



AFFILIATED TO KANNUR UNIVERSITY

Cherupuzha

Department of Economics

DEPARTMENT OF ECONOMICS

CERTIFICATE COURSE SYLLABUS YEAR: 2020-21

FOR UG STUDENTS

NJCECO/CP03/2020-21: DATA ANALYSIS USING STATISTICAL PACKAGE FOR SOCIAL SCIENCES (SPSS)

(30 hours)

Course Outcomes

Students' familiarity about the tool box of statistical software.

Capacitating students in analysing complex information with the help of statistical software – Statistical Package for Social Sciences (SPSS).

A strong theoretical and empirical foundation in statistical analysis.

Module I: Introduction to SPSS (4 Hours)

SPSS Environment: data editor, output viewer, syntax editor – Data view window – SPSS Syntax – Data creation – Importing data – Variable types in SPSS and Defining variables – Creating a Codebook in SPSS.

Module II: Working with Data (6 Hours)

Computing Variables - Recoding (Transforming) Variables: Recoding Categorical String Variables using Automatic Recode - Rank Cases - Sorting Data - Grouping or Splitting Data.

Module III: Exploring Data (10 Hours)

Descriptive Statistics for Continuous Variables - The Explore procedure - Frequencies Procedure – Descriptive - Compare Means - Frequencies for Categorical Data.

Module IV: Analyzing Data (10 Hours)

Inferential Statistics for Association: Pearson Correlation, Chi-square Test of Independence – Inferential Statistics for Comparing Means: One Sample t Test, Paired-Samples T Test, Independent Samples T Test, One-Way ANOVA.

References

1. IBM 2016, *IBM Knowledge Center: SPSS Statistics*, IBM, viewed 18 May 2016, <https://www.ibm.com/support/knowledgecenter/SSLVMB/welcome/>
2. HOW TO USE SPSS ® A Step-By-Step Guide to Analysis and Interpretation, Brian C. Cronk, Tenth edition published in 2018 by Routledge.
3. SPSS for Intermediate Statistics: Use and Interpretation, Nancy L. Leech et. al., Second edition published in 2005 by Lawrence Erlbaum Associates, Inc.
4. Using IBM SPSS statistics for research methods and social science statistics, William E. Wagner, Fifth edition published in 2015 by SAGE Publications, Inc.

Criteria for Getting the Certificate

1. Students shall have at least 75% attendance to complete the course.
2. The course is framed to be of 30 hour duration.
3. The total score of the course will be 50 out of which 10 marks are assigned for internals and 40 marks are for the proctored exam.
4. The course coordinator will be in charge of the examinations. Two assignments of 5 marks each will be given during the course.
Course end examination will be conducted on SPSS software out of 40 marks.
5. The students shall attend and pass the exam, which will be completed at the end of the course, with at least 40% marks.
6. Students shall secure 40% marks in proctored assignments as well as in the exam.

GRADING PATTERN

Marks in Percentage	Grade	Interpretation
90 and Above	A+	Outstanding
80-89	A	Excellent
70-79	B	Very good
60-69	C	Good
50-59	D	Satisfactory
40-49	E	Pass/Adequate
Below 40	F	Failure