

Paper : Descriptive Statistics II & Probability II (MN-2 Theory: 3 credits)			
Topic : Descriptive Measures	Allotted Time (In Hours)	Number of Classes	Teacher's Name
Bivariate data 1. Definition 2. Scatter Diagram 3. Simple correlation 4. Linear Regression 5. Principle of Least Squares 6. Fitting of Polynomial and Exponential Curves 7. Correlation Ratio 8. Correlation Index 9. Intra-class Correlation.	15	10	Debamalya Kar
Rank Correlation 1. Spearman's and Kendall's Measures.		5	Debamalya Kar
Analysis of Categorical Data 1. Contingency Table 2. Independence & Association of Attributes	5	5	Debamalya Kar

Paper : Descriptive Statistics II & Probability II

Topic : Probability	Allotted Time (In Hours)	Number of Classes	Teacher's Name
Random Variables 1. Definition of Discrete and Continuous Random Variables 2. Cumulative Distribution Function (c.d.f.) and its Properties (without proof) 3. Probability Mass Function (p.m.f.) 4. Probability Density Function (p.d.f.) 5. Expectation and Variance	25	5	Debamalya Kar
Standard Probability Distributions 1. Discrete Uniform 2. Binomial 3. Poisson 4. Normal		20	Debamalya Kar

Paper : Descriptive Statistics II & Probability II (MN-2 Practical: 1 credit)

Topic : Descriptive Measures and Probability	Allotted Time (In Hours)	Number of Classes	Teacher's Name
Descriptive Measures 1. Problems based on analysis of bivariate data 2. Problems based on measures of rank correlation. 3. Problems based on analysis of categorical data.	15	2	Debamalya Kar
Probability 1. Finding expectation, variance from a given probability distribution 2. Fitting of binomial distributions for n and $p = q = 1/2$ 3. Fitting of binomial distributions for given n and p 4. Fitting of binomial distributions after computing mean and variance 5. Fitting of Poisson distributions for given value of mean. 6. Fitting of Poisson distributions after computing mean. 7. Application problems based on binomial distribution. 8. Application problems based on Poisson distribution. 9. Problems based on area property of normal distribution. 10. To find the ordinate for a given area for normal distribution 11. Application based problems using normal distribution. 12. Fitting of normal distribution when parameters are given 13. Fitting of normal distribution when parameters are not given.		13	Debamalya Kar