Anekant Education Society's

Tuljaram Chaturchand College, Baramati

(Autonomous)

Four-Year B.A. Degree Program in Philosophy & Logic

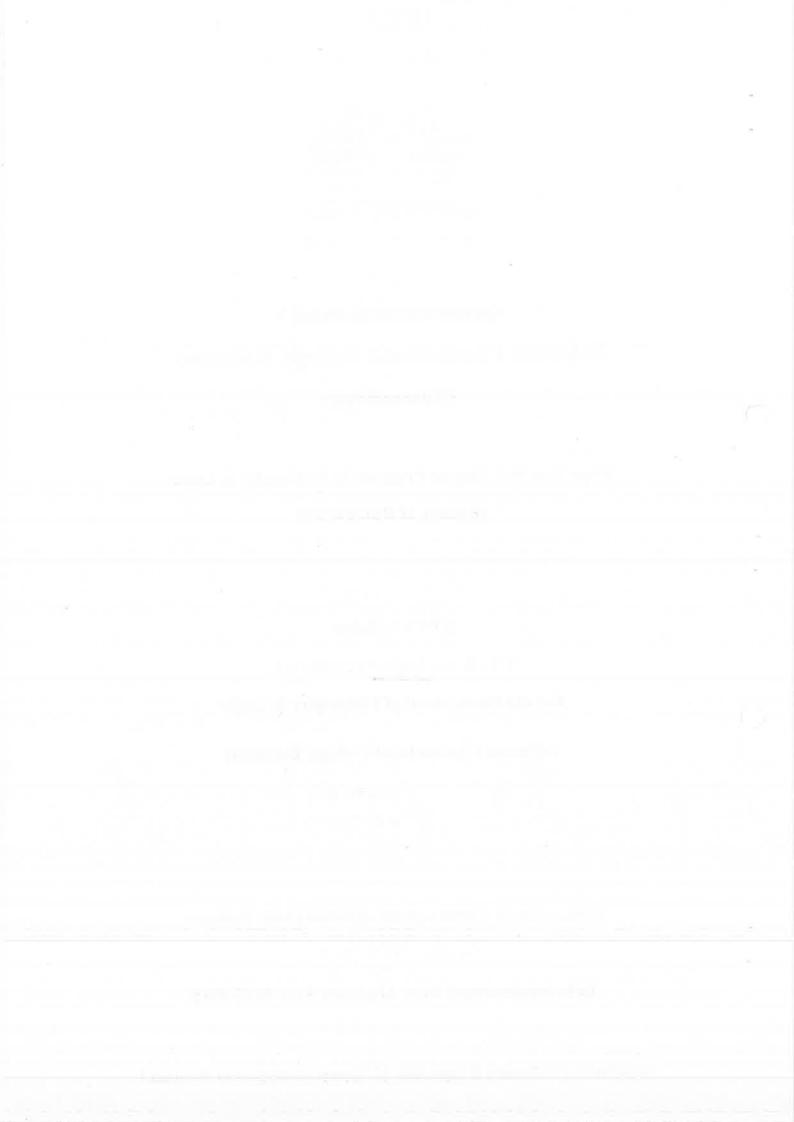### (Faculty of Humanities)

CBCS Syllabus

T.Y. B. A. (Logic) Semester - V

For the Department of Philosophy & Logic

Tuljaram Chaturchand College, Baramati

Choice-Based Credit System Syllabus (2023 Pattern)

(As Per NEP 2020)

To be implemented from Academic Year 2025-2026

Title of the Programme: T.Y.B.A. (Philosophy)

Preamble

AES's Tuljaram Chaturchand College has decided to change the syllabus across various faculties from June 2023 by incorporating the guidelines and provisions outlined in the National Education Policy (NEP), 2020. The NEP envisions making education more holistic and effective and emphasizes integrating general (academic) education, vocational education, and experiential learning. The NEP introduced holistic and multidisciplinary education that would help to develop the intellectual, scientific, social, physical, emotional, ethical, and moral capacities of the students. The NEP 2020 envisages flexible curricular structures and a learning-based outcome approach for the development of students. By establishing a nationally accepted and internationally comparable credit structure and courses framework, the NEP 2020 aims to promote educational excellence, facilitate seamless academic mobility, and enhance the global competitiveness of Indian students. It fosters a system where educational achievements can be recognized and valued not only within the country but also in the international arena, expanding opportunities and opening doors for students to pursue their aspirations on a global scale.

In response to the rapid advancements in science and technology and the evolving approaches in various domains of Philosophy and related subjects, the Board of Studies in Philosophy & Logic at Tuljaram Chaturchand College, Baramati - Pune, has developed the curriculum for the first semester of F.Y.B.A. Philosophy & Logic which goes beyond traditional academic boundaries. The syllabus is aligned with the NEP 2020 guidelines to ensure that students receive an education that prepares them for the challenges and opportunities of the 21st century. This syllabus has been designed under the framework of the Choice Based Credit System (CBCS), taking into consideration the guidelines set forth by the National Education Policy (NEP) 2020, LOCF (UGC), NCrF, NHEQF, Prof. R.D. Kulkarni's Report, Government of Maharashtra's General Resolution dated 20th April and 16th May 2023, and the Circular issued by SPPU, Pune on 31st May 2023.

