



Deccan Education Society's
Fergusson College (Autonomous)
Pune

Learning Outcomes-Based Curriculum
for 3 years B.A Programme

as per guidelines of

NEP-2020

for

F. Y. B. A. (Philosophy and Logic)

With effect from Academic Year

2023-2024

Program Outcomes (POs) for B.A Programme	
PO1	Disciplinary Knowledge: Demonstrate a blend of conventional discipline knowledge and its applications to the modern world. Execute strong theoretical and practical understanding generated from the chosen programme.
PO2	Critical Thinking and Problem solving : Exhibit the skill of critical thinking and use higher order cognitive skills to approach problems situated in their social environment, propose feasible solutions and help in its implementation.
PO3	Social competence : Express oneself clearly and precisely to build good interpersonal relationships in personal and professional life. Make effective use of linguistic competencies to express themselves effectively in real and virtual media. Demonstrate multicultural sensitivity in group settings.
PO4	Research-Related Skills: Seeks opportunity for research and higher academic achievements in the chosen field and allied subjects and is aware about research ethics, intellectual property rights and issues of plagiarism. Demonstrate a sense of inquiry and capability for asking relevant/appropriate questions; ability to plan, execute and report the results of an research project be it in field or otherwise under supervision.
PO5	Personal and professional competence: Equip with strong work attitudes and professional skills that will enable them to work independently as well as collaboratively in a team environment.
PO6	Effective Citizenship and Ethics : Demonstrate empathetic social concern and equity centred national development; ability to act with an informed awareness of moral and ethical issues and commit to professional ethics and responsibility.
PO7	Environment and Sustainability : Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge of, and need for sustainable development.
PO8	Self-directed and Life-long learning: Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

Program Specific Outcomes(PSOs) for F.Y. B.A. Philosophy and Logic	
PSO No.	Program Specific Outcomes(PSOs) Upon completion of this programme the student will be able to
PSO1	Academic competence: i) Know core issues, problems and concerns in both Indian and Western traditions. (ii) Develop the skills for oral and written communication with special reference to the quality and organisation of the content. (iii) Explore various branches of Philosophy and their interrelations.
PSO2	Personal and Professional Competence: (i) Process information in a logically consistent manner so as to come up with their own position about a certain topic. (ii) Analyse a problem from an interdisciplinary perspective.
PSO3	Research Competence: i) Critically evaluate approaches, theories, positions, norms, values. (ii) Analyse concepts and to trace their historical development. (iii) Logically assess the arguments with reference to their comparative strengths and weakness.
PSO4	Ethical/Social competence: i) identify ethically relevant issues in contemporary life and to deliberate over them. (ii) Develop an open minded approach and an attitude of respect for diverse opinions. (iii) Appreciate the significance of democratic values in intellectual discourses. (iv) Apply ethical theories and principles in real life situations.

Programme Structure

Department of Philosophy and Logic

B.A. Philosophy and Logic

Semester	Paper Code	Paper Title	Credits
I	PHI-100 (Major)	Ancient Indian Philosophy – Vedic and Non-Vedic	2
	PHI-101 (Major)	Foundations of Philosophy I	4
	PHI-120 (GE/OE)	Leading a Good Life – Indian and Western Perspectives	2
	PHI-140 (SEC)	Essentials of Critical Thinking	2
	IKS-101 (IKS)	Indian Knowledge Systems	2
II	PHI-150 (Major)	Introduction to Greek Philosophy	2
	PHI-151 (Major)	Foundations of Philosophy II	4
	PHI-160 (Minor)	Philosophy of Religion	2
	PHI-170 (GE/OE)	Philosophy of Religion	2
	PHI-190 (SEC)	Elements of non-formal reasoning	2

Teaching and Evaluation (Only for FORMAL education courses)

Semester	Paper Code	Paper Title	Credits
I	LOG-120 (GE/OE)	Traditional Logic: Syllogistic reasoning	2
II	LOG-160 (Minor)	Traditional Logic: Syllogistic reasoning	2
	LOG-170 (GE/OE)	Introduction to Methodology of Science	2

