

**Anekant Education Society's
Tuljaram Chaturchand College of Arts, Science & Commerce, Baramati,
Dist- Pune (MS)
(Autonomous College)**

**Department of Logic
Syllabus
Course Structure for F.Y.B.A. Logic**

Semester	Paper Code	Title of Paper	No. of Credits
I	LOG 1101	TRADITIONAL LOGIC (DUCTIVE LOGIC)	3
II	LOG 1201	TRADITIONAL LOGIC (INDUCTIVE LOGIC)	3

Syllabus

Course Structure for F.Y.B.A. Logic (w.e. form June, 2019)
Academic Year 2019 – 2020

Class : F.Y.B.A. (Semester- I)

Paper: I Title of Paper: LOGIC AND PRINCIPAL OF REASONING

Paper Code: LOG1101

Credit: 3

No. of Lectures: 48

(60 - 40 pattern to be Implemented from 2019-2020)

OBJECTIVES:-

To explain the basic principles of correct reasoning and to provide students ample scope to exercise their reasoning based on the above principle

Semester- I TRADITIONAL LOGIC (Deductive Logic)

Credit 1: Logic as the study of Inference:

A. Introduction to logic as branch of philosophy

B. Concept of logic, Utility of logic

C Types of logic: Western, Indian

1. Western: Induction and Deduction

2. Indian: Theories of Pramanas ;Carvaka, Buddhism & Nyaya : The importance
Of Anumana Pramana, Jaina theory of Syadvada.

Credit 2:- classification Propositions.

A. Deductive and Inductive branches of logic

B. Difference between

1) Proposition and sentence;

2) Proposition and prepositional form;

3) Argument and argument form

C. Categorical Propositional, Conditional Proposition

D. Distribution of Terms of A.E.I.O. Propositions

Credit 3:- Inference and Fallacies

A. Immediate Inference

- 1) Opposition of propositions
- 2) Eduction – Conversion and Obversion

B. Mediate Inference

- 1) Categorical Syllogism (Nature, General Rules)
- 2) Figures and Moods of Syllogism

C. Fallacies

- 1) Concept of Fallacy
- 2) Types of Fallacies
- 3) Formal fallacies and Non-formal fallacies

Course Structure for F.Y.B.A. Logic (w.e. form June, 2019)

Academic Year 2019 – 2020

Class : F.Y.B.A. (Semester- II)

Paper: I Title of Paper: LOGIC AND PRINCIPAL OF REASONING

Paper Code: LOC 1201

Credit: 3 No. of Lectures: 48

(60 - 40 pattern to be Implemented from 2019-2020)

Objectives:

- 1. To introduce Symbolic Logic as an academic discipline to students.**
- 2. To teach students to acquire pleasures in logical thinking.**

Semester- II TRADITIONAL LOGIC (Indeductive Logic)

Unit 1: A; Nature and kinds of inductive inference

- 1. Simple enumeration**
- 2. Analogy**
- 3. Scientific induction**

B: Grounds of induction

- 1. Principles of causality and uniformity of nature**
- 2. Observation- Characteristics, fallacies**
- 3. Experiment- Merits and Demerits**

Unit 2: Hypothesis

- A. Definition and Nature of Hypothesis**
- B. Conditions of valid Hypothesis**
- C. Verification and proof of Hypothesis**

Unit 3: Laws of Nature and Explanation

- A. Meaning and types of Laws**
- B. Kinds of Laws of Nature**
- C. Scientific Explanation- Kinds of scientific Explanation**

Book Recommended

- 1. Symbolic logic (4thed.) I. M. Copi.**
- 2. Formal logic : scope and limits**
- 3. Quine w.v.o; methods of logic (relevant chapters)**
- 4. More .Hema; TarkasastraNimittaPrakashanpune 1995**
- 5. टाकारिक तर्कशास्त्र —मे. पु. रेगे.**
- 6. तर्कविद्या भाग १, २ डॉ. बी.आर जोशी, प्रा. कुलकर्णी, प्रा. मठवाले**
- 7. आधुनिक तर्कशास्त्र —नांगरे, डॉ.चौगुले, प्रा. फरतारे (शिवाजी वि. कोल्हापूर)**
- 8. तर्कशास्त्र —श्रीनिवास दिक्षीत**
- 9. तर्कशास्त्राची मूलतत्त्वे—वाडेकर दे. द.**
- १० सुलभ तर्कशास्त्र —प्रा. मुकुंदकदम**
- ११ पारंपारिक तर्कशास्त्र —नांगरे, फडतारे, चौगुले, हिरवे, बाघमोडे**
- १२ तत्वज्ञान स्वरूप व समस्या—पी. डी. चौधरी**