

## **Programme: B. Sc Mathematics**

Semester III							
Self-Study Course	Foundation of Mathematics						
Code: 18UMASS1		Credits: +2					

## **Course Outcome**

CO.N o.	Upon completion of this course, students will be able to	PSO addresse d	CL
CO-1	gain enriched understanding of concepts of mathematicalsets, theory of sets, equivalent sets and cardinal number.	1	Un
CO-2	describe and explain the concepts of axiomatic method and euclidean geometry.	3	Un
CO-3	obtain a basic outline of a paradoxes in set theory, cantor'sparadox and russell's paradox.	1	Un
CO-4	differentiate advantages and disadvantages of the axiomaticmethod and genetic method.	3	An
CO-5	discuss the method of truth table and the predicate calculus.	3	Cr
CO-6	understand and analyze the concepts of axiomatic methodand the completeness of an axiom system.	6	Un
CO-7	construct geometry according to euclid, euclid's postulates and non-euclidean geometry	8	Cr
CO-8	analyze the notion of axiomatic method and formalaxiomatic method.	2	An

Criterion I

SSR Cycle V

Semester IV				
elf-Study Course Industrial Mathematics				
Code: 18UMASS2		Credit 2		

## **Course Outcome**

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	CO No	Upon completion of this course, students will be	PSO	CL
	0.110.	ableto	addresse	
	<b>GO</b> 1		d	
	CO-1	deviation.	1	Ev
Sec.	CO-2	apply basic operation to calculate frequencies.	3	Ар
	CO-3	make connections of mathematical ideas to other ideasboth inside of and outside of mathematics.	4	Ар
	CO-4	demonstrate mathematical skills in the area of conditionally probability.	6	Un
	CO-5	evaluate the consistency of data from a sample.	7	Ev
	CO-6	demonstrate the knowledge of probability and the standard statistical distributions.	7	Un
	CO-7	relate mean deviation and standard deviation.	3	Un
	CO-8	measure the association between two binary variables with yule's coefficient.	5	Ev

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SSR Cycle V