Teaching and Evaluation (Only for FORMAL education courses)

Course Credits	No. of Hours per Semester Theory/Practical	No. of Hours per Week Theory / Practical	Maximum Marks	CE 40 %	ESE 60%
1	15 / 30	1 / 2	25	10	15
2	30 / 60	2 / 4	50	20	30
3	45 / 90	3 / 6	75	30	45
4	60 / 120	4 / 8	100	40	60

Eligibility: As per the rules and regulations of Savitribai Phule Pune University (SPPU)

F.Y.B.A. Philosophy SEMESTER I MAJOR CORE I)		
Title of the course and course code	PHI-100 : Ancient Indian Philosophy - Vedic and Non Vedic	Number of credits: 2
Course Outcomes		
CO1	Comprehend the nature and scope of logic; identify the types and structure of reasoning	
CO2	Comprehend the diverse trends in Indian Philosophical thought	
CO3	Identify the components of Vedic literature and trace the development of Vedic Philosophy from Samhitas to Upanishads	
CO4	Engage with the upanishadic texts through selected dialogues	

Unit No.	Title of Units and Contents	No. of Lectures
I	Origin of Indian Philosophical Thought 1. General Characteristics of Indian Philosophy 2. Components of Vedic Literature and their nature and subject matter 3. Philosophical ideas in the Upanishads - Cosmogony, Nature of Ultimate Reality 4. Reading translations of dialogues from the Chandogya -	15
II	Heterodox Schools of Indian Philosophy 1. Jainism - Nature and Classification of Knowledge, Anekantavada, Syadavada 2. Buddhism - Avyakruta Prashnas, Four Noble truths 3. Charvaka - Epistemology, Purusharthas, Criticism of Vedas and Vedic ritualism	15

Learning resources:

1. Dasgupta, S.N., *History of Indian Philosophy*, Vol. I to V, seventh edition, 2007
2. Datta and Chatterjee, *An Introduction to Indian Philosophy*, University of Calcutta, Calcutta
3. Sharma C.D. : *A Critical Survey of Indian Philosophy*, Motilal Banarsidas, Delhi, 1998
4. Hiriyanna, M : *Outlines of Indian Philosophy*, London, 1956
5. Hume, Robert Earnest, *The Thirteen Principal Upanishads*, Forgotten Books, 2010
(For reading of Dialogues)

F.Y.B.A. PHILOSOPHY SEMESTER I (MAJOR CORE II)		
Title of the course and course code	PHI-101: Foundations of Philosophy - I	Number of credits: 4
Course Outcomes		
CO1	Define Philosophy and list its branches and characteristics, identify fundamental issues in Philosophy and classify them into different branches of Philosophy.	
CO2	Identify the nuances of Indian and the Western approaches to Philosophy and Logic	
CO3	Recognize the peculiarity of Philosophical thinking by engaging with pertinent questions	
CO4	Explain the basic concepts in Epistemology, Logic and Social Philosophy	

Unit No.	Title of Units and Contents	No. of Hours
I	Introduction to Philosophy Definitions of Philosophy (Indian and Western), Nature and scope of Philosophy Methods of Philosophy: Dialogue, Debate, Conceptual Analysis	15
II	Epistemology and Logic (Western) Concept and definition of knowledge, Sources of knowledge: Reason, Sense perception, Introduction to Logic, nature and types of arguments: Deductive and Inductive	15
III	Epistemology and Logic (Indian) Concept of Prama, Pramanas (Sources of knowledge) according to Mimamsa Darshan, Anumana (Inference) according to Nyaya Darshan	15
IV	Social Philosophy Concept of Freedom Rights and Duties Concepts of Equality and Justice Theories of Punishment	15

Learning resources:

