

## COURSE PLAN AND EVALUATION PLAN

1. Course Code: MCA603
2. Course Title: Discrete Mathematical Structures
3. L-T-P: 3-0-0
4. Credits: 3
5. Pre-requisites: Nil
6. Course Instructor: Dr. S. S. Kamath
7. Teaching Department: Mathematical and Computational Sciences (M.A.C.S.)
8. Objective of the Course: Setting preliminaries towards applications of Discrete Mathematics to Computer Science and related areas.
9. Skill development expected from the student: Insight into applications of the subject in Computer Science and algorithms.

10. Course Coverage:

Stage	Contents	No. of hours (aprx)
1	Graph Theory	10
2	Combinatorics	6
3	Boolean Algebra	8
4	Formal Logic	10
5	Proof Techniques	6

11. Reference Books:
  1. Judith L. Gersting, Mathematical Structures for Computer Science, Freeman, 5<sup>th</sup> Edn.
  2. Kolman, Busby and Ross, Discrete Mathematical Structures, PHI
  3. J.P.Tremblay and R. Manohar, Discrete Mathematical Structures with applications to Computer Science, McGraw Hill, 1987
  4. Kenneth Rosen, Discrete Mathematics and its applications, TMH
  - 5.
12. Details of Tutorials: None

13. Evaluation Plan:

Test/Assignment/Quiz	Evaluation Plan	Weightage
Mid-Sem Test	Portions upto what has been covered till date. All questions are compulsory. Relative evaluation.	25%
End-Sem Test	Entire portions. All questions are compulsory. Relative evaluation.	50%
Quizzes/ Assignments	Quizzes are surprise tests and each student will get different question paper and short duration. Assignments in regular intervals on topics covered in the class.	25%