

# Indian Institute of Technology Tirupati

## Department of Mathematics and Statistics

### Curriculum of M.Sc in Mathematics

#### Semester 1

S. No	Course Code	Course Name	L-T-P-C
1	MA513L	Real Analysis	3-1-0-4
2	MA506L	Linear Algebra	3-0-0-3
3	MA516L	Basic Graph Theory	2-0-0-2
4	MA518L	Groups and Rings	3-0-0-3
5	MA512L	Probability Theory	3-1-0-4
6	MA517M	Basic Programming Laboratory	1-0-2-2
Semester Credits (Cumulative Credits)			18 (18)

#### Semester 2

S. No	Course Code	Course Name	L-T-P-C
1	MA521L	Multivariable Calculus	3-0-0-3
2	MA511L	Ordinary Differential Equations	3-1-0-4
3	MA601L	Complex Analysis	3-0-0-3
4	MA633L	Numerical Analysis	3-0-0-3
5	MA614L	Topology	3-0-0-3
6	XXXXXL	FRE/HSE1	3-0-0-3
Semester Credits (Cumulative Credits)			19 (37)

#### Semester 3

S. No	Course Code	Course Name	L-T-P-C
1	MA520L	Measure Theory	3-0-0-3
2	MA608L	Functional Analysis	3-0-0-3
3	MA612L	Partial Differential Equations	3-0-0-3
4	MAXXXL	Fields and Galois Theory	3-0-0-3
5	MAXXXL	DPE1	3-0-3-3
6	XXXXXL	FRE2	3-0-0-3
Semester Credits (Cumulative Credits)			18 (55)

#### Semester 4

S. No	Course Code	Course Name	L-T-P-C
1	MAXXXL	DPE2	3-0-0-3
2	MAXXXL	DPE3	3-0-0-3
3	MAXXXL	DPE4	3-0-0-3
4	MAXXXG	Project	6-0-0-6
Semester Credits (Cumulative Credits)			15 (70)