Master of Science (M.Sc.) Mathematics Program Curriculum

Cat.	Course Number	Course Title	L-T-P	Credits	Cat.	Course Number	Course Title	L-T-P	Credits
Semester 1						**Semester 2**			
C	MA511	Linear algebra	3-0-0	3	C	MA521	Abstract Algebra	3-0-0	3
C	MA512	Real analysis	3-0-0	3	C	MA522	Complex Analysis	3-0-0	3
C	MA513	Ordinary Differential equations	3-0-0	3	C	MA523	Partial Differential equations	3-0-0	3
C	MA514	Probability and statistics	3-0-0	3	C	MA524	Numerical Analysis	3-0-0	3
C	MA515*	Programing techniques	3-3-0	4	C	MA525	Functional analysis	3-0-0	3
			Total	**16**				**Total**	**15**
Summer internship at industry/R&D Labs (Recommend)									
Semester 3						**Semester 4**			
E		Elective	3-0-0	3	E		Elective	3-0-0	3
TH	MA698	Thesis		15	TH	MA698	Thesis		15
			Total	**18**				**Total**	**18**
								Grand total	**67**

Electives	
MA551	Topology
MA552	Wavelets analysis and Applications
BL755	Complex Networks
MA553	Dynamical Systems
MA524	Optimization

Note: The students are encouraged to opt electives from B.Tech., M.Tech. and PhD. Level courses having mathematical orientation. e.g. Cryptography, Information Theory and coding, Data structures and algorithms, Digital image analysis, etc. This will assist to integrate technological aspects into mathematics education.

S. No.	Category	Course Category Title	Total Courses	Total Credits
1	C	Compulsory	10	31
2	E	Electives	2	06
3	TH	Thesis	1	30
		Total		**67**