

**UG Semester – 1, Multidisciplinary Course,
Philosophy, Paper Code – MDC
Credit – 03, Full Marks -75, Pass Marks – 30
Introduction to Logic & Reasoning**

Unit – 1

Logic – Nature and Definition, Induction and Deduction, Arguments – Nature and Structure, Truth and Validity

Unit – 2

Propositions: Nature and structure, Kinds of Propositions – According to Quality and Quantity, Distribution of Terms, Opposition of Propositions – Contradictory, Contrary, Subcontrary, Subaltern, Square of Opposition

Unit – 3

Syllogism – Categorical Syllogism, Mood and Figures, Rules and Fallacies

Unit – 4

Symbolic Logic – Truth-function, Conjunction, Disjunction, Implication, Negation, Truth tables

Unit -5

Induction: Nature of Scientific Induction, Problem of induction, Analogy, Hypothesis – Characteristics, Conditions and Kinds

Objectives: This paper is of multidisciplinary nature, and thus its main objective is to introduce students beyond disciplinary boundaries with nature, concepts, methods, applications of logic and logical thinking in problem-solving in real life situations.

Outcome: The main expected outcome of studying this Paper is that the students belonging to different disciplinary domains will be able to understand major concepts, rules and methods of logical reasoning and critical thinking. This outcome would not be confined to theoretical contexts, instead it is basically set to be applied in problem-solving in real life situations.

Suggested Readings:

I M Copi:

Introduction to Logic

A K Verma:

Saral Nigman Tarkashastra

11/8/23
Ronikda
11.08.2023

11.08.2023

11/08/2023

11.08.2023