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भारतीय आयुर्विज्ञान परिषद्
MEDICAL COUNCIL OF INDIA
BOARD OF GOVERNORS
IN SUPERSESSION OF MEDICAL COUNCIL OF INDIA

Date:09.07.2019

NOTICE

**ONLINE RESEARCH METHODS COURSE FOR POSTGRADUATE STUDENT AND
FACULTY**

To comprehend the evidence published in biomedical literature, doctors need to have understanding of research methods. Therefore, acquiring research skills is an integral component of postgraduate training in the country. To ensure that all postgraduate students and faculty acquire the necessary skills, the Board of Governors of the Medical Council of India has decided to introduce an online course in Basic Research Methods for all postgraduate students in the country, and also for the faculty training them.

- (i) **The online course in Research Methods is mandatory for all postgraduate students being admitted from the AY 2019-20 onwards.**
- (ii) **All PG students will have to complete the online course by the end of their 2nd semester.**
- (iii) For faculty who has no prior formal training in research, it is recommended that they too complete this online course.
- (iv) The online course will be conducted by the National Institute of Epidemiology (NIE) of the Indian Council of Medical Research. The students will have to register on the NIE portal.
- (v) The course allows a flexible time for students/faculty to register and start the course (which would be about 8 weeks in duration with inbuilt time bound assignments and assessments). However, the course completion requires the candidate to appear for an online offsite exam which will be held at fixed times (about twice in a year).
- (vi) An online certificate will be generated on successful completion of the course and examination. This document will be taken as proof of completion of the online course.
- (vii) There will be no fee for the online course but students will have to pay appropriate fee for the examination (the details of the same will be available when one registers for the course)
- (viii) It is expected that the portal for registering for this course for the current academic year will open by the 1st August, 2019. Details of the site, the process of registration, etc will be communicated in due course of time, both on the MCI website and by notification to the college.

Vats
9/7/19.
(Dr. R.K. Vats)
Secretary General



icmr **NIE**
INDIAN COUNCIL OF
MEDICAL RESEARCH NATIONAL INSTITUTE OF
EPIDEMIOLOGY

“Basic Course in Bio-medical Research”

Online course for post-graduate medical students and faculty

Course approved by Board of Governors - in supersession of Medical Council of India
In partnership with ICMR-National Institute of Epidemiology and SWAYAM NPTEL

Introduction

In order to improve the research skills of post-graduate (PG) students and faculty, the Board of Governors (BoG) has recommended a uniform research methodology course across the country. The online course, “Basic Course in Bio-medical Research”, will be offered by ICMR-National Institute of Epidemiology (ICMR-NIE), Chennai (www.nie.gov.in). The course will explain fundamental concepts in research methodology. This course is being offered through SWAYAM programme of Ministry of Human Resource Development through SWAYAM NPTEL (https://swayam.gov.in/nc_details/NPTEL)

Course contents

The course includes **23 topics** covering conceptualization of a research study, epidemiological and bio-statistical considerations in designing a research study, planning and conducting a research study, writing a research protocol and publication ethics (*Course syllabus given below*). The learning materials will include video lectures, presentation slides, reading materials and assignments.

Enrolment for the course

The course will be available at: https://swayam.gov.in/nd1_noc19_ge33/preview. The above link will be made available from home pages of MCI (<https://www.mciindia.org/>) and ICMR-NIE and will be accessible from 1 August 2019. The candidates can **enrol for the course from 1 August 2019**. Candidates should have enrolled for the course at least **one month prior to the opening of the registration for examination**. Re-enrolment is possible for those who are found ineligible on the basis of total assignment score (*Refer important dates given below*).

Course duration

The course will have learning materials for 23 topics and the candidates may require minimum an hour to complete the course materials per topic. The assignments have to be completed prior to the registration for examination.

Course assignments

Each of the 23 topics will have online assignments consisting of 10 Multiple-Choice Questions (MCQs) each. Thus, ‘total assignment score’ sums to a maximum of 230. **A minimum of 50% in total assignment score is essential to register for the examination.**

Course syllabus

1. Conceptualizing a research study

- Introduction to health research
- Formulating research question, hypothesis & objectives
- Literature review

2. Epidemiological considerations in designing a research study

- Measures of disease frequency
- Descriptive study designs
- Analytical study designs
- Experimental study designs: Clinical trials
- Validity of epidemiological studies
- Qualitative research methods: An overview

3. Bio-statistical considerations in designing a research study

- Measurement of study variable
- Sampling methods
- Calculating sample size and power

4. Planning a research study

- Selection of study population
- Study plan and project management
- Designing data collection tools
- Principles of data collection
- Data management
- Overview of data analysis

5. Conducting a research study

- Ethical framework for health research
- Conducting clinical trials

6. Writing a research protocol

- Preparing a concept paper for research projects
- Elements of a protocol for research studies
- Publication ethics