

# PHIL: 21

## LOGIC

- Unit – I : Basic Concepts**
- (a) What is Logic?
  - (b) Sentences, Judgements, Statements and Propositions
  - (c) Arguments
  - (d) Truth, Validity and Soundness
- Unit – II : Definition**
- (a) Kinds of Definition
  - (b) Concept of Denotation and Connotation
  - (c) Denotative, Connotative and Ostensive Definitions
  - (d) Rules for Definition by genus and Difference
- Unit – III : Fallacies**
- (a) Fallacy: formal and Informal
  - (b) Fallacies of Relevance
  - (c) Fallacies of Presumption
  - (d) Fallacies of Ambiguity
- Unit – IV : Deduction**
- (a) Classification of Propositions and Square of Opposition
  - (b) Categorical Syllogism
  - (c) Laws of Thought
- Unit – V : Symbolic Logic**
- (a) Logical Constants and Variables
  - (b) Truth Functions: Negation, Conjunction, Disjunction, Implication, Equivalence
  - (c) Tautology, Contradictory and Contingent
  - (d) Techniques of Symbolization and Construction of Truth Tables

### Suggested Readings:

1. Irving M Copi and Carl Cohen, *Introduction to Logic* (Tenth Edition), Pearson Education Pvt. Ltd., Delhi 2001.
2. L. S. Stebbing, *A Modern Introduction to Logic*, London, Methuen, (Sixth Edition) 1984.
3. M. R. Cohen and E Nagel, *Introduction to Logic and Scientific Method*. Allied Publishers Pvt. Limited, New Delhi, Second Edition, 1972.
4. O' Conner, D. J. and Basson, A. H., *Symbolic Logic*, Oxford University press, fourth Edition, 1981.
5. M. R. Cohen and E Nagel, *Introduction of Logic*, Routledge & Kegan Paul Ltd., London 1966.
6. Chhanda Chakraborty, *Logic: Informal Symbolic and Inductive* (2<sup>nd</sup> edition) Printice-Hall of India Private Limited, New Delhi, 2007 Hall.