



LECTURE PLAN ON : WESTERN LOGIC- 2

Philosophy (Hons.) Semester-4- Under CBCS
Paper: PHIA- CC9

Class	Content	Given	Faculty approach	Student activity	Learning Outcome
Class 1	Introduction: What is Symbolic Logic?	Reference book: Introduction to Logic; Copi & Cohen	Explains	Listens	Underst anding
2	Distinction between traditional logic and symbolic logic.				
3.	The value of special symbols				
Class 4.	Truth- Functions and its types What is truth function?	Some Study materials	Explains and Narrates with suitable board work	Listens	Underst anding
5.	Distinction between truth function and non- truth function				
6.	Definition of three truth-functions by symbolically - Negation, Disjunction, & Conjunction				
Class 7.	Implication and its types What is implication? Definition of 4 types of implication.	Some Study Materials	Explains and Narrates with suitable board work	Listens	Underst anding
8.	What is material implication?				
9.	Paradoxes of material implication				
10.	Distinction between material implication and other implications				
Class 11.	Equivalence: Definition of equivalence	Some Reference books: Symbolic Logic: Copi	Board work	Listens and writes	Underst and
12.	Material and Logical equivalence				

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Class	The method of Truth -table:	Reference Book: Symbolic Logic; Copi	Board work	Comprehends	Analyzes
13.	Inter definability of truth functors by truth table method				
14.	Definition of Stroke -dagger functions by other truth functions				
15	Determining the logical character of statement and statement-form by truth table method				
Class	Testing argument and Argument form by Truth-table method:	Some Study Materials	Explains and Narrates with suitable board work	Listens	Understanding
16	What is argument? Distinction between argument and argument form				
17.	Testing argument form for validity by truth table method.				
18	Testing argument for validity by truth table Method.				
Class	Method of Resolution	Some references books: Methods of Logic; W.V.O. Quine	Explains with suitable board works	Comprehends	Analyzes
19.	State the rules of resolution				
20	Determining the logical character of schema by method of resolution				
21	Testing argument for validity by method of resolution				
Class	The Method of Deduction	Some study materials	Explains and Narrates with suitable board work	Comprehends	Understanding
22.	Definition of formal proof of validity				
23.	State the rules of inference				
24.	Application of nine rules of inference				
25.	State the rules of replacement				
26.	Application of ten rules of replacement				
27.	Difference between rules of inference and rules of replacement				

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Class	Construction of Formal Proof of Validity				
28.	Validity proof of argument by nine rules of inference				
29.	Exercise solved for formal proof of validity by using nine rules				
30.	Exercise solved for formal proof of validity by using nine rules	Reference Book: Introduction to Logic: Copi	Explains	Comprehends	Analyze
31.	Validity proof of argument by nineteen rules				
32.	Exercise solved for formal proof of validity by using nineteen rules				
33.	Exercise solved for formal proof of validity by using nineteen rules				
Class	Invalidity Proof	Soms Study Materials.	Explains	Listen and write	Understanding
34.	Definition of invalid argument				
35.	Proof of invalidity by assignment of truth table method				
36.	Exercise solved for invalidity proof				
Class	Quantification Theory	Some Study Materials	Explains with formulation	Listen and write	Understanding
37.	Need for quantification theory				
38.	What is quantifier?				
39.	Universal and Existential quantifier				
40.	Propositional functions and quantifiers				

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Class	Rules of Quantification	Few reference books	Explains	Listen and write	Underst anding
41.	State the rules of quantification-UI, EI, UG, EG, QN.				
42.	Application of rules of quantification				
Class	Proving Validity:	Few study materials	Explains	Listen and write	Underst anding
43.	Proving validity for arguments involving quantifiers				
Class	Proving invalidity:	Some Study Materials	Explains and Narrates with suitable board work	Writes	Underst anding
44.	Proving invalidity for arguments involving quantifier				
Class	University question answer discussion		Explains	Solves different questions	Apply
45-47					

(SHIBANI SAHA)

_____ (SIGNATURE OF THE SUBJECT TEACHER)