

SYLLABUS FOR M.A./M.SC. IN STATISTICS

Under Choice Based Credit System (CBCS)
Effective from 2020-2022



The University of Burdwan
Burdwan-713104
West Bengal

PROFILE

Department of Statistics, The University of Burdwan**Syllabus for M.Sc. Examination in Statistics, University of Burdwan****w.e.f 2020 – 2022**

Semester- I									
Course				Lect. Hr /week	Dur. of Exam (in H)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T	Total	
MSST101	Core	T	Mathematical Analysis	4	2	10	40	50	4
MSST102	Core	T	Probability Theory	4	2	10	40	50	4
MSST103	Core	T	Statistical Methods & Measure Theory	4	2	10	40	50	4
MSST104	Core	T	Optimization Techniques& Statistical Quality Management	4	2	10	40	50	4
MSST105	Core	P	R Programming	8	4	10	40	50	4
MSST106	Core	P	Practical Basedon MSST102, 103 and 104	8	4	10	40	50	4
					TOTAL				24
Semester- II									
Course				Lect. Hr /week	Dur. of Exam (inH)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T	Total	
MSST201	Core	T	Sampling Distributions & Inference - I	4	2	10	40	50	4
MSST202	Core	T	Multivariate Techniques	4	2	10	40	50	4
MSST203	Core	T	Linear Model& Design of Experiments-I	4	2	10	40	50	4
MSST204	Core	T	Operations Research& Reliability Theory	4	2	10	40	50	4
MSST205	Core	P	Practical Basedon MSST 201- 204	8	4	10	40	50	4
MSST206	Core	P	Python Programming	8	4	10	40	50	4
					TOTAL				24

MSST403-3	DE	T	Advanced Mathematical Statistics (Special- I)	4	2	10	40	50	4	
MSST404-1	DE	T	Industrial Statistics (Special-II)	4	2	10	40	50	4	
MSST404-2	DE	T	Biostatistics (Special-II)	4	2	10	40	50	4	
MSST404-3	DE	T	Advanced Mathematical Statistics (Special-II)	4	2	10	40	50	4	
MSST405	Core	P	Practical Basedon MSST401,402 and opted DEs	8	4	10	40	50	4	
MSST406	Core	P	Project/ Term paper	4	----	10	40	50	4	
					TOTAL					24

T/P: Theory/Practical, DE: Discipline-centric Elective; GE: Generic elective

MSST406

Course				Marks			Credit
Course code	Type	T/P	Name	I.A.	E.T	Total	
MSST406	Core	P	Project/ Term paper	10	40	50	4

Project /Term paper

50 Marks

Project:- Topic selection in consultation with the teacher; literature search from different reference books and using internet search; typed write-up with proper tables, structures, figures and literature to be submitted (approximately 25-30 pages with 12 font size); seminar lecture on this topic to be delivered in presence of all the teachers and an external subject expert

Course Outcomes (COs):

1. Conduct independent research on a chosen statistical topic.
2. Perform literature review, data analysis, and write a structured report.
3. Present findings through a seminar, demonstrating communication and presentation skills.
4. Develop problem-solving, critical thinking, and research capabilities.