Girijananda Chowdhury University Assam

Course Structure of Master of Science in Mathematics

Programme Code-M. Sc./M.A-2025/2026

YEAR – 1

First Semester				
Code	**Course**	**Category of Course**	**L-T-P**	**Total Credit**
MMA23501T	Abstract Algebra	Core	3-1-0	4
MMA23502T	Mechanics and Tensor	Core	3-1-0	4
MMA23503T	Real Analysis	Core	3-1-0	4
MMA23504T	Ordinary Differential Equation	Core	3-1-0	4
MMA23505T	Lab- Ordinary Differential Equation	Core	0-0-6	3
MMA23230T	OEC**	OEC	3-0-0	3
			TOTAL	22

**OEC Paper offered by Dept. of Mathematics: *Basic Statistics*

Second Semester				
Code	**Course**	**Category of Course**	**L-T-P**	**Total Credit**
MMA23506T	Linear Algebra	Core	3-1-0	4
MMA23507T	Complex Analysis	Core	3-1-0	4
MMA23508T	Mathematical Methods	Core	3-1-0	4
MMA23509T	Partial Differential Equation – I	Core	3-1-0	4
MMA23510T	Lab-Partial Differential Equation – I	Core	0-0-6	3
MMA23511T	Introduction to Computer Programming	Core	2-0-4	4
			TOTAL	23

		YEAR –2			

Third Semester

Code	Course	Category of Course	L-T-P	Total Credit
MMA23601T	General Topology	Core	3-1-0	4
MMA23602T	Continuum Mechanics	Core	3-1-0	4
MMA23620T	**Elective I:**Number Theory	Elective (MOOC subject to availability)	3-1-0	4
MMA23621T	**Elective I:** Special Theory of Relativity			
MMA23622T	**Elective I:** Magnetohydrodynamics			
MMA23623T	**Elective II:** Functional Analysis	Elective	3-1-0	4
MMA23624T	**Elective II:** Partial Differential Equation II			
MMA23260T	SEC**	SEC	3-0-0	3
MMA23603R	Summer Internship	Internship (any one)	0-0-6	3
MMA23604R	Project I			
			TOTAL	22

** SEC course offered by Department of Mathematics: *Latex and HTML.*

Fourth Semester

Code	Course	Category of Course	L-T-P	Total Credit
MMA23605T	Numerical Analysis	Core	3-1-0	4
MMA23606T	Operation Research	Core	3-1-0	4
MMA23625T	**Elective III:** Advanced Abstract Algebra	Elective	3-1-0	4
MMA23626T	**Elective III:** General Theory of Relativity			
MMA23627T	**Elective III:** Wave Theory			
MMA23628T	**Elective IV:** Fuzzy Sets and their applications	Elective	3-1-0	4
MMA23629T	**Elective IV:** Dynamical System and Fractal Geometry			
MMA23680T	**Elective IV:**Measure Theory			
MMA23681T	**Elective V:** Mathematical Logic	Elective	3-1-0	4
MMA23682T	**Elective V:** Graph Theory			
MMA23683T	**Elective V:**Fluid Dynamics			
MMA23605R	Major Project	Core	1-0-6	4
MMA23606R	Project II			
			TOTAL	24
Total Credit at the end of two years				**91**