

**INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI****M.Sc. Curriculum: Mathematics and Statistics****From the Academic Year 2019-20****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.	MA505L	Discrete Mathematics	3-0-0-3	MA5111	7
4.	MA512L	Probability Theory	3-1-0-4	MA5113	10
5.	MA508L	Statistical Inference	3-0-0-3	MA5115	7
6.	MA507P	Programming Laboratory	0-0-3-2	MA5191	7
<b>Total Credits</b>			<b>19</b>		

**Semester-II**

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	MA510L	Multivariable Calculus and Measure Theory	3-1-0-4	MA5202	10
2.	MA511L	Ordinary Differential Equations	3-1-0-4	MA5204	10
3.	MA515L	Algebra	3-0-0-3	MA5206	7
4.	MA514L	Regression Analysis	3-1-0-4	MA5208	10
5.	MA509L	Stochastic Processes and Time Series Analysis	3-0-0-3	MA5210	7
<b>Total Credits</b>			<b>18</b>		

**Semester-III**

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	MA601L	Complex Analysis	3-0-0-3	MA6105	7
2.	MA602L	Sampling Theory and Design of Experiments	3-0-0-3	MA6107	7
3.	MA603L	Multivariate Statistical Analysis	3-0-0-3	MA6109	7
4.	DPE1	Department Elective 1	3-0-0-3		
5.	DPE2	Department Elective 2	3-0-0-3		
6.	FRE	Free Elective	3-0-0-3		
<b>Total Credits</b>			<b>18</b>		

**Semester-IV**

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	MA604M	Numerical Analysis	2-0-3-4	MA6204	10
2.	DPE3	Department Elective 3	3-0-0-3		
3.	DPE4	Department Elective 4	3-0-0-3		
4.	DPE5	Department Elective 5	3-0-0-3		
5.	MA691G	Project	0-0-0-2	MA6250	6
<b>Total Credits</b>			<b>15</b>		

**Total Credits–70**