



Dr. Bhimrao Ambedkar University, Agra

A State University of Uttar Pradesh (Paliwal Park, Agra -282004)

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A Documentary Support
for
Matric No. – 1.1.1
Programme Outcomes & Course Outcomes

under the
Criteria – I
(Curriculum Design and Development)

Key Indicator - 1.1

in
Matric No. – 1.1.1

MASTER OF SCIENCE (MATH)

1981

Mapping:



Global need



Local Need



Regional



National


Registrar
Dr. B.R.A. University, Agra

NATIONAL EDUCATION POLICY-2020
Dr. B.R. AMBEDKAR UNIVERSITY, AGRA
PAPER CODING AND CREDIT DISTRIBUTION
M.Sc. (MATHEMATICS)

S.No.	Name of Degree	SEMESTER	TITLE OF PAPER	CREDITS	CODE NUMBER	
1	Bachelor (Research) of Science in Mathematics	VII	Abstract Algebra	5	B030701T	
			Real Analysis	5	B030702T	
			Ordinary Differential Equations	5	B030703T	
			Complex Analysis	5	B030704T	
			Introductory Statistical Methods (Minor For OTHER FACULTY)	4	B030705T	
			Research Project			
2		VIII	Inventory and Queuing Models	4	B030801T	
			Fluid Mechanics	4	B030802T	
			Computational Numerical Methods	4	B030803T	
			Fuzzy Mathematics	Choose Any one	4	B030804T
			History & Development of Indian Mathematics		4	B030805T
			Wavelet Analysis		4	B030806T
			Riemannian Geometry & Tensor Analysis		4	B030807T
	Computer Programing with C/C++		4	B030808P		
Research Project	8	B030809R				
One Minor Paper to be selected from OTHER FACULTY In VII or VIII Semester			4/5/6			
3	Master of Science in Mathematics	IX	Topology	5	B030901T	
			Operations Research	5	B030902T	
			Advanced Fluid Mechanics	5	B030903T	
			Financial Mathematics	Choose Any one	5	B030904T
			Computational Fluid Dynamics		5	B030905T
			Bio-Mathematics		5	B030906T
			Integral Equations & Boundary Value Problems		5	B030907T
			Research Project			
4		X	Functional Analysis	4	B031001T	
			Space Dynamics	4	B031002T	
			Calculus of Variations	Choose Any one	4	B031003T
			Coding Theory		4	B031004T
			Special Functions		4	B031005T
			Fractional Calculus		4	B031006T
	Mathematical Modelling		4	B031007T		
	Discrete Mathematical Structure		Choose Any one		B031008T	
	Cryptography				B031009T	
	Vedic/Ganita			4	B031010T	
Cosmology		B031011T				
Theory of Relativity		B031012T				
Computer Programming with MatLab (Problems of Operations Research and Problems of Numerical Methods)	4	B031013P				
Research Project	8	B031014R				

Students of Science Faculty may choose MINOR paper from Faculty of Commerce/ Arts, Humanities and Social Sciences/ Languages/Fine Art and Performing Art/Education/Rural Science.


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 05/11/2022

Programme Outcomes

PO1: Apply knowledge of Mathematics, in all the fields of learning including higher research and its extensions.

PO2: Innovate, invent and solve complex mathematical problems using the knowledge of pure and applied mathematics.

PO3: Provide opportunities in higher education and development on the professional front. It also gives the opportunity for career advancement in teaching, research, and industries.

PO4: Integration of Interdisciplinary thinking and practice.

PO5: Analyze a problem, identify and define the computing requirements with respect to organizational factors appropriate to its solution, and plan strategies for their solution.

PO6: Design, implement and evaluate information systems, processes, components, or programs and source cost-benefit efficient alternatives to meet desired needs, goals, and constraints.

PO7: Deploy and use effective skills, tools, and techniques necessary for information systems practice.

PO8: Most importantly, the program inculcates among the students the higher values which enable them to withstand the challenges of life.

PO9: Deploy and use effective skills, tools, and techniques necessary for information systems practice.

PO10. Effectively communicate about their field of expertise on their activities, with their peer and society at large, such as, being able to comprehend and write effective reports and design documentation.

Programme Specific Outcomes

PSO1. After successful completion of this program, the students would be able to apply knowledge of Mathematics, in all the fields of learning, including higher research and its extensions.

PSO2. To provide students with knowledge and capability in formulating and analysis of mathematical models of real-life applications.

PSO3. To provide comprehensive curriculum to groom the students into qualitative scientific manpower.

PSO3. Carry out development work as well as take up challenges in the emerging areas of the industry.

PSO4. Demonstrate competence in using mathematical and computational skills to model, formulate and solve real life applications.

PSO5. To provide students with a knowledge, abilities and insight in Mathematics and computational techniques so that they are able to work as mathematical professional.

PSO6. Crack lectureship and fellowship exams approved by UGC like CSIR - NET and SET/ISRO/DRDO.

PSO7. Victorious in getting employment in different areas, such as industries, laboratories, Banks, Insurance Companies, Educational/Research institutions, Administrative positions, since the impact of the subject concerned is very wide.

PSO8. Encourage personality development skills like time management, crisis management, stress interviews and working as a team.