1. Titus H.H.: Living Issues in Philosophy: An Introductory Text Book, Eurasia Publishing House, Pvt. Ltd., New Delhi, 1968
2. Datta and Chatterjee: An Introduction to Indian Philosophy, University of Calcutta, Calcutta, 2008
3. John Hospers: Introduction to philosophical Analysis, Allied Publishers, Bombay, 1975
4. Will Durant, The Story of Philosophy, Pocket Books, New York, 2006 , Social Philosophy resources

F.Y.B.A. PHILOSOPHY SEMESTER I (GE/OE)		
Title of the course and course code	PHI-120: Leading a Good Life – Indian and Western Perspectives	Number of credits: 2
Course Outcomes		
CO1	Identify and examine the issues faced while trying to lead a good life	
CO2	Understand the relevance of Philosophy in leading a good life	
CO3	Apply the theories learnt for solving lived issues	

Unit No.	Title of Units and Contents	No. of Lectures
I	Introduction to Philosophy What is philosophy? Branches of Philosophy	2
II	Indian Approaches to Good Life Good Life and suffering (Traditional Vedic, Buddhism, Jainism, Sankhya) Sukhamayu, Hitamayu (Ayurveda) Niṣkāmakarma (Bhagavadgeeta) Practical Vedanta (Swami Vivekananda)	14
III	Western Approaches to Good Life Socrates, Plato (With ref. to <i>Symposium</i>) Stoicism (Apatheia) Epicureanism Aristotle (Eudaimonia)	14

Learning resources:

1. Copleston, Frederick S.J. , *A History of Philosophy*, Vol. I, Image Books Edition, 1962: (Volume 1)
2. Hiriyanna, M., & Hiriyanna, M. (1993). *Outlines of Indian Philosophy*. Motilal Banarsidass Publ.
3. Bhārgava, D. (1968). *Jaina Ethics*
4. Chatterjee, S., & Datta, D. (2016). *An Introduction to Indian Philosophy*. Motilal Banarsidass.
5. Vivekananda, S. (1991). *Practical Vedanta*.

F.Y.B.A. PHILOSOPHY SEMESTER I (SEC)		
Title of the course and course code	PHI-140: Essentials of Critical Thinking	Number of credits: 2
Course Outcomes		
CO1	Identify the components of an argument	
CO2	Understand the relation between truth and validity	
CO3	Analyze arguments for their structure	
CO4	Identify the assumptions made in day-to-day instances of reasoning	

Unit No.	Title of Units and Contents
I	-What is Critical Thinking? - Significance of Critical Thinking -Components of an Argument - Premises, Hidden premises, Conclusion, Intermediate Conclusions -Truth and Validity
II	-Identifying Assumptions in arguments -Exercises in identification of arguments and their components

Learning resources

1. Sen, M. (2010). *An Introduction to Critical Thinking*. Pearson Education India.
2. Thomson, A. (2009). *Critical Reasoning: A Practical Introduction*. Routledge.
3. Hitchcock, David, "Critical Thinking", *The Stanford Encyclopedia of Philosophy* (Winter 2022 Edition), Edward N. Zalta & Uri Nodelman (eds.), URL = <https://plato.stanford.edu/archives/win2022/entries/critical-thinking/>.

F.Y.B.A. PHILOSOPHY SEMESTER I (IKS)		
Title of the course and course code	IKS-101: Indian Knowledge Systems	Number of credits: 2
Course Outcomes		
CO1	Recall the basic concepts of Indian Knowledge System (IKS)	
CO2	Articulate the foundation of IKS and explain historical and cultural context of Indian knowledge systems	
CO3	Use the knowledge of IKS to understand discipline specific case studies.	
CO4	Develop critical thinking and problem-solving skills in the context of Indian knowledge systems.	

