

Department of Mathetmatics
FYUP Course Structure

S. No.	Course Code	Title of the Course	Faculty Code	End Sem Mark	Sessional Mark	Credits	Part/ Semester	Course Category	Department	Session/ Year of Introduction
1	2	3	4	5	6	7	8	9	10	11
1	MMBSMJ1001	Calculus	S	70	30	4	I	MJC	Mathematics	2022-23
2	MMBSMJ1002	Two-Dimensional Coordinate Geometry	S	70	30	2	I	MJC	Mathematics	2022-23
3	MMBSMJ1003	Set Theory	S	70	30	2	I	MJC	Mathematics	2022-23
4	MMBSMN1004	Calculus of Single Variable	S	70	30	4	I	MNC	Mathematics	2022-23
5	MMBSMN1005	Basic Coordinate Geometry	S	70	30	2	I	MNC	Mathematics	2022-23
6	MMBSGE1006	Elementary Calculus	S	70	30	4	I	GNE	Mathematics	2022-23
7	MMBSMJ2001	Advanced Calculus	S	70	30	4	II	MJC	Mathematics	2022-23
8	MMBSMJ2002	Three-Dimensional Coordinate Geometry	S	70	30	2	II	MJC	Mathematics	2022-23
9	MMBSMJ2003	Numerical Methods	S	70	30	2	II	MJC	Mathematics	2022-23
10	MMBSMN2004	Calculus of Several Variables	S	70	30	4	II	MNC	Mathematics	2022-23
11	MMBSMN2005	Basic Numerical Methods	S	70	30	2	II	MNC	Mathematics	2022-23
12	MMBSGE2006	Matrices and Linear Programming	S	70	30	4	II	GNE	Mathematics	2022-23
13	MMBSMJ3001	Real Analysis	S	70	30	4	III	MJC	Mathematics	2023-24

14	MMBSMJ3002	Ordinary Differential Equations	S	70	30	2	III	MJC	Mathematics	2023-24
15	MMBSMJ3003	Number Theory	S	70	30	2	III	MJC	Mathematics	2023-24
16	MMBSMN3004	Basic Real Analysis	S	70	30	4	III	MNC	Mathematics	2023-24
17	MMBSMN3005	Elements of Ordinary Differential Equations	S	70	30	2	III	MNC	Mathematics	2023-24
18	MMBSGE3006	Functions of Several Variables	S	70	30	4	III	GNE	Mathematics	2023-24
19	MMBSVO3007	Mathematical Logic and Reasoning	S	70	30	2	III	VOC	Mathematics	2023-24
20	MMBSVA3008	Mathematics of Finance	S	70	30	2	III	VAC	Mathematics	2023-24
21	MMBSMJ4001	Linear Algebra	S	70	30	4	IV	MJC	Mathematics	2023-24
22	MMBSMJ4002	Partial Differential Equations	S	70	30	2	IV	MJC	Mathematics	2023-24
23	MMBSMJ4003	Vector Calculus	S	70	30	2	IV	MJC	Mathematics	2023-24
24	MMBSMN4004	Basic Linear Algebra	S	70	30	4	IV	MNC	Mathematics	2023-24
25	MMBSMN4005	Elements of Partial Differential Equations	S	70	30	2	IV	MNC	Mathematics	2023-24
26	MMBSGE4006	Differential Equations	S	70	30	4	IV	GNE	Mathematics	2023-24
27	MMBSVA4007	Introduction to Mathematical Reasoning	S	70	30	2	IV	VAC	Mathematics	2023-24
28	MMBSMJ5001	Group Theory	S	70	30	4	V	MJC	Mathematics	2024-25
29	MMBSMJ5002	Geometry of Curves and Surfaces	S	70	30	4	V	MJC	Mathematics	2024-25

