

**Koyana Education Society, Patan
BALASAHEB DESAI COLEGE, 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: September

Date	Unit and Subunits	Teaching method and Aids
02/09/2024	Axiomatic definition, Proof of the results : $P(\Phi) = 0$, $P(A^c) = 1 - P(A)$	Teaching method Lecture, Inductive Deductive Review lesson Problem Solving Drill-lesson Analytic Teaching Aids Compute LCD PPT Google Classroom YouTube
04/09/2024	Proof of the results : Addition law and generalization	
05/09/2024	Proof of the results: If $A \subseteq B$, $P(A) \leq P(B)$, $0 \leq P(A \cap B) \leq P(A) \leq P(A \cup B) \leq P(A) + P(B)$.	
07/09/2024	Conditional Probability Definition and Examples	
13/09/2024	Multiplication theorem and examples	
18/09/2024	Unit 2.1 Independence of events: Concept of independence of two events.	
19/09/2024	Proof of the theorems on independence	
20/09/2024	Pairwise and Mutual independence for three events and examples	
23/09/2024	Baye's theorem: Proof and illustrative examples	
25/09/2024	Univariate Probability Distributions: Definition of Discrete random variable and probability mass function(p.m.f.) of r.v. and p.m.f. of function of r.v.	
26/09/2024	c.d.f., Properties of c.d.f. and Problems	YouTube
27/09/2024	median and mode of a univariate discrete probability distribution	
30/09/2024	Problems on median and mode	

No. of periods / Lectures					Action Taken
Planned	Missed	Extra taken	Actual taken	Syllabus Remaining	
13	01	00	12	01 lecture	planned in next month


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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: September

Date	Unit and Subunits	Teaching method
02/09/2024	Properties of multiple correlation coefficient	Teaching method Lecture, Inductive Deductive Review lesson Problem Solving Drill-lesson Analytic Teaching Aids Compute LCD PPT Google Classroom YouTube
03/09/2024	coefficient of multiple determination	
04/09/2024	Concept of partial correlation.	
06/09/2024	Definition of partial correlation coefficient, derivation of formula for partial correlation coefficient	
13/09/2024	Properties of partial correlation coefficient	
14/09/2024	Examples and problems	
17/09/2024	Unit 2.2: 1.1 Index Numbers Meaning and utility of index numbers	
18/09/2024	Problems in construction of index numbers	
20/09/2024	Types of index numbers: price, quantity and value.	
21/09/2024	Index numbers by using (i) aggregate method, (ii) average of price or quantity relative method (A.M. or G.M.)	
23/09/2024	Index numbers by using; Laspeyres, Paasche's, and Fishers formula.	
24/09/2024	Comparison of Laspeyres, Paasche's, and Fishers I. N.	
25/09/2024	Relation between Laspeyres, Paasche's, and Fishers I.N.	
27/09/2024	Tests of index numbers: Unit test, time reversal test and factor reversal tests. Problems on test	
28/09/2024	Cost of living index number: definition and construction	YouTube
30/09/2024	Purchasing power of money	

No. of periods / Lectures					Action Taken
Planned	Missed	Extra taken	Actual taken	Syllabus Remaining	
16	02	00	14	02 lecture	Planned in next month


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