

Semester 1 (First Year)

Course Type	Code	Course	Course / Paper Title	Hours / Week	Credit	CIA	ESE	Total
Major Mandatory (4 + 4+4+2)	23ScStaP111	Major Paper 1 (Theory)	Basics of Real Analysis and Calculus.	4	4	50	50	100
	23ScStaP112	Major Paper 2 (Theory)	Linear Algebra	4	4			
	23ScStaP113	Major Paper 3 (Theory)	Probability Distributions	4	4			
	23ScStaP114	Major Paper 4 (Practical)	Lab Course on 23ScStaP111,23ScStaP112 and 23ScStaP113	4	2	25	25	50
Major Electives (4)	23ScStaP121	Major Elective 1 (Theory)	Sampling Theory	4	4	50	50	100
	23ScStaP122	Major Elective 2 (Theory)	Survival analysis and statistical quality control	4	4			
RM (4)	23ScStaP131	RM Paper 1	Research Methodology- I (given by the college)	2	4	50	50	100
	23ScStaP131	RM Paper 2	Research Methodology- II (Departmental course)	2				
Total				24	22	275	275	550

Semester 2 (First Year)

Course Type	Code	Course	Course / Paper Title	Hours / Week	Credit	CIA	ESE	Total
Major Mandatory (4 + 4+4+2)	23ScStaP211	Major Paper 1 (Theory)	Multivariate Analysis	4	4	50	50	100
	23ScStaP212	Major Paper 2 (Theory)	Regression Analysis	4	4			
	23ScStaP213	Major Paper 3 (Theory)	Statistical Inference	4	4			
	23ScStaP214	Major Paper 4 (Practical/Theory)	Lab Course on 23ScStaP211,23ScStaP212 and 23ScStaP213	4	2	25	25	50
Major Electives (4)	23ScStaP221	Major Elective 1 (Theory)	Probability Theory	4	4	50	50	100
	23ScStaP222	Major Elective 2 (Theory)	Statistical Methods in epidemiology	4	4			
OJT(4)	23ScStaP241	OJT	On Job Training	8	4	50	50	100
Total				28	22	275	275	550

Semester 3 (Second Year)

Course Type	Code	Course	Course / Paper Title	Hours / Week	Credit	CIA	ESE	Total
Major Mandatory (4 + 4+4+2)	23ScStaP311	Major Paper 1 (Theory)	Design of Experiments	4	4	50	50	100
	23ScStaP312	Major Paper 2 (Theory)	Asymptotic Inference	4	4			
	23ScStaP313	Major Paper 3 (Theory)	Time series analysis	4	4			
	23ScStaP314	Major Paper 4 (Practical)	Lab Course on 23ScStaP311, 23ScStaP312 and 23ScStaP313	4	2	25	25	50
Major Electives (4)	23ScStaP321	Major Elective 1 (Theory)	Data Mining	4	4	50	50	100
	23ScStaP322	Major Elective 2 (Theory)	Categorical data analysis	4				
RP (4)	23ScStaP351	RP	Research Project- I	8	4	50	50	100
Total				28	22	275	275	550

Semester 4 (Second Year)

Course Type	Code	Course	Course / Paper Title	Hours / Week	Credit	CIA	ESE	Total
Major Mandatory (4 + 4+4+2)	23ScStaP411	Major Paper 1 (Theory)	Stochastic Processes	4	4	50	50	100
	23ScStaP412	Major Paper 2 (Theory)	Bayesian Inference	4	4			
	23ScStaP413	Major Paper 3 (Theory)	Actuarial Statistics	4	4			
Major Electives (4)	23ScStaP421	Major Elective 1 (Theory)	Design and analysis of clinical trials	4	4	50	50	100
	23ScStaP422	Major Elective 2 (Theory)	Artificial Intelligence	4				
RP (4)	23ScStaP451	RP	Research Project -II	12	6	75	75	150
Total				28	22	275	275	550

OJT: On Job Training

RP: Research Project

RM: Research Methodology