POST GRADUATE DEPARTMENT OF MATHEMATICS
CBCS SYLLABUS FOR M.Sc., MATHEMATICS
COURSE STRUCTURE
(Applicable for students admitted in June 2021 and onwards)

SEMESTER			II SEMESTER		
COURSE	H/W	C	COURSE	H/W	C
Groups, Rings and Fields	5	4	Topology	5	4
Real Analysis I	5	4	Real Analysis II	5	4
MATLAB	5	4	Graph Theory	5	4
Ordinary Differential Equation	4	4	LaTeX	4	4
DSE (A) Differential Geometry	4	3	DSE (A) Calculus of Variations and integral equations	4	3
DSE (B) Discrete Mathematics			DSE (B) Java programming		
DSE(C) Classical Mechanics			DSE(C) Combinatorics		
MATLAB Practical	4	2	LaTeX Practical	4	2
IDC-I-Discrete structure –I	2	2	SEC-(MOOC NPTEL Course)	2	2
Library Reading hour	1		Library Reading hour	1	
TOTAL	30	23	TOTAL	30	23
III SEMESTER			IV SEMESTER		
Linear Algebra	5	4	Complex Analysis	5	4
Measure Theory	5	4	Functional Analysis	5	4
Research Methodology	5	4	R –Programming	4	4
Optimization Technique	4	4	Project	8+4*	4
DSE(A)Mathematical Statistics	4	3	DSE (A) Partial Differential Equation	4	3
DSE(B) Analytical number theory			DSE (B) Numerical Analysis		
DSE(C)Fuzzy set theory			DSE(C) Representation theory of finite group		
Optimization Technique in Java Programming	4	2	R-Programming practical	4	2
IDC-II- Discrete structure – II	2	2			
Library Reading hour	1				
TOTAL	30	23	TOTAL	30	21

TOTAL NUMBER OF COURSES = 9