

DEPARTMENT OF STATISTICS
UNIVERSITY OF ALLAHABAD

M.A./M.Sc. Statistics

To be effective from 2023-24

Course Outline

1st Semester July to December

Paper	Duration L-T-P-C	Maximum Marks
STA501: MATRIX ALGEBRA AND LINEAR ESTIMATION	4-1-0-5	100
STA503: SURVEY SAMPLING	4-1-0-5	100
STA504: MEASURE AND PROBABILITY THEORY	4-1-0-5	100
ELECTIVE (CHOOSE ANY ONE)		
ELECTIVE I: STA551: R PROGRAMMING AND STATISTICAL COMPUTING	4-1-0-5	100
ELECTIVE II: STA669: STATISTICAL COMPUTING USING PYTHON	4-1-0-5	100
STA531: Lab	0-1-5-5	100

2nd Semester January to May

Paper	Duration L-T-P-C	Maximum Marks
STA502: MULTIVARIATE ANALYSIS	4-1-0-5	100
STA505: ESTIMATION THEORY	4-1-0-5	100
STA 507: REGRESSION ANALYSIS	4-1-0-5	100
ELECTIVE (CHOOSE ANY ONE)		
ELECTIVE I: STA506: TIME SERIES ANALYSIS	4-1-0-5	100
ELECTIVE II: STA561: POPULATION STUDIES AND DEMOGRAPHY	4-1-0-5	100
STA532: LAB	0-1-5-5	100

3rd Semester July to December

Paper	Duration L-T-P-C	Maximum Marks
STA552: KNOWLEDGE DISCOVERY AND DATA MINING	4-1-0-5	100
STA601: TESTING OF HYPOTHESIS, SEQUENTIAL ANALYSIS AND NON-PARAMETRIC INFERENCE	4-1-0-5	100
STA670: SURVIVAL ANALYSIS AND CLINICAL TRIALS	4-1-0-5	100
ELECTIVE (CHOOSE ANY ONE)		
ELECTIVE I: STA653: OFFICIAL AND NATIONAL DEVELOPMENT STATISTICS	4-1-0-5	100
ELECTIVE II: STA654: ADVANCED MULTIVARIATE ANALYSIS	4-1-0-5	100
ELECTIVE III: STA655: ECONOMETRICS	4-1-0-5	100
STA631: LAB	0-1-5-5	100

4th Semester January to May

Paper	Duration L-T-P-C	Maximum Marks
STA602: ANALYSIS OF VARIANCE AND DESIGN OF EXPERIMENTS	4-1-0-5	100
STA656: STOCHASTIC PROCESS	4-1-0-5	100
ELECTIVE (CHOOSE ANY ONE)	4-1-0-5	100

ELECTIVE I: STA652: STATISTICAL DECISION THEORY AND BAYESIAN THEORY	4-1-0-5	100
ELECTIVE II: STA671: ADVANCED OPERATION RESEARCH	4-1-0-5	100
ELECTIVE II: STA672: BIOSTATISTICS	4-1-0-5	100
ELECTIVE II: STA673: FORESTRY AND ENVIRONMENTAL STATISTICS	4-1-0-5	100
STA633: LAB	0-1-5-5	100
STA634: MAJOR PROJECT	5 credit	100