

Programme: M.A. (Philosophy)

Course Code: PHI-524

Title of the Course: Symbolic Logic

Number of Credits: 4

Effective from AY: 2022-23

Pre-requisites for the Course:	A course in Logic.	
Course Objective:	To understand the method of conditional proof and indirect proof as well as the principles of quantification.	
Content:	<ol style="list-style-type: none">1. Conditional Proof and Indirect Proof.2. Proof of Tautologies.3. Testing of quantified arguments.4. Demonstrating logical truths involving quantifiers.	<div>15 hours</div> <div>10 hours</div> <div>20 hours</div> <div>15 hours</div>
Pedagogy:	Lectures/ tutorials.	
References/ Readings:	<ol style="list-style-type: none">1. I. M. Copi, <i>Symbolic Logic</i>. New Jersey: Pearson Publishers, 2005.2. I. M. Copi & C. Cohen, <i>Introduction to Logic</i>. USA: Macmillan, 2012.3. P. Suppes, <i>Introduction to Logic</i>. New York: Dover Publications, 1999.4. William Gustafson & Dolph E Ulrich, <i>Elementary Symbolic Logic</i>. USA: Waveland Press, 1989.	
Course Outcomes:	<ol style="list-style-type: none">1. Testing of arguments and tautologies by using the method of conditional proof.2. Testing arguments and tautologies by using the method of indirect proof3. Using the method of quantification to prove the validity of arguments.4. Demonstrating logical truths by using quantification.	