

**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: December**

Date	Unit and Subunits	Teaching method and Aids
01/12/2023	Rank correlation coefficient,	Teaching method Lecture, Inductive Deductive Review lesson Problem Solving Drill-lesson Analytic Teaching Aids Compute LCD PPT Google Classroom YouTube
02/12/2023	Derivation of the formula for without ties	
04/12/2023	Modification of the formula for with ties	
05/12/2023	Illustrative examples.	
07/12/2023	Unit 1.2: Regression : Concept of regression	
09/12/2023	Lines of regression	
11/12/2023	Fitting of lines of regression	
12/12/2023	Regression coefficients and Properties	
14/12/2023	Derivation of acute angle between the two lines of regression.	
15/12/2023	Concept of residual, Mean residual sum of squares	
16/12/2023	Residual Plot Explained and unexplained variation,	
18/12/2023	Coefficient of determination,	
19/12/2023	Illustrative examples.	
21/12/2023	Unit 2.1 : Attributes : Introduction and Notations	
22/12/2023	Dichotomy, class, order of class,	
23/12/2023	Positive and negative class, class frequency	
26/12/2023	Ultimate and fundamental set of class frequency	
28/12/2023	Relationships among different class frequencies	
29/12/2023	Concept of consistency, Concept of independence	
30/12/2023	Association of two attributes and its measures	

No. of periods / Lectures					Action Taken
Planed	Missed	Extra taken	Actual taken	Syllabus Remaining	
20	01	01	20	00 lecture	Completed as per plan

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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: December

Date	Unit and Subunits	Teaching method and Aids
01/12/2023	Paper VIII : Statistical methods II Unit 2.1: Testing of Hypothesis I : Introduction	Teaching method Lecture, Inductive Deductive Review lesson Problem Solving Drill-lesson Analytic
02/12/2023	Population and Sample	
04/12/2023	Parameter and Statistic, Sampling distribution	
05/12/2023	Hypothesis and their types,	
06/12/2023	Type I and Type II errors,	
07/12/2023	Critical region, level of significance	
09/12/2023	One and two tailed test, power of test	
11/12/2023	Unit 2.2: Testing of Hypothesis II Large Sample Tests: $\mu = \mu_0$	
12/12/2023	Large Sample Tests: $\mu_1 = \mu_2$	
13/12/2023	Large Sample Tests: $P = P_0$	
14/12/2023	Large Sample Tests: $P_1 = P_2$	Teaching Aids Compute LCD PPT Google Classroom YouTube
15/12/2023	Large Sample Tests: $\rho = \rho_0$	
16/12/2023	Large Sample Tests: $\rho_1 = \rho_2$	
18/12/2023	Small sample tests : t - test: $\mu = \mu_0$	
19/12/2023	Small sample tests : t - test: $\mu_1 = \mu_2$	
20/12/2023	Paired t- test	
21/12/2023	χ^2 - test: $\sigma^2 = \sigma_0^2$	
22/12/2023	Test for goodness of fit	
23/12/2023	Test for independence of attributes : m x n table	
26/12/2023	Test for independence of attributes : 2 x 2 table	
27/12/2023	Yate's correction for continuity	
28/12/2023	F - test: $\sigma_1^2 = \sigma_2^2$.	
29/12/2023	Unit 1.1: Time series : Introduction,	
30/12/2023	Components of time series, Additive and Multiplicative model	

No. of periods / Lectures					Action Taken
Planed	Missed	Extra taken	Actual taken	Syllabus Remaining	
24	03	03 (10/02/23) Sunday	24	00 Lecture	Completed as per plan

DEPARTMENT OF STATISTICS
Balasahed Desai College, Patan,
Tal. Patan, Dist. Satara