

Subject Code: 2SC1000324	Subject Title: Business Mathematics –III
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Course Objective:

This course is designed to enable students to acquire the understanding and practice the applications of Permutations and Combination and sequencing problem in real life situation in different organization.

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)					
Lecture	Tutorial	Practical	Credit	University Assessment		Institutional Assessment			Total
				Theory	Practical	Mid-term Examination Component	Continuous Evaluation Component	Practical Evaluation Component	
2	-	-	2	35	-	15	-	-	50

Subject Contents			
Unit No.	Topic	Total Hours	Weight (%)
1	Permutations and Combinations: [only examples] Fundamental rules of counting, Definition of Permutations and Permutation of n different things, Permutation of repeated things, Circular Permutation, Definition of Combination standard results and examples.	15	25
2	Sequencing Problem [only examples] : Methods of sequencing, Johnson's Algorithm for a two machine problem, three machine problem and M-machine problem.	15	25

Course Outcome:

- After successfully completion of the course, the student will be able to ...
- Understanding the application of logic and set theory.
- Know about the Business Application of Sequencing Problems.

List of References:

- 1) Business Mathematics. BY. D.C.Sancheti & V.K.Kapoor, Sultan Chad & Sons Publication, New Delhi.
- 2) Business Mathematics. by. B.S.Shah Prakashsan, Ahmedabad.
- 3) Operations Research , by. J.K.Sharma. Macmillan Publishers India Ltd.
- 4) Operations Research(Principles and Practice) by Pradeep Prabhakar Pai, Oxford University Press.