and Oil spills, Eutrophication, Management and conservation (legislations), Sewage treatment Water quality assessment- BOD and COD

**GE3 P: Aquatic Biology Lab**

**Credits 02**

#### **List of Practical**

1. Determine the area of a lake using graphimetric and gravimetric method.
2. Identify the important macrophytes, phytoplanktons and zooplanktons present in a lake ecosystem.
3. Determine the amount of Turbidity/transparency, Dissolved Oxygen, and Free Carbon dioxide, Alkalinity (carbonates & bicarbonates) in water collected from a nearby lake / water body.
4. Instruments used in limnology (Secchi disc, Van Dorn Bottle, Conductivity meter, Turbidity meter, PONAR grab sampler) and their significance.

5. A Project Report on a visit to a Sewage treatment plant/Marine bio- reserve/Fisheries Institute.

**Suggested Readings :**

1. Anathakrishnan : Bioresources Ecology 3rd Edition
2. Goldman : Limnology, 2nd Edition
3. Odum and Barrett : Fundamentals of Ecology, 5th Edition
4. Pawlowski: Physicochemical Methods for Water and Wastewater Treatment, 1st Edition
5. Wetzel : Limnology, 3rd edition
6. Trivedi and Goyal : Chemical and biological methods for water pollution studies
7. Welch : Limnology Vols. I-II

# Vidyasagar University

## Curriculum for B.Sc (Honours) in Zoology [Choice Based Credit System]

### Semester-IV

Course	Course Code	Name of the Subjects	Course Type/ Nature	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
CC-8		C8T: Comparative Anatomy of Vertebrates	Core Course - 8	4	0	0	6	75
		C8P: Practical		0	0	4		
CC-9		C9T: Animal Physiology: Life Sustaining Systems	Core Course - 9	4	0	0	6	75
		C9P: Practical		0	0	4		
CC-10		C10T: Immunology	Core Course - 10	4	0	0	6	75
		C10P: Practical		0	0	4		
GE-4	TBD		Generic Elective -4				4/5	75
							2/1	
SEC-2		SEC2: Medical Diagnostic Techniques Or Sericulture	Skill Enhancement Course-2	1	1	0	2	50
<b>Semester Total</b>							<b>26</b>	<b>350</b>

L=Lecture, T= Tutorial, P=Practical, CC = Core Course, GE= Generic Elective, SEC = Skill Enhancement Course, TBD = to be decided

**Generic Elective (GE) (Interdisciplinary)** from other Department [Four papers are to be taken and each paper will be of 6 credits]: Chemistry/Botany/Physiology/Computer Sc./Microbiology/Bio Technology/ Geology /Nutrition /Aquaculture Management.

**Modalities of selection of Generic Electives (GE):** A student shall have to choose 04 Generic Elective (GE1 to GE4) strictly from 02 subjects / disciplines of choice taking exactly 02 courses from each subjects of disciplines. Such a student shall have to study the curriculum of Generic Elective (GE) of a subject or discipline specified for the relevant semester.



**Semester-IV**  
**Core Course (CC)**

**CC-8: Comparative Anatomy of Vertebrates** **Credits 06**

**C8T: Comparative Anatomy of Vertebrates** **Credits 04**

**Course Contents:**

**Unit 1: Integumentary System**

Structure, function and derivatives of integument in amphibian, birds and mammals

**Unit 2: Skeletal System**

Overview of axial and appendicular skeleton; Jaw suspension; Visceral arches.

**Unit 3: Digestive System**

Comparative anatomy of stomach; dentition in mammals

**Unit 4: Respiratory System**

Respiratory organs in fish, amphibian, birds and mammals

**Unit 5: Circulatory System**

General plan of circulation, Comparative account of heart and aortic arches

**Unit 6: Urinogenital System**

Succession of kidney, Evolution of urinogenital ducts, Types of mammalian uteri

**Unit 7: Nervous System**

Comparative account of brain, Cranial nerves in mammals

**Unit 8: Sense Organs**

Classification of receptors, Brief account of olfactory and auditory receptors in vertebrate

**Suggested Readings:**

- Kardong, K.V. (2005) Vertebrates' Comparative Anatomy, Function and Evolution. IV Edition. McGraw-Hill Higher Education
- Kent, G.C. and Carr R.K. (2000). Comparative Anatomy of the Vertebrates. IX Edition. The McGraw-Hill Companies
- Hilderbrand, M and Gaslow G.E. Analysis of Vertebrate Structure, John Wiley and Sons  
Saxena, R.K. & Saxena, S.C. (2008) : Comparative Anatomy of Vertebrates, Viva Books Pvt. Ltd.

**List of Practical**

1. Study of placoid, cycloid and ctenoid scales through permanent slides/photographs.
2. Study of disarticulated skeleton of Toad, Pigeon and Guinea pig.
3. Demonstration of Carapace and plastron of turtle.
4. Identification of mammalian skulls: One herbivorous (Guinea pig) and one carnivorous (Dog) animal.
5. Dissection of Tilapia: Circulatory system, Brain, pituitary, urinogenital system.

**CC-9: Animal Physiology: Life Sustaining Systems****Credits 06****C9T: Animal Physiology: Life Sustaining Systems****Credits 04****Course Contents:****Unit 1: Physiology of Digestion**

Structural organisation and functions of Gastrointestinal tract and Associated glands; Mechanical and chemical digestion of food, absorption of Carbohydrates, Lipids, Proteins and Nucleic Acids; Digestive enzymes

**Unit 2: Physiology of Respiration**

Mechanism of Respiration, Respiratory volumes and capacities, transport of Oxygen and Carbon dioxide in blood, Dissociation curves and the factors influencing it, respiratory pigments; Carbon monoxide poisoning

**Unit 3: Physiology of Circulation**

Components of Blood and their functions; Structure and functions of haemoglobin Haemostasis; Blood clotting system, Fibrinolytic system Haemopoiesis; Basic steps and its regulation Blood groups; ABO and Rh factor

**Unit 4: Physiology of Heart**

Structure of mammalian heart, Coronary Circulation, Structure and working of conducting myocardial fibres, Origin and conduction of cardiac impulses Cardiac Cycle and cardiac output Blood pressure and its regulation

**Unit 5: Thermoregulation & Osmoregulation**

Physiological classification based on thermal biology.

Thermal biology of endotherms

Osmoregulation in aquatic vertebrates

Extrarenal osmoregulatory organs in vertebrates

## **Unit 6: Renal Physiology**

Structure of Kidney and its functional unit, Mechanism of urine formation, Regulation of acid-base balance

### **Suggested Readings:**

- Guyton, A.C. & Hall, J.E. (2006). Textbook of Medical Physiology. XI Edition. Hercourt
- Asia PTE Ltd. W.B. Saunders Company.
- Tortora, G.J. & Grabowski, S. (2006). Principles of Anatomy & Physiology. XI Edition John Wiley & sons,
- Eckert Animal Physiology: Mechanisms and adaptations Randall, Burggren and French Vander A, Sherman J. and Luciano D. (2014). Vander's Human Physiology: The Mechanism of Body Function. XIII Edition, McGraw Hills
- Victor P. Eroschenko. (2008). diFiore's Atlas of Histology with Functional correlations. XII Edition. Lippincott W. & Wilkins.
- Vander A, Sherman J. and Luciano D. (2014). Vander's Human Physiology: The Mechanism of Body Function. XIII Edition, McGraw Hills

## **C9P: Animal Physiology: Life Sustaining Systems Lab**

**Credits 02**

### **List of Practical**

1. Determination of ABO Blood group
2. Enumeration of red blood cells and white blood cells using haemocytometer
3. Estimation of haemoglobin using Sahli's haemoglobinometer
4. Preparation of haemin and haemochromogen crystals
5. Recording of blood pressure using a sphygmomanometer

## **CC-10: Immunology**

**Credits 06**

## **C10T: Immunology**

**Credits 04**

### **Course Contents:**

#### **Unit 1: Overview of Immune System**

Basic concepts of health and diseases, Historical perspective of Immunology, Cells and organs of the Immune system

#### **Unit 2: Innate and Adaptive Immunity**

Anatomical barriers, Inflammation, Cell and molecules involved in innate immunity, Adaptive immunity (Cell mediated and humoral).

#### **Unit 3: Antigens**

Antigenicity and immunogenicity, Immunogens, Adjuvants and haptens, Factors influencing immunogenicity, B and T-Cell epitopes

#### **Unit 4: Immunoglobulins**

Structure and functions of different classes of immunoglobulins, Antigen- antibody interactions, Immunoassays (ELISA and RIA), Hybridoma technology, Monoclonal antibody production

#### **Unit 5: Major Histocompatibility Complex**

Structure and functions of MHC molecules.

