

HAILEY COLLEGE OF COMMERCE

UNIVERSITY OF THE PUNJAB, LAHORE

Course Title: **Logic and Critical Thinking**

Proposed Course Code: BSC-305

Credit Hours: 03

Program: BS Commerce

Semester: 5th**1.0 Introduction of the Course****2.0 Pre-Requisites Course (s) or Other Requirements/Skills:****3.0 Course Learning Outcomes**

1. The purpose of this course is to provide knowledge on critical thinking and concepts that are suitable for Business and Commerce Students. The topics covered in this introductory course can be employed in all disciplines of commerce like finance, marketing, accounting etc. The course accompanies learning and practicing logic in marketing and business.

4.0 Course Learning Outcomes**5.0 The Course carries following objectives:****Unit No.-I****1.1 Introduction of philosophy****1.1.1 What is Philosophy, branches of philosophy, Epistemology, metaphysics, axiology**

(students will be able to understand basic concepts of philosophy)

Unit No.-II**2.1 Nature of Logic:****2.1.1 What is logic, propositions, Arguments, Deduction and Induction, Truth and validity.**

(students will be able to distinguish between truth and validity and basic terminology of logic)

Unit No.-III**3.1 Categorical propositions:**

- 3.1.1 Theory of Deduction, Classes and Categorical propositions, Kinds of categorical Propositions, Quality, Quantity, and Distribution, The traditional Square of opposition, conversion, obversion, Contraposition, Existential import and interpretation of Categorical propositions.

(students will be able to how they can convert their reasoning during any dealing in business)

Unit No.-IV**4.1** Categorical Syllogisms:

4.1.1 Standard-Form Categorical Syllogism, The formal Nature of syllogistic Arguments, Venn Diagram Technique for testing Syllogisms, Syllogistic Rules and Syllogistic Fallacies, Exposition of the 15 valid Forms of the Categorical Syllogism.

(Students will be able to understand the different syllogistic fallacies)

Unit No.-V**5.1** Symbolic Logic:

5.1.1 Modern logic and its Symbolic Language, Value of special Symbols, Symbols for Conjunction, Negation, and Disjunction, Conditional statements, The precise Meaning of “Invalid” and “Valid”, Testing Argument Validity on Truth Table, Statement Forms and Material Equivalence, Logical Equivalence, The Three Laws of Thought.

(students will be able differentiate between valid and invalid thought truth table)

Unit No.-VI**6.1** The Context of Arguments:

6.1.1. Critical Thinking

6.1.2 Disagreement, and Controversy, Aims of Critical thinking, Uses of language, Challenging Premises, Competing Arguments, Applications,

(Students will be able to use language. Very important in business context)

Unit No.-VII**7.1** Informal Fallacies:

7.1.1 What is fallacy, formal and informal Fallacies of Ambiguity, Fallacies of Presumption, and Fallacies of Irrelevance., fallacy of irrelevance.

Unit No.-VIII**8.1** Science and Hypothesis:

8.1.1 Value of Science, Explanation: Scientific and Unscientific, Evaluation of scientific Explanation, Crucial Experiments and Adhoc Hypothesis, Classification of Hypothesis.

Unit No.-IX

9.1 Truth Trees**6.0 Teaching-Learning Strategies**

7.0 Assignments- Types and Number with calendar

8.0 Assessment and Examinations:

Mid-Term	Written Paper
Final Examination	Written Paper
Sessional	Quizzes and Tests, Assignment and Presentations, Attendance, Class Participations and Discipline etc.

9.0 Textbooks

In the detail course outline, one may mention chapters of the textbook with the content topic(s).

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

10. Suggested Readings**10.1 Books****10.2 Journal Articles/ Reports**