30	MMBSMJ5003	Mathematical Analysis	S	70	30	4	V	MJC	Mathematics	2024-25
31	MMBSXO5004	Mathematical Methods	S	70	30	4	V	MNO	Mathematics	2024-25
32	MMBSXO5005	Convex Analysis and Optimization	S	70	30	4	V	MNO	Mathematics	2024-25
33	MMBSXO5006	Fractional Calculus	S	70	30	2	V	MNO	Mathematics	2024-25
34	MMBSXO5007	Linear Programming	S	70	30	2	V	MNO	Mathematics	2024-25
35	MMBSMJ6001	Ring Theory	S	70	30	4	VI	MJC	Mathematics	2024-25
36	MMBSMJ6002	Complex Analysis	S	70	30	4	VI	MJC	Mathematics	2024-25
37	MMBSMJ6003	Metric Spaces	S	70	30	4	VI	MJC	Mathematics	2024-25
38	MMBSXO6004	Programming and Numerical Computations with MATLAB	S	70	30	4	VI	MNO	Mathematics	2024-25
39	MMBSXO6005	Mechanics	S	70	30	4	VI	MNO	Mathematics	2024-25
40	MMBSXO6006	Lattice Theory and Boolean Algebra	S	70	30	2	VI	MNO	Mathematics	2024-25
41	MMBSXO6007	Projective Geometry	S	70	30	2	VI	MNO	Mathematics	2024-25
42	MMBSMJ7001	Advanced Linear Algebra	S	70	30	4	VII (H)	MJC	Mathematics	2025-26
43	MMBSMJ7002	General Topology	S	70	30	4	VII (H)	MJC	Mathematics	2025-26
44	MMBSMJ7101	Advanced Differential Equations	S	70	30	4	VII (H)	MJC	Mathematics	2025-26
45	MMBSMJ7003	Coding Theory	S	70	30	4	VII (H)	GNE	Mathematics	2025-26

46	MMBSMJ7004	Fixed Point Theory and Variational Principles	S	70	30	4	VII (H)	GNE	Mathematics	2025-26
47	MMBSMJ7005	Tensor Analysis and General Relativity	S	70	30	4	VII (H)	GNE	Mathematics	2025-26
48	MMBSMJ7006	Research Methodology	S	70	30	2	VII (H)	VOC	Mathematics	2025-26
49	MMBSMJ7S01	Seminar	S	70	30	4	VII (H)	SEM	Mathematics	2025-26
50	MMBSMJ8001	Functional Analysis	S	70	30	4	VIII (H)	MJC	Mathematics	2025-26
51	MMBSMJ8002	Differentiable Manifolds	S	70	30	4	VIII (H)	MJC	Mathematics	2025-26
52	MMBSMJ8101	Advanced Group Theory and Field Theory	S	70	30	4	VIII (H)	MJC	Mathematics	2025-26
53	MMBSMJ8003	Graph Theory	S	70	30	4	VIII (H)	GNE	Mathematics	2025-26
54	MMBSMJ8004	Approximation Theory and Sequence Spaces	S	70	30	4	VIII (H)	GNE	Mathematics	2025-26
55	MMBSMJ8005	Orthogonal Polynomial and Special Functions	S	70	30	4	VIII (H)	GNE	Mathematics	2025-26
56	MMBSMJ8D01	Project/Dissertation	S	70	30	6	VIII (H)	DISS	Mathematics	2025-26
57	MMBSMJ7001	Advanced Linear Algebra	S	70	30	4	VII (R)	MJC	Mathematics	2025-26
58	MMBSMJ7002	General Topology	S	70	30	4	VII (R)	MJC	Mathematics	2025-26
59	MMBSMJ7102	Theory of Ordinary Differential Equations	S	70	30	2	VII (R)	MJC	Mathematics	2025-26
60	MMBSMJ7003	Coding Theory	S	70	30	4	VII (R)	GNE	Mathematics	2025-26
61	MMBSMJ7004	Fixed Point Theory and Variational Principles	S	70	30	4	VII (R)	GNE	Mathematics	2025-26

62	MMBSMJ7005	Tensor Analysis and General Relativity	S	70	30	4	VII (R)	GNE	Mathematics	2025-26
63	MMBSMJ7006	Research Methodology	S	70	30	4	VII (R)	VOC	Mathematics	2025-26
64	MMBSMJ7D01	Dissertation (Continued)	S	70	30	4	VII (R)	DISS	Mathematics	2025-26
65	MMBSMJ8001	Functional Analysis	S	70	30	4	VIII (R)	MJC	Mathematics	2025-26
66	MMBSMJ8002	Differentiable Manifolds	S	70	30	4	VIII (R)	MJC	Mathematics	2025-26
67	MMBSMJ8102	Field Theory	S	70	30	2	VIII (R)	MJC	Mathematics	2025-26
68	MMBSMJ8003	Graph Theory	S	70	30	4	VIII (R)	GNE	Mathematics	2025-26
69	MMBSMJ8004	Approximation Theory and Sequence Spaces	S	70	30	4	VIII (R)	GNE	Mathematics	2025-26
70	MMBSMJ8005	Orthogonal Polynomial and Special Functions	S	70	30	4	VIII (R)	GNE	Mathematics	2025-26
71	MMBSMJ8D02	Dissertation	S	70	30	8	VIII (R)	DISS	Mathematics	2025-26

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