Structure of T cell Receptor and its signalling, T cell development & selection

#### **Unit 6: Cytokines**

Types, properties and functions of cytokines.

#### **Unit 7: Complement System**

Components and pathways of complement activation.

#### **Unit 8: Hypersensitivity**

Gell and Coombs' classification and brief description of various types of hypersensitivities.

#### **Unit 9: Immunology of diseases**

Malaria, Filariasis, Dengue and Tuberculosis

#### **Unit 10: Vaccines**

Various types of vaccines. Active & passive immunization (Artificial and natural).

#### **Suggested Readings:**

- Kindt, T. J., Goldsby, R.A., Osborne, B. A. and Kuby, J (2006). Immunology, VI Edition. W.H. Freeman and Company.
- Abbas, K. Abul and Lechtman H. Andrew (2003.) Cellular and Molecular Immunology. V Edition. Saunders Publication.

#### **C10P: Immunology Lab**

**Credits 02**

#### **List of Practical**

1. Demonstration of lymphoid organs.
2. Histological study of spleen, thymus and lymph nodes through slides/ photographs
3. Preparation of stained blood film to study various types of blood cells.
4. ABO blood group determination.
5. Demonstration of ELISA

## **Skill Enhancement Courses (SEC)**

### **SEC-2: Medical Diagnostic Techniques**

**Credits 02**

### **SEC2T: Medical Diagnostic Techniques**

#### **Course Contents:**

#### **Unit 1: Introduction to Medical Diagnostics and its Importance**

#### **Unit 2: Diagnostics Methods Used for Analysis of Blood**

Blood composition, Preparation of blood smear and Differential Leucocyte Count (D.L.C) using Leishman's stain, Platelet count using haemocytometer, Erythrocyte Sedimentary Rate (E.S.R), Packed Cell Volume (P.C.V.)

#### **Unit 3: Diagnostic Methods Used for Urine Analysis**

Urine Analysis: Physical characteristics; Abnormal constituents

#### **Unit 4: Non-infectious Diseases**

Causes, types, symptoms, complications, diagnosis and prevention of Diabetes (Type I and Type II), Hypertension (Primary and secondary), Testing of blood glucose using Glucometer/Kit

#### **Unit 5: Infectious Diseases**

Causes, types, symptoms, diagnosis and prevention of Tuberculosis and Hepatitis, Malarial parasite (Microscope based and ELISA based)

#### **Unit 6: Clinical Biochemistry**

LFT, Lipid profiling

#### **Unit 7: Clinical Microbiology**

Antibiotic Sensitivity Test

#### **Unit 8: Tumours**

Types (Benign/Malignant), Detection and metastasis; Medical imaging: X-Ray of Bone fracture, PET, MRI and CT Scan (using photographs).

#### **Unit 9: Visit to Pathological Laboratory and Submission of Project**

#### **Suggested Readings:**

- Park, K. (2007), *Preventive and Social Medicine*, B.B. Publishers
- Godkar P.B. and Godkar D.P. *Textbook of Medical Laboratory Technology*, II Edition, Bhalani Publishing House
- Cheesbrough M., *A Laboratory Manual for Rural Tropical Hospitals, A Basis for Training Courses*
- Guyton A.C. and Hall J.E. *Textbook of Medical Physiology*, Saunders Robbins and Cortan, *Pathologic Basis of Disease*, VIII Edition, Saunders
- Prakash, G. (2012), *Lab Manual on Blood Analysis and Medical Diagnostics*, S. Chand and Co. Ltd.

Or

**SEC-2: Sericulture**

**Credits 02**

**SEC2T: Sericulture**

**Course Contents:**

**Unit 1: Introduction**

Sericulture: Definition, history and present status; Silk route

Types of silkworms, Distribution and Races

Exotic and indigenous races

Mulberry and non-mulberry Sericulture

**Unit 2: Biology of Silkworm**

Life cycle of *Bombyx mori*

Structure of silk gland and secretion of silk

**Unit 3: Rearing of Silkworms**

Selection of mulberry variety and establishment of mulberry garden

Rearing house and rearing appliances.

Disinfectants: Formalin, bleaching powder, RKO

Silkworm rearing technology: Early age and Late age rearing

Types of mountages

Spinning, harvesting and storage of cocoons

**Unit 4: Pests and Diseases**

Pests of silkworm: Uzi fly, dermestid beetles and vertebrates

Pathogenesis of silkworm diseases: Protozoan, viral, fungal and bacterial

Control and prevention of pests and diseases

**Unit 5: Entrepreneurship in Sericulture**

Prospectus of Sericulture in India: Sericulture industry in different states, employment, potential in mulberry and non-mulberry sericulture Visit to various sericulture centres.

**Suggested Readings:**

- Non-conventional energy sources - G.D Rai - Khanna Publishers, New Delhi
- Solar energy - M P Agarwal - S Chand and Co. Ltd.

- Solar energy - Suhas P Sukhative Tata McGraw - Hill Publishing Company Ltd Godfrey Boyle, “Renewable Energy, Power for a sustainable future”, 2004,
- Oxford University Press, in association with The Open University.
- Dr. P Jayakumar, Solar Energy: Resource Assesment Handbook, 2009
- J. Balfour, M. Shaw and S. Jarosek, Photovoltaics, Lawrence J Goodrich (USA).  
[http://en.wikipedia.org/wiki/Renewable\\_energy](http://en.wikipedia.org/wiki/Renewable_energy)

**Generic Elective Syllabus**  
**GE-4 [Interdisciplinary for other department]**

**GE-4: Insect Vectors and Diseases**

**Credits 06**

**GE4T: Insect Vectors and Diseases**

**Credits 04**

**Course Contents:**

**Unit 1: Introduction to Insects**

General Features of Insects, Morphological features, Head – Eyes, Types of antennae, Mouth Parts

**Unit 2: Concept of Vectors**

Brief introduction to Vectors (mechanical and biological vectors),Reservoirs, Host-vector relationship, Adaptations as vectors, Host specificity

**Unit 3: Insects as Vectors**

Detailed features of orders with insects as vectors – Diptera, Siphonaptera, Siphunculata, Hemiptera

**Unit 4: Dipteran as Disease Vectors**

Dipterans as important insect vectors – Mosquitoes, Sand fly, Houseflies

Study of mosquito-borne diseases – Malaria, Dengue, Chikungunya, Viral encephalitis, Filariasis Control of mosquitoes

Study of sand fly-borne diseases –Leishmaniasis,; Control of Sand fly

Study of house fly as important mechanical vector, Myiasis, Control of house fly

**Unit 5: Siphonaptera as Disease Vectors**

Fleas as important insect vectors; Host-specificity, Study of Flea-borne diseases – Plague, Typhus fever; Control of fleas

**Unit 6: Siphunculata as Disease Vectors**

Human louse (Head, Body and Pubic louse) as important insect vectors; Control of human louse

### **Unit 7: Hemiptera as Disease Vectors**

Bugs as insect vectors; Blood-sucking bugs; Chagas disease, Bed bugs as mechanical vectors, Control and prevention measures

#### **Suggested Readings:**

- Imms, A.D. (1977). A General Text Book of Entomology. Chapman & Hall, UK
- Chapman, R.F. (1998). The Insects: Structure and Function. IV Edition, Cambridge University Press, UK
- Pedigo L.P. (2002). Entomology and Pest Management. Prentice Hall Publication
- Mathews, G. (2011). Integrated Vector Management: Controlling Vectors of Malaria and Other Insect Vector Borne Diseases. Wiley-Blackwell
- Mosquito (2000) Chandra G, Sribhumi Publication Co. Kolkata
- Medical Entomology, Hati A. K Allied Book Agency, Kolkata

### **GE4P: Insect Vectors and Diseases Lab**

**Credits 02**

#### **List of Practical**

1. Study of different kinds of mouth parts of insects
2. Study of following insect vectors through permanent slides/ photographs: *Aedes*, *Culex*, *Anopheles*, *Pediculus humanus capitis*, *Pediculus humanus corporis*, *Phthirus pubis*, *Xenopsylla cheopis*, *Cimex lectularius*, *Phlebotomus argentipes*, *Musca domestica* through permanent slides/ photographs
3. Study of different diseases transmitted by above insect vectors

**Submission of a project report on any one of the insect vectors and disease transmitted**

**Or**

**GE-4: Environment and Public Health**

**Credits 06**

**GE4T: Environment and Public Health**

**Credits 04**

#### **Course Contents:**

##### **Unit 1: Introduction**

Sources of Environmental hazards, Hazard identification and accounting, Fate of toxic and persistent substances in the environment, Dose response evaluation, Exposure assessment.

##### **Unit 2: Climate Change**

Greenhouse gases and global warming, Acid rain, Ozone layer destruction, Effect of climate change on public health

##### **Unit 3: Pollution**

Air, water, noise pollution sources and effects, Pollution control.



