

MSC STATISTICS PROGRAMME
SCHEME OF LEARNING AND EVALUATION
(For the students admitted in the academic year 2025 – 2026 & onwards)
Outcome Based Curriculum Framework with CBCS

Course Code	Course Title	Course Category	Course Type	Part Type	Lecture Hours	Tutorial Hours	Practical Hours	Course Credits	Max CA Marks	Max CE Marks	Total Marks
Semester - I											
25STP101	Real Analysis And Linear Algebra	Core	Theory	3	5	1	0	4	25	75	100
25STP102	Advanced Probability Theory	Core	Theory	3	5	1	0	4	25	75	100
25STP103	Sampling Theory And Methods	Core	Theory	3	5	1	0	4	25	75	100
25STP104	Applied Operations Research	Core	Theory	3	4	2	0	4	25	75	100
25STP105	Software Based Practical-I Using Spss (Skill Based)	Core	Practical	3	0	0	4	4	40	60	100
Semester - II											
25STP211	Statistics Practical - I (Skill Based)	Core	Practical	3	0	0	2	0	0	0	0
25STP206	Distribution Theory	Core	Theory	3	5	1	0	4	25	75	100
25STP207	Estimation Theory	Core	Theory	3	5	1	0	4	25	75	100
25STP208	Linear Models and Design of Experiments	Core	Theory	3	4	1	0	4	25	75	100
25STP209	Applied Biostatistics	Core	Theory	3	5	0	0	3	100	0	100
25STP210	Software Based Practical -II R Programming (Skill Based)	Core	Practical	3	0	0	4	4	40	60	100
25STP211	Statistics Practical - I (Skill Based)	Core	Practical	3	0	0	2	4	40	60	100
25SECP201	Skill Enhancement Course: Cyber Security	Core	Theory	3	2	0	0	2	100	0	100
Semester - III											
25STP312A	Major Elective Course - I Official Statistics	Elective	Theory	3	4	1	0	5	100	0	100
25STP312B	Major Elective Course - I Data Science And Machine Learning	Elective	Theory	3	4	1	0	5	100	0	100
25STP313	Hypothesis Testing	Core	Theory	3	6	1	0	4	25	75	100

25STP314	Stochastic Processes	Core	Theory	3	6	1	0	3	25	75	100
25IDCSTP	Inter Disciplinary Course : Statistical Techniques (Theory)	Elective	Theory	3	3	0	0	2	25	75	100
25IDCSTP	Inter Disciplinary Course : Statistical Techniques (Practical)	Elective	Practical	3	0	0	2	2	40	60	100
25STP317	Software Based Practical III- Using Python(Skill Based)	Core	Practical	3	0	0	4	4	40	60	100
Semester - IV											
25STP422	Statistics Practical - II (Skill Based)	Core	Practical	3	0	0	2	0	0	0	0
25STP418A	Major Elective Course - II Demographic Techniques	Elective	Theory	3	5	1	0	5	25	75	100
25STP418B	Major Elective Course - II Big Data Analytics	Elective	Theory	3	5	1	0	5	25	75	100
25STP419	Statistical Quality Control Realibility	Core	Theory	3	5	1	0	4	25	75	100
25STP420	Econometrics and Planning Models	Core	Theory	3	5	1	0	4	25	75	100
25STP421	Time Series and Forecasting	Core	Theory	3	5	1	0	4	25	75	100
25STP422	Statistics Practical - II (Skill Based)	Core	Practical	3	0	0	2	4	40	60	100
25STP423	Project Work/ Dissertation	Core	Project	3	0	0	4	6	80	120	200