

Type/Status : Core
Course Code : PHIL E1025
Title : Logic & Scientific Method

Learning Outcomes

At the end of the course unit the students will enhance their skills in both traditional and modern logical thinking, major scientific Methods and able to analyze contemporary philosophical approaches on science.

Course Content

- Nature of Logic and scope of the subject. Traditional Logic. Interference, Terms, Propositions, the Laws of thought, Modern Symbolic Logic. Validity of an Argument. Direct and Indirect Truth Table Methods. Derivation Method. Fallacies.
- Introduction to Scientific Methods, History of Science, Clarification of Sciences, Theories of Prediction and Scientific Methods, Carl popper, Thomas Kun, Paul Fairyband

Method of Teaching and Learning

Lectures, discussions, presentation, tutorials, and assignment.

Scheme of Evaluation

At the end of the semester 80% for the written examination; **20%** for the assignment, presentation and tutorials.

Recommended Reading

Ackotf R., (1953), The Design of Social Research, Chicago.

Ayer, A.J., (1936), Language Truth and Logic, Victor Gouancz Ltd, London.

Shama D.A.V; Ravindra D, Prasad and stay P., (1989), Research Method in Social Sciences, New Delli.

Suppes Patrick., (1957), Introduction to Logic, D. Van Nostrand Company, New York.