SRI DEV SUMAN UTTARAKHAND UNIVERSITY

BADSHAITHAUL (TEHRI GARHWAL)

STRUCTURE OF

UNDER GRADUATE PROGRAMMES

VOCATIONAL/SKILL DEVELOPMENT COURSE IN ECONOMICS (DATA ANALYSIS)

FOR

SESSION: 2023-2024
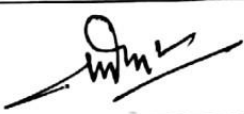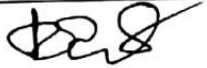
DEPARTMENT OF ECONOMICS

PDT.L.M.S.SRI DEV SUMAN UTTARAKHAND UNIVERSITY,

CAMPUS RISHIKESH

SRI DEV SUMAN UTTARAKHAND UNIVERSITY
Badshahithaul,Tehri Garhwal (Uttarakhand)
Members of Board of Studies Economics

S. N.	Name of the Members	Designation	Nominated As	Signature
1.	Dr. D.C. Goswami	Professor, Head & Dean of Arts	Chairman	
2.	Dr.Pushpanjali Arya	Professor,& Head Department of Economics	Member	
3.	Dr. Ashok Kumar	Assistant Professor Department of Economics	Member	
4.	Dr. Rajendra P. Mamgain	Professor, Head Dept. of Economics, Doon University, Dehradun	Member	
5.	Prof. Janki Panwar	Principal G.P.G.C.Kotdwar	Member	
6.	Prof.Lovely Rajvanshi	Principal G.P.G.C.Jaiharikhal	Member	
7.	Prof. K.L. Talwar	Principal G.D.C. Chakrata	Member	
8.	Nedesak, Uttarakhand Bhasa Sansthan	Nedesak Rajpur Road, Dehradun	Member	

Vocational/Skill Development Course in Economics Department

Vocational Course-01		
Programme: Certificate Course in Economics	Year : First	Semester-I Paper- I VC
Subject : Economics		
Course Code: ECOVC -01	Course Title: DATA ANALYSIS-I	
Course outcome: 1. Building knowledge and understanding of collection and presentation of data for drawing statistical inferences. 2. To introduce the students the important data sources that is available. 3. To train the students in the use of free statistical software to analyse data.		
Credit: 3 (Three)	Elective	
Maximum marks: 25+75	Minimum Passing Marks: 33	
Total no. of lectures-tutorials-practical(labour per week):3-0-0		

Unit	Topic	No. of lectures
Unit 1	Statistics: Meaning, Definitions, Scope, Importance and Limitations of Statistics; Role of statistics in economic Analysis Collection of data- Primary and Secondary.	15
Unit 2	Census and Sampling. Methods of data collection .Classification and Tabulation of data. Diagrammatic and Graphical representation of data Measures of Central Tendency-Arithmetic mean, Geometric mean and Harmonic mean	15
Unit 3	Median, Mode, Measures of dispersion- Range, Quartiles, Quartile Deviation, Mean Deviation.	15

Suggested Readings:

Allen, R.G.D., Mathematical Analysis for Economists, Macmillan Press and ELBS, London. Chiang, A.C., Fundamental Methods of Mathematical Economics, McGraw Hill, New York. Gupta, S.C., Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi. Monga, G.S., Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi. Speigal, M.R., Theory and Problems of Statistics, McGraw Hill Book Co., London.

Suggested on line link: www.ignou ,www.swayam.

This course can be offered as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria – Assignment /Assignment Presentation/ Class Test/Seminar/ Attendance

Course Prerequisites: N/A

Vocational/Skill Development Course in Economics Department

Vocational Course-01		
Programme: Certificate Course in Economics	Year : First	Semester-II Paper= I VC
Subject : Economics		
Course Code: ECOVC -02	Course Title: DATA ANALYSIS-II	
Course outcome: 1. Building knowledge and understanding of collection and presentation of data for drawing statistical inferences. 2. To introduce the students the important data sources that is available. 3. To train the students in the use of free statistical software to analyse data.		
Credit: 3 (Three)	Elective	
Maximum marks: 25+75	Minimum Passing Marks: 33	
Total no. of lectures-tutorials-practical(labour per week):3-0-0		