#### **Unit 4: Waste Management Technologies**

Sources of waste, types and characteristics, Sewage disposal and its management, Solid waste disposal, Biomedical waste handling and disposal, Nuclear waste handling and disposal, Waste from thermal power plants.

#### **Unit 5: Diseases**

Causes, symptoms and control of tuberculosis, Asthma, Cholera, Minamata disease, typhoid, filariasis

#### **Suggested Readings:**

- Cutter, S.L., Environmental Risk and Hazards, Prentice-Hall of India Pvt. Ltd., New Delhi, 1999.
- Kolluru Rao, Bartell Steven, Pitblado R and Stricoff “Risk Assessment and Management Handbook”, McGraw Hill Inc., New York, 1996.
- Kofi Asante Duah “Risk Assessment in Environmental management”, John Wiley and sons, Singapore, 1998.
- Kasperson, J.X. and Kasperson, R.E. and Kasperson, R.E., Global Environmental Risks, V. N. University Press, New York, 2003.
- Joseph F Louvar and B Diane Louver Health and Environmental Risk Analysis fundamentals with applications, Prentice Hall, New Jersey 1997.

#### **GE4P: Environment and Public Health Lab**

**Credits 02**

#### **List of Practical**

To determine pH, Cl, SO<sub>4</sub>, NO<sub>3</sub> in soil and water samples from different locations.

# Vidyasagar University

## Curriculum for B.Sc. (Honours) in Zoology [Choice Based Credit System]

### Semester-V

Course	Course Code	Name of the Subjects	Course Type/ Nature	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
CC- 11		C11T: Molecular Biology	Core Course-11	4	0	0	6	75
		- Lab		0	0	4		
CC- 12		C12T: Genetics	Core Course-12	4	0	0	6	75
		- Lab		0	0	4		
DSE-1		TBD	Discipline Specific Elective - 1	4	0	0	6	75
				0	0	4		
DSE-2		TBD	Discipline Specific Elective -2	4	0	0	6	75
				0	0	4		
<b>Semester Total</b>							<b>24</b>	<b>300</b>

L= Lecture, T= Tutorial, P = Practical, CC - Core Course, TBD - To be decided, DSE: Discipline Specific Elective.

## **Semester-V**

### **List of Core Course (CC)**

**CC-11: Molecular Biology**

**CC-12: Genetics**

### **Discipline Specific Electives (DSE)**

**DSE-1: Animal Behaviour and Chronobiology**

**Or**

**DSE-1: Fish and Fisheries**

**Or**

**DSE-1: Reproductive Biology**

**DSE-2: Animal Biotechnology**

**Or**

**DSE-2: Microbiology**

## Semester-V

### Core Courses (CC)

**CC-11: Molecular Biology**

**Credits 06**

**C11T: Molecular Biology**

**Credits 04**

#### **Course Contents:**

##### **Unit 1: Nucleic Acids**

Salient features of DNA and RNA. Watson and Crick Model of DNA

##### **Unit 2: DNA Replication**

Mechanism of DNA Replication in Prokaryotes, Semi-conservative, bidirectional and discontinuous Replication, RNA priming, Replication of telomeres

##### **Unit 3: Transcription**

Mechanism of Transcription in prokaryotes and eukaryotes, Transcription factors, Difference between prokaryotic and eukaryotic transcription.

##### **Unit 4: Translation**

Mechanism of protein synthesis in prokaryotes, Ribosome structure and assembly in prokaryotes, fidelity of protein synthesis, aminoacyl tRNA synthetases and charging of tRNA; Proteins involved in initiation, elongation and termination of polypeptide chain; Genetic code, Degeneracy of the genetic code and Wobble Hypothesis; Inhibitors of protein synthesis; Difference between prokaryotic and eukaryotic translation

##### **Unit 5: Post Transcriptional Modifications and Processing of Eukaryotic RNA**

Capping and Poly A tail formation in mRNA; Split genes: concept of introns and exons, splicing mechanism, alternative splicing, exon shuffling, and RNA editing, Processing of tRNA

##### **Unit 6: Gene Regulation**

Regulation of Transcription in prokaryotes: *lac* operon and *trp* operon;  
Regulation of Transcription in eukaryotes: Activators, enhancers, silencer, repressors, miRNA mediated gene silencing, Genetic imprinting

##### **Unit 7: DNA Repair Mechanisms**

Types of DNA repair mechanisms, RecBCD model in prokaryotes, nucleotide and base excision repair, SOS repair

##### **Unit 8: Molecular Techniques**

PCR, Western and Southern blot, Northern Blot, Sanger DNA sequencing

#### **Suggested Readings:**

1. Molecular Cell Biology by Harvey Lodish. 7<sup>th</sup> Edition. W.H. Freeman.
2. Molecular Biology of the Gene by Watson. 7<sup>th</sup> Edition. Pearson.

3. iGenetics: A Molecular Approach by Peter. J. Russell. 3<sup>rd</sup> edition. Pearson Benjamin Cummings.

**C11P: Molecular Biology (Lab)**

**Credits 02**

**List of Practical**

1. Demonstration of polytene and lampbrush chromosome from photograph
2. Isolation and quantification of genomic DNA using spectrophotometer (A260 measurement)
3. Agarose gel electrophoresis for DNA

**CC-12: Genetics**

**Credits 06**

**C12T: Genetics**

**Credits 04**

**Course Contents:**

**Unit 1: Mendelian Genetics and its Extension**

Principles of inheritance, Incomplete dominance and co-dominance, Epistasis Multiple alleles, Lethal alleles, Pleiotropy, Sex-linked, sex- influenced and sex-limited inheritance, Polygenic Inheritance.

**Unit 2: Linkage, Crossing Over and Chromosomal Mapping**

Linkage and Crossing Over, molecular basis of crossing over, Measuring Recombination frequency and linkage intensity using three factor crosses, Interference and coincidence

**Unit 3: Mutations**

Types of gene mutations (Classification), Types of chromosomal aberrations (Classification with one suitable example of each), Non-disjunction and variation in chromosome number; Molecular basis of mutations in relation to UV light and chemical mutagens

**Unit 4: Sex Determination**

Mechanisms of sex determination in *Drosophila*  
Sex determination in mammals  
Dosage compensation in *Drosophila* & Human

**Unit 5: Extra-chromosomal Inheritance**

Criteria for extra chromosomal inheritance, Antibiotic resistance in *Chlamydomonas*, Kappa particle in *Paramecium* Shell spiralling in snail

**Unit 6: Recombination in Bacteria and Viruses**

Conjugation, Transformation, Transduction, Complementation test in Bacteriophage

**Unit 7: Transposable Genetic Elements**

Transposons in bacteria, Ac-Ds elements in maize and P elements in *Drosophila*, LINE, SINE, Alu elements in humans

**Suggested Readings:**

1. Developmental biology by Scott. F. Gilbert, 9<sup>th</sup> edition.
2. Snustad, D.P., Simmons, M.J. (2009). Principles of Genetics. V Edition. John Wiley and Sons Inc

3. Klug, W.S., Cummings, M.R., Spencer, C.A. (2012). Concepts of Genetics. X Edition. Benjamin Cummings
4. Russell, P. J. (2009). Genetics- A Molecular Approach.III Edition. Benjamin Cummings  
Griffiths, A.J.F., Wessler, S.R., Lewontin, R.C. and Carroll, S.B.

**C12P: Genetics (Lab)**

**Credits 02**

**List of Practical**

1. Chi-square analyses
2. Linkage maps based on conjugation
3. Identification of chromosomal aberration in Drosophila and man from photograph
4. Pedigree analysis of some human inherited traits

*Discipline Specific Electives (DSE)*

**DSE-1 : Animal Behaviour and Chronobiology**

**Credits 06**

**DSE1T : Animal Behaviour and Chronobiology**

**Credits 04**

**Course Contents:**

**Unit 1: Introduction to Animal Behaviour**

Origin and history of Ethology, Brief profiles of Karl Von Frish, Ivan Pavlov, Konrad Lorenz, Niko Tinbergen Proximate and ultimate causes of behaviour, Methods and recording of a behaviour

**Unit 2: Patterns of Behaviour**

Stereotyped Behaviours (Orientation, Reflexes); Individual Behavioural patterns; Instinct vs. Learnt Behaviour; Associative learning, classical and operant conditioning, Habituation, Imprinting.

**Unit 3: Social and Sexual Behaviour**

Social Behaviour: Concept of Society; Communication and the senses

Altruism; Insects' society with Honey bee as example; Foraging in honey bee and advantages of the waggle dance.

Sexual Behaviour: Asymmetry of sex, Sexual dimorphism, Mate choice, Intra-sexual selection (male rivalry), Inter-sexual selection (female choice), Sexual conflict in parental care.

