



CHRIST
COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA
Reaccredited by NAAC with 'A' grade

DEPARTMENT OF COMMERCE (Aided) CERTIFICATE COURSE DETAILS

NAME OF THE COURSE

Certificate course on Data Analysis using SPSS

COURSE CODE

MCMC01

COURSE DETAILS

Eligibility: Plus Two.

Course Duration: Three Months

Total Hours : 30 Hours

Course Fee: ₹1500



COURSE COORDINATOR

Dr JOSHEENA JOSE

OFFERED BY

PG Department of Commerce
Christ College (Autonomous) Irinjalakuda

ABOUT COLLEGE

Christ College (Autonomous), Irinjalakuda established in the year 1956 by CMI fathers has always been a place where young generations are moulded towards a bright future. College has excellent infrastructure, with state of the art laboratories, seminar rooms and lecture halls. The campus is Wi-Fi enabled. Presently College is home for 4500+ students, 200 teaching staff and 45 supporting staff. The strength of the College lies in its hardworking and tech savvy teachers who are eager to involve in all matters of students. The lush green campus with gardens and open gym is moving towards the next phase on education both offline and online.

WHAT IS THE COURSE?

This course describes the data; graphical and numerical description of the data and extensive usage of the SPSS to analyze the data. The focus of SPSS training program will be to help participants learn statistical skills through exploring SPSS and its different options. The focus will be to develop practical skills of analyzing data, developing an independent capacity to accurately decide what statistical tests will be appropriate with a particular kind of research objective.



SCOPE OF THE COURSE

On completion of this course the participants will develop an ability to independently analyze and treat data, plan and carry out new research work based on their research interest.

Participants will be assessed on practical assignments and tests after the completion of training program. There will be both lab work and two personal assignments. One personal assignment will be a sort of research project that students have to pursue in such a way that after completion of program it's suitable for publication in a good journal.

LEARNING OUTCOMES

- The students will be enabled to undertake data analysis tasks required in preparing project reports and dissertations using statistical techniques.
- The students can undertake research projects, field surveys, data compilation, graphical displays etc.
- The participants are tailored with demands for data analysts in the global analytics market.

COURSE OUTLINE

- Data Management in SPSS
- Data Management through Transformation
- Parametric test
- Non Parametric test



COURSE MODULES

Module 1

Data Analysis using SPSS: Data Management in SPSS, Adding Variables in SPSS Data Loading in SPSS through Questionnaire. (5 Hrs)

Module 2

Data Management through Transformation, Normality tests, Kolmogorov Smirnov tests, Reliability analysis, Factor Analysis (5Hrs)

Module 3

Parametric test: One Sample z and t test for mean, critical value method, p-value method, Confidence Interval method, Independent Sample t-test and Paired Sample t test, Correlation, Simple Linear Regression, R Square, Adjusted R Square, ANOVA, multiple comparisons (10 Hrs)

Module 4

Non Parametric test: Chi-square test for testing the association between attributes Mann Whitney U test, Signed Rank test, Kurskal Wallis H Test (10Hrs)

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