

# Indian Institute of Public Health – Delhi

Public Health Foundation of India

**Training Venue:** Plot 47, Sector 44, Institutional area, Near HUDA City Centre Metro Station,  
Gurugram-122002, Haryana, India. *Website:* [www.phfi.org](http://www.phfi.org)

A certificate course on

## Operations Research in Public Health

**Feb 22 – Mar 19, 2021 (1 week on-campus, 3 weeks eLearning)**

*Last date of registration: 31<sup>st</sup> January 2021*

Course Director: **Prof. Sanjay Zodpey, Director**

Course Coordinator: **Dr. Preeti Negandhi, Additional Professor**

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### About the Course

Operations Research (OR) is the application of systematic research techniques to improve health program indicators. The purpose of OR is to provide information for managerial decision-making for better program planning and implementation. The value of OR is that it provides empirical evidence to support program decisions and thus advance optimal utilization of resources. Successful OR is characterized by a close collaboration between public health personnel, program managers and researchers throughout the study.

Currently, all national public health programs implemented have an inherent component of operations research, but due to lack of skills OR is not widely carried out by public health researchers. Through innovative and interactive pedagogic techniques, this course aims to augment the knowledge and skills of the participants in fundamentals of design and conduct of OR. This training program intends to evoke interest amongst participants by enhancing their competencies in OR and motivate them to undertake such research activities. At the end of the training, participants will be able to describe the concepts of Operations Research, identify and write a problem statement, good research questions, apply knowledge and skills of using different study designs and highlight the prospects of using OR in the field of public health and draft an operations research proposal.

This training program would comprise of 3 weeks of online training, followed by one week of face-to-face on-campus training on March 15-19, 2021.

### Learning Objectives

- Understand the basic concepts in public health research methodology with respect to OR, including framing a research question, choosing a suitable study design, developing tools for research, collection and analyses of data, interpretation of results, and developing a budget for the proposal
- Understand the principles of operations research and their types in context to public health programs
- Understand the role of monitoring & evaluation in OR, including M&E frameworks, indicators, plans and evaluation techniques
- Understand some key leadership aspects in the context of OR
- Draft and develop a complete operations research proposal along with budget

### About the faculty

**Dr. Preeti Negandhi** [MBBS, MD (PSM), MSc], faculty at the institute will be the key resource. She teaches epidemiology, research methods and disease surveillance to students of our on-campus as well as distance-learning academic programs. She is also the coordinator for the Post Graduate Diploma in Epidemiology at the institute. She is involved in research in the areas of maternal and child health, disease surveillance and health information systems.

### Who should attend?

This workshop would be suitable for postgraduate students of health sciences, researchers and project coordinators involved in public health research specifically field trials, clinicians, any health professionals wanting to understand the basics of conducting an operations research, medical writers, NGO functionaries, professionals working in CSR organizations, social scientists, research scholars and students who are working in the areas of public health, clinical care & support, development sector etc.

### How to apply?

Interested participants may email their completed registration form at [trainings@iiphd.org](mailto:trainings@iiphd.org). **Government employees need to follow proper departmental procedures.**

### Registration fee

The course is sponsored by the DHR/ICMR, there will not be any course fee or registration charges, however Travel, boarding and lodging expenses to be **arranged and borne** by the participants.

**\*Note: We have limited seats available, admissions to be confirmed on first come first serve basis and final decision by selection committee.**