Sir Vithaldas Thackersey of College of Home Science (Autonomous)

SNDT Women's University, Juhu, Mumbai

# Notice

RESEARCH CELL ACTIVITY

**Participants: Postgraduate Students (MSc Second Year)**

"**One Day Hands on Training Workshop on: Research Statistics and**

**using Microsoft Excel for Data Analysis**"

**Date:**   27 February 2020                    **Time:** 10 am to 4 pm

**Venue:**  Virtual Room                       **Day:** Thursday

**Learning Objectives of the workshop:**

At the end of this course, students should be able to:

**In terms of knowledge:**

➢ Demonstrate their understanding of descriptive statistics by practical application of quantitative reasoning and data visualization

➢ Demonstrate their knowledge of the basics of inferential statistics by making valid generalizations from sample data

**In terms of skills**

➢ Use Excel to conduct statistical analysis

➢ Recognize common mistakes in using statistical methodology

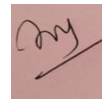**In terms of attitudes**, students should develop in this course:

➢ Critical attitudes, which are necessary for "life-long learning"

➢ Greater appreciation for the importance of statistical literacy in today's data rich world

**Resource Persons**

1. **Mr. Ajay Pathak, Professor of Biostatistics and Adjunct Professor of Public Health, Central Research Services, Charutar Arogya Mandal, Karamsad, Gujarat, India**

2. **Dr. Jaishree Ganjiwale, MSc (Statistics), CPH (Uni of Nebraska Medical Center), CMC Ludhiana FAIMER Fellow, Asst. Prof. (Bio- Statistics) Department of Community Medicine- PSMC- Karamsad Statistician- Central Research Services, Adjunct Associate Professor (Public Health), Charutar Arogya Mandal, Karamsad, Gujarat, India**

3. **Mr. Karamchand Patil, 'Project Coordinator' of Health Demographic Surveillance System (HDSS) at Bharti Medical college, Dhankawadi, Pune.**

**Program Schedule**

| Time | Program |
|---|---|
| 10:00 -10:10 am | Welcome Note |
| 10:10 – 10:40 am | Refresher on Basics of Descriptive Statistics- Frequency distribution, measures of central tendency, hypothesis testing |
| 10:40 – 11:30 am | Overview of Inferential statistics: t test, ANOVA,ANCOVA, chi square, correlation, regression analysis |
| 11:30 – 12: 15 pm | Statistical Reasoning: How to Choose the Right Test for a Specific Data Set with examples |
| 12:15 – 12:45 pm | Writing Statistical test Results in APA Format |
| 12: 45- 1:00 pm | Interactive Q and A Session |
| 1:00-2:00 pm | **LUNCH** |
| 2:00 pm- 2:15 pm | Overview of Basic Functions in Excel |
| 2:15 – 2:30 pm | Using Excel for Data Validation and Entry |
| 2:30 – 3:00 pm | Descriptive Statistics using 'Data Analysis tool'' |
| 3:00-3:30 pm | Inferential Statistics with Excel- chi square tests, t tests, correlation analysis |
| 3:30 – 4:00 pm | Hands on Training for participants |
| 4:00- 4:15 pm | Assignments for Participants |

**Dr. Jagmeet Madan,
Principal**