

DEPARTMENT OF STATISTICS UNIVERSITY OF MUMBAI

Offers

Certificate Course in Data Analysis using SPSS Software

Duration: Six Month

Eligibility: Graduate from any stream (12th Standard Mathematics Required)

Last Date of submission of Application form: 1st August, 2022.

Total Seats: 30

Fees: Rs. 10800/-

Head

Dr.V.U.Dixit

For details visit following address

Address: Department of Statistics

Second floor, Tilak Bhavan

Vidyanagari Campus

Santacruz (east) Tel: 022-26533710

Website: www.mu.ac.in

Admission link:

https://parttimecourses.mu.ac.in

Certificate course will be conducted on either Saturday or Sunday from 10 am to 3pm.

Detailed syllabus for the course.

| Sr.no. | Title | Content of Syllabus |
|--------|--|--|
| 1 | Introduction | Type of Scale of Measurements, Choosing appropriate scale and measurement to the data, Preparing codebook. Getting to Know SPSS: Starting SPSS, Working with data file, SPSS windows, Menus, Dialogue boxes. Preparing the Data file: Creating data file and entering data, Defining the variables, Entering data, modifying data file, import file. Screening and cleaning data, Manipulation of data. |
| 2 | Preliminary Analysis | Descriptive statistics: Categorical variables, continuous variables, checking normality, outliers checking. Choosing the right statistics: Overview of different statistical techniques, Decision making process. |
| 3 | Statistical techniques: Explore relationship among variables | Correlation: Pearson product moment correlation, Spearman rank correlation, Partial correlation, Simple linear regression, Multiple Linear Regression: Assumptions, overall significance, multicollinearity, Variable selection methods. |
| | Statistical techniques: Compare means | One sample and two Independent sample t test, Paired sample t test, One way Analysis of variance, Two way ANOVA, Multivariate ANOVA, Analysis of Covariance, Repeated measures. |

Academic Council -03/10/2019

Item No. 4.14

| 5 | Non-Parametric statistics | Independent Chi square Test, Mann- Whitney test, Wilcoxon signed rank test, Kruskal-Wallis test. |
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| 6 | Advanced Models: | Logistic Regression and Discriminant Analysis, Factor Analysis, Cluster Analysis. |
| | Multivariate statistical techniques. | Allulysis, sluster Allulysisi |