

2020 SYLLABUS

School of Natural Sciences

M.Sc. in Statistics under UGC – CBCS



M.Sc. Statistics Course Structure

Category definition with credit breakup

Semester	Credit						
	CC	DSE	GE	SEC	USC	Total/Sem	
First	20	4	4	1	2	31	
Second	20	4		1	2	27	
Third	24			1	2	27	
Fourth	12			1	2	15	
Total Credit/ Course	76	8	4	4	8		
Total Credit						100	

CC: Core Courses; **GE**: General Elective; **SEC**: Skill Enhancement Courses; **DSE**: Discipline Specific Elective; **USC:** University specified course

First Year

Category	Course name	Credit	Tea	Teaching Scheme		
			L	T	P	
Semester – I						
CC – 1	Analysis-I	4	3	1	0	
CC – 2	Probability-I	4	3	1	0	
CC-3	Sampling Distribution and Statistical Inference-I	4	3	1	0	
CC – 4	Linear Models and Design of Experiment-I	4	3	1	0	
CC – 5	M.Sc Statistics Practical-I	4	0	0	8	
DSE – 1	Statistical Mechanics// Biostatistics	4	3	1	0	
GE - 1	Generic Elective	4	4	0	0	
USC – 1	Foreign language – I	2	2	0	0	
SEC – 1	Mentored Seminar – I	1	1	0	0	
Total Credit = 31			Teaching Hour = 35			
Semester – II						
CC – 6	Sample Survey and Demography	4	3	1	0	
CC – 7	Probability-II	4	3	1	0	
CC – 8	Statistical Inference-II	4	3	1	0	
CC – 9	R-Programming	4	3	1	0	
CC – 10	M.Sc Statistics Practical-II	4	0	0	8	
DSE – 2	Operations Research /Psychometry and Statistics	4	3	1	0	
USC – 2	Foreign language – II	2	2	0	0	
SEC – 2	Mentored Seminar – II	1	1	0	0	
Total Credit = 27		Teaching Hour = 31				

Second Year

Category	Course name	Credit	Teaching Scheme				
			L	T	P		
Semester – III							
CC – 11	Design of Experiment-II and Regression Analysis	4	3	1	0		
CC – 12	Time Series Analysis and Stochastic Process		3	1	0		
CC – 13	Multivariate Analysis	4	3	1	0		
CC – 14	Statistical Quality Management and Reliability	4	3	1	0		
CC – 15	Python Programming	4	3	1	0		
CC – 16	M.Sc Statistics Practical-III	4	0	0	8		
USC – 3	Foreign language – III	2	2	0	0		
SEC – 3	Mentored Seminar – III	1	1	0	0		
Total Credit = 27		Teaching Hour = 31					
Semester – IV							
CC – 17	Master Project / Dissertation	12	0	0	24		
USC – 4	Foreign language – IV	2	2	0	0		
SEC – 4	Master Seminar	1	1	0	0		
Total Credit = 15			Teaching Hour = 27				