Anekant Education Society's

# Tuljaram Chaturchand College of Arts, Science and Commerce Baramati

## Department of Statistics

## "Report of Certificate Course Basic SPSS"

## 2021-2022

M.Sc. II Sem III Statistics students has Registered for Certificate course on Basic SPSS during 02/02/2022 to 12/02/2022. Students have completed this course successfully on 12/02/2022. 45 Students have registered for Basic SPSS.

All Students have attended course and submitted their tutorials. They have completed their practical work at Department of Statistics.

This certificate course helped students to understand the concept of statistics and they can make their own data analysis using SPSS. They gained information about which tools to be applied for the analysis, overall it was a motivating session as students actively participated and enjoyed the same.

Dr. Vaishali V. Patil
Co-ordinator

Dr. Avinash S. Jagtap
Head,
Department of Statistics

Anekant Education Society's
TULJARAM CHATURCHAND COLLEGE
OF ARTS, SCIENCE AND COMMERCE, BARAMATI
AUTONOMOUS

# Department of Statistics

Date-01/02/2022

# NOTICE

(For M.Sc. Part II Statistics Students)

## Certificate Course Examination

## CC-075 Basic SPSS

**Certificate Course (2 credit course)**

**Date** : 14/02/2022
**Time** : 12.00 noon to 02.00 pm
**Venue** : Prof. Sharad Gore Lab

Dr. Vaishali Patil
Course In Charge

Mr. Chandrashekhar Swami
PG Co-ordiantor

Dr. Avinash S. Jagtap
Head,
Department of Statistics

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OF ARTS, SCIENCE AND COMMERCE, BARAMATI
AUTONOMOUS

# Department of Statistics

Date-01/02/2022

# NOTICE

## (For M.Sc. Part II Statistics Students)

## Certificate Course

## CC-075 Basic SPSS

**Venue** – Department of Statistics (Lab – III)

| Date / Time | 02/02/2022 | 03/02/2022 | 04/02/2022 | 05/02/2022 | 07/02/2022 |
|---|---|---|---|---|---|
| 12.00 Noon to 03.00 pm | Basic SPSS | Basic SPSS | Basic SPSS | Basic SPSS | Basic SPSS |
| **Date / Time** | **08/02/2022** | **09/02/2022** | **10/02/2022** | **11/02/2022** | **12/02/2022** |
| 12.00 Noon to 03.00 pm | Basic SPSS | Basic SPSS | Basic SPSS | Basic SPSS | Basic SPSS |

M. Sc. II students should compulsory remain present for the above Practical periods

Dr. Vaishali Patil
Course In Charge

Mr. Chandrashekhar Swami
PG Co-ordiantor

Dr. Avinash S. Jagtap
Head,
Department of Statistics

**Anekant Education Society's**

# Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati

**(Autonomous Institution)**

Statistics Department

## Course Title: Certificate Course in SPSS

**Nature of the Course: Offline Certificate Course**

## Course Syllabus

SPSS is an important tool for any statistical analysis. SPSS stands for Statistical Package for the Social Sciences. SPSS software was designed to perform statistical analysis on quantitative data. SPSS software is used in nonprofit agencies, educational institutions and even in business to analyze numerical data. It performs several statistical and econometric analyses. It has wide applications in the field of Social Sciences, Life Sciences, finance, Marketing, Education and other fields where statistical analysis is required. The use of SPSS is very much essential for research work. Academic institutions, Research Institutes, NGO and other such organization are also required to make use of this statistical package.

**Course Objectives:**

- To enhance analytical skills of the young scholars who are engaged in doctoral work or involved in planning for their research work
- To equip the participants in quantitative and qualitative research methods and strategies;
- To sharpen participants' competence in usage of SPSS and R;
- To impart practical experience with a variety of analytical tools to facilitate the analysis and enabling appropriate interpretation of given hypothesis.

**Learning Outcomes:**

Analytical skills.

