



अखिलभारतीयआयुर्विज्ञानसंस्थान,गोरखपुर
All India Institute of Medical Sciences, Gorakhpur
(स्वास्थ्य एवं परिवार कल्याण मंत्रालय भारत सरकार द्वारा स्थापित एक स्वायत्त निकाय)
(An autonomous organization under the Ministry of Health & Family Welfare, Govt. of India)

Syllabus for Entrance Examination

PhD programme, AIIMS Gorakhpur

Session 2023

Syllabus for PhD Entrance Examination

Section A (Research methodology)

- I. *Conceptualizing a research study***
 - 1 Introduction to health research
 - 2 Formulating research question, hypothesis and objectives
 - 3 Literature review
- II. *Epidemiological considerations in designing a research study***
 - 4 Measures of disease frequency
 - 5 Descriptive study designs
 - 6 Analytical study designs
 - 7 Experimental study designs
 - 8 Validity of epidemiological studies
 - 9 Qualitative research methods: An overview
- III. *Planning a research study***
 - 10 Selection of study population
 - 11 Study plan and project management
 - 12 Designing data collection tools
 - 13 Principles of data collection
 - 14 Data management
 - 15 Overview of data analysis
- IV. *Writing a research protocol***
 - 16 Preparing a concept paper for research projects
 - 17 Elements of a protocol for research studies
 - 18 Publication ethics
 - 19 Manuscript Writing (non-graded)
 - 20 Grant Proposal Writing (non-graded)

Section B (Biostatistics, Research Ethics and Recent advances)

I. Bio-statistical considerations in designing a research study

- 1 Measurement of study variables
- 2 Sampling methods
- 3 Calculating sample size and power

II. Ethical issues in conducting a research study

- 4 Ethical framework for health research
- 5 Conducting clinical trials
- 6 Informed consent
- 7 ICMR guideline for biomedical research

III. Computer application in research

- 8 Internet and its application
- 9 Database searches on internet
- 10 MS-Excel
- 11 Presentation of data

IV. National health programs

V. Instrumentation and Handling

VI. Recent advances in the field of Medicine