

Syllabus

COMCC11

STATISTICAL TOOLS FOR DATA ANALYSIS

Credit: 1

Course Duration: 35 hrs.

COURSE OBJECTIVES:

- To provide an understanding for the students on statistical concepts, employ the correct tools of analysis and effectively present the result

COURSE OUTCOMES:

At the end of the course students will be able to apply the correct tools of analysis and do their project work more effectively.

SCHEME & SYLLABUS

Module 1

Statistical inferences- Testing of hypothesis- Meaning – Procedure for testing hypothesis- Null hypothesis and Alternative hypothesis- Types of errors- Test statistics- Sample distribution- Level of significance- Difference between standard error and standard deviation
(10 Hours, 15 marks)

Module II

Parametric Test and Non parametric test- t-test for small samples- Z test for large samples- Problems from t-test and Z test
(10 Hours, 15 marks)

Module III

Non Parametric Test- Chi-square Test for goodness of fit- Degree of freedom- F-test and Analysis of Variance- One way Analysis and Two way Analysis (15 Hours, 10 marks)
(Theory and Problems may be in the ratio of 30% and 70% respectively)

Reference Books:

1. Statistical Methods – SP Gupta – Sulthan Chand & Sons
2. Quantitative Techniques for Business- LR Potti- Yamuna Publications

3. Data Analytics: Principles, Tools, and Practices-Gaurav Aroraa- BPB Publication

STRATEGIES FOR INSTRUCTION

The medium of instruction and examination shall be English. Class will be engaged in online and offline platform

EVALUATION & GRADING

SCHEME OF EVALUATION

METHOD OF EVALUATION			
Assessment Methods	Criteria	Marks	Weightage
Formative Assessment (FA)	Attendance	4	25%
	Assignment/Project/Activities/Reports	6	
Summative Assessment (SA)*	Test Paper	30	75%
	Total	40	100

(*Summative Assessment – Internal/External Evaluation)

ATTENDANCE

Attendance	Marks
90-100%	4
85-89.9%	3
80-84.9%	2
75-79.9	1
<75%	0

GRADING POLICY

Grade	Percentage of total marks (FA+SA)
A	80% & above
B	60-79.9%
C	50-59.9%
D	40-49.9%