



Code	Subject Title	Cr. Hrs	Semester
COMM-309	Logic & Critical Thinking (Commerce)	3	VI
Year	Discipline		
3	Commerce		

1. Basic logic:

What is logic, propositions, Arguments, Deductive and inductive Arguments, Validity and truth.

2. Paraphrasing and Diagramming Arguments:

Paragraphing, Diagramming, Interwoven Arguments

3. Categorical Propositions:

The theory of Deduction, Classes and Categorical positions, the four kinds of Categorical propositions,

Quality, Quantity, and Distribution

The traditional square of Opposition, contradictories, contraries, subcontraries, subalternation, The Square of opposition, conversion, obversion, contraposition, existential import and interpretation, symbolism and Diagrams for categorical syllogisms.

4. Categorical Syllogisms:

Terms of the Syllogism- Major, Minor, and Middle,

The mode of the Syllogism, The figure of the Syllogism, The form nature of Syllogistic Argument, Venn Diagram Technique for testing Syllogisms, Syllogism rules and Syllogistic Fallacies.

Exposition of the 15 valid Forms of the Categorical Syllogism

5. Symbolic Logic:

Modern logic and Symbolic Language, The symbols for Conjunction, Negation and Disjunction, unction, Argument Forms and refutation by logical Analogy, The Precise meaning of “Invalid” and “Valid” ,Testing Argument Validity on truth tables, Some Common Argument forms, Statement forms and material Equivalence.

6. Truth Trees:

Rules of Inference, valid inference, double denial, The Tree Test, Reading Counterexamples off the finished Tree, Satisfiability, Common misconception Adequacy of the Tree Test, Deduction Trees.

7. The context of arguments: Critical Thinking

Disagreement and Controversy, Aims of critical thinking, Uses of Language, Challenging premises, competing arguments, application,

Informal Fallacies:

Fallacies, Fallacies of Ambiguity, Fallacies of Presumption, Fallacies of Irrelevance, Sophistries and Diversions, Avoiding Ambiguity: definition, rules for definition, kind of definition

Books Recommended:

1. Copi, Irving, M. Introduction of Logic, 12th ed. New York: MacMillan, n.d
2. Huxley, Patrick, J. A Concise introduction to Logic, 8th ed Wadworth/Thomson Learning 10 Davis: Belmont, USA
3. Richard Jeffrey, Formal logic Mc Gaw – Hill book company New York 1989
4. Paul, Richard and Elder, Linda. (2006) *Critical Thinking Tools for Taking Charge of Your Learning and Your Life*, New Jersey: Prentice Hall Publishing.