



### 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 Management Sciences, NIHFW proposes to conduct an online training course on ‘Introduction to data Analysis’ from 09 - 11<sup>th</sup> August, 2021

### Course Coordinating Team

Course Coordinator : Prof. M. K. Mallick  
Course Coordinator : Dr. Raj Narayan  
Course Co-Coordinator : Dr. Vandana Bhattacharya

### Course Fee

There is a course fee of Rs. 1000/- per participant which can be paid by 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  
Branch Code No.: 10439  
MICR Code No.: 110002429

### Further Correspondence to be addressed to:

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Course Coordinator  
(Professor and Head)

**Department of Management Sciences**

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(Course Coordinator)  
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**The National Institute of Health and Family Welfare**  
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**Fax: 91-11-2610 1623, Web Site:**  
**[www.nihfw.org](http://www.nihfw.org)**

## ONLINE TRAINING COURSE ON INTRODUCTION TO DATA ANALYSIS

**August 09-11, 2021**



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

## Introduction

Training at different levels of responsibility has yielded the quality of services in health sector which has a close accordance with RCH programme and launched National Rural Health Mission. Here, in this context, the role of NIHFW has become increasingly important to impart and sharpen the basic concepts of statistical knowledge and skills for health professionals and researchers in health and demography related data, coming from the community/ periphery level, studies or surveys. The faculties of the medical colleges are also stakeholders of the health care delivery. They also desire to understand how the demographic and health and family welfare data are generated, analyzed and interpreted to help programme managers in decision making and further improvement of the functioning of health and family welfare programmes.

The Department of Management Sciences, in this context has planned to conduct a training programme on 'An Introduction to Data Analysis' for the health professionals including faculty of medical colleges, researchers and students. The training course will have a special focus on statistical methods and analysis by using standard statistical software such as SPSS. The software "Statistical Packages for Social Sciences" (SPSS) is a powerful, user friendly and vastly used by academicians, researchers, and students to analyze the data of research studies/surveys/evaluations etc.

The aim in this training course is to give brief and straightforward descriptions of how to conduct a range of statistical analyses as it does an extensive range of both Uni-variate, Bi-variate and Multivariate procedures using the latest version of SPSS.

## General Objective

To enable the participants be familiar with data analysis techniques by using SPSS software

## Specific Objectives

On completion of the training program the participants will be able to:

- i. Describe the steps of data analysis
- ii. Explain the process of coding and create data set
- iii. Describe the approaches of data analysis
- iv. Enumerate the applications of the statistical tools of SPSS in data analysis.

## Course Contents

The course intends to cover topics such as:-

- Introduction to data analysis
- Basic features of SPSS
- Preparation of SPSS Data set and scale of Measurement
- Data management
- Data analysis approaches
  - Descriptive statistics (mean, median, mode, standard deviation, variance)
  - Graphical presentation of data (Bar diagram, pie charts, histogram etc.)
- Frequency, Crass tabulation
- Testing of hypothesis
  - Parametric
    - a. T test
    - b. Z test
    - c. F-test
  - Non Parametric:
    - a. Chi square

## Methodology

The methodology of the course will comprise of:

- Lecture cum Discussion
- Participatory discussion
- Training and problem solving through demonstration
- Data analysis using SPSS statistical software

## Duration

Three days, Date: 09<sup>th</sup> to 11<sup>th</sup> August, 2021

## Nature of Participants

Health care professionals working in government and private medical colleges, nursing colleges and the state demographer and statisticians, social science researchers and students engaged in health research

## Last date for Receiving Nomination

04<sup>st</sup> August, 2021

## Venue

Through online mode by the National Institute of Health and Family Welfare

## Details of the Candidate:

**Name:**

**Designation:**

**Address for communication:**

**Telephone (M):**

**E-Mail:**

**Course Fee payment details:**