

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


**Academic Year 2024-2025
Monthly Teaching Plan
Semester I**

**Subject: Statistics
Paper No.: I and II (Theory)**

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

Date	Unit and Subunits	Teaching method and Aids
01/08/2024	S.D. & its properties	Teaching method Lecture, Inductive Deductive Review lesson Problem Solving Drill-lesson Analytic Teaching Aids Compute LCD PPT Google Classroom YouTube
02/08/2024	C.V. and Examples	
05/08/2024	Unit 2.3: Moments, Skewness and Kurtosis: Raw & Central Moments	
07/08/2024	Relation between moments and Sheppard's corrections.	
08/08/2024	Skewness its types, measures and Examples	
09/08/2024	Kurtosis its types, measures and Examples & Problems	
12/08/2024	Problems	
14/08/2024	Paper II : Elementary Probability Theory Unit 1.1: Sample space and events Experiment and Random experiment	
16/08/2024	Types of Sample space	
19/08/2024	Types of Events	
21/08/2024	Algebra of Events	
22/08/2024	Power Set	
23/08/2024	Symbolic representation	
26/08/2024	Unit 1.2 Probability: Equally likely events and apriori definition	
28/08/2024	Basic Problems on probability	
29/08/2024	Definition of probability in terms of odd ratio	
30/08/2024	Problems on probability	

No. of periods / Lectures					Action Taken
Planned	Missed	Extra taken	Actual taken	Syllabus Remaining	
17	01	01	17	00 lecture	Completed as per plan


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Academic Year 2024-2025
Monthly Teaching Plan
Semester III

Subject: Statistics
Paper No.: V and VI (Theory)

Class: B.Sc. II
Month: August

Date	Unit and Subunits	Teaching method
02/08/2024	Exponential Distribution : Definition, mean, variance, C.V., c.d.f, median, quartiles, m.g.f., c.g.f.	Teaching method Lecture, Inductive Deductive Review lesson Problem Solving Drill-lesson Analytic Teaching Aids Compute LCD PPT Google Classroom YouTube
03/08/2024	moments, Cumulants, , lack of memory property	
05/08/2024	distribution of $-\theta \times \log_e(X)$, where $X \sim U(0, 1)$, problems	
06/08/2024	Gamma distribution : Definition, mean, variance, mode.	
07/08/2024	Special case when $\theta = n = 1$. m.g.f., c.g.f., moments	
09/08/2024	cumulants, β_1 , β_2 , γ_1 and γ_2 coefficients	
10/08/2024	additive property and distribution of sum of i.i.d. exponential	
12/08/2024	Laplace Distribution : mean, variance, Distribution function, quartiles	
13/08/2024	m.g.f. moments, β_1 , β_2 , γ_1 and γ_2 coefficients.	
14/08/2024	Laplace distribution as a distribution of the difference of two i.i.d. exponential variates. examples and problems	
16/08/2024	1.1 Multiple Linear Regression (for trivariate data only) : Concept of multiple linear regression.	
17/08/2024	Plane of regression, Yule's notation	
19/08/2024	Fitting of regression plane by method of least squares	
20/08/2024	Correlation matrix, Partial regression coefficients and their interpretation.	
21/08/2024	Residual: definition, order,	
23/08/2024	Properties of residual	
24/08/2024	Derivation of mean and variance	
26/08/2024	Covariance between residuals	
27/08/2024	Residual plot., Problems	
28/08/2024	1.2 Multiple and Partial Correlation : Concept of multiple correlations.	
30/08/2024	Definition of multiple correlation coefficient, derivation of formula for multiple correlation coefficient.	
31/08/2024	Properties of multiple correlation coefficient	

No. of periods / Lectures					Action Taken
Planned	Missed	Extra taken	Actual taken	Syllabus Remaining	
22	03	03	22	00 lecture	Completed as per plan


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