Unit No.	Title of Units and Contents	No of Hours
I	Overview of IKS - Survey of IKS Domains: A broad overview of disciplines included in the IKS, and historical developments. - Sources of IKS knowledge, classification of IKS texts, - a survey of available primary texts, translated primary texts, and secondary resource materials. Differences between a sutra, bhashya, karika, and vartika texts. Fourteen/eighteen vidyasthanas, tantrayukti - Vocabulary of IKS: Introduction to Panchamahabhutas, concept of a sutra, introduction to the concepts of non-translatables (Ex. dharma, punya, aatma, karma, yagna, shakti, varna, jaati, moksha, loka, daana, itihaasa, puraana etc.) and importance of using the proper terminology. Terms such as praja, janata, loktantra, prajatantra, ganatantra, swariva, surajya, rashtra, desh. - Philosophical foundations of IKS: Introduction to Samkhya, vaisheshika and Nyaya - Methods in IKS: Introduction to the concept of building and testing hypothesis using the methods of tantrayukti. Introduction to pramanas and their validity, upapatti; Standards of argumentation in the vada traditions (introduction to concepts of vaada, samvaada, vivaada, jalpa, vitanda). Concept of poorvapaksha, uttarapaksha.	15
II	Case Studies (Few of these may be selected as appropriate) - Mathematics of Madhava, Nilakantha Somayaji - Astronomical models of Aryabhata - Wootz steel, Aranumula Mirrors, and lost wax process for	10

	bronze castings • Foundational aspects of Ayurveda • Foundational aspects of Ashtanga yoga • Foundational aspects of Sangeeta and Natva Shastra • Discipline Specific Case Study	
III	India and the World: Influence of IKS on the world, knowledge exchanges with other classical civilizations. and inter-civilizational exchanges	5

References:

1. An Introduction to Indian Knowledge Systems: Concepts and Applications, B Mahadevan, V R Bhat, and Nagendra Pavana R N; 2022 (Prentice Hall of India).
2. Indian Knowledge Systems: Vol I and I, Kapil Kapoor and A K Singh; 2005 (D.K. Print World Ltd).
3. The Beautiful Tree: Indigenous India Education in the Eighteenth Century. Dharampal, Biblia Impex, New Delhi, 1983. Reprinted by Keerthi Publishing House Pvt Ltd. Combatore, 1995.
4. Indian Science and Technology ni the Eighteenth Century, Dharampal. Delhi: Impex India, 1971. The British Journal for the History of Science.
5. The Wonder That Was India, Arthur Llewellyn Basham, 1954, Sidgwick& Jackson.
6. The India they saw series (foreigner visitors on India ni history from 5CE to 17th century), Ed. Meenakshi Jain and Sandhya Jain, Prabhat Prakashan

F.Y.B.A. LOGIC SEMESTER I (GE/OE)		
Title of the course and course code	LOG120: Traditional Logic – Syllogistic Reasoning	Number of credits: 2
Course Outcomes		
CO1	Comprehend the nature and scope of logic; identify the types and structure of reasoning	
CO2	Differentiate between Inductive and Deductive Inference	
CO3	Distinguish between valid and invalid forms of reasoning	
CO4	Evaluate arguments to identify errors in reasoning	
CO5	Build arguments using valid and invalid forms	

Unit No.	Title of Units and Contents	No. of Lectures
I	Logical Reasoning – Definition, Nature and Scope Understanding Basic Concepts – Argument, Inference, Proposition, Truth, Validity and Soundness Deductive and Inductive Inference Traditional Classification of Propositions Nature and Classification of Categorical Propositions	15
II	Immediate Inference Traditional Square of Opposition Conversion, Obversion and Contraposition Mediate Inference – Rules and Formal Fallacies Categorical Syllogism Disjunctive Syllogism Hypothetical Syllogism Dilemma	15

Learning resources:

1. Irving Copi, Karl Cohen and Kenneth M'cmohan, *Introduction to Logic*, 15th Edition, Pearson
2. Patrick J. Hurley, *A Concise Introduction to Logic*, 11th Edition, Wadsworth Cenage Learning
3. Chhanda Chakraborti, *Logic – Informal, Symbolic and Inductive*, 2nd Edition, PHI Learning

F.Y.B.A. PHILOSOPHY SEMESTER II (MAJOR CORE)