**Unit 4: Introduction to Chronobiology**

Historical developments in chronobiology; Biological oscillation: the concept of Average, amplitude, phase and period.

Adaptive significance of biological clocks

**Unit 5: Biological Rhythm**

Types and characteristics of biological rhythms: Short- and Long- term rhythms; Circadian rhythms; Tidal rhythms and Lunar rhythms; Concept of synchronization and masking; Photic and non-photic zeitgebers; Circannual rhythms; Photoperiod and regulation of seasonal reproduction of vertebrates; Role of melatonin.

**Suggested Readings:**

1. Animal Behaviour by Drickamar.
2. John Alcock, Animal Behaviour, Sinauer Associate Inc., USA.
3. Paul W. Sherman and John Alcock, Exploring Animal Behaviour, Sinauer Associate Inc., Massachusetts, USA.
4. Chronobiology Biological Timekeeping: Jay. C. Dunlap, Jennifer. J. Loros Patricia J. De Coursey (ed). 2004, Sinauer Associates, Inc. Publishers, Sunderland, MA, USA
5. Insect Clocks D.S. Saunders, C.G.H. Steel, X., Afopoulou (ed.) R.D. Lewis. (3rdEd) 2002 Barends and Noble Inc. New York, USA
6. Biological Rhythms: Vinod Kumar (2002) Narosa Publishing House, Delhi/ Springer-Verlag, Germany.

**DSE1P: Animal Behaviour and Chronobiology (Lab)**

**Credits 02**

**List of Practical**

1. To study nests and nesting habits of the birds and social insects.
2. To study the behavioural responses of wood lice to dry and humid conditions.
3. To study geotaxis behaviour in earthworm.
4. To study the phototaxis behaviour in insect larvae.
5. Visit to Forest/ Wild life Sanctuary/Biodiversity Park/Zoological Park to study behavioural activities of animals and prepare a short report.
6. Study and actogram construction of locomotor activity of suitable animal models.
7. Study of circadian functions in humans (daily eating, sleep and temperature patterns).

**Or**

**DSE-1: Fish and Fisheries**

**Credits 06**

**DSE1T: Fish and Fisheries**

**Credits 04**

**Course Contents:**

**Unit 1: Introduction and Classification**

General description of fish  
Feeding habit, habitat and manner of reproduction  
Classification of fish (up to Subclasses)

**Unit 2: Morphology and Physiology**

Types of fins and their modifications; Locomotion in fish; Hydrodynamics; Types of Scales, Use of scales in Classification and determination of age of fish; Gills and gas exchange; Swim Bladder: Types and role in Respiration, buoyancy; Osmoregulation in Elasmobranchs; Reproductive strategies (special reference to Indian fish); Electric organ, Bioluminescence

**Unit 3: Fisheries**

Inland Fisheries; Marine Fisheries; Environmental factors influencing the seasonal variations in fish catches in the Arabian Sea and the Bay of Bengal; Fishing crafts and Gears; Depletion of fisheries resources; Application of remote sensing and GIS in fisheries; Fisheries law and regulations

**Unit 4: Aquaculture**

Sustainable Aquaculture; Extensive, semi-intensive and intensive culture of fish; Pen and cage culture; Polyculture; Composite fish culture; Brood stock management; Induced breeding of fish; Management of finfish hatcheries; Preparation and maintenance of fish aquarium; Preparation of compound diets for fish; Role of water quality in aquaculture; Fish diseases: Bacterial, viral and parasitic; Preservation and processing of harvested fish, Fishery by-products

### Unit 5: Fish in research

Transgenic fish

Zebrafish as a model organism in research

### Suggested Readings:

1. Q Bone and R Moore, Biology of Fishes, Talyor and Francis Group, CRC Press, U.K.
2. D. H. Evans and J. D. Claiborne, The Physiology of Fishes, Taylor and Francis Group, CRC Press, UK von der Emde, R.J. Mogdans and B.G. Kapoor. The Senses of Fish: Adaptations for the Reception of Natural Stimuli Springer, Netherlands
3. C.B.L. Srivastava, Fish Biology, Narendra Publishing House J.R. Norman, A history of Fishes, Hill and Wang Publishers
4. Khanna and H.R. Singh, A text book of Fish Biology and Fisheries, Narendra Publishing House.

**Note: Classification to be followed from: Romar A. S. (1959)**

### DSE1P: Fish and Fisheries (Lab)

**Credits 02**

#### List of Practical

1. Morphometric and meristic characters of fishes
2. Study of *Petromyzon*, *Myxine*, *Pristis*, *Chimaera*, *Exocoetus*, *Hippocampus*, *Gambusia*, *Labeo*, *Heteropneustes*, *Anabas*
3. Study of different types of scales (through permanent slides/ photographs).
4. Study of crafts and gears used in Fisheries
5. Water quality criteria for Aquaculture: Assessment of pH, conductivity, Total solids, Total dissolved solids
6. Study of air breathing organs in *Channa*, *Heteropneustes*, *Anabas* and *Clarias*
7. Project Report on a visit to any fish farm/ pisciculture unit/Zebrafish rearing Lab.

**Or**

### DSE-1: Reproductive Biology

**Credits 06**

### DSE1T: Reproductive Biology

**Credits 04**

### Course Contents:

#### Unit 1: Reproductive Endocrinology

Mechanism of action of steroids and glycoprotein hormones. hypothalamo – hypophyseal – gonadal axis, regulation of gonadotrophin secretion in human (male and female) Reproductive system:

Development and differentiation of gonads, genital ducts and external genitalia

#### Unit 2: Functional anatomy of male reproduction



Histoarchitecture of testis in human; Spermatogenesis; Kinetics and hormonal regulation; Androgen synthesis and metabolism; Accessory glands functions

### **Unit 3: Functional anatomy of female reproduction**

Histoarchitecture of ovary in human; Oogenesis; Kinetics and hormonal regulation; Steroidogenesis and secretion of ovarian hormones; Reproductive cycles (human) and their regulation, fertilization; Hormonal control of implantation; Hormonal regulation of gestation, pregnancy diagnosis, foeto – maternal relationship; Mechanism of parturition and its hormonal regulation; Lactation and its Regulation

### **Unit 4: Reproductive Health**

Infertility in male and female: causes, diagnosis and management Assisted Reproductive Technology: sex selection, sperm banks, frozen embryos, in vitro fertilization Modern contraceptive technologies

### **Suggested Readings:**

1. Ross & Pawlina. Histology: A text and Atlas. 6th edition.
2. Guyton & Hall. Medical Physiology. 11th edition.
3. Knobil, E. et al. (eds). The Physiology of Reproduction. Raven Press Ltd.
4. Hatcher, R.A. et al. The Essentials of Contraceptive Technology. Population Information Programme.

### **DSE1P: Reproductive Biology (Lab)**

**Credits 02**

### **List of Practicals:**

1. Study of animal house: set up and maintenance of animal house, breeding techniques, care of normal and experimental animals.
2. Examination of vaginal smear rats from live animals.
3. Tissue fixation, embedding in paraffin, microtomy and slide preparation of any endocrine gland
4. Examination of histological sections from photomicrographs/ permanent slides of rat/human: testis, epididymis and accessory glands of male reproductive systems; Sections of ovary, fallopian tube, uterus (proliferative and secretory stages), cervix and vagina.
5. Sperm count and sperm motility in rat

### **DSE-2: Animal Biotechnology**

**Credits 06**

### **DSE2T: Animal Biotechnology**

**Credits 04**

### **Course Contents:**

#### **Unit 1: Introduction**

Organization of prokaryotic and eukaryotic genome, Concept of genomics

#### **Unit 2: Molecular Techniques in Gene manipulation**

Cloning vectors: Plasmids, Cosmids, Phagemids, Lambda Bacteriophage, M13, BAC, YAC, MAC and Expression vectors (characteristics). Restriction enzymes: Nomenclature, detailed

study of Type II. Transformation techniques: Calcium chloride method and electroporation.  
Construction of genomic and cDNA libraries and screening by colony and plaque hybridization  
Southern, Northern and Western blotting  
DNA sequencing: Sanger method  
Polymerase Chain Reaction, DNA Finger Printing and DNA micro array

### **Unit 3: Genetically Modified Organisms**

Production of cloned and transgenic animals: Nuclear Transplantation, Retroviral Method, DNA microinjection. Applications of transgenic animals: Production of pharmaceuticals, production of donor organs, knock out mice

### **Unit 4: Culture Techniques and Applications**

Animal cell culture, expressing cloned genes in mammalian cells, Molecular diagnosis of genetic diseases (Cystic fibrosis, Sickle cell anemia)

### **Suggested Readings:**

1. Brown, T.A. (1998). Molecular Biology Labfax II: Gene Cloning and DNA Analysis. II Edition, Academic Press, California, USA.
2. Glick, B.R. and Pasternak, J.J. (2009). Molecular Biotechnology - Principles and Applications of Recombinant DNA. IV Edition, ASM press, Washington, USA.
3. Weaver. Molecular Biology of Gene. 5th edition.
4. Primrose & Twyman. Principles of Gene Manipulation and Genomics. 7th edition.

