

Proposed Course for M. Sc. in STATISTICS AND COMPUTING
DST-CENTRE FOR INTERDISCIPLINARY MATHEMATICAL SCIENCES (CIMS),
BANARAS HINDU UNIVERSITY, VARANASI
Distribution of Different Courses and Credits in Various Semesters

SEMESTER - I

Course Code	Title	Credit
MSMS-101	Statistical Inference: Point Estimation	3
MSMS-102	Measure and Probability Theory	3
MSMS-103	Sampling Techniques and Designs of Experiment	3
MSMS-104	Functions & Numerical Computing	3
MSMS-105	Computing with R	3
MSMS-106	Practical based on above papers	4
Total		19

SEMESTER - II

Course Code	Title	Credit
MSMS – 201	Data Mining and Statistical Pattern Recognition	3
MSMS – 202	Advanced Statistical Inference	3
MSMS – 203	Linear Algebra and Basics of Linear Regression	3
MSMS - 204	Distribution Theory & Stochastic Process	3
MSMS – 205	Operations Research	3
MSMS – 206	Practical based on above Papers	4
MSMS – 207	SWAYAM Course	2
Total		21

SEMESTER - III

Course Code	Title	Credit
MSMS – 301	Time Series Analysis	3
MSMS – 302	Statistical Machine Learning	3
MSMS – 303	Multivariate Analysis	3
Any TWO papers out of the Paper Nos. MSMS – 304 to MSMS – 307		
MSMS – 304	Biostatistics	3
MSMS – 305	Non-Parametric Statistical Inference	3
MSMS – 306	Lifetime data Analysis	3
MSMS – 307	SAS and Statistical Computing	3
MSMS – 308	Practical based on above papers	4
MSMS – 309	SWAYAM Course	2
Total		21

SEMESTER - IV

Course Code	Title	Credit
MSMS –401	Bayesian Statistics and Computation	3
MSMS – 402	Computational Statistics	3
MSMS – 403	Advanced Regression Analysis	3
Any ONE paper out of the Paper Nos. MSMS – 404 - MSMS – 407		
MSMS – 404	Geostatistics	3
MSMS – 405	Official Statistics	3
MSMS – 406	Statistical Quality Control	3
MSMS – 407	Longitudinal Data Analysis	3
MSMS – 408	Practical based on above papers	3
MSMS – 409	Project Work	4
Total		19
GRAND TOTAL		80