

<b>Subject Code: 1SC1000324</b>	<b>Subject Title: Business Mathematics –III</b>
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**Course Objective:**

This course is designed to enable students to acquire the understanding and practice the applications of logic, set theory and sequencing problem in real life situation in different organization.

Teaching scheme (hours) per week		credit		Theory Marks		Practical Marks		Total
Theory	Practical	Theory	Practical	University Assessment	Cont. Assessment	University Assessment	Cont. Assessment	
2	--	2	--	35	15	--	--	50

**Subject Contents**

Unit No.	Topic	Total Hours	Weight (%)
1	<p><b>Logic: [only examples]</b> Logical Statements, Truth table, Negation, Compound statements, Tautologies and Contradiction, Negation of Compound statements, Propositions, Conditional and Biconditional statements.</p> <p><b>Set Theory: [only examples]</b> Definition and methods of sets, types of sets, Venn diagrams, Operations on sets, De-Morgan's law, Finite and infinite sets.</p>	15	25
2	<p><b>Sequencing Problem [only examples] :</b> Methods of sequencing, Johnson's Algorithm for a two machine problem, three machine problem and M-machine problem.</p>	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.