A degree in Philosophy & Logic equips students with the knowledge and skills necessary for a diverse range of fulfilling career paths. What do we believe and why do we believe it? Who are we, and why are we here? What ought we to do and why should we do it? Philosophy encourages critical and systematic inquiry into fundamental questions of right and wrong, truth and falsehood, the meaning of life, and the nature of reality, knowledge, and society. More than any other discipline, philosophy explores the core issues of the intellectual tradition. It encourages a student to formulate questions and follow arguments. The discipline provides excellent preparation for law school and other professional programs, thereby creating a solid foundation for a career in Teaching, Writing, and editing in Publishing Houses, Public Services, Philosophical Counselling, Public relations, Journalism, and Research

Overall, revising the Philosophy & Logic syllabus under the NEP 2020 ensures that students receive an education that is relevant and comprehensive, and prepares them to navigate the dynamic and interconnected world of today. It equips them with the knowledge, skills, and competencies needed to contribute meaningfully to society and pursue their academic and professional goals in a rapidly changing global landscape.

Programme Specific Outcomes (PSOs)

Program Specific Outcomes (PSOs) for B.A. Philosophy & Logic

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 organization of the content.

    (iii) Explore various branches of Philosophy and their interrelations.

PSO2. **Personal and Professional Competence:**

    (i) Process information logically to come up with their position on a certain topic.

    (ii) Analyse a problem from an interdisciplinary perspective

PSO3. **Research Competence:**

    (i) Critically evaluate approaches, theories, positions, norms, and values.

    (ii) Analyse concepts and trace their historical development.

    (iii) Logically assess the arguments about their comparative strengths and weaknesses

PSO4. **Entrepreneurial and Social Competence:**

    (i) Identify ethically relevant issues in contemporary life and deliberate on 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.

PSO5. **Disciplinary knowledge:** Comprehensive knowledge and understanding of the subject areas, engagement with different philosophical systems, both Indian and Western, and application of knowledge in practice encompassing multidisciplinary or multi-professional areas

PSO6. **Communications skills:** The Quality of public speaking that conveys ideas and information in various interactions with people. The effectiveness of the discourse, the clarity of ideas, and empowering the students to provide a positive contribution in achieving a common goal

PSO7. **Creative and critical thinking:** Ability to analyze and identify relevant assumptions, hypotheses, implications, or conclusions; understand and formulate logically correct arguments and understand various aspects of the arguments put forward by philosophers regarding fundamental concepts such as existence, substance, causation, mind, truth, beauty, and justice

PSO8. **Self-directed learning:** Ability to work independently, to prepare for living and learning in a digital world, and to search relevant resources for self-learning to upgrade knowledge in philosophy.

PSO9. **Moral and ethical competency:** Inculcating a lasting habit to make a global citizen and engaging in any work of life with honesty, sincerity, and responsibility towards humanity as a whole.

PSO10. **Effective Citizenship and Ethics:** Demonstrate empathetic social concern and equity-centered national development; ability to act with an informed awareness of moral and ethical issues and commit to professional ethics and responsibility.

PSO.11. **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.

PSO12. **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.

Anekant Education Society's
Tuljaram Chaturchand College, Baramati
(Empowered Autonomous)

Board of Studies (BOS) in Philosophy & Logic
From 2025-26 to 2027-28

Sr. No.	Name	Designation
1.	Mr. Krushnat Nagare	Chairman
2.	Dr. Shridhar Akashkar	Vice-Chancellor Nominee
3.	Dr. Navnath Raskar	Experts from other University
4.	Dr. Balasaheb Mulik	Experts from other University
5.	Dr. Anuradha Bhosale Dewan	Industry/ Corporate Sector Representative
6.	Mr. Rushikesh Yadav	Alumni
7.	Mr. Sagar Kadam	Student Representative

CBCS Syllabus as per NEP 2020 for TYBA Philosophy
(w. e. from June 2025)

Name of the Programme : B.A. Logic
Program Code : LOG
Class : T.Y.B.A.
Semester : V
Course Type : Minor
Course Name : Symbolic and Propositional Logic
Course Code : LOG-311-MN
No. of Lectures : 60
No. of Credits : 04

Course Objectives:

1. To introduce students to the foundational concepts of Symbolic and Propositional Logic.
2. To develop skills in formal reasoning using logical symbols and syntactic rules.
3. To enable students to analyze logical structures through truth tables and logical equivalences.
4. To familiarize students with Predicate Logic and the principles of quantification.
5. To enhance deductive reasoning skills through formal proof methods.
6. To introduce basic Set Theory and its applications in logical systems.
7. To provide a strong foundation for advanced logic, mathematics, and philosophy studies.

