



Indraprastha College for Women University of Delhi

Work Plan for ODD SEMESTER – 2026

Course Name:	B. A. (H/P)
Paper Title:	Formal Logic
Unique Paper Code:	2104000007
Semester:	III
Faculty:	Mr. Surjeet Singh
Year:	2nd Year

Work Plan			
Unit No.	Learning Objective	Lecture No.	Topics to be Covered
1	To introduce the basic concepts of logic — proposition, categorical form, quality, quantity and distribution of terms — and to establish the distinction between truth and validity.	1-5	Sentence and proposition; classification of categorical propositions.
		6-9	Quality, quantity and distribution of terms; truth and validity.
2	To equip students to translate ordinary sentences into standard form and to test syllogistic arguments by the traditional square of opposition, immediate inference and the rules of the syllogism.	10-15	Translating ordinary sentences into standard form categorical propositions; traditional square of opposition; immediate inference — conversion, obversion, contraposition.
		16-21	Mediate inference: standard form categorical syllogism — mood and figure; testing validity by syllogistic rules.
3	To introduce the Boolean interpretation of categorical propositions and to test the validity of categorical syllogisms by Venn diagram.	22-27	Existential import and the Boolean interpretation of categorical propositions; Boolean square of opposition.
		28-33	Symbolic representation of categorical propositions; testing validity of syllogisms by Venn diagram.
4	To introduce propositional logic through truth functions and symbolization, and to establish	34-39	Importance of symbolic logic; logical constants, variables and basic truth functions; symbolization of statements.

	validity by the truth table method and reductio ad absurdum.		
		40-45	Logical status of statements — tautologous, contingent, contradictory; proving validity by truth table method and reductio ad absurdum.

Unit	Contents/Syllabus
I	Basic Logical Concepts: Sentence and Proposition; Classification of Categorical Propositions; Quality, Quantity and Distribution of Terms; Truth and Validity
II	Aristotelian Logic: Translating Ordinary Sentences into Standard Form; Traditional Square of Opposition; Immediate Inference; Mediate Inference — Mood and Figure; Testing Validity by Syllogistic Rules
III	Boolean Logic and Venn Diagram: Existential Import and the Boolean Interpretation; Boolean Square of Opposition; Symbolic Representation of Categorical Propositions; Testing Validity by Venn Diagram
IV	Propositional Logic: Importance of Symbolic Logic; Logical Constants, Variables and Truth Functions; Symbolization of Statements; Logical Status of Statements; Truth Table Method and Reductio ad Absurdum
S. No.	Name of Authors/Books/Publishers
1.	Copi, Irving M., Carl Cohen and Kenneth McMahon. Introduction to Logic. 14th ed. Pearson New International Edition, 2014. Ch. 1, pp. 2–5 and 27–31; Ch. 5, pp. 170–177.
2.	Copi, Irving M., Carl Cohen and Kenneth McMahon. Introduction to Logic. 14th ed. Pearson New International Edition, 2014. Ch. 7, pp. 259–268; Ch. 5, pp. 180–192; Ch. 6, pp. 211–216 and 230–240.
3.	Copi, Irving M., Carl Cohen and Kenneth McMahon. Introduction to Logic. 14th ed. Pearson New International Edition, 2014. Ch. 5, pp. 193–206; Ch. 6, pp. 219–230.
4.	Copi, Irving M., Carl Cohen and Kenneth McMahon. Introduction to Logic. 14th ed. Pearson New International Edition, 2014. Ch. 8, pp. 305–327, 332–334 and 343–345.

	Paper Components		
Credits	Lecture (L)	Tutorial (T)	Practical (P)
4	1	1	0
Assessment Scheme			
S.No.	Component	Marking Scheme	Total Marks
1	Internal Assessment - Assignment - Class Test - Attendance	30	30
		12	
		12	
		6	
2.	Continuous Assessment (Tutorial) - Activity 1 - Activity 2 - Attendance	40	40
		20	
		15	
		5	
3.	Practical - Continuous Assessment - End Term Written/Practical Exam - Viva		NA
4.	End Semester Examination		90