### **DSE2P: Animal Biotechnology (Lab)**

**Credits 02**

#### **List of Practical**

1. Genomic DNA isolation from E. coli
2. Plasmid DNA isolation (pUC 18/19) from E. coli
3. Restriction digestion of plasmid DNA.
4. Construction of circular and linear restriction map from the data provided.
5. Calculation of transformation efficiency from the data provided.
6. To study following techniques through photographs
  - a. Southern Blotting
  - b. Northern Blotting
  - c. Western Blotting
  - d. DNA Sequencing (Sanger's Method)
  - e. PCR
  - f. DNA fingerprinting
7. Project report on animal cell culture

**Or**

### **DSE-2: Microbiology**

**Credits 06**

### **DSE2T: Microbiology**

**Credits 04**

### **Course Contents:**

#### **Unit 1: Introduction to Microbiology**

Historical perspective of Microbiology, Prokaryotic pathogens, Eukaryotic pathogens

### **Unit 2: Bacterial taxonomy**

Principles and modern approaches of bacterial taxonomy. Basic idea about Hackel and Whittaker's kingdom concept and domain concept of Carl Woese

### **Unit 3: Morphology of Bacteria and Virus**

Cell wall (Structure of peptidoglycan), Cell envelope (Cell membrane, Differences between gram-positive and gram-negative species, External capsule and glycocalyx, Plasmids and episomes. Nuclear material, Bacterial Chromosome (Fundamental differences with eukaryotic chromosome). Reserve materials (carbon and phosphate reserve, cyanophycin), Cytoplasmic inclusions (Chlorosome, magnetosome, carboxysome, gas vesicles, ribosome). Structural organization of viruses, Prions and viroids

### **Unit 4: Normal flora**

Distribution of normal flora in the body: Skin, eye, mouth, intestinal tract, urino-genital tract, Beneficial functions of normal flora. Harmful effects of normal flora

### **Unit 5: Pathogenicity of Microorganisms**

Bacterial pathogenesis: Entry to the host, Adherence to host cells, Invasiveness, Bacterial toxins Exotoxins, Endotoxins, Antigenic switching. Viral Pathogenesis: Cellular level (Cell death, Transformation, Cell fusion, Cytopathic effect). Initial infections: Routes of entry and dissemination to secondary sites, Typical secondary sites of localization, Virus shedding and mode of transmission; Factors involved in termination of acute infection

### **Unit 6: Infection of pathogens to human populations**

Communicable, Non-communicable, Endemic, Epidemic, Pandemic and Sporadic

### **Unit 7: Diagnostic Microbiology and Bacteria culture**

Koch's postulates, Sensitivity and specificity of test results, Principles and applications: Simple staining, Gram-staining, Acid-fast staining, Collection of specimens, Growth requirements and Growth factors, Oxygen requirement. Culture Media: Simple media, Complex media, Selective media and Enriched media

### **Unit 8: Genetic recombination in bacteria**

Transformation, Conjugation- F<sup>+</sup>, F<sup>-</sup>, Hfr & F' strain, Transduction, Generalised & specialized types.

### **Unit 9: Microbial Diseases**

Name of pathogen, symptoms, pathogenesis, mode of action & preventive measures of following diseases: Bacterial (Polio, Typhoid, Staphylococcal Food Poisoning), Viral (Dengue, AIDS)

### **Suggested Readings:**

1. Alexander, M. (1977). Introduction to Soil Microbiology. John Wiley and Sons, New York.
2. Atlas, R. M. and Bartha, R. (1997). Microbial Ecology: Fundamentals and Applications, 4<sup>th</sup> ed.
3. Benjamin/ Cummings. Black, J. G. (2011). Microbiology: Principles and Explorations. 8<sup>th</sup> ed. John Wiley and Sons, New York.
4. Campbell, R. (1983). Microbial Ecology. 2nd ed. Oxford, Blackwell.

5. Pinehuk, G. (2003). Schaum's outline Series: Theory and Problems of Immunology. McGrawHill.
6. Presscott, L. M., Harley, J. P. and Klein, D. A. (2011). Microbiology, 8th ed. McGrawHill, New York.
8. Schlegel, H. G. (1993). General Microbiology. 7th ed. Cambridge University Press.
9. Slonczewski, J.L. and Foster, J.W. (2009). Microbiology- An Evolving Science. Norton.
10. Stanier, R. Y., Adelberg, E. A. and Ingraham, J. L. (1986). General Microbiology. 5th ed. Macmillan.
11. Talaro, K. and Talaro, A. (1999). Foundations in Microbiology. 3rd ed. Dubuque, McGraw Hill.
12. Tortora, G. J., Funke, B. R., and Case. C. L. (2008). Microbiology. An Introduction. 9th ed. Benjamin/Cummings Publishing. Menlo Park Calif.
13. Voyleys, B. A. (2002). The biology of viruses, 2nd ed. McGraw-Hill.

**DSE2P: Microbiology (Lab)**

**Credits 02**

**List of Practical:**

1. Simple staining and Gram's staining of bacteria.
2. Preparation of liquid media (broth) and solid media for routine cultivation of bacteria.
3. Preparation of slant and stab.
4. Pure culture techniques: Spread plate, Pour plate and Streak plate
5. Biochemical test for characterization:  
Catalase, Nitrate-reduction, Indole production, Methyl Red and Voges-Proskauer Test.
6. Microbiological examination of milk (Methylene blue reductase test).
7. Sugar fermentation test.



# Vidyasagar University

## Curriculum for B.Sc. (Honours) in Zoology [Choice Based Credit System]

### Semester-VI

Course	Course Code	Name of the Subjects	Course Type/ Nature	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
CC- 13		C13T: Developmental Biology	Core Course-13	4	0	0	6	75
		- Lab		0	0	4		
CC- 14		C14T: Evolutionary Biology	Core Course-14	4	0	0	6	75
		- Lab		0	0	4		
DSE-3		TBD	Discipline Specific Elective - 3	4	0	0	6	75
				0	0	4		
DSE-4		TBD	Discipline Specific Elective -4	4	0	0	6	75
				0	0	4		
<b>Semester Total</b>							<b>24</b>	<b>300</b>

L= Lecture, T= Tutorial, P = Practical, CC - Core Course, TBD - To be decided, DSE: Discipline Specific Elective.

## **Semester-VI**

### List of Core Course (CC)

**CC-13: Developmental Biology**

**CC-14: Evolutionary Biology**

### Discipline Specific Electives (DSE)

**DSE-3: Parasitology**

**Or**

**DSE-3: Endocrinology**

**DSE-4: Biology of Insects**

**Or**

**DSE-4: Wild Life Conservation and Management**

## Semester-VI

### Core Courses (CC)

#### **CC-13: Developmental Biology**

**Credits 06**

#### **C13T: Developmental Biology**

**Credits 04**

#### **Course Contents:**

##### **Unit 1: Introduction**

Basic concepts: Phases of Development, Cell cell interaction, Differentiation and growth, Differential gene expression.

##### **Unit 2: Early Embryonic Development**

Gametogenesis, Spermatogenesis, Oogenesis; Types of eggs, Egg membranes; Fertilization (External and Internal): Changes in gametes, Blocks to polyspermy; Planes and patterns of cleavage; Types of Blastula; Fate maps (including Techniques); Early development of frog and chick up to gastrulation; Embryonic induction and organizers.

##### **Unit 3: Late Embryonic Development**

Fate of Germ Layers; Extra-embryonic membranes in birds; Implantation of embryo in humans, Placenta (Structure, types and functions of placenta).

##### **Unit 4: Post Embryonic Development**

Development of brain and Eye in Vertebrate. Regeneration: Modes of regeneration, epimorphosis, morphallaxis and compensatory regeneration (with one example each).

##### **Unit 5: Implications of Developmental Biology 8 Class**

Teratogenesis: Teratogenic agents and their effects on embryonic development; In vitro fertilization, Stem cell (ESC), Amniocentesis.

#### **Suggested Readings:**

1. Gilbert, S. F. (2010). Developmental Biology, IX Edition, Sinauer Associates, Publishers, Sunderland, Massachusetts, USA
2. Slack JMW , Essential Developmental Biology Inc.,

#### **C13P: Developmental Biology Lab**

**Credits 02**

#### **List of Practical**

1. Study of whole mounts of developmental stages of chick through permanent slides: Primitive streak (13 and 18 hours), 21, 24, 28, 33, 36, 48, 72, and 96 hours of incubation (Hamilton and Hamburger stages).
2. Study of the developmental stages and life cycle of *Drosophila* from stock culture.
3. Study of different sections of placenta (photomicrograph/ slides).
4. Project report on *Drosophila* culture/chick embryo development.