Title of the course and course code	PHI-150: Introduction to Greek Philosophy	Number of credits: 2
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Course Outcomes

CO1	Trace the historical development of Greek thought from Mythos to Logos
CO2	Understand the earliest trends of Natural Philosophy
CO3	Apply the Socratic method in the Philosophical discourse
CO4	Engage into conceptual and historical analysis of ideas and theories
CO5	Critically appraise Greek philosophical theories

Unit No.	Title of Units and Contents	No. of Lectures
I	The Pre-Socratic Philosophers -Thales, Anaximander, Anaximenes- Cosmology -Heraclitus: Doctrine of Flux -Parmenides: Doctrine of Being, Zeno's Paradoxes -Pythagoras: Harmony of Spheres -Democritus (Atomism)	15
II	Sophists and Socrates -Protagoras and Gorgias (Relativism and Skepticism) -Socrates: Virtue is Knowledge and its critique, Socratic Method, Need for Critical Inquiry - Reading of Selected sections of <i>Crito</i> , <i>Apology</i> , <i>Meno</i> , <i>Symposium</i>	15

Learning resources

1. W T Stace, A Critical History Of Greek Philosophy, Macmillan Martin's Press, 1969.
2. W, K.C. Guthrie, The Greek Philosophers From Thales To Aristotle, Methuen and Co. LTD. London, 1967
3. Copleston, F. J., A History of Philosophy, Image Books Edition, 1962: (Volume 1)
4. Guthrie, W. K. C. (1969). The Sophists. London: Cambridge University Press.
5. O'connor, D. (1985). *Critical History of Western Philosophy*.

F.Y.B.A. PHILOSOPHY SEMESTER II (MAJOR CORE)		
Title of the course and course code	PHI-151: Foundations of Philosophy – II	Number of credits: 4
Course Outcomes		
CO1	Describe art and discuss the relation between art and morality.	
CO2	Distinguish between the basic metaphysical approaches in the Indian and the Western tradition and explain the basic ethical concepts in both the Indian and the Western tradition.	
CO3	Apply the basic ethical approaches to particular cases.	
CO4	Differentiate between moral and non-moral values.	

Unit No.	Title of Units and Contents	No. of Lectures
I	Metaphysics (Western) Monism, Dualism, Pluralism, Idealism, Materialism, Realism, Democritus, Plato, Descartes Metaphysics (Indian) Charvaka materialism, Buddhist concept of reality, Sankhya dualism, Jaina Pluralism, Advaita Vedanta monistic Idealism	20
II	Ethics (Western) (Basic concepts and theories) 1) Nature of Ethics, Need for Ethics 2) Basic concepts in Ethics: Good, Right, Duty, Justice 3) Theoretical approaches: Consequentialism, Deontology 4) Theoretical approaches: Egoism, Hedonism	15
III	Ethics (Indian) 1) Concepts of Ruta, Runa, Preyas, Shreyas and Nihshreyas 2) Theory of Purusharthas: Introduction 3) The concept of Dharma, Classification of Dharma 4) The Law of Karma, Classification of karma	15
IV	Aesthetics Concept of Beauty, Nature of Art, Art and Morality, Concepts of Rasa and Bhava (Bharatmuni's Natyashastra)	10

Learning resources:

1. Kedarnath Tiwari: *Classical Indian Ethical Thought*; Motilal Banarsidas, Delhi, 1998.
2. H.H. Titus: *Ethics for Today*, Eurasia Publishing House Pvt. Ltd., New Delhi, 1966.
3. William Lillie: *An Introduction to Ethics*, Allied Publishers Limited, New Delhi Indian Edition, 2001).
4. William Frankena: *Ethics*, Prentice Hall of India, New Delhi, 1993.

