

"Dissemination of Education through Knowledge, Science and Culture."

--Shikshanmaharshi Dr. Bapuji Salunkhe.

**Shri Swami Vivekananda Shikshan Sanstha's
Padmabhushan Dr.Vasantraodada Patil Mahavidyalay,
Tasgaon.**

Department of Statistics

**Certificate course on "MINITAB"
for M.Sc. II Statistics Students.**

Academic Year 2020-21

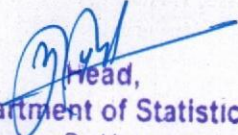
**Shri Swami Vivekananda Shikshan Sanstha's
Padmabhushan Dr.Vasatraodada Patil Mahavidyalay, Tasgaon.**

Department of Statistics

Date: 25/08/2021

Notice

The students of M.Sc. II. Statistics are hereby informed that, the certificate course on **"MINITAB"** is organized by the department. The lecture series for the concerned course arranged during 06/08/2020 to 07/08/2020. All the students should attend the lectures from 06/08/2020, at 11.00.am onwards.


Head,
Department of Statistics,
Padmabhushan Dr. Vasatraodada Patil
Mahavidyalaya Tasgaon, Dist. Sangli

AN INTRODUCTION TO MINITAB

Getting started with Minitab: Menu bar, Worksheet, Minitab commands and sub commands, Data entry into worksheet, Importing data, Saving, Retrieving, Printing file.

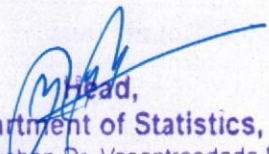
Operators and functions: Arithmetical operations, Mathematical functions, Column and Row statistics, Comparisons and Logical operations, Coding, Computing ranks, Sorting data, Stacking and Unstacking columns.

Exploratory data analysis: Tallying data, Describing data, Histograms, Box plots, Bar charts Pie charts. Correlation and Regression: Correlation: Scatter plots, Karl Pearson correlation coefficient, Regression: Simple and Multiple regression.

Matrix operation and Macros: Creating matrices, Commands for matrix operations, Writing simple macros.

Time table

Sr.No.	Name of the Faculty	Topic Name	Date	Time
1	Mr.D.J.Nalavade	Getting started with Minitab	6/8/2021	Session I-11.00 am to 1.00pm
				Session II-2.00 pm to 5.00 pm (Practices)
2	Mr.Patil D.D	Exploratory data analysis	7/8/2021	Session I-11.00 am to 1.00pm
				Session II-2.00 pm to 5.00 pm (Practices)


Head,
Department of Statistics,
Padmabhusan Dr. Vasantodada Patil
Mahavidyalaya Tasgaon, Dist. Sangli

Report

The department of statistics organized a special course entitled course on “**MINITAB**” during 06/08/2021 to 07/08/2021. The objective behind conducting the special course is that student familiarizes statistical tools with software's, which will be helpful to the students to get jobs in various sectors. While analyzing data we need complicated calculations which are more time consuming. The software's namely MINITAB is very useful data analysis software's, requires less time.

All the students of the department participated in such a special course. The total 2 days course carried in two sessions. The faculty member of the department Miss.S.S.Patil introduced the need of software's and introduction of software's, Mr.Nalavade D.J.also taught the various commands and how to right the MINITAB software.

As a result of the course the students got very much information regarding data analysis using software's in very less time.

Shri Swami Vivekanand Shiksha Santha's
 PADMAHUSHAN DR. VASANTRAODADA PATIL MAHAVIDYALAYA, TASGAON.
 DEPARTMENT OF STATISTICS
 M.Sc. II Statistics -2019-20

Attendance Report For MINITAB

Sr.No.	Roll No.	NAME OF STUDENT	6-2-2019	6-2-2020	7-2-2020	7-2-2020
1	9301	Attar A.N.	Attar	Attar	Attar	Attar
2	9302	Dabhaade S.S.	Dabhaade	Dabhaade	Dabhaade	Dabhaade
3	9303	Divate D.S.	Divate	Divate	Divate	Divate
4	9304	Ghali R.R.	Ghali	Ghali	Ghali	Ghali
5	9305	Jadhav P.S.	Jadhav	Jadhav	Jadhav	Jadhav
6	9306	Jawalkote A.S.	Jawalkote	Jawalkote	Jawalkote	Jawalkote
7	9307	Koshti K.M.	Koshti	Koshti	Koshti	Koshti
8	9308	Mali R.B.	Mali	Mali	Mali	Mali
9	9309	Mane S.B.	Mane	Mane	Mane	Mane
10	9310	Medhe A.G.	Medhe	Medhe	Medhe	Medhe
11	9311	More D.M.	More	More	More	More
12	9312	Patil M.S.	Patil	Patil	Patil	Patil
13	9313	Phalake P.V.	Phalake	Phalake	Phalake	Phalake
14	9320	Pujari P.R.	Pujari	Pujari	Pujari	Pujari
15	9314	Salunkhe P.B.	Salunkhe	Salunkhe	Salunkhe	Salunkhe
16	9315	Shinde A.S.	Shinde	Shinde	Shinde	Shinde
17	9316	Shinde P.V.	Shinde	Shinde	Shinde	Shinde
18	9317	Thakur P.M.	Thakur	Thakur	Thakur	Thakur
19	9318	Varude S.D.	Varude	Varude	Varude	Varude
20	9319	Vedpathak S.K.	Vedpathak	Vedpathak	Vedpathak	Vedpathak

Department of Statistics
M.Sc.(Part-II) (Sem-III)
MINITAB (Internal Exam)

Time: 03:00 am–04:00pm

Date:22/08/2021

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

Q.1 Select the correct alternative out of given ones

(1 X 5)

- a) MINITAB is a statistics package developed at the
- i. AT&T Bell Laboratories
 - ii. Pennsylvania State University
 - iii. University of Oxford
 - iv. Massachusetts Institute of Technology
- b) MINITAB do not recognize the following data types
- i. Numeric and Text
 - ii. Date and Time
 - iii. Both of these
 - iv. None of these
- c) The function/option used to combine text values from two or more columns into a single column.
- i. Concatenate
 - ii. Stack
 - iii. Unstack
 - iv. None of these
- d) An extension of the global macro file in MINITAB is_____.
- i. MTB
 - ii. MAC
 - iii. MPJ
 - iv. MAD

e) The Normality test _____ is not available in MINITAB.

- i. MTB
- ii. MAC
- iii. MPJ
- iv. MAD

Q.2 The given data has BMI, age, Cholesterol, Glucose, gender and city of the 100 adult patients.
(3 X 4)

Using this information to answer the following questions.

- a) Check the behavior of BMI using boxplot.
- b) Compare the BMI of male and female patients using appropriate test.
- c) Calculate the BMI of the male patient who live in Satara and has age=25, Cholesterol=170 and Glucose=90.
- d) Compare the BMI of the patients of different cities.

Comments on your results.

Q.3 Write down the MINITAB code/macro for generating 100 random numbers from $N(10,1)$ and calculate its mean, median and standard deviation.

(3 X 1)

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Department of Statistics

Evaluation of certified course

SR.No	Roll No.	Marks
1	9301	18
2	9302	18
3	9303	19
4	9304	18
5	9305	17
6	9306	18
7	9307	17
8	9308	18
9	9309	18
10	9310	19
11	9311	18
12	9312	17
13	9313	17
14	9314	18
15	9315	18
16	9316	19
17	9317	17
18	9318	16
19	9319	18
20	9320	18