COURSE PLAN

Conceptualizing a research study | Introduction to health research.
Formulating research question, hypothesis and objective | Literature review – Dr. P Ganeshkumar
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.
Bio-statistical considerations in designing a research study | Measurement of study variables | Sampling methods | Calculating sample size and power.
Planning a research study | Selection of study population | Study plan and project management | Designing data collection tools.
Planning a research study | Principles of data collection | Data management | Overview of data analysis.
Conducting a research study | Ethical framework for health research | Conducting clinical trials.
Writing a research protocol | Preparing a concept paper for research projects | Elements of a protocol for research studies.

MULTIFACULTY

TYPE OF COURSE : Rerun | Elective | UG
COURSE DURATION : 8 weeks (29 Jul’19 - 20 Sep’19)
EXAM DATE : 29 Sep 2019

PRE-REQUISITES : Undergraduate students in medical/dental/nursing/AYUSH streams
Graduate in any discipline

INDUSTRY SUPPORT : Government/ private sector, public health service institutions

COURSE OUTLINE :
National Institute of Epidemiology [NIE], Indian Council of Medical Research [ICMR] is offering online programmes on conduct of human bio-medical research. The programme will be offered as NIE-ICMR e-Certificate – NiCeCer - Courses.

ABOUT INSTRUCTOR :
Multifaculty
National Institute of Epidemiology

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Week 1 : Conceptualizing a research study | Introduction to health research.
  Formulating research question, hypothesis and objective | Literature review – Dr. P Ganeshkumar

Week 2 : Epidemiological considerations in designing a research study | Measures of disease frequency
  Descriptive study designs | Analytical study designs.

Week 3 : Epidemiological considerations in designing a research study | Experimental study designs: Clinical
  trials | Validity of epidemiological studies | Qualitative research methods: An overview.

Week 4 : Bio-statistical considerations in designing a research study | Measurement of study variables | Sampling methods | Calculating sample size and power.

Week 5 : Planning a research study | Selection of study population | Study plan and project management | Designing data collection tools.

Week 6 : Planning a research study | 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.