Course Outcomes (COs)

CO1. Understand the basic concepts and structure of Symbolic and Propositional Logic.
CO2. Apply truth table methods to evaluate logical statements and arguments.
CO3. Recognize and utilize logical equivalences and fundamental laws of logic.
CO4. Translate ordinary language statements into symbolic notation using Predicate Logic.
CO5. Demonstrate proficiency in applying deductive proof techniques.
CO6. Analyze relationships between logical systems and Set Theory.
CO7. Develop critical thinking and reasoning skills applicable to various fields.

Semester V - LOG-311-MN: Symbolic and Propositional Logic

Unit No.	Topics & Learning Points	No. of Hours
1	**Introduction to Propositional Logic** A. Introduction and Importance of Logical Symbols. B. Modern Classification of Propositional Logic: Simple, Compound & General. C. Modern Classification of Propositions compare Compare with traditional classification.	12
2	**Truth Tables of Compound Propositions** A. Shorter Truth Table Method B. Truth Tree Method C. Dissociation decision method	12
3	**Predicate Logic and Quantification Theory** A. Introduction to Predicate Logic B. Universal (U.I.) and Existential (E.I.) Quantifiers C. Universal Gen.. (U.G.) & Existential Gen.. (E.G.) Quantifiers	12
4	**Rules of Deductive Proofs** A. Rules of Inference B. Direct and Conditional Proof Methods C. Indirect Proof Methods	12
5	**Relational Logic** A. Nature and structure of relational proposition B. Symbolization of relational propositions C. Properties of dyadic relations	12

Recommended Books for Reading

1. Copi, I. M. – Introduction to Logic, Macmillan, New York.
2. Hurley, P. J. – A Concise Introduction to Logic, Wadsworth Publishing.
3. Quine, W. V. – Methods of Logic, Harvard University Press.
4. Jeffrey, R. C. – Formal Logic: Its Scope and Limits, McGraw-Hill.
5. Lemmon, E. J. – Beginning Logic, Chapman and Hall.
6. कवळे एस. आर., गोळे लीला – सुगम आकारिक तर्कशास्त्र, पुणे विद्यार्थी प्रकाशन.
7. संतोष ठाकरे – तर्कशास्त्र, कुंभ प्रकाशन, अमरावती.
8. डॉ. सुनील भोईटे – तर्कशास्त्र पारंपरिक आणि सांकेतिक.
9. डॉ. बी. आर. जोशी, प्रा. कुलकर्णी, मठवाले – तर्कविद्या भाग १ व २.
10. डॉ. चौगुले, प्रा. फरतारे – आधुनिक तर्कशास्त्र, शिवाजी विद्यापीठ, कोल्हापूर.

11. श्रीनिवास दीक्षित – तर्कशास्त्र.
12. वाडेकर दे. द. – तर्कशास्त्राची मूलतत्त्वे.

Choice-Based Credit System Syllabus (2023 Pattern)

(As Per NEP 2020)

Mapping of Program Outcomes with Course Outcomes

Class: TYBA (Sem V) **Subject:** Logic
Course: Symbolic and Propositional Logic
Course Code: LOG-311-MN

Weightage: 1 = Weak or low relation, 2 = Moderate or partial relation, 3 = Strong or direct relation

Programme Outcomes Mapping

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO1	3	2	1	3	1	2	1	2	2	1
CO2	3	2	1	3	1	3	1	2	3	1
CO3	3	2	1	3	1	3	1	2	3	1
CO4	3	2	1	3	1	3	1	2	3	1
CO5	3	2	1	3	1	3	1	2	3	1
CO6	3	2	1	3	1	3	1	2	3	1
CO7	3	3	2	2	1	3	3	2	3	2

Justification for the Mapping

CO1: PO1 – Analytical and conceptual understanding of logical structures: strong relation. PO4 – Understanding foundations aids research formulation: strong relation. PO6 & PO9 – Supports problem-solving and digital analysis: strong. PO2 & PO8 – Improves communication and values through clarity in logical reasoning: moderate.

CO2: PO1, PO4, PO6, PO9 – Core logical evaluation skill: strong links.
PO2 – Needed to express logical results clearly: moderate.

CO3: PO1, PO4, PO6 – Directly related to core logical skills.PO9 – Use of software/tools for checking equivalences: strong link.PO2 & PO8 – Reasoning reflects in clarity and ethical objectivity.

CO4: PO1, PO4, PO6, PO9 – Strong logical skill; helpful in reasoning and modelling.
PO2 & PO8 – Encourages clarity and truthful expression.

CO5: PO1, PO4, PO6, PO9 – Core logic components essential for problem solving and data analysis. PO2 – Communicating proofs: moderate relation.

CO6: PO1, PO4, PO6, PO9 – Analytical and abstract thinking required; critical for advanced reasoning. PO2 & PO8 – Helps in structured presentation and objective understanding.

CO7: PO1, PO2, PO4, PO6, PO9 – Strong relation with all intellectual, communicative, and technological skills. PO7, PO8, PO10 – Helps in teamwork, ethics, and societal application of logical skills.