Certificate Course on

Data Management and Statistical Analysis using SPSS

Dates: 21st to 23rd April, 2021

Timings: 10.30 AM to 1.30 PM

Collaborative program by
Institute of Health Management Research, Bangalore
&
Department of Home Science, University of Rajasthan

Certificate Course on Data Management and Statistical Analysis using SPSS (21st April -23rd April, 2021)

Training Report

Certificate Course	3 days	10:30 am- 1:30 pm

1. Introduction

Statistics is the art and science of learning from data. As a discipline it is concerned with the collection, analysis, and interpretation of data, as well as the effective communication and presentation of results relying on data. The course is focused on data management, data handling along with descriptive and multivariate analysis for professionals. This course will offer participants plenty of practice in analysing data from a variety of areas.

2. Background and Objectives

The training was conducted with the following objectives:

• To understand the data visualization, data handling and data management

• To enhance skills on descriptive statistics and multivariate analysis by using SPSS

3. Program duration and venue

• 3 days training program (21st to 23rd April, 2021)

• 3 hours per day

• Online program

4. Training Team:

Course Co-ordinator	Dr. Jyoti Vijay Assistant Professor IIHMR Bangalore
	Dr. Kanika Varma Associate Professor Department of Home Science, University of Rajasthan
Key Resource persons	Dr. Gyan Chandra Kashyap Assistant Professor IIHMR Bangalore
	Dr. Usha Manjunath Director, IIHMR Bangalore
	Dr. Mukta Agarwal Head of the Department Department of Home Science University of Rajasthan

Overall training support	Mr. Piyush
	Associate Professor & Associate Dean- Trainings
	IIHMR Bangalore
Sessions Moderated by	Dr. Deepashree MR
	Assistant Professor
	IIHMR Bangalore
Brochure & Certificate designing	Mr. Padma Kumar
	Creative Designer & IT Support
	IIHMR Bangalore
IT Support	Mr. Pradeep Kumar
	Assistant Professor
	IIHMR Bangalore
	Mr. Arun
	System Administrator
	IIHMR Bangalore

5. Structure of the program:

- Evaluation/Assessment – Data cleaning exercise, data dictionary and data entry exercise, Hands on training on SPSS, case studies for data graphs and figures.

- Number of participants – 40

- Participants' profile – Graduate and Post graduate students, doctoral students, research fellows, Assistant professors from the background of Nutrition, Food technology, Communication, Dietetics, Public Health and Home Science.

- Topics covered on the respective days (Kindly see Annexure I)

6. Training Method:

All the participants were very active. They have been engaged through ice-breaking activities, lectures, assignments, case studies, presentation by participants, open discussion etc.

7. Outcomes of the programs:

At the end of the program, the participants were able to:

1. Understand research methods, sampling design, sample size calculation, data collection processes and analysis plan.
2. Understand SPSS and its use, data entry and its cleaning.

3. Compute and recode variables into same and different variables.

4. Use of descriptive statistics, bivariate and multivariate analysis, figures & graphs and interpretation of results.

8. Recommendations:

- More programs can be conducted on advanced data analysis techniques for more number of days.

9. **Glimpses of the programs:**

10. **Session Plan –** Kindly see Annexure I

Annexure I – Session Plan

Schedule - Certificate Course on Data Management and Statistical Analysis "21st to 23rd April, 2021"				
Day & Date	**Time**	**Topic**	**Sub-Topics**	**Key Resource Persons**
Day 1 21-04-2021	10:30-10:40am	Institutes' Introduction	IIHMR Bangalore - An Introduction	Dr. Jyoti Vijay/ Dr. Deepashree
	10:40-10:50am		Department of Home Science, University of Rajasthan - An Introduction	Dr. Mukta Agrawal
	10:50-11:10am		Introduction to Program and Ice-breaking activities	Dr. Usha Manjunath
	11:10-12:30pm	Overview of Survey Research	**Research Methods**	Dr. Gyan Chandra Kashyap
	12:30-1:30pm	SPSS Introduction	Preparation of Data dictionary	Dr. Gyan Chandra Kashyap
			Data entry	
			Data cleaning	
Day 2 22-04-2021	10:30-11:30am	Defining the Survey variables	Variable computation	Dr. Gyan Chandra Kashyap
			Variables Recoding	
	11:30-1:30pm	Statistical Techniques	Descriptive Statistics	Dr. Gyan Chandra Kashyap
			Bivariate Analysis	
			Multivariate Analysis - regression	
Day 3 23-04-2021	10:30-12:00pm	Data interpretation	Data Interpretation of SPSS output file	Dr. Gyan Chandra Kashyap
			Interpretation of results	
	12:00 - 1:00pm	Data presentation	Data Figures & Graphs	Dr. Usha Manjunath
	1:00 - 1:15pm	Open discussion	Q & A session	Dr. Gyan & Dr. Usha Manjunath
	1:15 - 1:25pm	Thanks	Vote of thanks	Dr. Kanika Varma
	1:25 - 1:30pm		Closing remarks, Feedback and Certificate	Mr. Piyush