

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI
M.Sc. Curriculum: Mathematics and Statistics
From the Academic Year 2023-24

Semester-I

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	MA513L	Real Analysis	3-1-0-4	MA5107	10
2.	MA506L	Linear Algebra	3-0-0-3	MA5109	7
3.	MA516L	Basic Graph Theory	2-0-0-2	-	26
4.	MA512L	Probability Theory	3-1-0-4	MA5113	10
5.	MA519L	Sampling Theory	2-0-0-2	-	26
6.	MA518L	Groups and Rings	3-0-0-3	-	26
7.	MA517M	Basic Programming Laboratory	1-0-2-2	-	26
Total Credits			20		

Semester-II

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	MA5XXL	Multivariable Calculus	3-0-0-3	-	-
2.	MA511L	Ordinary Differential Equations	3-1-0-4	MA5204	10
3.	MA601L	Complex Analysis	3-0-0-3	MA6105	7
4.	MA508L	Statistical Inference	3-0-0-3	MA5115	7
5.	MA6XXL	Design of Experiments	2-0-0-2	-	-
6.	MA5XXM	Data Science Programming Laboratory	1-0-2-2	-	-
5.	MA5XXL	Stochastic Processes	2-0-0-2	-	-
Total Credits			19		

Semester-III

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	MA514L	Regression Analysis	3-1-0-4	MA5208	10
2.	MA6XXL	Time Series Analysis	2-0-0-2	-	-
3.	DPE1	Department Elective 1	3-0-0-3	-	-
4.	DPE2	Department Elective 2	3-0-0-3	-	-
5.	DPE3	Department Elective 3	3-0-0-3	-	-
6.	FRE1	Free Elective 1	3-0-0-3	-	-
Total Credits			18		

Semester-IV

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	MA6XXL	Numerical Analysis	3-0-0-3	-	-
2.	MA6XXL	Scientific Programming Laboratory	0-0-2-1	-	-
3.	DPE4	Department Elective 4	3-0-0-3	-	-
4.	DPE5	Department Elective 5	3-0-0-3	-	-
5.	FRE2	Free Elective 2	3-0-0-3	-	-
5.	MA691G/ DPE6	Project/ Department Elective 6	0-0-0-3/ 3-0-0-3	MA6250/ -	6/ -
Total Credits			16		

Total Credits - 73