**CC II: LOGIC AND SCIENTIFIC METHOD**

Unit-I:

Definition of Logic, Laws of Thought, Deductive and Inductive Arguments, Validity Soundness of Arguments.

Unit-II:

Classification of Propositions (from stand-point of Quality & Quantity), Distribution of Terms, Square of oppositions, Existential Import of Propositions, Interpretation of categorical proposition.

Unit-III:

Inference- Immediate Inference (Conversion and Obversion), Mediate Inference (Syllogism): Figure & Moods, Testing of Validity of Arguments by syllogistic Rules.

Unit-4:

Inductive Reasoning & Scientific Enquiry: Causation & Mills Experimental Methods.

Prescribed Book:

1. Cohen& Nagel- Introduction to Logic & Scientific Method.

Reference Book:

1. Copi, Cohen & Mac Mahan- Introduction to Logic (14th Edition)

2. Alex Rosenberg- Philosophy of Science: A Contemporary Introduction

3. John Hospers: An Introduction to Philosophical Analysis.