

**Koyana Education Society, Patan
BALASAHEB DESAI COLLEGE, PATAN
DEPARTMENT OF STATISTICS**

**Academic Year 2023-2024
Monthly Teaching Plan
Semester II**

**Subject: Statistics
Paper No.: III and IV (Theory)**

**Class: B.Sc. I
Month: February**

Date	Unit and Subunits	Teaching method and Aids
01/02/2024	Unit 1.2.: Bivariate Discrete Distribution : Definition of expectation of function of r.v.'s,	Teaching method Lecture, Inductive Deductive Review lesson Problem Solving Drill-lesson Analytic
02/02/2024	Theorems on expectations	
03/02/2024	Expectation and variance of linear combination	
05/02/2024	Conditional mean, conditional variance	
06/02/2024	Problems	
08/02/2024	Covariance and correlation coefficient	
09/02/2024	joint p.g.f and properties	
10/02/2024	Problems	
12/02/2024	Examples	
13/02/2024	Unit 2.1: Discrete Probability Distributions (finite) One point: mean, variance	
15/02/2024	Two-point distribution : mean, variance	
16/02/2024	Bernoulli Distribution : mean, variance ,p.g.f.	
17/02/2024	Discrete Uniform Distribution : mean, variance	Teaching Aids Compute LCD PPT Google Classroom YouTube
20/02/2024	Binomial Distribution : mean, variance and p.g.f.	
22/02/2024	Binomial Distribution : Recurrence relation	
23/02/2024	Binomial Distribution : Additive property	
24/02/2024	Theorem : Sum of i.i.d. Bernoulli's r.v. is binomial	
26/02/2024	Problems on Binomial Distribution	
27/02/2024	Hyper geometric Distribution : mean, variance	
29/02/2024	Hyper geometric Distribution : : Recurrence relation	

No. of periods / Lectures					Action Taken
Planned	Missed	Extra taken	Actual taken	Syllabus Remaining	
20	05	03	23	02 Lecture	Planned in next month

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DEPARTMENT OF STATISTICS

Academic Year 2023-2024
 Monthly Teaching Plan
 Semester IV

Subject: Statistics

Paper No.: VII and VIII (Theory)

Class: B.Sc. II

Month: February

Date	Unit and Subunits	Teaching method and Aids
01/02/2024	Measures of skewness & Kurtosis of normal distribution,	Teaching method Lecture, Inductive Deductive Review lesson Problem Solving Drill-lesson Analytic Teaching Aids Compute LCD PPT Google Classroom YouTube
02/02/2024	Distribution of linear combination	
03/02/2024	Distribution of X^2 , where $X \sim N(0,1)$	
05/02/2024	Problems	
06/02/2024	Unit 1.2: Continuous Bivariate distributions : Definition of bivariate continuous r. v. (X, Y)	
07/02/2024	Joint p. d. f., marginal and conditional p.d.f	
08/02/2024	Joint c. d. f and their properties	
09/02/2024	Independence of r. vs.	
10/02/2024	Evaluation of probabilities,	
12/02/2024	Expectation of function of r.v.'s),	
13/02/2024	means, variances, Covariance, correlation coefficient,	
14/02/2024	Conditional mean and Conditional variance.	
15/02/2024	regression as conditional expectation if it is linear function	
16/02/2024	Theorems on expectation	
17/02/2024	Theorems on expectation	
20/02/2024	Problems	Google Classroom YouTube
21/02/2024	Unit 2.1: Transformations of Continuous Bivariate r.v.'s : Introduction	
22/02/2024	Distribution of bivariate r. vs. using Jacobin of transformation.	
23/02/2024	Distribution of $X/(X+Y)$, $X+Y$, where X and Y are independent gamma variates.,	
24/02/2024	Distribution of X/Y , where X and Y are inde. Gamma variates.	
26/02/2024	Problems	
27/02/2024	Problems	
28/02/2024	Problems	
29/02/2024	Problems	

No. of periods / Lectures					Action Taken
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24	05	03	22	02 lectures	Planned in next month

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