**Credit: 02**

| Unit No. | Contents | No. of Periods/Hours |
|---|---|---|
| I | • Introduction to SPSS, Introduction to different data types, Scale of measurements, classification techniques , Basics of SPSS, Data entry in SPSS, missing values, multi response,<br>• Data transformation through SPSS: selection of cases, recoding of variables, identification of duplicate cases, compute variable. | 8 |
| II | • Exploratory data analysis, Frequency tables and different types of charts, measures of central tendency, measures of dispersion, Skewness and kurtosis. | 8 |

| | | |
|---|---|---|
| III | • Parametric tests : Hypothesis, logic behind hypothesis testing, procedure of hypothesis testing, p-value, Logic and assumptions for parametric test, normal probability plot, one sample t-test, two independent sample t-test, paired t-test, one way ANOVA, two way ANOVA, post hoc test.<br>• Non parametric tests : Logic and assumptions for non parametric tests, Wilcoxon test, Mann-Whitney U test, Kruskal Wallis II test, Run test, Chi-square test . | 8 |
| IV | • Correlation and regression :Simple correlation, partial correlation, simple linear regression, assumptions of regression analysis, Residual analysis.<br>• Multiple linear regression, curve linear regression, logistic regression , Data reduction techniques, Factor analysis, discriminanat analysis, Cluster analysis, Time series analysis. | 8 |
| | **Total** | **32** |

**Mode of Evaluation:**

1. Written Online Examination

| Sr. No | **Students Name** | **Roll No** |
|---|---|---|
| 1 | DESHPANDE MAITRAI BHAGWANT | 17023 |
| 2 | CHOUGULE SOUNDARYA SANJAY | 17022 |
| 3 | CHOPADE SWAPNALI ANIL | 17024 |
| 4 | WABLE ESHWARI BHARAT | 17077 |
| 5 | DHADIWAL SURABHI SUNIL | 17063 |
| 6 | SANCHETI SHIVANI PREMCHAND | 17072 |
| 7 | SHINDE SAURABH RAGHUNATH | 17044 |
| 8 | PAWAR AISHWARYA PRAKASH | 17062 |
| 9 | GUNAWARE BHAGYASHRI DILIP | 17041 |
| 10 | BHOSALE ANKITA VINAYAK | 17064 |
| 11 | GUNAWARE RUTUJA RAJENDRA | 17040 |
| 12 | GADE DIPALI BALU | 17043 |
| 13 | NALAWADE RUTUJA SHANKAR | 17061 |
| 14 | MUSANDE AKANKSHA MOHANRAO | 17039 |
| 15 | PATIL SHREYASH ANNA | 17075 |
| 16 | KUMBHAR NIKITA SAMBHAJI | 17074 |
| 17 | CHANDGUDE MAYURI DIPAK | 17073 |
| 18 | MHASE PRIYANKA SHANTARAM | 17076 |
| 19 | INGALE RUSHIKESH DHANANJAY | 17079 |
| 20 | SABANNAWAR SAMYAK SANJAY | 17083 |
| 21 | CHAKANE MAYURI BALASAHEB | 17042 |
| 22 | TAWARE RUTUJA SUYASH | 17035 |
| 23 | ASLEKAR AKANKSHA RAVINDRA | 17082 |
| 24 | INAMDAR TAZMEEN HAMID | 17029 |
| 25 | BHOSALE SAISHRI RAJENDRA | 17025 |
| 26 | HOLKAR JAYDEEP SHANTARAM | 17021 |
| 27 | MOHITE HARSHADA HANMANT | 17078 |
| 28 | MERGAL RAMA SUDHAM | 17028 |
| 29 | PACHPIND SARTHAK DATTATRAYA | 17037 |
| 30 | KAMBALE JAYSHRI ASHOK | 17032 |
| 31 | PATIL RITUJA CHANDRAKANT | 17065 |
| 32 | KHARADE KALYANI KISAN | 17036 |
| 33 | MULLA SAMIYA NASIR | 17080 |
| 34 | DATE AJINKYA CHANDRAKANT | 17067 |
| 35 | BHOITE GAURI ARUN | 17081 |
| 36 | FURSULE RUTUJA PRAVIN | 17068 |
| 37 | FURSULE PURVAJA | 17069 |
| 38 | LOHOTE SOURABH SUNIL | 17070 |
| 39 | JADHAV VISHAL VALMIK | 17038 |
| 40 | JADHAV ANKITA RAGHUNATH | 17071 |
| 41 | KULKARNI AMEY MAHESH | 17026 |
| 42 | SHINDE DIVYA SOMNATH | 17027 |
| 43 | PAWAR SONAJ SUBHASH | 17033 |
| 44 | GAWADE PALLAVI RAMESH | 17066 |
| 45 | MANKAR PRAJKTA SHAHAJI | 17031 |

| | | |
|---|---|---|
| 46 | BORATE NILAM KHANDU | 17030 |
| 47 | DESHMUKH SHIVANI SADASHIV | 17034 |