

**Name of the Teacher: Dr. Rituraj Baruah**

**Semester: ODD & EVEN**

Class/Semester	Title & Code of the Paper Allotted (Credit)	Method of Teaching	Teaching Material	Unit	Topic	Period/ Hours Required	Details of the Contents	Remarks / Books
SemII(Even)	Introductory Probability (2Cr.)	Lecture, Board, Assignments	Text Book	IV	Mathematical Expectation	30	Moment/mgf/cgf/conditional expectation	Probability and Statistical Inference by Hogg, R.V., Tanis, E.A., Rao,J.M
Sem IV (Even)	Statistics for mathematics STSMJ-042(4Cr.)	Lecture & Board work	Text Book	I,II,II I,IV	Differential Equation/Algebra of matrices/Determinants	60	Exact differential Equation/Adjoint and Inverse of a matrix/Characteristic roots and equations	Zafar Ahsan: Differential Equations and their applications
Sem VI	STSMJ-061 (4Cr)	Lecture, Board, Assignments	Text Book	I/II/III	Linear Model and Regression Analysis	60	Simple linear regression, Multiple linear regression, BLUE, hypothesis testing, model diagnostic checking	Introduction to Linear Regression Analysis by Douglas Montgomery/ Elizabeth A.Peck/G, G.Vining
Sem I (Odd)	STSMJ-011 (2Cr.)	Lecture, Board, Assignments	Text Book	III	Correlation and Regression	30	Scatter Diagram, Karl Pearson correlation coefficient, lines of regression	Fundamental of mathematical Statistics by

								S.C. Gupta and V.K. Kapoor
Sem I (Odd)	STSMI-011 (2Cr.)	Lecture, Board, Assignments	Text Book	III	Correlation and Regression	30	Scatter Diagram, Karl Pearson correlation coefficient, lines of regression	Fundamental of mathematical Statistics by S.C. Gupta and V.K. Kapoor
Sem III (Odd)	STSMJ-031 (4Cr.)	Lecture & Discussion	Text book	I,II,II I,IV	Differential Calculus, Integral Calculus, Theory of equation, Review of limit	60	Limit/Partial differentiation/Leibnitz rule/Eular theorem/Definite integral/Gamma Funtion/Theory of equation/span of a set/review of limit/Taylor and Maclaurin's series	Gorakh Prasad: Differential Calculus, Integral Calculus,Pothi shala Pvt Ltd, Allahbad
Sem V (Odd)	STSMJ-051 (4Cr.)	Lecture, Board, Assignments	Text book	I,II,II I,IV	Econometrics	60	Econometric Models/Heteroscadastic ity/Multicollinearity/ Autocorrelation	Basic Econometrics by Damodar & Gujrati