

# 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 Epistemology	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 Epistemology-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: Śrīmadbhagavadgīta
- 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 Vedānta: 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, Saguṇa and Nirguṇa 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:

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- 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 Andolonar 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: Kuppuswami 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 ṛṇa 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-saṁketa, 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), “Vyāñjanā-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) anvitābhīdhānvāda 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

**DSE2T: Ethics (Applied ethics)**

**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
- Śrīgīta: 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:**

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

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