

## Skill Enhancement Courses (FYUGP)

**Subject: Economics**

**Third Semester**

**Academic Session: 2024-25**

SkillCourseName		Paper Code	Credit	Evaluation
Sl.No.27	Data Analysis in Social Sciences	xxxxxx	3	40-60

**Total Marks: 75**

**(Theory: 45, Internal Assessment: 30)**

**Credit: 3**

### Course Outcomes

This curriculum is meticulously crafted to facilitate students in grasping the foundational principles and multifaceted dimensions of select statistical methodologies employed within research paradigm used in Economics. Students shall engage in pragmatic exercises involving data entry, and the exposition of data through computational tools such as Microsoft Excel. Additionally, students shall be tasked with compiling a comprehensive report on the accrued data, followed by a nuanced interpretation of the derived outcomes.

### Course Outlines

Unit No.	UnitContent	No. ofClasses(60)	Marks(75)
1.	<b>DataAnalysis</b>	10	10
	Introduction,Datasources;Typesofdata-Primary andSecondarydata,Quantitativedata(Discrete,Continuous),Categorical data(Nominal,Ordinal);Time-seriesand Cross-sectiondata.		
2.	<b>AnOverviewofSurveyResearch</b>	20	25
	Definition of a survey, types of survey, Basics of ResearchMethods– developingresearchquestions/hypothesesandobjectives, designing questions and response formats, sample size determination, Types of hypothesis, Procedure of testing hypothesis.		
3.	<b>BivariateStatistics</b>	10	20
	Correlation-Types,Co-efficientofCorrelation,Rank Correlation; Simple Linear Regression analysis, Regression Equations.		
4.	<b>Application</b>	20	20
	Handsonanalysis ofreal datasetsusingcomputer software		

	MS-excel; visualizing data with graphs and charts; interpreting statistical output, drawing conclusions; Report preparation.		
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### **Suggested Readings:**

- Gupta, S. C. *Fundamental of Statistics*, S. Chand & Company. New Delhi
- Gupta, S. P. *Statistical Methods*, S. Chand & Company. New Delhi
- Field, A. (2022). *An adventure in statistics: The reality enigma*. Sage.
- Ministry of Statistics and Program Implementation | Government of India (mospi.gov.in)
- Best, H., & Wolf, C. (Eds.). (2013). *The SAGE handbook of regression analysis and causal inference*. Sage.
- Vannette, D. L., & Krosnick, J. A. (Eds.). (2017). *The Palgrave handbook of survey research*.
- Wilson, J. (2018). *Academic writing: A guide to writing for publication*. Oxford University Press.

**Prepared by:**

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