

**VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR**  
**Department of Statistics**

**Notice**

**Date: 16/03/2023**

All the student of B.Sc. III & M.Sc. I are hereby informed that, our department organizes a “Workshop on R- programming” from 20<sup>th</sup> March 2023 to 27<sup>th</sup> March 2023. The time table of the program is as below.

Sr.No.	Day & Date	Topic Name	Lecture	Time
1	Monday 20.03.2023	Unit No 1,2,3 & 4	Mr. Sachin Patil	08.00am- 10.00am
2	Tuesday 21.03.2023			08.00am- 10.00am
3	Thursday 23.03.2023	Unit No 6,7	Mr. A.B.Bhosale	08.00am -10.00am
4	Friday 24.03.2023	Unit No 5,10	Miss D.A.Tapakire	08.00am- 10.00am
5	Saturday 25.03.2023	Unit No 8, 9	Mr. K.M. Mali	08.00am- 10.00am
6	Monday 27.03.2023			08.00am- 10.00am

**Venue:** B.Sc /M. Sc. Computer Lab I department of Statistics .

  
Ms. V. V. Pawar

**Head**

**Department of Statistics**  
**Vivekanand College, Kolhapur**  
**(Autonomous)**









“Education for Knowledge, Science and Culture”  
-Shikshahnmaharshi Dr. Bapuji Salunkhe  
Shri Swami Vivekanand Shikshan Sanstha’s  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)



DEPARTMENT OF STATISTICS  
One week workshop  
on  
“Introduction of R”

- **Aim: To learn R software.**
- **Objectives:**
  1. To familiarize students with R software.
  2. To understand how to import and export the data by various data functions.
  3. To become able to manipulate data, running summary statistics, visualize data, analyze data and to interpret it.
- **Time & Date: 23<sup>rd</sup> March 2023 to 27<sup>th</sup> march 2023 (8.00 am)**
- **Venue:** Department of Statistics
- **Resource Person:** Mr. Sachin Patil, Assistant Professor, Dept. of Statistics Shivaji university Kolhapur.  
Mr. K.M. Mali, Assistant Professor Dept. of Statistics S.S.C.M Kolhapur.  
Mr. A.B. Bhosale & Ms.D.A. Tapakire Assistant Professors Dept. of Statistics VCK.
- **Number of Students:** 42 (12 B+30 G)
- **Number of Teachers:** 02
- **Brief Description:**

The department of Statistics, Vivekanand College, Kolhapur conducted a “Workshop on R” from 20<sup>rd</sup> March 2023 to 27<sup>th</sup> March 2023. Around 42 students from BSc III and MSc I were participated in the workshop. After formal inauguration of workshop Mr. Sachin Patil explained What is R? How to download and install it. He covered basic commands regarding data input output, creation of vector, operators like logical, assignment. He also explained creation of matrix and operations on matrix through examples.

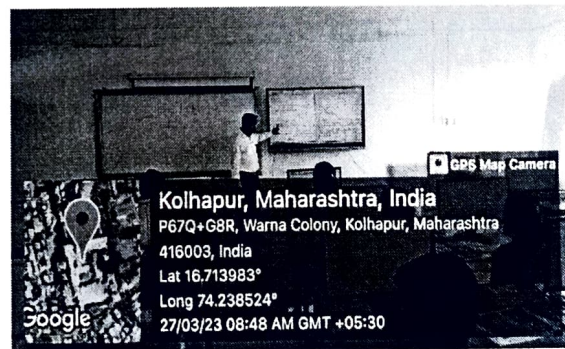
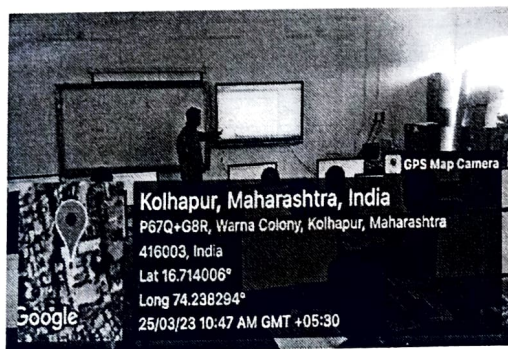
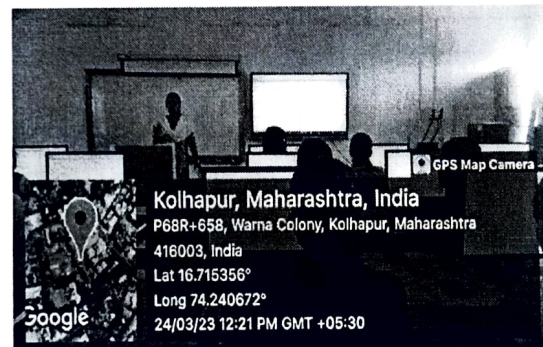
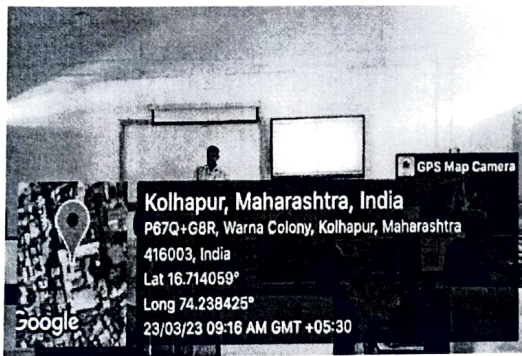
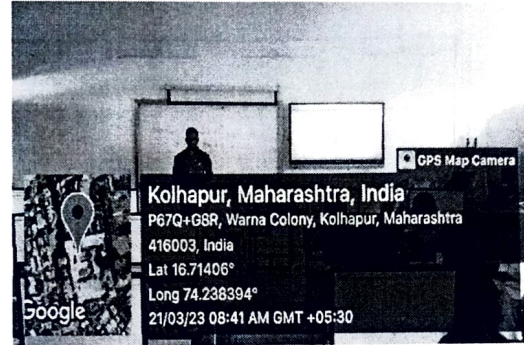
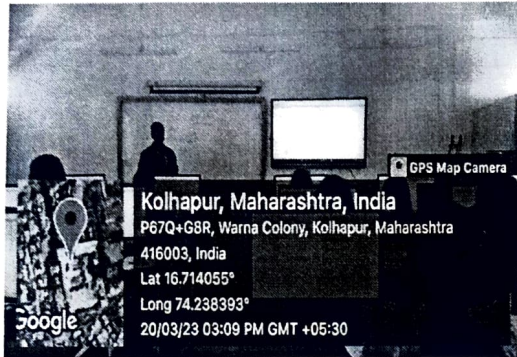
On 23<sup>rd</sup> March Mr. Bhosale Ashok covered data visualization techniques. He also taught various looping statements, which required in programme writing. On the next day Dhanashree Tapakire discussed and demonstrated installation of various packages. At the end of the workshop Mr. Krushnath Mali enlightened students on simulation techniques. Through various programs he explained generation of random numbers. He also covered various tests such as t.test, wilcox.test, chisq.test, etc.


At the valedictory function students shared their opinions about the workshop and mentioned its usefulness. The vote of thanks presented by Mr. A. B. Bhosale.

- **Outcomes:**

After the completion of the workshop

- Students became able to, download and install R.
- They learned to install and load add-in packages
- They understood R data structures, import external data into R for data processing and statistical analysis.
- They became able to compute basic summary statistics and statistical analysis techniques.
- They learned data visualizations techniques with the ggplot package.



  
 Head  
 Department of Statistics  
 Department of Statistics  
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