

# BABU BANARASI DAS UNIVERSITY, LUCKNOW

## M. Sc. Mathematics

### Course Structure

Course	Code	Title	Teaching			Evaluation				Credits	
						Theory		Lab/Seminar/ Viva Voce/ Thesis			Total
			L	T	P	CIA	ESE	CIA	ESE		
<b>SEMESTER – I</b>											
Core	MM 1101	Algebra	3	1	-	40	60	-	-	100	4
Core	MM1102	Real Analysis	3	1	-	40	60	-	-	100	4
Core	MM 1103	Topology	3								4
Core	MM 1104	Ordinary and Partial Differential Equations	3	1	-	40	60	-	-	100	4
Core	MM 1105	Computer Programming in C	3	1	-	40	60	-	-	100	4
											<b>20</b>
<b>SEMESTER – II</b>											
Core	MM 1201	Advance Algebra	3	1	-	40	60	-	-	100	4
Core	MM1202	Advance Real Analysis	3	1	-	40	60	-	-	100	4
Core	MM 1203	Functional Analysis	3								4
Core	MM 1204	Discrete Mathematics	3	1	-	40	60	-	-	100	4
Core	MM 1205	Numerical Analysis	3	1	-	40	60	-	-	100	4
											<b>20</b>
<b>SEMESTER – III</b>											
Core	MM 1301	Complex Analysis	3	1	-	40	60	-	-	100	4
Core	MM1302	Special Functions	3	1	-	40	60	-	-	100	4
Core	MM 1303	Differential Geometry of Manifolds	3	1	-	40	60	-	-	100	4
Core	MM 1304	Mathematical Methods	3	1	-	40	60	-	-	100	4
DSE		Discipline Specific Elective - I	3	1	-	40	60	-	-	100	4
Lab	MM S13	Seminar	-	-	-	-	-	100	-	100	2
											<b>22</b>
<b>SEMESTER – IV</b>											
Core	MM 1401	Theory of Operators	3	1	-	40	60	-	-	100	4
Core	MM1402	Fluid Mechanics	3	1	-	40	60	-	-	100	4
DSE		Discipline Specific Elective – II	3	1	-	40	60	-	-	100	4
DSE		Discipline Specific Elective - III	3	1	-	40	60	-	-	100	4
Lab	MM T14	Thesis						50	50	100	4
Lab	MM V14	Viva Voce	-	-	-	-	-	-	100	100	2
											<b>22</b>

#### Discipline Specific Elective - I

MM E1301	Probability & Statistics
MM E1302	Numerical Solution of PDE
MM E1303	Fourier Analysis and Summability Theory
MM E1304	Classical Mechanics
MM E1305	Graph Theory

#### Discipline Specific Elective - II

MM E1401	Operations Research
MM E1402	Applicable Mathematics
MM E1403	Mathematical Modeling
MM E1404	Fuzzy Sets and Applications
MM E1405	Complex Manifolds
MM E1406	Finsler Geometry

#### Discipline Specific Elective - III

MM E14021	Inventory and Queueing Models
MM E14022	Mathematical Biology
MM E14023	Artificial Intelligence
MM E14024	Information and Coding Theory
MM E14025	Dynamical System
MM E14026	Financial Mathematics

