Semester Lecture Plan

Name of the college: Government College of Arts, Science and Commerce, Sanquelim Goa	

Name of Faculty: Shubha Kamat	**Subject:** Computer Science

Paper code: CSC201 Mathematical Foundation for Computer Science	**Program/Course:SYBSc**	**Division:**

Academic year: 2024 - 2025	**Semester: III**	**Total Practicals: 15 of 2 hrs each**

Week	Practical
1 2	Constructing truth Table for given Propositional Expressions Identifying tautologies, contradictions and contingent statements Writing program to evaluate propositional expressions.
3 4	Translating English sentences into predicate logic. Determining the validity of predicate logic expressions. Implementing program to evaluate predicate logic statements.
5 6	Working with sets and performing set operations. Analysing properties of Binary relations. Implementing closure operations on relations.

7	Identifying types of functions from given examples. Solving problems related to graph representations. Implementation of basic graph algorithms.
8	
9	
10	Practising different types of proofs by construction, contradiction and Induction. Proving theorems
11	
12	Applying Mathematical Foundations to solve real world problem.
13	
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15	

Practical Exam at semester end : 25 marks