



योजना तथा वास्तुकला विद्यालय, विजयवाड़ा
School of Planning and Architecture, Vijayawada
An Institute of National Importance, Ministry of Education, Govt. of India

Department of Planning,
Lecture Plan, Odd Semester, AY 2026-27

Name of Course: B.Planning

Subject Name:	Quantitative Methods for Planning (PLN115)
Year & Sem:	BPLAN I Year I Sem
Course Duration:	I Sem
Course Coordinator:	Srikanta Bhargava Teja
Number of Credits:	03
Subject Category:	TC
Total Periods/Week:	03
Internal Assessment	50
End Evaluation	50
Total Marks	100
Total No. of Internal Assessment & Mode	03 – class tests & written assignments

Subject Objective: To acquire basic proficiency in statistical techniques.

Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode	Reference/ Suggested Readings
21 st Aug (Week 01)	Unit I: Statistical Data Statistics – its uses and limitations, statistical data and sources of data, universe and sampling; Methods and tools of data collection	Lecture	1. Gupta S.C., 'Fundamentals of Statistics'. Himalaya Publishing House, Delhi. (BOOK) 2. Giri P K & Banerjee., 'Introduction to Statistics'. Academic Publishers, Delhi. (BOOK)
28 th Aug (Week 02)	Formulation of tools of data collection; classification and tabulation of data; presentation of data (diagrammatic, tabular, graphical)	Lecture	
4 th Sept (Week 03)	Sampling data coding and validation; design of survey formats.	Tutorial	
11 th Sept (Week 04)	Unit II: Statistical Methods Frequency distribution; measures of central tendency and dispersion	Lecture	
12-20 th Sept, 2026	Field Visit		
25 th Sept (Week 05)	Correlation - Simple correlation, Karl Pearson's and Spearman's correlation, linear regression analysis	Tutorial	Christian Heumann., Introduction to Statistics and Data Analysis, Springer, Switzerland



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9 th Oct (Week 06)	Unit III: Probability Introduction to probability; discrete random variable and probability distribution	Lecture	Ash Robert B., 'Basic Probability Theory' Dover Publications, New York. 6. Veerarajan T., 'Probability Statistics and Random Processes, India
16 th Oct (Week 07)	Guest Lecture		
23 rd Oct (Week 08)	Mid- Semester Assessment week		
30 th Oct (Week 09)	Continuous random variable and probability distribution, probability density function.	Tutorial	Triola Mario F., 'Essentials of Statistics', Pearson Education Limited.
6 th Nov (Week 10)	Unit IV: Theoretical Distributions Binomial distribution; poisson distribution; Normal Distribution;	Lecture	Ash Robert B., 'Basic Probability Theory' Dover Publications, New York. 6. Veerarajan T., 'Probability Statistics and Random Processes, India
13 th Nov (Week 11)	Relation between binomial, normal distributions, poisson and normal distributions	Tutorial	
20 th Nov (Week 12)	Unit V: Index Numbers and Regression Analysis Types and methods of construction of index numbers; Test of consistency of index number formulae;	Lecture	Sharma A.K., 'Textbook of Elementary Statistics', Discovery Publishing House, India Chatterjee Samprit and Hadi Ali S., 'Regression Analysis by Example' Wiley Publication, New Jersey.
27 th Nov (Week 13)	Chain base index numbers and cost of living index numbers.	Lecture	Smithson M., 'Confidence Intervals', Sage Publications, New Delhi
4 th Dec (Week 14)	Regression - least square method; Two stage. Confidence limits; Tests of significance.	Tutorial	
12 th November end of class work			

Details of Internal Assessments

Tentative Date/Week of the Assessment	Mode of Assessment	Marks of the Assessment
Week 4/5	Quiz	10
Week 8	Written Test	20
Week 12/13	PPT on analysis with real data	20



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Note:

1. Any other closed holidays as declared by SPAV shall supersede the above lecture plan. Holidays shown above may alter as per Notice from time to time.
2. Assessment Sessions may be re-scheduled, with prior intimation.
3. Reading lists provided is not exhaustive and is subject to addition – students are advised to follow progression of class to keep abreast of the new reading lists, if any.

Signature of the Faculty