

**Subject: Enrollment open for NIE-ICMR e-Certificate (NleCer) Online course on Health Research Fundamentals for STS Fellows- Regarding**

National Institute of Epidemiology [NIE], one of the premier ICMR institutes has started offering online courses on conduct of human bio-medical research. The programmes are offered as 'NIE-ICMR e-certificate NleCer courses' in collaboration with National Programme on Technology Enhanced Learning (NPTEL). NPTEL online courses are now funded by the SWAYAM initiative of the MHRD. NPTEL is a national coordinator under SWAYAM, and responsible for creating and running courses.

The first in the NleCer series, Health Research Fundamentals (NleCer 101)- is a basic level course in health research methods. The course is designed and conducted by faculty members from ICMR School of Public Health at NIE. It will explain the fundamental concepts in Epidemiology and bio-statistics related to human bio-medical research. This course will provide an overview of steps and principles for designing bio-medical and health research studies among human participants. The total duration of the course is 20 hours to be completed in 8 weeks. The participants will learn through video lectures, presentation slides, quizzes and readings. The course may help STS fellows to get oriented towards health research methodology.

The Health Research Fundamentals (NleCer 101) was initially launched during the month of January-February 2016 and the same re-run during July-September 2016 and January-February 2017. More than 8500 candidates had enrolled for the course.

The enrollment to the course for July-September 2017 session is now open till **24th July 2017**.

The course link for enrollment is as follows:

[https://onlinecourses.nptel.ac.in/noc17\\_ge06/preview](https://onlinecourses.nptel.ac.in/noc17_ge06/preview)

**The course brochure is attached as PDF. For more details you may contact: National Institute of Epidemiology, Chennai.**

(AK SHARDA)  
Sr. A. O.



## COURSE INSTRUCTORS

Faculty from ICMR School of Public Health at NIE

Dr. Sanjay Mehendale, MD, MPH, FAMS, FIMSA, FACE  
 Dr. Manoj Murhekar, MD  
 Dr. R. Ramakrishnan, MAE, PhD  
 Dr. Prabhdeep Kaur, MAE, DNB  
 Dr. Tarun Bhatnagar, MD, PhD, PGDBE  
 Dr. P. Manickam, BSMS, MSc, PhD  
 Dr. P. Ganeshkumar, MD



## CERTIFICATION EXAM

Upon course completion at designated centres  
 Exam fee : Rs 1000



## NATIONAL INSTITUTE OF EPIDEMIOLOGY

Indian Council of Medical Research

CHENNAI, INDIA

## Online Course HEALTH RESEARCH FUNDAMENTALS



### NIE-ICMR e-CERTIFICATE - COURSES

NieCer 101: Health Research Fundamentals, is a basic level course in health research methods. It will explain fundamental concepts in epidemiology and bio-statistics related to research methods. This course will provide an overview of steps and principles for designing bio-medical and health research studies among human participants.



### FOR WHOM

Any current or potential health researchers including students, clinical/public health/laboratory researchers, physicians, research associates, allied health professionals, scientists, statisticians, ethics committee members and project managers



### PRE-REQUISITES

Graduate in any discipline



### COURSE DURATION

20 hours in 8 weeks



### LEARNING MODE

- Video lectures
- Presentation slides
- MCQ quizzes
- Readings

### COURSE LAYOUT

- Week 1: Conceptualizing a research study**  
Introduction to health research  
Formulating research question, hypothesis and objectives  
Literature review
- Week 2: Epidemiological considerations in designing a research study (1/2)**  
Measures of disease frequency  
Descriptive study designs  
Analytical study designs
- Week 3: Epidemiological considerations in designing a research study (2/2)**  
Experimental study designs: Clinical trials  
Validity of epidemiological studies  
Qualitative research methods: An overview
- Week 4: Bio-statistical considerations in designing a research study**  
Measurements of study variables  
Sampling methods  
Calculating sample size and power
- Week 5: Planning a research study (1/2)**  
Selection of study population  
Study plan and project management  
Designing data collection tools
- Week 6: Planning a Research study (2/2)**  
Principles of data collection  
Data management  
Overview of data analysis
- Week 7: Conducting a research study**  
Ethical framework for health research  
conducting clinical trials
- Week 8: Writing a research protocol**  
Preparing a concept paper for research projects  
Elements of a protocol for research studies

COURSE BEGINS

July - 2017  
**24**

### ENROLL AT

[https://onlinecourses.nptel.ac.in/noc17\\_geo6/preview](https://onlinecourses.nptel.ac.in/noc17_geo6/preview)

### REGISTRATION FREE

#### Contact us

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