

COURSE STRUCTURE
CBCS Syllabus – M.Sc., Mathematics
(2021-22 onwards)

SEM	P	Title of the paper	S. Code	H/W	L	T	P	C	Marks			
									I	E	T	
I	DSC-I	Groups, Rings and Fields		5	4	1	-	4	40	60	100	
	DSC-II	Real Analysis I		5	4	1	-	4	40	60	100	
	DSC-III	MATLAB		5	4	1	-	4	40	60	100	
	DSC-IV	Ordinary Differential Equation		4	3	1	-	4	40	60	100	
	DSE-I		A-Differential Geometry		4	3	1	-	3	40	60	100
			B-Discrete Mathematics									
			C-Classical Mechanics									
P-I		MATLAB Practical		4	-	-	4	2	40	60	100/2	
IDC-I		Discrete Structure –I		2	2	-	-	2	40	60	100	
		Library Reading hour		1	-	-	-	-	-			
II	DSC-V	Topology		5	4	1	-	4	40	60	100	
	DSC-VI	Real Analysis II		5	4	1	-	4	40	60	100	
	DSC-VII	Graph Theory		5	4	1	-	4	40	60	100	
	DSC-VIII	LaTeX		4	3	1	-	4	40	60	100	
	DSE-II		A-Calculus of Variations and integral equations		4	3	1	-	3	40	60	100
			B- Java programming									
			C- Combinatorics									
P-II		LaTeX Practical		4	-	-	4	2	40	60	100/2	
SEC-II		MOOC NPTEL course		2	2	-	-	2	40	60	100	
		Library Reading hour	1									
III	DSC-IX	Linear Algebra		5	4	-	-	4	40	60	100	
	DSC-X	Measure Theory		5	4	1	-	4	40	60	100	
	DSC-XI	Research Methodology		5	4	1	-	4	40	60	100	
	DSC-XII	Optimization Technique		4	3	1	-	4	40	60	100	
	DSE-III		A-Mathematical Statistics		4	3	1	-	3	40	60	100
			B-Analytical Number Theory									
			C- Fuzzy set theory									
P-III		Optimization Technique in Java Programming		4	-	-	4	2	40	60	100/2	
IDC-2		Discrete Structure –II		2	2	-	-	2	40	60	100	
		Library Reading hour	1									
IV	DSC-XIII	Complex Analysis		5	4	1	-	4	40	60	100	
	DSC-XIV	Functional Analysis		5	4	1	-	4	40	60	100	
	DSC-XV	R- Programming		4	3	1	-	4	40	60	100	

	P	Project		8				4	40	60	100
	DSE-4	A-Partial Differential Equation		4	3	1	-	3	40	60	100
		B - Numerical Analysis									
		C- Representation theory of finite group									
	P-IV	R-Programming practical		4	-	-	4	2	40	60	100/2
			Total	120				90			2500

Employability = 11

Skill Development = 5

Entrepreneurship = 2