

## **Major V**

## **LOGIC AND SCIENTIFIC METHOD – I**

### **Unit - 1**

Definition and Scope of Logic , Utility of Logic, Laws of thought , Logic and Psychology, Logic and Metaphysics.

### **Unit –2**

Judgement , Proposition, Four-fold Classification, Reduction of Sentences to Logical Form, Distribution of Terms, Euler’s Circles, Connotation, Denotation and their relation.

### **Unit – 3**

Immediate Inference – Opposition, Conversion and Obversion.

### **Unit – 4**

Rules of Categorical Syllogism – Figures, Moods, Formal Fallacies and Venn diagram.

### **Unit – 5**

Mixed Syllogism – Hypothetical Syllogism, Disjunctive Syllogism and Dilemma.

### **Books for Study**

1. Irving M.Copi, Introduction of Logic 4<sup>th</sup> ed.
2. Bholonath Roy, Text book of deductive Logic
3. T.M.P. Mahadevan, Introduction to Logic
4. T.N.Ganapathi, Invitation to Logic