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भारतीय अर्थशास्त्र 17-08-2023
क्रमांक :- 21 विद्यार्थी/विद्यार्थिनी 14

Statistics
B.Com
(SEMESTER - I)

Course Code:
Course Title: Data Collection Methods.
Course Category: Minor
Credit: 4 Credit
Implementation year: A. Y. 2023-24
Course Objective: The main objective of this course is to acquaint students with

different data collection methods and its process in research and project work. Students can be developed their skill about different diagram and Graphs and also will be able to understand the ideology about suitable graphs. The purpose of this course is to give some essence of measures of central tendency and dispersion based on different scale so that they can get some idea about when a particular measure can be used.

Course Outcomes:

CO1	Understand about how to collect Data using different data collection methods.
CO2	Understand the process of data collection and its use in research/project work.
CO3	Understand about how to code and decode the data and how to use it using questionnaire so that they can easily entre the data in to different statistical soft ware's.
CO4	Represent the data using diagrams and graphs to present the data before laymen.
CO5	Develop the skills about different descriptive statistics for different measures of scale which will help them for further research work.

Teaching Methodology: Class work, discussion, self study, seminars/
presentations and assignments.

Evaluation method: 30% Internal Assessment and 70% External Assessment.

Sr.No.	Course Inputs (As per UGC Model Curriculum)	Weightage	Marks
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B. Tripathi
S. K. Singh

Unit -1	<p>Data collection methods and its process</p> <ul style="list-style-type: none"> ➤ Meaning of Data collection and its importance in research ➤ Measurement of Scales: Nominal, Ordinal, Interval, Ratio ➤ Primary Data Collection Methods : Surveys or Questionnaire, Observations, Experiments, Interview, Focus Groups, Delphi Technique ➤ Sources of Secondary Data Collection: Financial Reports, Sales Reports, Government Reports, Company Statement, Internet ➤ Process of Data Collection ➤ Preparation of Questionnaire for the Research and Project Work ➤ Practical: Questionnaire Preparation using Practical Research Problem 	30%	15
Unit-2	<p>Data Handling & Its Presentation:</p> <ul style="list-style-type: none"> ➤ Meaning of coding ➤ Meaning of decoding ➤ Process of Data Coding and its practical ➤ Diagrammatic and Graphical Presentation of Data: <ul style="list-style-type: none"> • Diagrams: <ul style="list-style-type: none"> ➤ Meaning of Diagram ➤ Rules for construction of diagram ➤ Types of diagram: Line Diagrams, Bar Diagrams, Stem and Leaf Diagram • Graphs: <ul style="list-style-type: none"> ✓ Meaning of Graphs ✓ Types of Graphs: Frequency Distribution Graphs, Histogram, Frequency Distribution Curves, Cumulative Frequency Distribution Graphs, Ogive • Difference between Diagram and Graph 	40%	20
Unit-3	<p>Descriptive Statistics for different Measures of Scale: (Scale Based illustrations only)</p> <ul style="list-style-type: none"> ➤ Concept of Measures of Central Tendency ➤ Descriptive Statistics for Nominal Scale : Mode ➤ Descriptive Statistics for Ordinal Scale: Median, Quartiles, Deciles, Percentile ➤ Descriptive Statistics for Interval or Ratio Scale: <ul style="list-style-type: none"> ✓ Measures of Central Tendency: (1) Mean: Arithmetic Mean, Harmonic Mean, Geometric Mean, (2) Quartiles, (3) Deciles, (4) Percentiles ✓ Measures of Dispersion: Variance, Standard Deviation, Coefficient of Variation 	30%	15
Grand Total		100%	50

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Reference Books:		
1.	Hooda, R.P	Statistics for business and economics; Macmillan. New Delhi.
2.	Dr. S.S. Chaudhary, Dr. Madhu Gupta, Dr. Govind Singhal, Dr. Sanjay Jain	DESCRIPTIVE STATISTICS -Text Book For B.Sc , M.Sc , Ph.D & Other Research Purpose in Statistics
3.	Goon A.M., Gupta M.K. and Dasgupta B. (2000):	Fundamentals of Statistics, Vol. I & II, 8 th Edn. The World Press. Kolkata.
4.	Dr. M. H. Lohgaonkar	Descriptive Statistics-I
5.	Gun. A.M.Gupta, M.k. and Dasgupta.B.(2008)	Fundamental of Statistics, Vol. II, 9th Edition World press.
6.	S.P. Gupta, M.P. Gupta	Business Statistics 18 th Edition
7.	Hole & Jessen	Basic Statistics for business and economics: John Wiley and Sons. New York
8.	P. Sundara Pandian, S. Muthulakshmi, T. Vijaykumar	Research Methodology & Applications of SPSS in Social Science Research
9	Prof. H.D. Shah	ગાણિતિકઆંકડાશાસ્ત્ર ,યુનિવર્સિટી ગ્રંથનિર્માણ બોર્ડ- અમદાવાદ , ગુજરાત
10	ડો.આર.એસ.પટેલ	સંશોધન માટે આંકડાશાસ્ત્રીય પ્રયુક્તિઓ - Jay Publication
11	M.C.Jayswal(1974)	અર્થ વિષયક આંકડાશાસ્ત્ર, યુનિવર્સિટી ગ્રંથ નિર્માણ બોર્ડ – અમદાવાદ, ગુજરાત.
12	Dr. R T Ratani	પ્રયુક્ત આંકડાશાસ્ત્ર, ગુજરાત યુનિવર્સિટી ગ્રંથનિર્માણ બોર્ડ- અમદાવાદ , ગુજરાત

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