## **CC-14: Evolutionary Biology**

**Credits 06**

### **C14T: Evolutionary Biology**

**Credits 04**

#### **Course Contents:**

#### **Evolutionary Biology**

**Unit-1:** Life's Beginnings: Chemogeny, RNA world, Biogeny, Origin of photosynthesis, evolution of eukaryotes.

**Unit-2:** Historical review of Evolutionary concepts, Lamarkism, Darwinism and Neo Darwinism.

**Unit-3:** Geological time scale, Fossil records of Hominids (from *Australopithacus* to *Homo sapiens*), evolution of horse. Neutral theory of molecular evolution, Molecular clock.

**Unit-4:** Sources of variations: Heritable variations and their role in evolution.

**Unit-5:** Population genetics: Hardy-Weinberg Law (statement and derivation of equation, application of law to biallelic Population); Evolutionary forces upsetting H-W equilibrium; Natural selection (concept of fitness, types of selection, selection coefficient, mode of selection heterozygous superiority). Genetic Drift mechanism (founder's effect, bottleneck phenomenon). Role of Migration and Mutation in changing allele frequencies.

**Unit-6:** Species concept, Isolating mechanisms, modes of speciation. Adaptive radiation /macroevolution (exemplified by Galapagos finches).

**Unit-7:** Extinctions, Background and mass extinctions (causes and effects), detailed example of K-T extinction.

**Unit-8:** Origin and Evolution of Man, Unique Hominin characteristics contrasted with primate characteristic Molecular analysis of human origin.

**Unit-9:** Phylogenetic trees, Construction & interpretation of Phylogenetic tree using parsimony, Convergent & Divergent evolution.

#### **Suggested Readings:**

1. Campbell, N.A. and Reece J.B (2011). Biology. IX Edition. Pearson, Benjamin, Cummings.
2. Douglas, J. Futuyma (1997). Evolutionary Biology. Sinauer Associates.
3. Geneics: A Molecular Approach. 3<sup>rd</sup> edition. Peter. J. Russell.

### **C14P: Evolutionary Biology Lab**

**Credits 02**

#### **List of Practical**

1. Study of fossils from models/ pictures
2. Study of homology and analogy from suitable specimens
3. Study and verification of Hardy-Weinberg Law by chi square analysis
4. Graphical representation and interpretation of data of height/ weight of a sample of 100 humans in relation to their age and sex.

## Discipline Specific Electives (DSE)

**DSE-3: Parasitology**

**Credits 06**

**DSE3T: Parasitology**

**Credits 04**

### **Course Contents:**

#### **Unit-1: Introduction to Parasitology**

Brief introduction of Parasitism, Parasite, Parasitoid and Vectors (mechanical and biological vector Host parasite relationship)

#### **Unit-2: Parasitic Protists**

Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of *Giardia intestinalis*, *Trypanosoma gambiense*, *Leishmania donovani*.

#### **Unit-3: Parasitic Platyhelminthes**

Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of *Schistosoma haematobium*, *Taenia sajinata*

#### **Unit-4: Parasitic Nematodes**

Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of *Ascaris lumbricoides*, *Ancylostoma duodenale*, *Wuchereria bancrofti* and *Trichinella spiralis*, *Brugia malayi*; Nematode plant interaction; Gall formation.

#### **Unit-5: Parasitic Arthropods**

Biology, importance and control of ticks (Soft tick *Ornithodoros*, Hard tick *Ixodes*), mites (*Sarcoptes*), Lice (*Pediculus*), Flea (*Xenopsylla*) and Bug (*Cimex*).

#### **Unit-6: Parasite Vertebrates**

Brief account of Cookicutter Shark, Hood Mocking bird, Vampire bat.

### **Suggested Readings:**

1. Arora, D. R and Arora, B. (2001) Medical Parasitology. II Edition. CBS Publications and Distributors

2. E.R. Noble and G.A. Noble (1982) Parasitology: The biology of animal parasites. V Edition, Lea & Febiger
3. Ahmed, N., Dawson, M., Smith, C. and Wood, Ed. (2007) Biology of Disease.
4. Taylor and Francis Group
5. Parija, S. C. Textbook of medical parasitology, protozoology & helminthology (Text and colour Atlas), II Edition, All India Publishers & Distributors, Medical Books Publishers, Chennai, Delhi
6. Rattan Lal Ichhpujani and Rajesh Bhatia. Medical Parasitology, III Edition, Jaypee Brothers Medical Publishers (P) Ltd., New Delhi.
7. Page66Meyer, Olsen & Schmidt's Essentials of Parasitology, Murray, D. Dailey, W.C. Brown Publishers.
8. K. D. Chatterjee (2009). Parasitology: Protozoology and Helminthology. XIII Edition, CBS Publishers & Distributors (P) Ltd.

**DSE3P: Parasitology Lab**

**Credits 02**

**List of Practical:**

1. Study of life stages of *Giardia intestinalis*, *Trypanosoma gambiense*, *Leishmania donovani* through permanent slides/micro photographs.
2. Study of adult and life stages of *Schistosoma haematobium*, *Taenia sajinata* through permanent slides/micro photographs.
3. Study of adult and life stages of *Ancylostoma duodenale*, *Brugia malayi* and *Trichinella spiralis* through permanent slides/micro photographs.
4. Study of plant parasitic root knot nematode, Meloidogyne from the soil sample.
5. Study of *Pediculus humanus*, *Xenopsylla cheopis* and *Cimex lectularius* through permanent slides/ photographs.
6. Study of monogenea from the gills of fresh/marine fish [Gills can be procured from fish market as by product of the industry].
7. Study of nematode/cestode parasites from the intestines of Poultry bird [Intestine can be procured from poultry/market as a by-product.

Submission of a brief report on parasitic vertebrates.

**Or**

**DSE-3: Endocrinology**

**Credits 06**

**DSE3T: Endocrinology**

**Credits 04**

**Course Contents:**

**Unit-1: Introduction to Endocrinology**

General idea of Endocrine systems, Classification, Characteristic and Transport of Hormones, Neurosecretions and Neurohormones

## **Unit-2: Epiphysis, Hypothalamo-hypophysial Axis**

Structure of pineal gland, Secretions and their functions in biological rhythms and reproduction. Structure and functions of hypothalamus and Hypothalamic nuclei, Regulation of neuroendocrine glands, Feedback mechanisms Structure of pituitary gland, Hormones and their functions, Hypothalamo-hypophysial portal system, Disorders of pituitary gland.

## **Unit-3: Peripheral Endocrine Glands**

Structure, Hormones, Functions and Regulation of Thyroid gland, Parathyroid, Thymus, Adrenal, Pancreas, Ovary and Testis. Hormones in homeostasis, Disorders of endocrine glands

## **Unit-4: Regulation of Hormone Action**

Mechanism of action of steroidal, non-steroidal hormones with receptors. Bioassays of hormones using RIA & ELISA. Estrous cycle in rat and menstrual cycle in human. Multifaceted role of Vasopressin & Oxytocin. Hormonal regulation of parturition.

### **Suggested Readings:**

1. Guyton and Hall. Textbook of Medical Physiology. 13th Edition
2. Histology: A Text and Atlas. Sixth Edition. Ross & Pawlina. Lippincott Williams & Wilkins.
3. Vertebrate Endocrinology by David O. Norris,

## **DSE3P: Endocrinology Lab**

**Credits 02**

### **List of Practical**

1. Dissect and display of Endocrine glands in laboratory bred rat.
2. Study of the permanent slides of all the endocrine glands
3. Tissue fixation, embedding in paraffin, microtomy and slide preparation of any endocrine gland
4. Estimation of plasma level of any hormone using ELISA.
5. Designing of primers of any hormone.

## **DSE-4: Biology of Insects**

**Credits 06**

## **DSE4T: Biology of Insects**

**Credits 04**

### **Course Contents:**

#### **Unit-1: Introduction**

General Features of Insects. Distribution and Success of Insects on the Earth.

#### **Unit-2: Insect Taxonomy**

Basis of insect classification; Classification of insects up to orders (according to Brusca and Brusca, 2016).

### **Unit-3: General Morphology of Insects**

External Features; Head – Eyes, Types of antennae, Mouth parts w.r.t. feeding habits. Thorax: Wings and wing articulation, Types of Legs adapted to diverse habitat Abdominal appendages and genitalia.

### **Unit-4: Physiology of Insects**

Structure and physiology of Insect body systems - Integumentary, digestive, excretory, circulatory, respiratory, endocrine, reproductive, and nervous system. Photoreceptors: Types, Structure and Function Metamorphosis: Types and Neuroendocrine control of metamorphosis.