5. Titus H. H.: *Living Issues in Philosophy: An Introductory Text Book*, Eurasia Publishing House Pvt. Ltd., New Delhi, 1968.
6. Datta and Chatterjee: *An Introduction to Indian Philosophy*, University of Calcutta, Calcutta, 2008.
7. John Hospers: *Introduction to philosophical Analysis*, Allied Publishers, Bombay, 1975

F.Y.B.A. PHILOSOPHY SEMESTER II (MINOR)		
Title of the course and course code	PHI-160 : Philosophy of Religion	Number of credits: 2
Course Outcomes		
CO1	Identify and describe the difference between Philosophy of Religion and Theology.	
CO2	Assess the role of the concept of God in Religion as a practice and various religious doctrines.	
CO3	Identify the similarities and differences in Indian and Western Religious concepts and philosophical issues that follow.	

Unit No.	Title of Units and Contents	No. of Lectures
I	Introduction to Philosophy of Religion Concepts of Religion and Dharma Difference between Philosophy and Theology, Reason, Revelation and Faith	4
II	Concept of God and Proofs for existence of God Judeo-Christian Tradition - Ontological argument, cosmological argument, teleological argument, Indian Schools - Yoga, Nyaya, Jain, Carvaka	12
III	Religion and Philosophy of Religion Religions without God (Jainism, Buddhism, Mimamsa), Religion as Social Institution, Comparative Religion - views by Dr. B. R Ambedkar, Swami Vivekananda, Freud/Marx	14

Learning resources:

1. Hospers J. (2017). *An Introduction to Philosophical Analysis* (Chapter 7). Routledge.
2. Nye M. (2003). *Religion: The basics* (Chapter 5). Routledge.
3. Galloway G. (1951). *The Philosophy of Religion*. T & T Clark.
4. Hick J. H. (2006). *Philosophy of Religion*. Prentice-Hall of India.
5. Datta & Chatterje. (2012). *An Introduction to Indian Philosophy*. Routledge.
6. Ambedkar B.R. (1974). *The Buddha and his Dhamma*. Siddharth Prakashan.
7. Selections from the Complete works of Swami Vivekananda, Advaita Ashrama, Mayavati, Himalayas, 1998.
8. Freud S. On Religion. <https://iep.utm.edu/freud-r/>

F.Y.B.A. PHILOSOPHY SEMESTER II (GE/OE)		
Title of the course and course code	PHI-170: Philosophy of Religion	Number of credits: 2
Course Outcomes		
CO1	Identify and describe the difference between Philosophy of Religion and Theology.	
CO2	Assess the role of the concept of God in Religion as a practice and various religious doctrines.	
CO3	Identify the similarities and differences in Indian and Western Religious concepts and philosophical issues that follow.	

Unit No.	Title of Units and Contents	No. of Lectures
I	Introduction to Philosophy of Religion Concepts of Religion and Dharma Difference between Philosophy and Theology, Reason, Revelation and Faith	4
II	Concept of God and Proofs for existence of God Judeo-Christian Tradition - Ontological argument, cosmological argument, teleological argument, Indian Schools - Yoga, Nyaya, Jain, Carvaka	12
III	Religion and Philosophy of Religion Religions without God (Jainism, Buddhism, Mimamsa), Religion as Social Institution, Comparative Religion - views by Dr. B. R Ambedkar, Swami Vivekananda, Freud/Marx	14

Learning resources:

9. Hospers J. (2017). *An Introduction to Philosophical Analysis* (Chapter 7). Routledge.
10. Nye M. (2003). *Religion: The basics* (Chapter 5). Routledge.
11. Galloway G. (1951). *The Philosophy of Religion*. T & T Clark.
12. Hick J. H. (2006). *Philosophy of Religion*. Prentice-Hall of India.
13. Datta & Chatterje. (2012). *An Introduction to Indian Philosophy*. Routledge.
14. Ambedkar B.R. (1974). *The Buddha and his Dhamma*. Siddharth Prakashan.
15. Selections from the Complete works of Swami Vivekananda, Advaita Ashrama, Mayavati, Himalayas, 1998.
16. Freud S. On Religion. <https://iep.utm.edu/freud-r/>

