DEPARTMENT OF MATHEMATICS

UNIVERSITY OF KASHMIR

(NAAC Accredited Grade A+ University)

Hazratbal Srinagar-190006 Jammu and Kashmir



Syllabus and Course Structure of 4-year Bachelor's Degree with Mathematics/Applied Mathematics as Major/Minor (NEP-2020)

Members of UG Board of Studies Dr. S. Pirzada Dr. N. A. Rather Dr. Mukhtar A. Khanday Dr. M. H. Gulzar Professor & Head Professor Professor Professor Department of Mathematics Department of Mathematics Department of Mathematics Department of Mathematics University of Kashmir University of Kashmir University of Kashmir University of Kashmir (Chairman) (Member) (Member) (Member) Dr. B.A Zargar Dr. Tariq A Chisti Dr. M.A. Mir Dr. Aijaz A. Bhat Professor Professor (Mathematics) Associate Professor Associate Professor Department of Mathematics Directorate of Distance Edu. Department of Mathematics Department of Mathematics University of Kashmir University of Kashmir ICSC, Hawal Srinagar University of Kashmir (Member) (Member) (Member) (Member) M. Hasen Shalm Prof. Mujeeb A. Kawoosa Prof. Mohammad Hasan Dr. Nisar A. Lone Associate Professor Sr. Assistant Professor Shahid Department of Mathematics JKIMS, Srinagar Department of Mathematics AS College, Srinagar (Member) Jamia Millia Islamia, New (Member) Delhi (Member) Dr. Farooq A. Sheikh Mr. Mudasir A. Bhat Dr. M. Iqbal Bhat **Assistant Professor** Assistant Professor Associate Professor Department of Mathematics Department of Mathematics Department of Mathematics GWC Nawakadal, Srinagar University of Kashmir-GDC (Boys), Anantnag (Special Invited Member) Special Invited Member) South Campus

(Special Invited Member)

(For Honor's Degree in Mathematics/Applied Mathematics & Honor's with Research mode)

	& Honor 5 with	n ixescaren moud	
Semester - I	Major: Calculus-I		
	(MMT122J)- 6 credits		
	Minor: Calculus-I		
	(MMT122N)- 6 Credits		
Semester – II	Major: Calculus-II		
	(MMT222J)-6 Credits		
	Minor: Calculus - II		
	(MMT222N)-6 Credits		
Semester – III	Major: Theory of Matrices		
	(MMT322J)- 6 Credits		
	Minor: Theory of Matrices		
	(MMT322N)- 6 Credits		
Semester –	Major: Real Analysis – I	Major: Geometry	Major: Theory of Numbers
IV	(MMT422J1)- 4 Credits	(MMT422J2)- 6 Credits	(MMT422J3)- 6 Credits
	Minor: Real Analysis - I		
	(MMT422N)- 4 Credits		
Semester - V	Major: Algebra – I	Major: Mathematical	Major: Fourier & Laplace
	(MMT522J1)-4 Credits	Modeling and Numerical	Transforms
	Minor: Algebra - I	Methods	(MMT522J3)- 6 Credits
	(MMT522N)-4 Credits	(MMT522J2) - 6 Credits	
Semester –	Major: Graph	Major: Differential	Major: Advanced Calculus
VI	Theory (MMT622J1)- 4	Equations	(MMT622J3)- 6 Credits
	Credits	(MMT622J2)- 6 Credits	
	Minor: Graph		
	Theory (MMT622N)- 4 Credits		
Semester –	Major: Linear Algebra	Major: Algebra-II	Major: Real Analysis –
VII	(MMT722J1)-4 Credits	(MMT722J2) (4+2)	II (MMT722J3)-
	Major: Linear Algebra	credits	6 Credits
	(MMT722N)-4 Credits		
Semester -	Major: Complex Analysis – I	Major: Metric	Major: Mathematical
VIII	(MMT822J1)- 4 Credits	&Topological Spaces	Statistics
	Minor: Complex Analysis – I	(MMT822J2)- 6 Credits	(MMT822J3)- 6 Credits
	(MMT822N)- 4 Credits		
For Research M			
Semester –	Major: Linear Algebra	Major: Algebra-II	Major: Real Analysis –
VII	(MMT722J4)-4 Credits	(MMT722J5)- (6) credits	II (MMT722J6)- (6) credits
Semester -	Major: Complex Analysis – I	Major: Research	**Project Dissertation
T 7777	(A SA STRONG VA) (A) G 1	3.6.1.1.1.*	(A SA STEROAD VP) (O) C 11

dicusein

VIII

(MMT822J1) - (4) Credits

TP. Homen Shaha)

Methodology*

ly,

Kam

(MMT822JP) - (8) Credits

Calina

(MMT822J2) - (4) Credits

her that