### **Unit-5: Insect Society**

Social insects with special reference to termites. Trophallaxis in social insects such as ants, termites and bees.

### **Unit-6: Insect Plant Interaction**

Theory of co-evolution, role of allelochemicals in host plant mediation Host-plant selection by phytophagous insects, Major insect pests in paddy.

### **Unit-7: Insects as Vectors**

Insects as mechanical and biological vectors, Brief discussion on houseflies and mosquitoes as important vectors.

### **Suggested Readings:**

1. A general text book of entomology, Imms , A. D., Chapman & Hall, UK
2. The Insects: Structure and function, Chapman, R. F., Cambridge University Press, UK
3. Principles of Insect Morphology, Snodgrass, R. E., Cornell Univ. Press, USA
4. Introduction to the study of insects, Borror, D. J., Triplehorn, C. A., and Johnson, N. F.,M , Saunders College Publication, USA
5. The Insect Societies, Wilson, E. O., Harward Univ. Press, UK
6. Host Selection by Phytophagous insects, Bernays, E. A., and Chapman, R. F., Chapman and Hall, New York, USA
7. Physiological system in Insects, Klowden, M. J., Academic Press, USA
8. The Insects, An outline of Entomology, Gullan, P. J. , and Cranston, P. S., Wiley Blackwell, UK
9. Insect Physiology and Biochemistry, Nation, J. L., CRC Press, USA
10. Mosquito, Chandra G (2000), Sribhumi Pub. Co.
11. Medical Entomology, Hati A. K., Allied Book Agency, 2010

[Note: Classification to be followed from IMMS A. D. (1938)]

**DSE4P: Biology of Insects Lab**

**Credits 02**

**List of Practical**

1. Study of life cycle of Mosquito
2. Study of different kinds of antennae, legs and mouth parts of insects
3. Mounting of insect wings, spiracles and genitalia of any insects
4. Methodology of collection, preservation and identification of insects.
5. Morphological studies of various castes of *Apis*, *Camponotus* *Odontotermes*
6. Study of major insect pests of paddy and their damages
7. Study of Mulberry silk moth as beneficial insect

Or

**DSE-4: Wild Life Conservation and Management**

**Credits 06**

**DSE4T: Wild Life Conservation and Management**

**Credits 04**

**Course Contents:**

**Unit-1: Introduction to Wild Life**

Values of wild life - positive and negative; Conservation ethics; Importance of conservation; Causes of depletion; World conservation strategies.

**Unit-2: Evaluation and management of wild life**

Habitat analysis, Physical parameters: Topography, Geology, Soil and water  
Biological Parameters: food, cover, forage, browse and cover estimation.  
Standard evaluation procedures: remote sensing and GIS.

**Unit-3: Management of habitats**

Setting back succession; Grazing logging; Mechanical treatment; Advancing the successional process; Cover construction; Preservation of general genetic diversity Restoration of degraded habitats.

**Unit-4: Population estimation**

Population density, Natality, Birth rate, Mortality, fertility schedules and sex ratio computation; Faecal analysis of ungulates and carnivores; Pug marks and census method.

**Unit-5: Aims and objectives of wildlife conservation**

Wildlife conservation in India – through ages; different approaches of wildlife conservation; modes of conservation; in-situ conservation and ex-situ conservation: necessity for wildlife conservation.

**Unit-6: Management planning of wild life in protected areas**

Estimation of carrying capacity; Eco tourism / wild life tourism in forests; Concept of climax persistence; Ecology of perturbation.

### **Unit-7: Man and Wildlife**

Causes and consequences of human-wildlife conflicts; mitigation of conflict – an overview; Management of excess population.

### **Unit-8: Protected areas**

National parks & sanctuaries, Community reserve; Important features of protected areas in India; Tiger conservation - Tiger reserves in India; Management challenges in Tiger reserve.

### **Suggested Readings:**

1. Caughley, G., and Sinclair, A.R.E. (1994). Wildlife Ecology and Management. Blackwell Science.
2. Woodroffe R., Thirgood, S. and Rabinowitz, A. (2005). People and Wildlife, Conflict or Co-existence? Cambridge University.
3. Bookhout, T.A. (1996). Research and Management Techniques for Wildlife and Habitats, 5 th edition. The Wildlife Society, Allen Press.
4. Sutherland, W.J. (2000). The Conservation Handbook: Research, Management and Policy. Blackwell Sciences
5. Hunter M.L., Gibbs, J.B. and Sterling, E.J. (2008). Problem-Solving in Conservation Biology and Wildlife Management: Exercises for Class, Field, and Laboratory. Blackwell Publishing.

## **DSE4P: Wild Life Conservation and Management Lab**

**Credits 02**

### **List of Practical**

1. Identification of flora, mammalian fauna, avian fauna, herpeto-fauna.
2. Demonstration of basic equipment needed in wildlife studies use, care and maintenance (Compass, Binoculars, Spotting scope, Range Finders, Global Positioning System, Various types of Cameras and lenses).
3. Familiarization and study of animal evidences in the field; Identification of animals through pug marks, hoof marks, scats, pellet groups, nest, antlers, etc.
4. Demonstration of different field techniques for flora and fauna.
5. PCQ, ten tree method, Circular, Square & rectangular plots, Parker's 2 Step and other methods for ground cover assessment, Tree canopy cover assessment, Shrub cover assessment.
6. Trail / transect monitoring for abundance and diversity estimation of mammals and bird (direct and indirect evidences).





**Vidyasagar University**  
**Curriculum for B.Sc (General) in Physiology**  
 [Choice Based Credit System]

**Semester-III**

Course	Course Code	Name of the Subjects	Course Type/ Nature	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
<b>DSC-1C</b>		<b>DSC1CT:</b> Nerve –Muscle Physiology, Nervous system, Skin and Body Temperature Regulation	Core Course	4	0	0	6	75
		- Lab		0	0	4		
<b>DSC-2C</b>	TBD	<b>DSC-2C (other Discipline)</b>	Core Course				6	75
<b>DSC-3C</b>	TBD	<b>DSC-3C (other Discipline)</b>	Core Course				6	75
<b>SEC-1</b>		SEC1T: Public Health and Epidemiology Or Environmental Epidemiology	Skill Enhancement Course-1	1	1	0	2	50
<b>Semester Total</b>							<b>20</b>	<b>275</b>

**L** = Lecture, **T** = Tutorial, **P** = Practical, **CC** = Core Course, **TBD** = To be decided, **SEC** = Skill Enhancement Course.

**DSC-1** = Discipline Specific Core of Subject-1, **DSC-2** = Discipline Specific Core of Subject-2,

**DSC-3** = Discipline Specific Core of Subject-3.

**Semester-III**  
**Core Course (CC)**

**DSC-1C (CC-3): Nerve –Muscle Physiology, Nervous system, Skin and Body Temperature Regulation** **Credits 06**

**DSC1CT: Nerve –Muscle Physiology, Nervous system, Skin and Body Temperature Regulation** **Credits 04**

**Course Contents:**

**Nerve-muscle Physiology**

Different types of muscle and their structures. Sarcotubular system. Red and white muscles. Properties of muscle: all or none law, rheobase, chronaxie, indefatigability, beneficial effect, summation, refractory period, tetanus and fatigue. Smooth Muscle: Morphology, Single-unit and multi-unit smooth muscle. Muscle spindle. Cardiac Muscle: Morphology, Electrical Properties, Mechanical Properties Pacemaker Tissue.

Mechanism of muscular contraction. Structural, chemical and mechanical changes in skeletal muscle during contraction and relaxation. Isotonic and isometric contraction. Molecular basis of smooth muscle and cardiac muscle contraction and relaxation.

Structure and classification of nerves. Nerve cells. Excitation & Conduction. Measurement of electrical events. Degeneration and regeneration of nerve fibre. Myelination. Origin and propagation of nerve impulse. Velocity of impulse in different types of nerve fibres. Properties of nerve fibre: all or none law, rheobase, chronaxie, refractory period, indefatigability. Properties of mixed nerves. Neurotrophin.

Synapse: structure, functional anatomy, classification, mechanism of synaptic transmission. Electrical Events at Synapses, Inhibition & Facilitation at Synapses. Motor unit, motor point. EPSP, IPSP.

Neuromuscular junction: structure, mechanism of impulse transmission, end plate potential. A brief overview on neurotransmitters. Electromyography.

**Nervous System:**

A brief outline of organization and basic functions of the nervous system - central and peripheral nervous system. Structural organization of the different parts of the brain and spinal cord. Hemi section and complete section of spinal cord. Brown- Sequard syndromes. Receptors : Definition, structure, classification, mode of action. Blocker and Stimulator. Reflexes: Introduction, Monosynaptic Reflex, Stretch Reflex, Polysynaptic reflex. Withdrawal Reflex. General Properties of Reflexes. Reflex action - definition, classification, properties, reflex arc.

