M Sc – Mathematics

(effective 2018 admissions onwards)
(Incorporating changes Introduced up to June 2019)
CURRICULUM

	SEMESTER 1						SEMESTER 2			
18MAT502	Advanced Algebra	400	4	A		18MAT511	Advanced Complex Analysis	400	4	A
18MAT503	Advanced Real Analysis	400	4	В		18MAT512	Advanced Topology	400	4	A
18MAT504	Ordinary Differential Equations	400	4	С		18MAT513	Partial Differential Equations	400	4	В
18MAT505	Stochastic Process	400	4	С		18MAT514	Measure Theory	400	4	С
18MAT581	Mathematics Lab	002	1	L1		18MAT515	Numerical Analysis	3 0 0	3	Е
	Elective I	3 0 0	3	Е		18MAT582	Numerical Computations Lab	0 0 2	1	L1
15CUL501	Cultural Education	200	P/ F	F		15AVP501	Amrita Values Programme	100	1	F
TOTAL							TOTAL		21	
	GEMEGRED 2						CEMECTED 4			
18MAT601	SEMESTER 3 Advanced Graph Theory	400	4	Α		18MAT611	SEMESTER 4 Operator Theory	400	4	A
18MAT602	Functional Analysis	400	4	B		TOWATOTT	Elective IV	300	3	E
18MAT603	Basic Fluid Dynamics	400	4	C		18MAT696	Dissertation	3 0 0	10	P
101/1111005	Elective II	300	3	D		101/1111000	TOTAL		17	
	Elective III	300	3	E			TOTAL		17	
18MAT691	Seminar	002	1	F		ТОТА	L FOR THE WHOLE		79	
15MAT690	Live-in-Lab / Open	200	2	J		1017		1)		
	Elective									
	TOTAL		21							
		EL EC	TTT	TEC ((C4				
	ALGEBRA STREAM	ELEC	,111	/ ES (a	any	y one Stream)) ANALYSIS STREAM	Г		
18MAT631		300	3	D/E		101/14/17/41		300	3	D/E
	Algebraic Geometry					18MAT641	Fixed Point Theory			
18MAT632	Algebraic Topology	3 0 0	3	D/E		18MAT642	Fractals	3 0 0	3	D/E
18MAT634	Coding Theory	3 0 0	3	D/E		18MAT643	Harmonic Analysis	3 0 0	3	D/E
18MAT635	Commutative Algebra	3 0 0	3	D/E		18MAT644	Nonlinear Partial Differential Equations	3 0 0	3	D/E
18MAT636	Lie Algebra	3 0 0	3	D/E		18MAT645	Wavelet Analysis	3 0 0	3	D/E
18MAT637	Theory of Manifolds	3 0 0	3	D/E		1004477646	M (1 (1 D)	3 0 0	3	D/E
18MAT638	Linear Algebra and its Applications	3 0 0	3	D/E		18MAT646	Mathematical Physics			
	STATISTICS STREAM					FL	LUID MECHANICS ST	REAM	[
18MAT651	Queuing Theory and Inventory Control Theory	3 0 0	3	D/E		18MAT661	Advance Boundary Layer Theory	3 0 0	3	D/E
18MAT653	Statistical Pattern Classifications					18MAT662	Computational Fluid Dynamics	3 0 0	3	D/E
18MAT654	Statistical Quality Control and Six Sigma Quality Analysis	3 0 0	3	D/E		18MAT663	Finite Element Methods	3 0 0	3	D/E

18MAT655	Theory of Sampling and Design of Experiments	3 0 0	3	D/E	18MAT664	Magneto-Hydro Dynamics	3 0 0	3	D/ E
18MAT656	Time Series Analysis	300	3	D/E	18MAT665	Mathematical Foundations of	3 0 0	3	D/ E
						Incompressible Fluid Flow			
18MAT657	Statistical Techniques For Data Analytics	300	3	D/E	18MAT666	Introduction to Fluid Dynamics	3 0 0	3	D/ E
COMPUTER STREAM									
18MAT671	Data Structures & Algorithms	3 0 0	3	D/E					
18MAT672	Algorithms For Advanced Computing	3 0 0	3	D/E					
18MAT673	Computer Aided Design of VLSI Circuits	300	3	D/E					
18MAT674	Cryptography	300	3	D/E					
18MAT675	Fuzzy Sets and its Applications	300	3	D/E					
18MAT676	Introduction to Soft Computing	300	3	D/E					
18MAT677	Object-Oriented Programming and Python	3 0 0	3	D/E					