


FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
DEPARTMENT OF STATISTICS
COURSE CURRICULUM

PART A - Introduction			
Program – Bachelor in Statistics Certificate / Diploma / Degree / Honors		Semester – II/IV/VI	
1.	Course Code	STSEC - 01	
2.	Course Title	Statistical Data Analysis Using SPSS and R	
3.	Course Type	Skill Enhancement Course	
4.	Pre – Requisite (If Any)	As Per Program	
5.	Course Learning Outcomes (CLO)	Students will acquire <ul style="list-style-type: none"> ➤ various basic concepts related to computer architecture and its organization, various peripheral devices, ➤ languages: machine language, assembly language and high level languages, ➤ ideas on operating systems, linker, loader and compiler etc., ➤ R programming with some basic notions for developing their own simple programs and visualizing graphics in SPSS and R, 	
6.	Credit Value	2 Credits	Credit = 15 Hours of teaching & Observation
7.	Total Marks	Max. Marks : 50	Min Passing Marks : 20
PART B – Content Of the Course			
Total Number of Teaching learning periods (01 hr. per period) – 30 periods (30 hours)			
Unit	Topics (Course Content)		No. of Periods
I	Learn how to load data, plot a graph viz. histograms (equal class intervals and unequal class intervals), box plot, stem-leaf, frequency polygon, pie chart, ogives with graphical summaries of data.		08
II	Generate automated reports giving detailed descriptive statistics, correlation and lines of regression.		07
III	Random number generation and sampling procedures. Fitting of polynomials and exponential curves. Application Problems based on fitting of suitable distribution, Normal probability plot.		08
IV	Simple analysis and create and manage statistical analysis projects, import data, code editing, Basics of statistical inference in order to understand hypothesis testing and compute p-values and confidence intervals.		08
Keywords	SPSS, R language, Histograms, Chart, reports, descriptive statistics.		
Name and Signature of Convener and Members (CBoS)			
			

PART C – Learning Resources

Text Books, References , Books and Others

Text Books Recommended –

1. Moore, D.S. and McCabe, G.P. and Craig, B.A. (2014): Introduction to the Practice of Statistics, W.H. Freeman
2. Cunningham, B.J (2012): Using SPSS: An Interactive Hands-on approach

Reference Books Recommended –

1. Cho, M.J., Martinez, W.L. (2014) Statistics in MATLAB: A Primer, Chapman and Hall/CRC

Online Resources –

E – resources / E – Books and E – Learning Portals

PART D – Assessment and Evaluation**Suggested Continuous evaluation methods –****Max. Marks: 50 Marks****Continuous Internal Assessment (CIA) 15 Marks****End Semester Exam (ESE) 35 Marks**

Continuous Internal Assessment (CIA) (By Course Teacher)	Internal Test / Quiz (2) – 10 + 10	Best marks out of the two Test / Quiz + Obtained marks in assignment shall be considered against 30 marks
	Assignment / Seminar – 05	
	Total Marks - 15	
End Semester Exam (ESE)	Two Sections – A & B Section A – Q1. Objective – 10 X 1/2 = 5 marks Q2. Short Answer Type – 5 X 2 = 10 marks Section B: Descriptive answer type questions 1 out of 2 from each unit – 4 X 5 = 20 marks	

Name and Signature of Convener and Members (CBoS)