F.Y.B.A. LOGIC SEMESTER II (MINOR)		
Title of the course and course code	LOG-160: Traditional Logic – Syllogistic Reasoning	Number of credits: 2
Course Outcomes		
CO1	comprehend the nature and scope of logic; identify the types and structure of reasoning	
CO2	Differentiate between Inductive and Deductive Inference	
CO3	Distinguish between valid and invalid forms of reasoning	
CO4	Evaluate arguments to identify errors in reasoning	
CO5	Build arguments using valid and invalid forms	

Unit No.	Title of Units and Contents	No. of Lectures
I	Logical Reasoning - Definition, Nature and Scope Understanding Basic Concepts - Argument, Inference, Proposition, Truth, Validity and Soundness Deductive and Inductive Inference Traditional Classification of Propositions Nature and Classification of Categorical Propositions	15
II	Immediate Inference Traditional Square of Opposition Conversion, Obversion and Contraposition Mediate Inference - Rules and Formal Fallacies Categorical Syllogism Disjunctive Syllogism Hypothetical Syllogism Dilemma	15

Learning resources:

1. Irving Copi, Karl Cohen and Kenneth M'cmohan, Introduction to Logic, 15th Edition, Pearson
2. Patrick J. Hurley, A Concise Introduction to Logic, 11th Edition, Wadsworth Cenage Learning
3. Chhanda Chakraborti, Logic – Informal, Symbolic and Inductive, 2nd Edition, PHI Learning

F.Y.B.A. LOGIC SEMESTER II (GE/OE)		
Title of the course and course code	LOG-170: Introduction to Methodology of Science	Number of credits: 2
Course Outcomes		
CO1	Understand the significance of Logic in Methodology of Science	
CO2	Describe the nature and characteristics of science	
CO3	Classify sciences into natural and social, pure and applied, etc.	
CO4	Illustrate theories, laws and explanations in Natural Sciences	

Unit No.	Title of Units and Contents	No. of Lectures
I	Nature and Objectives of Science History of Science Commonsense and Science Classification of Sciences Inductive Method and the Problem of Induction Method, Methodology and Epistemology	15
II	Nature of Scientific Theories Nature of Scientific Law Nature of Scientific Explanations Objectivity and Science	15

Learning resources:

1. Irving Copi, Karl Cohen and Kenneth M'cmohan, *Introduction to Logic*, 15th Edition, Pearson
2. Earnst Nagel, *The Structure of Science*, Harcourt, Brace & World, 1961
3. Hempel, Carl, *Philosophy of Natural Science*, Prentice Hall, 1966

F.Y.B.A. PHILOSOPHY SEMESTER II (SEC)		
Title of the course and course code	PHI-190: SEC- Elements of Non-Formal Reasoning	Number of credits: 2
Course Outcomes		
CO1	Distinguish between fallacious and non-fallacious reasoning	
CO2	Identify the fallacies in reasoning in the ordinary discourse	
CO3	Explain the nature of causal reasoning	
CO4	Identifying fallacies of emotional reasoning	

Unit No.	Title of Units and Contents
I	- Inductive Arguments – Causal Reasoning -Direct and Indirect Causes, Necessary and Sufficient Causes, Mill's Methods -Errors in Causal Reasoning
II	-Understanding Non-formal fallacies of reasoning -Logic-Based Therapy- Fallacies of emotional reasoning

Learning Resources

1. Sen, M. (2010). *An Introduction to Critical Thinking*. Pearson Education India.
2. Thomson, A. (2009). *Critical Reasoning: A Practical Introduction*. Routledge.
3. Hitchcock, David, "Critical Thinking", *The Stanford Encyclopedia of Philosophy* (Winter 2022 Edition), Edward N. Zalta & Uri Nodelman (eds.), URL = <https://plato.stanford.edu/archives/win2022/entries/critical-thinking/>.
4. Tittle, P. (2011). *Critical Thinking: An Appeal to Reason*. Routledge.
5. Cohen, E. D. (2016). *Logic-Based Therapy and Everyday Emotions: A Case-Based Approach*. Lexington Books.