



**FOUNDATION OF HEALTHCARE TECHNOLOGIES SOCIETY**

**and**

**PARUL INSTITUTE OF PUBLIC HEALTH**

**jointly announces**

**Certificate Course on  
Operational Research in Population Health**

**16 August 2022- 14 January 2023**

## **ABOUT THE FOUNDATION OF HEALTHCARE SOCIETIES**

The Foundation of Healthcare Technologies is a National Society and is the first of its own kind that integrates multi-sectoral segments through use of innovative informatics platforms for an overall improvement of population health in underserved settings.

Economic situations in developing countries have resulted in increased disparities in terms of health, economic growth, and access to resources that are valuable to the overall growth of the populations. The foundation aims to establish a center of excellence in developing a skilled workforce in the area of informatics through human resource development, capacity building, innovative research, translation and dissemination of research findings into practice, and health systems strengthening.

The foundation promotes innovative ideas that can be practiced at the grassroots level so that solutions that are provided can be personalized, evidence based, research driven, context specific, and goal oriented and culturally adaptable to meet the needs of the diverse group of users. The foundation forms collaborations and partnerships across boundaries to address the growing challenges for providing better living to the individuals, families and the environment they live. We aim to build a unique environment that will bring innovations across multiple sectors resulting in a healthier ecosystem.

## **ABOUT PARUL UNIVERSITY**

Parul University a leading private university of Sanskriti Nagri (Vadodara), Gujarat is the one-stop destination for meeting the academic needs of students making it an educational hub catering to fulfilling infinite dreams of students globally. Parul University is ranked among the top 50 private universities in India for leading innovation achievements by ARIIA 2020.

Parul University is an amalgamation of 35 Institutes offering, 250+ programs in a 150+ acre fully equipped campus housing 28000+ students, 2000+ International Students from 56 Countries, 2500+ faculty members & providing in-campus residential facility to 7000+ students making it India's Premier Multidisciplinary University.

## **ABOUT PARUL INSTITUTE OF PUBLIC HEALTH**

The Parul Institute of Public Health (PIPH) aspires to evolve as a focal point of multi-disciplinary education, research, training and advocacy on public health; which is gaining prominence in recent years. Instituted in 2016 as a constituent of Parul University; PIPH emerged as a leading institute for imparting public health education. Over the years, the institution has built a well-established network with public, private and governmental institutions both at the national and international levels.

The institute aims to improve the health of people, strengthen the health system and policies through education, training, research, and evidence-based advocacies. The institute offers multidisciplinary programmes such as Bachelor of Science in Public Health, Masters of Public Health (MPH), Master of Hospital Administration (MHA), and Doctor of Philosophy (PhD) in Public Health.

## **ABOUT THE CERTIFICATE COURSE**

Operational Research is an interdisciplinary branch that uses systematic research techniques for decision-making to achieve specific outcomes. It aids in the design of interventions, strategies, and coverage of programs and the development of tools to improve quality and effectiveness.

## **WHY THE NEED?**

There is an urgent need to develop a trained workforce proficient in Operations research planning, implementation, and evaluation. Participants will synthesize and apply the knowledge acquired from the course to address a health informatics problem.

## **LEARNING OBJECTIVES**

### **The students will learn:**

- To translate ideas into research questions.
- To apply theoretical knowledge in community settings.
- To identify gaps in existing research/solutions
- To analyze and interpret quantitative and qualitative data.
- To interpret data and disseminate the research findings
- To design and develop a research study

**PROGRAM DURATION:** 6 Months (16<sup>th</sup> August 2022 to 14<sup>th</sup> January 2023)

(4 months of training and 2 months of experiential learning)

## **COURSE DELIVERY: ONLINE**

### **WHO CAN ATTEND?**

- Any undergraduate/graduate/postgraduate/PhD
- Development or Health professionals working in health research
- Newly joined faculties in a public health discipline

## **BENEFITS OF THE COURSE**

- |   |  |
|---|--|
| • Turn ideas into executable research                               | • Opportunity to be mentored by National and International experts |
| • Learn essential research skills by practice                       | • Gain research experience to qualify for higher education         |
| • Ability to involve in funded research projects to gain experience | • Opportunity to publish research paper                            |

## UNIQUE FEATURES OF THE COURSE

- Flexible, self-paced
- Asynchronous and synchronous learning
- Weekly interactive lectures
- Case studies
- Weekly discussions
- Problem-solving exercises
- Research project
- Mentorship and Experiential Learning
- Discussion Forum

## COURSE CURRICULUM

Date	Module	Topic
	Module 1	Research Domains
	Module 2	Basics of Research Methodology
	Module 3	Formulating a Research Question
	Module 4	Study Methods
	Module 5	Critical appraisal of scientific literature
	Module 6	Research Design
	Module 7	Defining Research Hypothesis
	Module 8	Survey Methods
	Module 9	Sampling Methods
	Module 10	Data Analysis1
	Module 11	Scoping Review
	Module 12	Manuscript writing
	Module 13	Data analysis 2
	Module 14	Focus group interviews and Qualitative data
	Module 15	Implementation Science
	Module 16	Public Health Interventions

### Quadrant 1 E-tutorial Topics

**Quadrant II- Weekly Reading Material** (Case studies, and Research paper readings)

**Quadrant III- Discussion Forum** (Weekly discussion topics to facilitate knowledge exchange)

**Quadrant IV-Assessments** [Quizzes (20%), weekly assignments (10%), case studies (10%), presentations (5%), mid-term exam (25%), and end term exam (30%)]

**Certificate will be provided to candidates who successfully complete the course.**

**REGISTRATION FEES**

<b>PARTICIPANT</b>	<b>REGISTRATION FEE</b>
Student	Rs. 9000

**REGISTRATION LINK:** <https://fhts.ac.in/training/apply-online/>

**Contact Person** - Mansi Gupta, Community Initiative Coordinator, Foundation of Healthcare Technologies

Contact number –8527897771

Email – [admissions@fhts.ac.in](mailto:admissions@fhts.ac.in)