Mahatma Gandhi University
Kottayam

Programme	**BA(Hons) Philosophy**					
Course Name	**INTRODUCTION TO SYMBOLIC LOGIC**					
Type of Course	DSC B					
Course Code	**MG3DSCPHL202**					
Course Level	**200-299**					
Course Summary	Understanding the basics and applications of symbolic logic					
Semester	3	Credits			4	Total Hours
Course Details	Learning Approach	Lecture	Tutorial	Practical	Others	
		3		1	0	75
Pre-requisites, if any	None					

COURSE OUTCOMES (CO)

CO No.	Expected Course Outcome	Learning Domains *	PO No
1	Understand the basic concept in symbolic logic	U	1
2	Remember the basic difference between the Traditional logic and symbolic logic	K	1
3	Analyse and apply Truth table techniques	An	1, 2
4	Apply rules of inference in Arguments	E	1, 2

Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S), Interest (I) and Appreciation (Ap)

COURSE CONTENT

Content for Classroom transaction (Units)

Module	Units	Course description	Hrs	CO No.
1	1	Logic and language-Three basic functions of language-Emotively -neutral language	6	1
	2	Symbolic Logic and Traditional Logic	5	1
	3	Advantages of Symbolization.	5	1
2	1	Statement Variables-Logical Constants- Truth function-Truth Value	7	2
	2	Truth and Validity-Truth-tables. Truth functional compound statement	6	2
	3	Conjunction-Negation-Disjunction Implication-Material Equivalence.	6	2
3	1	Truth-table technique for problem solving- Statement and Statement forms	7	3

	2	Tautology, Contradictory, Contingent. Argument and Argument forms	7	3
	3	Testing the validity or invalidity of Argument forms using Truth-tables	6	3
4	1	Shorter Truth table technique for proving the Invalidity of Arguments	6	4
	2	Formal Proof of Validity (Method of Deduction)- Rules of Inference (9 Rules)- Their application	7	4
	3	Structure of Formal Proof of Validity	7	4
5		Teacher specific content: This can be either classroom teaching, practical session, field visit etc., as specified by the teacher concerned. This content will be evaluated internally.		

Teaching and Learning Approach	**Classroom Procedure (Mode of transaction)** Problem solving, Discussion, Lecture.
Assessment Types	**MODE OF ASSESSMENT** **A. Continuous Comprehensive Assessment (CCA) 30 marks** **Test paper** **Assignment/viva/seminar/Quiz/course activity report/Record Book**
	B. End Semester Examination (ESE) 70 marks **Written examination 2hrs**

Type	No of questions	Mark	Total marks
A part -short answers	8/12	2	16
B part -short essays	6/10	5	30
C part - Essay	2/4	12	24
Total			70

SUGGESTED READINGS

I. M Copi, Symbolic Logic (5th edition)

I.M.Copi and Carl Cohen, Introduction to Logic

Channda Chakraborti, Logic- Informal, Symbolic and Inductive