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Certificate in Fundamentals of Operational Research in Public Health (CER-FORPH)

5th September 2023 to 2nd April 2024





A Joint Collaboration

of

Foundation of Healthcare Technologies Society, New Delhi, India

&

Sudha Rustagi College of Dental Sciences & Research, Greater Faridabad, Haryana, India

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About Foundation of Healthcare Technologies Society (FHTS)

The Foundation of Healthcare Technologies Society is certified as a Scientific & Industrial Research Organization (SIRO) by the Department of Scientific and Industrial Research (DSIR), New Delhi, Govt. of India. It is the first of its kind that integrates multi-sectoral segments through the 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 population. 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, 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, evidencebased, research-driven, context-specific, 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 of 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 Sudha Rustagi College of Dental Sciences & Research

Sudha Rustagi College of Dental Sciences & Research is located in Greater Faridabad, an Education hub on the southern border of Delhi, it is the most renowned institute for BDS & MDS (in all Specialties), in the Northern Region. SRCDSR is playing a vital role in providing excellent education in the field of Dentistry. The college has been recognized by the Ministry of Health & Family Welfare, Government of India, Dental Council of India and affiliated to Pt. B.D Sharma University of Health Sciences, Rohtak. The college encompasses a vision to be recognized as a premier institution of excellence among the reputed dental science education providers in India & Abroad by providing world class Dental education, research, and consultancy services to the global society.

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About the Program

What does the program offer?

Certificate in Fundamentals of Operational Research in Public Health (CER-FORPH) is a program covering facets of operational research. It provides the opportunity to students to gain insights on various aspects of systematic research techniques. The course objective is to develop the skills of the learners to design and strategize the interventions in order to enhance the quality and effectiveness of a program.

The course aims to develop a trained workforce in Operations research planning, implementation, and evaluation. The program aids students in synthesizing and applying the acquired knowledge from the course to address global, national, and public health issues.

Program Duration: 6 Months (4 months of training and 2 months of experiential learning)

Course Delivery: Online

Mode of Course Training: Learning Management System (LMS)

Who Can Attend?

- > Any undergraduate/graduate/postgraduate/PhD
- Development or Health professionals working in health research
- Any faculty at a College or University in Public health discipline

Unique Features of the Course

- > Flexible, self-paced
- > Asynchronous and synchronous learning
- > Weekly interactive lectures
- Case studies
- > Weekly discussions
- > Problem-solving exercises
- > Research project

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- > Mentorship and Experiential Learning
- Discussion Forum

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

Skills the program offers to the students

The program shapes understanding and provides opportunities to the students to acquire dynamic skills by building their abilities to:

- ➤ Identify research gap
- Formulate a research study design
- Critical thinking in designing research methodology
- > Implementation of a research study
- Assess and understand quantitative and qualitative data
- > Interpretation of data

Benefits of the Course

After completion of this course, the students would be able to:

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

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> Opportunity to publish research paper based on interest and commitment of the participants

Course Curriculum

Module No.	Topic	Learning Objectives
	Introduction to Research	To present an overview of evidence-based research in order to strengthen research in the health care system.
Module 1	Research Domains	 To learn the concepts of operational research, implementation research, and Health system research To integrate different research domains for improving population health To compare the different research domains in different settings
Module 2	Basics of Research Methodology	 To categorize the different research areas To describe the research methodology To identify various steps involved in research
Module 3	Formulating a Research Question	 To understand the process of formulating a research question To know the FINER criteria to develop a research question To identify different components of research questions
	Overview of Research Methodology	To comprehend the many elements of research and the step-by-step methodology involved in the conduction of evidence-based research.
Module 4	Defining Research Hypothesis	 To understand null and alternate hypothesis To develop a research hypothesis Identify the steps involved in hypothesis testing
Module 5	Study Methods	 To analyze the research problem To implement the study design To apply the appropriate study tool

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Module 6	Survey Methods	 To describe the methods required to design a survey To describe the characteristics of survey methodology To frame different types of survey methods
Module 7	Research Design	 To understand the characteristics of mixed-method research To design and develop a research study Recognize the ethical considerations of research designs
Module 8	Sampling Methods	 To understand different sampling methods To distinguish between different sampling methods To apply sampling methods relevant to research objectives
	Data analysis in public health	To familiarize with the methods and stages employed for data collection, preparation, analysis, presentation, and interpretation to address the nation's current public health concerns.
Module 9	Data Analysis 1	 To understand the significance of the data To learn about types of data involved in healthcare research To learn about steps involved in data preparation
Module 10	Data analysis 2	 To understand steps and methods involved in data analysis To train students in presentation and interpretation of data To learn about future scope of healthcare data management
Module 11	Introduction to Qualitative data	 To Investigate the concerns and perspectives on a specific health issue among the population. To describe the influencing causes of health-related behavior To analyze the qualitative data in the health domain
	Fundamentals of manuscript writing	To learn about the numerous components involved in scientific research writing for peer-reviewed journals using the relevant tools.
Module 12	Critical appraisal of scientific literature	 To learn different databases for conducting a literature review To compare different types of literature reviews To identify strength and weaknesses of research articles

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Module 13	Systematic and Scoping Review	 To learn and understand the basics of scoping reviews Describe the steps to follow when doing a scoping review Discuss a scoping review case study 	
Module 14	Guide to scientific writing	 To know the key elements of a research paper To recognize the structure of key elements involved in scientific writing To learn about reporting guidelines for study types 	
	Research Seminar	Students will gain hands-on experience and instruction that will help them improve their communication and presenting abilities.	
	Case Study	Students will develop the abilities necessary for comprehending, interpreting, and summarizing the provided case, which will help them with critical thinking, problem-solving, and decision-making.	

Experiential Learning

Our experiential learning component includes our Virtual Interactive Novel Support Program for Innovation, Research, and Entrepreneurship aims to address population health challenges of the 21st century by enhancing the academic and non-academic skills of students using an Innovative and participatory experiential learning experience.

Course Quadrants:

- **Quadrant I 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

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S. No.	Assessment Type	Weightage
1.	Quiz	20%
2.	Weekly Assignments	10%
3.	Case Studies	10%
4.	Presentations	5%
5.	Mid-term Evaluation	25%
6.	End-term Evaluation Vellberng	30%
at C	Total	100%

Program Outcome

- > Certificates are provided to candidates who successfully complete the course.
- > Opportunity to participate in a <u>Career and mentorship program (CAMP)</u>
- ➤ Opportunity to participate in SMAART IMPACT
- ➤ Voluntarily participation in Community initiatives

Contact Details

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