

SKILL ENHANCEMENT COURSE (SEC)
DEPARTMENT OF PHILOSOPHY, GAUHATI UNIVERSITY

LOGIC AND REASONING

Credits: 3 (Marks: 75)

Semester : III

Unit No.	Unit Content	No. of Classes	Marks
I (Theory)	- Deductive and Inductive Arguments - Kinds of Deductive Inference: mediate and immediate inferences - Syllogism in Ordinary Language (Enthymemes, Sorites, Deductive and Hypothetical Syllogisms, Dilemma)	15	25
II (Theory)	Informal Fallacies A. Fallacies of Relevance: R1 ARGUMENT <i>ADPOPULUM</i> (The Appeal to Emotion) R2 THE RED HERRING R3 THE STRAW MAN R4 ARGUMENT <i>ADHOMINEM</i> (Argument against the Person) R5 ARGUMENT <i>ADBACULUM</i> (The Appeal to Force) R6 <i>IGNORATIOELENCHI</i> (Missing the Point) B. Fallacies of Defective Induction: D1 ARGUMENT <i>ADIGNORANTIAM</i> (The Argument from Ignorance) D2 ARGUMENT <i>ADVERECUNDIAM</i> (The Appeal to Inappropriate Authority) D3 ARGUMENT <i>NON CAUSA PRO CAUSA</i> (False Cause) D4 Hasty Generalization C. Fallacies of Presumption P1 Accident P2 Complex Question P3 <i>PETITIO PRINCIPII</i> (Begging the Question) D. Fallacies of Ambiguity A1 Equivocation A2 Amphiboly A3 Accent A4 Composition A4 Division	15	25
III (Practical)	-Naming the fallacy involved in the argument -Explanation of why/how the argument commits the fallacy	02 08	25

a. **Reading list:**

Unit I & Unit II (Theory)

Chakraborti, Chhanda (2007). *Logic—Informal, Symbolic & Inductive*, Prentice Hall of India Private Limited, New Delhi

Copi, I.M. & Carl Cohen (2009), *Introduction to Logic* (Thirteenth Edition), Pearson Prentice hall.

Unit III (Practical)

Copi, I.M. & Carl Cohen (2009), *Introduction to Logic* (Thirteenth Edition), Pearson Prentice hall.

b. **Graduate Attributes**

i) **Course Objectives-**

The Course aims at develop the traits and skills to:

- Learn what is an argument in logic.
- Understand how arguments are divided into deductive and inductive.
- Enable the student to find out the kinds of deductive arguments
- Learn syllogism in ordinary language.
- Develop logic al rigour in discovering various fallacies involved in ordinary language.

ii) **Learning outcomes:**

At the completion of the Course the student is expected to be able to:

- Identify logical fallacies in day-to-day conversations and argumentations.
- Avoid committing fallacies.
- Provide well-reasoned arguments in any discourse.

j. Theory Credit 02

k. Practical Credit 01

l. No. of Required Classes 45

m. No. of Non-Contact Classes 00

n. Particulars of Course Designer (Jahnabi Deka, Ph.D., Gauhati University, jahnabideka@gauhati.ac.in)