



BRAINWARE UNIVERSITY
SCHOOL OF COMPUTATIONAL AND APPLIED SCIENCES
DEPARTMENT OF MATHEMATICS
M. Sc. in Mathematics - 2024

SEMESTER – I

Course Code	Course Name	L-T-P	Credit(s)	Total Marks
MSCMC101	Linear Algebra	3-1-0	4	100
MSCMC102	Real Analysis	4-0-0	4	100
MSCMC103	Mathematical Statistics	4-0-0	4	100
MSCMC104	Ordinary Differential Equations	3-1-0	4	100
MSCM(HU)191	Professional Communication Lab	0-0-2	1	100
	Total	18	17	500

SEMESTER – II

Course Code	Course Name	L-T-P	Credit(s)	Total Marks
MSCMC201	Abstract Algebra	4-0-0	4	100
MSCMC202	Complex Analysis	4-0-0	4	100
MSCMC203	Partial Differential Equations	3-1-0	4	100
MSCMC204	Fuzzy Logic	4-0-0	4	100
MSCMC205	General Topology	4-0-0	4	100
MSCM(CS)201	Computer Programming	2-0-0	2	100
MSCM(CS)291	Computer Programming Lab	0-0-2	1	100
	Total	24	23	700

SEMESTER – III

Course Code	Course Name	L-T-P	Credit(s)	Total Marks
MSCMC301	Functional Analysis	4-0-0	4	100
MSCMC302	Differential Geometry	4-0-0	4	100
MSCMC303	Integral Equations & Calculus of Variations	3-1-0	4	100
MSCME301	Elective I	4-0-0	4	100
MSCME302	Elective II	4-0-0	4	100
MSCM381	Project (Stage I)	-	4	100
	Total	20	24	600



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Electives I & II – Third Semester

Group	Course Code	Course Name	L-T-P	Credit(s)
Elective I	MSCME301A	Module Theory	4-0-0	4
	MSCME301B	Measure and Probability Theory	4-0-0	4
	MSCME301C	Analytical Number Theory	4-0-0	4
	MSCME301D	Harmonic Analysis	4-0-0	4
Elective II	MSCME302A	Algebraic Topology	4-0-0	4
	MSCME302B	Dynamical systems	4-0-0	4
	MSCME302C	Fluid Mechanics	4-0-0	4
	MSCME302D	Discrete Structures	4-0-0	4

SEMESTER – IV

Course Code	Course Name	L-T-P	Credit(s)	Total Marks
MSCMC401	Operations Research	4-0-0	4	100
MSCMC402	Applied Numerical Analysis	3-0-0	3	100
MSCMC492	Applied Numerical Analysis Lab	0-0-2	1	100
MSCME401	Elective III	4-0-0	4	100
MSCME402	Elective IV	4-0-0	4	100
MSCM481	Project (Final)	-	6	100
MSCM482	Grand Viva	-	2	100
	Total	17	24	700



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Electives III & IV – Fourth Semester

Group	Code	Course Title	L-T-P	Credit(s)
Elective III	MSCME401A	Manifolds and Applications	4-0-0	4
	MSCME401B	Mathematical Modelling	4-0-0	4
	MSCME401C	Financial Mathematics	4-0-0	4
	MSCME401D	Coding Theory	4-0-0	4
Elective IV	MSCME402A	Finite Element method	4-0-0	4
	MSCME402B	Mathematical Ecology	4-0-0	4
	MSCME402C	Applied Statistics	4-0-0	4
	MSCME402D	Automata & Formal Languages	4-0-0	4
	MSCME402E	Cryptography	4-0-0	4

TOTAL CREDITS & MARKS

M. Sc. (Mathematics)

Category	Core Course	Elective Course	Other Compulsory Courses	Total
Credit(s)	68	16	4	88
Marks	1800	400	300	2500