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Walpola Sri Rahula (1974), What the Buddha Taught, Grove Press, New York.

Keywords: Pratītya-samutpāda, Astāṅga-mārga, Nirvāṇa, Anātma-vāda, Pañcaśīla, Brahma Vihāras

Symbolic Logic DSE 6

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		

Symbolic Logic	4	3	1	Nil	None	None
DSE 6						

Course Objectives

1. This paper aims to develop the student's skill in logic through more intensive engagement
2. The paper will emphasize on skills in proofs and derivation in propositional and quantificational logic and modal logic
3. In this paper students will learn the logic of relations in addition to quantification theory
4. The paper is designed to help students understand the power of a deductive theory and also the importance of the notion of deduction

Learning Outcomes

After completing this course students are expected to be able to do the following:

1. Learn the various principles and methods of natural deduction and also modal logic.
2. Through the use of its special symbols, this course (advanced logic) helps as an instrument for analysis and deduction.
3. It helps in constructing symbolic forms of both sentential as well as predicate logic and modal logic.

Unit 1: Natural Deduction

(3 Weeks, 9 hours)

1. Relevance of Symbolic Logic
2. Formal proof of validity: Rules of Inference and Rules of Replacement
3. Techniques for proving validity/invalidity: Conditional Proof and Indirect Proof
4. Proofs of Tautologies

Unit 2: Quantification Theory

(4 weeks, 12 hours)

1. Symbolization of Singular, General and Multiply-general propositions
2. Restrictions on Quantifier Rules:
 - (a) Special Restriction on UG (b) Special Restriction on EI
3. Derivations with Conditional Proof and Indirect Proof
4. Proving invalidity

Unit 3: The Logic of Relations

(3 weeks, 9 Hours)

1. Symbolization: Relation
2. Some attributes of relations
3. Predicate Variables and Attributes of Attributes.

Unit 4: Modal Logic

(5 weeks, 15 hours)

1. Arguments involving modals
2. Symbolizing Modalities
3. Formal Systems

Essential Recommended Readings: -

1. Copi, I.M. *Symbolic Logic*, 5th edition. India: Pearson, 2008. Ch1- 5
2. Copi, Irving M. *Introduction to logic*. 6th Ed. New York London: Macmillan Collier Macmillan, 1982. Ch1.
3. Girle, Rod (2009). *Modal Logics and Philosophy*, Acumen Publishing, Chapter 1 “Argument and Modality” and 2 “A Simple Modal Logic”

Suggestive Readings:

- Hurley, Patrick J. *A concise introduction to logic*. Boston, MA: Wadsworth Cengage Learning, 2012.
- Sen, Madhucchanda. *Logic*. Delhi: Pearson, 2008.
- Jetli & Prabhakar. *Logic*. India: Pearson, 2012

Key Words: Symbols & Symbolizations, Formal Proof, Tautology, Conditional Proof, Quantification, Logic of Relation.

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course Title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the Course (If any)
		Lecture	Tutorial	Practical		
Philosophy of Mind DSE-7	4	3	1	0	None	None

1. Course Objective: · The course will introduce students to the basic problems in philosophy of mind
2. The course is designed to equip the students with significant philosophical standpoints that have historically emerged on the mind/body problem
3. Students will develop the skill to analyse and evaluate the theoretical perspectives about the nature of mind and its relation to the world.

Learning Outcomes:

1. Students will analyse and evaluate different perspectives about the nature of mind.
2. They will develop an understanding of the nature of subjective experiences relative to a person's material properties and processes.
3. They will be analysing the debates on the nature of consciousness. They would examine the explanatory gap and evaluate whether the naturalistic explanation leaves 'qualia', the qualitative aspects of experience, unexplained'
4. The course would help the student to develop an interest in the contemporary debates in cognitive sciences.