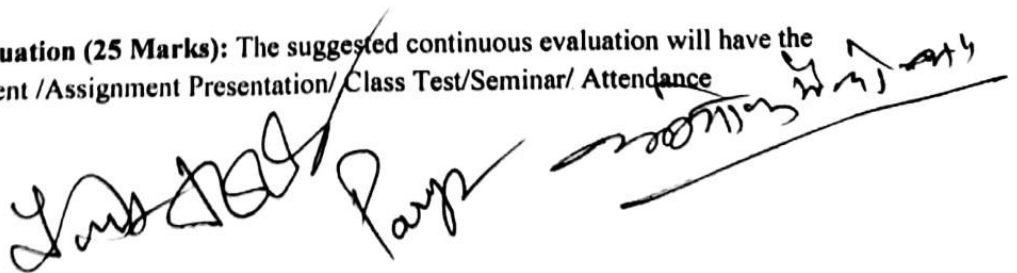| Unit	Topic	No. of lectures
Unit 1	Standard Deviation, Co-efficient of Variation	15
Unit 2	Skewness- Karl Pearson's and Bowley's method Moments and Kurtosis	15
Unit 3	Correlation: Introduction, Types. Methods of studying Correlation: scatter Diagram Method	15

Suggested Readings:

Allen, R.G.D., Mathematical Analysis for Economists, Macmillan Press and ELBS, London. Chiang, A.C., Fundamental Methods of Mathematical Economics, McGraw Hill, New York. Gupta, S.C., Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi. Monga, G.S., Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi. Speigal, M.R., Theory and Problems of Statistics, McGraw Hill Book Co., London.

Suggested on line link: www.ignou ,www.swayam.

This course can be offered as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria – Assignment /Assignment Presentation/ Class Test/Seminar/ Attendance

Course Prerequisites: N/A

Vocational/Skill Development Course in Economics Department

Vocational Course-01		
Programme: Certificate Course in Economics	Year : Second	Semester-III Paper- I VC
Subject : Economics		
Course Code: ECOVC -03	Course Title: DATA ANALYSIS-III	
Course outcome: 1. Building knowledge and understanding of collection and presentation of data for drawing statistical inferences. 2. To introduce the students the important data sources that is available. 3. To train the students in the use of free statistical software to analyse data.		
Credit: 3 (Three)	Elective	
Maximum marks: 25+75	Minimum Passing Marks: 33	
Total no. of lectures-tutorials-practical(labour per week):3-0-0		

Unit	Topic	No. of lectures
Unit 1	Karl Pearson and Rank Correlation; Probable Error	15
Unit 2	Association of Attributes. Yule's coefficient of Association Regression Analysis	15
Unit 3	Introduction to Probability Theory: Meaning and definition of Probability Probability Rules, Conditional Probability.	15

Suggested Readings:

Allen, R.G.D., Mathematical Analysis for Economists, Macmillan Press and ELBS, London. Chiang, A.C., Fundamental Methods of Mathematical Economics, McGraw Hill, New York. Gupta, S.C., Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi. Monga, G.S., Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi. Speigal, M.R., Theory and Problems of Statistics, McGraw Hill Book Co., London.

Suggested on line link: www.ignou ,www.swayam.

This course can be offered as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria – Assignment /Assignment Presentation/ Class Test/Seminar/ Attendance

Course Prerequisites: N/A

Vocational/Skill Development Course in Economics Department

Vocational Course-01		
Programme: Certificate Course in Economics	Year : Second	Semester-IV Paper- I VC
Subject : Economics		
Course Code: ECOVC -04	Course Title: DATA ANALYSIS-IV	
Course outcome: 1. Building knowledge and understanding of collection and presentation of data for drawing statistical inferences. 2. To introduce the students the important data sources that is available. 3. To train the students in the use of free statistical software to analyse data.		
Credit: 3 (Three)	Elective	
Maximum marks: 25+75	Minimum Passing Marks: 33	
Total no. of lectures-tutorials-practical(labour per week):3-0-0		

Unit	Topic	No. of lectures
Unit 1	Index numbers : Introduction, uses, types and problem in construction of Index Numbers, Price and quantity index numbers, Laspeyre's Method, Paasche's Method,Fisher's Method. Tests for adequacy of Index Numbers.	15
Unit 2	Time Series Analysis: Concept; Components; Least Square Method of Determination of Trend Extrapolation and Interpolation: Binomial and Newton's Method.	15
Unit 3	Basic Concept of Determinants and Matrices .Various types of Matrices. Simple operation on Matrix.	15

Suggested Readings:

Allen, R.G.D., Mathematical Analysis for Economists, Macmillan Press and ELBS, London. Chiang, A.C., Fundamental Methods of Mathematical Economics, McGraw Hill, New York. Gupta, S.C., Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi. Monga, G.S., Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi. Speigal, M.R., Theory and Problems of Statistics, McGraw Hill Book Co., London.

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This course can be offered as an elective by the students of following subjects: Open to all

Suggested Continuous Evaluation (25 Marks): The suggested continuous evaluation will have the following criteria – Assignment /Assignment Presentation/ Class Test/Seminar/ Attendance

Course Prerequisites: N/A