Outcome Based Syllabus for M.Sc. (Statistics) Semester Pattern in Affiliated Colleges

2021 Admission onwards

Course Structure and Marks distribution

Semester No.	Course Code	Course Title	Hours/ Semester (Theory +Practical)	Instructional Hours per week		Duration of ESE (In hours)	Total Marks		
				Theory	Practical		CA	ESE	Total
1	ST 211	Analytical Tools for Statistics - I	90	5	-	3	20	60	80
	ST 212	Analytical Tools for Statistics - II	90	5	-	3	20	60	80
	ST 213	Probability Theory - I	90	5	-	3	20	60	80
	ST 214	Sampling Techniques	90	5	-	3	20	60	80
	ST 215	Introduction to R and Python	54 + 36	3	2	3	20	60	80
2	ST 221	Probability Theory - II	90	5	-	3	20	60	80
	ST 222	Distribution Theory	90	5	-	3	20	60	80
	ST 223	Applied Statistics & Numerical Methods	90	5	-	3	20	60	80
	ST 224	Statistical Quality Control &Reliability Modelling	90	5	-	3	20	60	80
	ST 225	Practical 1 Using R	90	-	5	3	20	60	80
3	ST 231	Theory of Estimation	90	5	-	3	20	60	80
	ST 232	Testing of Hypotheses	90	5	-	3	20	60	80
	ST 233	Multivariate Analysis	90	5	-	3	20	60	80

3	ST 234	Operations Research	90	5	-	3	20	60	80
	ST 235	Elective I	90	5	-	3	20	60	80
4	ST 241	Design and Analysis of Experiments	90	5	-	3	20	60	80
	ST 242	Stochastic Processes	90	5	-	3	20	60	80
	ST 243	Regression Methods	90	5	-	3	20	60	80
	ST 244	Elective II	90	5	-	3	20	60	80
	ST 245	Practical 2 Using R	90	-	5	3	20	60	80
	ST 246	Project/ Dissertation/ Internship							100*
	Comprehensive Viva								100**
Grand Total									**1800**

Abbreviations used: ESE- End Semester Exam, CA- Continuous Assessment.

*80 marks for Project/ Dissertation/ Internship and 20 marks for viva voce examination based on it

** General viva voce based on all the courses.

Elective Papers

III Semester- Elective –I ST(235)

1. Machine Learning
2. Order Statistics
3. Biostatistics

IV Semester- Elective –I I ST(235)

1. Time Series and Forecasting
2. Bayesian Inference
3. Actuarial Statistics

During Semester 3, the Elective paper has to be chosen from among the three papers given and during semester 4, the Elective paper has also to be chosen from among the three papers given.