



**Progressive Education Society's
Modern College of Arts, Science and
Commerce Ganeshkhind, Pune 16**

(An Autonomous College Affiliated to Savitribai Phule Pune University)

Two Year Degree Program in Statistics

(Faculty of Science & Technology)

M.Sc. (Statistics) Part-I

Choice Based Credit System Syllabus

To be implemented from Academic Year 2022-23

Title of the Course: M. Sc. (Statistics)**Structure of the Syllabus:**

Following is the structure of two year M.Sc. Statistics program.

T: Theory P: Practical O: Open C: Compulsory E: Elective

M.Sc.(Statistics)-Part I

Course Code	T/ P	O/C/ E	Title	Number of credits	ESE Duration	Marks Assigned
Semester I						
22-ST – 11	T	C	Basics of Real Analysis and Calculus	4	3 Hours	100
22-ST – 12	T	C	Linear algebra and Numerical methods	4	3 Hours	100
22-ST – 13	T	C	Probability Distribution	4	3 Hours	100
22-ST – 14	T	C	Sampling Theory	4	3 Hours	100
22-ST – 15	P	C	Practical I	4	3 Hours	100
			Total	20		500
Semester II						
22-ST – 21	T	C	Probability Theory	4	3 Hours	100
22-ST – 22	T	C	Regression Analysis	4	3 Hours	100
22-ST – 23	T	C	Statistical Inference I	4	3 Hours	100
22-ST – 24	T	C	Multivariate Analysis	4	3 Hours	100
22-ST – 25	P	C	Practical II	4	3 Hours	100
			Total	20		500

Course Code	T/ P	O/C/ E	Title	Number of credits	ESE Duration	Marks Assigned
Semester I						
22-ST 191	T	C	Human Rights -I	1	2 Hours	25
22-ST 192	T	C	Cyber Security -I	1	2 Hours	25
			Total	2		50
Semester II						
22-ST 291	T	C	Human Rights -II	1	2 Hours	25
22-ST 292	T	C	Cyber Security -II	1	2 Hours	25
			Total	2		50

M.Sc.(Statistics)-Part II

Course Code	T/ P	O/C/ E	Title	Number of credits	ESE Duration	Marks Assigned
Semester III						
23-ST – 31	T	C	Statistics Theory Paper I	4	3 Hours	100
23-ST – 32	T	C	Statistics Theory Paper II	4	3 Hours	100
23-ST – 33	T	C	Statistics Theory Paper III	4	3 Hours	100
23-ST – 34	T	C/E	Statistics Theory Paper IV	4	3 Hours	100
23-ST – 35	P	C	Practical I	4	3 Hours	100
			Total	20		500
Semester IV						
23-ST – 41	T	C	Statistics Theory Paper I	4	3 Hours	100
23-ST – 42	T	C	Statistics Theory Paper II	4	3 Hours	100
23-ST – 43	T	C/E	Statistics Theory Paper III	4	3 Hours	100
23-ST – 44	T	C/O	Statistics Theory Paper IV	4	3 Hours	100
23-ST – 45	P	C	Practical II	4	3 Hours	100
			Total	20		500

Course Code	T/ P	O/C/ E	Title	Number of credits	ESE Duration	Marks Assigned
Semester III						
23-ST 391	T	C	Soft Skills	2	4 Hours	50
23-ST 392	T	C	Cyber Security -III	1	2 Hours	25
			Total	3		75
Semester IV						
23-ST 491	P	C	Cyber Security -III	1	2 Hours	25
23-ST 492	P	C	Skill Development	2	4 Hours	50
			Total	3		75