

J.J. College of Arts and Science (Autonomous)
Department of Mathematics

Proposed Course Structure based on TANSCH and UGC - LOCF
(Choice Based Credit System)
(Applicable for the Candidates admitted from academic year 2023-2024 Onwards)

B.Sc. Mathematics - Semester I

Sl.No.	Course Category	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
						CIA	ESE	Total
Semester I								
1	Part - I	U1R3TL1/HL1/FL1	Language - I (Tamil/Hindi/French)	3	6	25	75	100
2	Part - II	U1R3EL1	Language - II (English)	3	6	25	75	100
3	Part - III	U1R3MACC1	Algebra and Trigonometry	5	5	25	75	100
4		U1R3MACC2	Differential Calculus	5	5	25	75	100
5		U1R3MADSE 1:1/ 1:2	Anyone from Group A	3	4	25	75	100
6	Part - IV	U1R3MASEC1 (NME)	To be opted from other Department	2	2	25	75	100
7		U1R3MAFC	Bridge Mathematics	2	2	25	75	100
Total				23	30			700

M.Sc. Mathematics - Semester I

Sl.No.	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
					CIA	ESE	Total
Semester I							
1	PIR3MACC1	Algebraic Structure	5	7	25	75	100
2	PIR3MACC2	Real Analysis - I	5	7	25	75	100
3	PIR3MACC3P	Ordinary Differential Equations	4	6	40	60	100
4	PIR3MADSE 1:1 / 1:2 / 1:3	Anyone from Group A	3	5	25	75	100
	PIR3MADSE 1:4P				40	60	
5	PIR3MADSE 2:1 / 2:2 / 2:3	Anyone from Group B	3	5	25	75	100
Total			20	30			500

O. Uma  30/6/23

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B.Sc. Mathematics - Semester II

Sl.No.	Course Category	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
						CIA	ESE	Total
Semester II								
1	Part - I	U2R3TL2	Language - I	3	6	25	75	100
2	Part - II	U2R3EL2	Language - II (English)	3	6	25	75	100
3	Part - III	U2R3MACC3	Analytical Geometry(2D &3D)	5	5	25	75	100
4		U2R3MACC4	Integral Calculus	5	5	25	75	100
5		U2R3MAEC2:1P / 2:2	R Programming/ Discrete mathematics	3	4	40	60	100
					25	75		
6	Part - IV	U2R3MASEC2 (NME2)	To be opted from other Department	2	2	25	75	100
7		U2R3MASEC3	A Primer on Divisibility and Number Sequences	2	2	25	75	100
Total				23	30			700

M.Sc. Mathematics - Semester II

Sl.No.	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
					CIA	ESE	Total
Semester II							
1	P2R3MACC4	Advanced Algebra	5	6	25	75	100
2	P2R3MACC5	Real Analysis – II	5	6	25	75	100
3	P2R3MACC6	Partial Differential Equations	4	6	25	75	100
4	P2R3MADSE 3:1/3:2/3:3P/ 3:4	Algebraic topology/ Mathematical statistics/ Statistics data analysis using R Programming/ Tensor analysis and Relativity	3	4	25	75	100
					40	60	
5	P2R3MADSE 4:1/4:2P/ 4:3/ 4:4	Wavelets/ Modeling and Simulation with Excel/ Machine Learning and Artificial Intelligence/ Neural Networks	3	4	25	75	100
					40	60	
6	P2R3MASEC 1P	Mathematical Documentation using LATEX – <i>Practical</i>	2	4	40	60	100
Total			22	30			600

Principal

CDC - Director

IQAC Co-ordinator

Head of the Department

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