



### About the Institute

The NIHFW, an autonomous organization, under the Ministry of Health and Family Welfare, Government of India, acts as an 'apex technical institute' as well as a 'think tank' for the promotion of health and family welfare programs in the country. The post-graduate education, training, research, evaluation, consultancy and advisory services in the field of health and family welfare have been a major focus of the institute. In order to facilitate continuous up-gradation of knowledge and skills of various health personnel across the country, the NIHFW has been conducting training courses in different areas at regular interval. In this endeavor, the Department of Statistics & Demography, NIHFW proposes to conduct a online training program on 'Statistical Data Analysis using R Software' from 28<sup>th</sup> February 2<sup>nd</sup> March, 2022.

### Course Coordinating Team

Course Coordinator : Dr. Dharmendera Kumar Yadav  
Course Co-coordinators : Prof. Pushpanjali Swain  
Mr. Parimal Parya  
Course Associate : Mr. Subhash Chand

### Course Fee

There is a course fee of Rs. 1000/- per participant which can be paid by only online banking. The bank details is

Name of the beneficiary: Director NIHFW  
Bank Name& Branch: SBI,NIHFW,  
Munirka,New Delhi  
Account No.: 10932790787  
IFSC Code No.: SBIN0010439  
MICR Code No.: 110002429

### Further Correspondence to be addressed

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Online Training Course  
on

**STATISTICAL DATA ANALYSIS USING  
R - SOFTWARE**

28<sup>th</sup> February - 2<sup>nd</sup> March, 2022



Department of Statistics & Demography  
The National Institute of Health & Family Welfare  
Baba Gang Nath Marg ,Munirka  
New Delhi- 110 067

## Introduction

The Department of Statistics and Demography (S&D) has been conducting the training programmes on Demographic and Statistics methods for the health professionals including faculty of medical colleges. Over the years the feedback given by them indicates that there is a need for conducting a training programme with a special focus on statistical methods and analysis by using standard statistical software such as R/STATA/SPSS etc. **R is free software and has huge user community. Therefore it is extensively used for statistical data analysis.** Application of statistical software reduces the time to analyze large amount data which provides insights to the policy makers for public health. Therefore, training course on data analysis using standard Statistical Packages for Health and Demographic research is being organized for professionals engaged in research and analysis of health and demographic studies.

## General Objective

To orient the participants on data analysis and develop their skills in use of R software for health and demographic research.

## Specific Objectives

At the end of the training course, the participants would be able :

1. To prepare the coding plan and create data set
2. To describe the nature of variables
3. To describe the application of R software in data analysis
4. To conduct data analysis on prepared data set by using R software

## Course Contents

The course intends to cover topics such as:-

- Introduction of data analysis
- Basic features of R software
- measurement scale of variables
- Data management
- Data analysis
- Testing of hypothesis
- Correlation and Regression analysis

## Methodology

The methodology of the course will comprise of:

- Online lecture
- participatory discussion
- Demonstrations
- Problem solving (exercises and data analysis sessions using R software).

## Duration

Three days, Date: 28<sup>th</sup> February - 2<sup>nd</sup> March, 2022.

## Nature of Participants

Faculties, Residents from Medical Colleges, Nursing Colleges, SIHFW and Demographers, Statistical officers, Epidemiologist from Govt. and Pvt. organisation are eligible to apply.

## Last date for Receiving Nomination

11<sup>th</sup> February, 2022

## Venue

Through online mode by the National Institute of Health and Family Welfare, New Delhi.