Ascending and Descending tracts : Origin, course, terminations, and functions. Lower motor neurone and upper motor neurone. Postural reflex, Muscle spindle, Muscle tone and its regulation. Decerebrate and decortico rigidity.

Arousal Mechanisms, Sleep, & the Electrical Activity of the Brain - The Reticular Formation & the Reticular Activating System, The Thalamus & the Cerebral Cortex: structure & functions. The Electroencephalogram, Physiological Basis of the EEG & Sleep, Interpretation of abnormal EEG pattern.

Control of Posture & Movement - Introduction, General Principles, Basal Ganglia & Cerebellum: Structure & functions. Disorders of basal ganglia and cerebellum.

The Autonomic Nervous System - Introduction, Anatomic Organization of Autonomic Outflow, Chemical Transmission at autonomic Junctions.

Central Regulation of Visceral Function - Introduction, Hypothalamus: Anatomic Considerations, Hypothalamic Function, Relation to Autonomic Function, Relation to Sleep, Hunger, Thirst, Control of Posterior Pituitary Secretion, Control of Anterior pituitary Secretion, Temperature Regulation, fever.

Neural Basis of instinctual Behavior & Emotions - Introduction, Limbic system: Anatomic Considerations, Functions - Sexual Behavior, Fear & Rage, Motivation.

CSF: composition, formation, circulation and functions. A brief idea of speech, aphasia, memory conditioning and learning. Sleep and sleep wakefulness cycle.

### **Skin and Body temperature regulation:**

Histological structure of skin. Colour of the skin. Organization of sweat gland. Composition and function of the sweat. Regulation of sweat secretion. Insensible and sensible perspiration. Composition and function of sebum. Triple response.

Normal body temperature. Channels of heat loss and heat gain process. Regulation of body temperature: Higher centre and mechanism of regulation. Hypothermia and Hyperthermia. Physiological basis of fever. Cold stress. Insulating effects. Acclimatization to colds.

**DSC1CP: Practical**

**Credit 02**

### **Practical:**

1. Isolation and Staining of nerve fibers with node(s) of Ranvier (AgNO<sub>3</sub>).
2. Staining of skeletal and cardiac muscles by Methylene Blue stain.
3. Measurement of grip strength.
4. Recording of body temperature.
5. To study the response of the skin to blunt injury (triple response) (**Demonstration**)

### **Neurological experiments:**

1. Experiments on superficial (plantar) and deep (knee jerk) reflex.
2. Reaction time by stick drop test.
3. Short term memory test (shape, picture word).
4. Two point discrimination test.

### **Demonstration:**

1. Study of Kymograph, Induction coil, Key and other instruments used to study mechanical responses of skeletal muscle.
2. Kymographic recording of mechanical responses of gastrocnemius muscle to a single stimulus and two successive stimuli.
3. Kymographic recording of the effects of variations of temperature and load (after-load) on single muscle twitch.
4. Calculation of work done by the muscle.
5. Determination of nerve conduction velocity.

## ***Skill Enhancement Course (SEC)***

### **SEC- 1: Public Health and Epidemiology**

**Credits 02**

#### **SEC1T: Public Health and Epidemiology**

#### **Course Contents:**

**Unit I:** Principles of Epidemiology in Public Health: Overview of epidemiology methods used in research studies to address disease patterns in community and clinic-based populations, distribution and determinants of health-related states or events in specific populations, and strategies to control health problems

**Unit II:** Statistical Methods for Health Science Analysis and interpretation of data including data cleaning, data file construction and management; implementation of analytic strategies appropriate for the type of data, study design and research hypothesis; parametric and nonparametric methods, measures of association, Linear and Logistic regression, Generalized Linear Modeling, and Survival analysis

#### **Unit III:**

Environmental Health. Effects of biological, chemical, and physical agents in environment on health (water, air, food and land resources); ecological model of population health; current legal framework, policies, and practices associated with environmental health and intended to improve public health.

**Unit IV:** Psychological, Behavioural, and Social Issues in Public Health. Cultural, social, behavioural, psychological and economic factors that influence health and illness; behavioural science theory and methods for understanding and resolving public health problems; assess knowledge, attitudes, behaviours towards disease and patient compliance to treatment.

**Unit V:** Management of Health Care Program and Service Organizations Techniques and procedures for monitoring achievement of a program's objectives, generating evidence of program effectiveness, assessing impacts in public health settings; evaluation of framework that leads to evidence-based decision-making in public health. Organizational principles and practices including organizational theory, managerial role, managing groups, work design, and organization design at primary, secondary, and tertiary levels of care

**Unit VI:** Epidemiology of disease. Contemporary methods for surveillance, assessment, prevention, and control of infectious and chronic diseases, disabilities, HIV/AIDS; understanding etiology; determining change in trend over time; implementation of control measures

### **Suggested Readings:**

1. Gordis Leon. Epidemiology (Fifth edition) , Elsevier Saunders.
2. Dona Schneider and David E. Lilienfeld. Lilienfeld's Foundations of Epidemiology, Fourth Edition, Oxford University Press, USA.
3. Porta Miquel. A Dictionary of Epidemiology, Oxford University Press, USA,
4. Somerville Margaret, et al., Public Health and Epidemiology at a Glance, Second Edition, Wiley-Blackwell,
5. Beaglehole. R. Bonita, et. al Basic Epidemiology, 2nd Edition, WHO Publication, Geneva, .
6. Spasoff R.A. Epidemiologic Methods for Health Policy, Oxford University Press,
7. Barkar, D.J.P., Practical Epidemiology: Churchill pub, Livingstone.
8. Knox E. G. Epidemiology in health care planning: A Guide to the Uses of a Scientific Method, Oxford University Press, USA.

**Or**

## **SEC-1: Environmental Epidemiology**

**Credits 02**

### **SEC1T: Environmental Epidemiology**

#### **Course Contents:**

#### **UNIT-I:**

Introduction, Definitions, man - environment relation, terms, Historical Background- brief history of social reforms. Branches – Descriptive, research, bio- statistical, economic, Methodological and Administrative.

#### **UNIT-II:**

Principles- an epidemic and ingredients - and types of studies – Descriptive, analytical- cohort, case- control and cross sectional and biological studies.

### **UNIT-III:**

Causes – Koch postulates. Immunological proof- cancers and slow viruses- Hill's criteria- emergence of new diseases- and effect modifications. Diseases of plants and animals - extinct and endangered animals - causes and effects - Measurements and statistical associations –prevalence rate – incidence rate - Cumulative incidence rate- Mortality rate- Mean and standard error–risk ratio, attributable ratio - simple problems.

### **UNIT-IV:**

Types of sampling - simple random sampling; stratified sampling; systematic sampling; multi stage sampling; cluster sampling.

Methods in Field study – questionnaire preparation; Data analysis; Report writing.

### **UNIT –VI:**

Environmental hazards and Public health management: Sources of Environmental hazards, hazard identification and accounting, fate of toxic and persistent substances in the environment, dose response, evaluation, exposure assessment. Pollution: Air, water, noise pollution sources and effects. Waste management and hazards: Types and characteristics of wastes, biomedical waste handling and disposal, nuclear waste handling and disposal, Waste from thermal power plants. Case histories on Bhopal gas tragedy, Chernobyl disaster, Seveso disaster and Three Mile Island accident and their aftermath. Diseases: Social and economic factors of disease including role of health services and other organizations: Infectious (Bacterial-Tuberculosis, Typhoid; Viral - AIDS, Poliomyelitis, Hepatitis; Protozoan- Leishmaniasis, Malaria); Lifestyle and Inherited/genetic diseases, Immunological diseases; Cancer; Diseases impacting on Western versus developing societies.

### **Suggested Readings:**

1. Anisa Basheer, Environmental Epidemiology, Pointer Pub .
2. R.Beaglehole, R. Bonita & T. Kjellstrom Epidemiology WHO Publ., Current edition .
3. Epidemiology of Occupational Health, WHO publication.
4. Rose, G. The Strategy of Preventive Medicine, Oxford pres.
5. Gordis Leon. Epidemiology (Fifth edition) , Elsevier Saunders.
6. Porta Miquel. A Dictionary of Epidemiology, Oxford University Press, USA,
7. Somerville Margaret, et al., Public Health and Epidemiology at a Glance, Second Edition, Wiley-Blackwell,
8. Spassoff R.A. Epidemiologic Methods for Health Policy, Oxford University Press,
9. Knox E. G. Epidemiology in health care planning: A Guide to the Uses of a Scientific Method, Oxford University Press, USA.