



**INTEGRAL
UNIVERSITY**



INSPIRING EXCELLENCE

**INTEGRAL INSTITUTE OF MEDICAL
SCIENCES & RESEARCH
(IIMSR)**

**DEPARTMENT
OF
COMMUNITY MEDICINE**



PhD. Entrance Syllabus

Session: 2024-25

Kuldeep Srivastava

Dr. Kuldeep Srivastava

MBBS, MD

Professor & HOD Dept of Community Medicine
IIMSR, LUCKNOW

Alkhendra

PhD, ABHA, CHANDRA
MD, MS, MCh (CVTS), DNB (CVTS), MRAMS, FACS (Thoracic)
FICS (CVTS), FIACS (CVTS), FAS, FVSI (Vascular),
Cardiovascular and Thoracic Surgeon
Dean
Integral Institute of Medical Sciences and Research
Integral University
Lucknow, Uttar Pradesh.



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PhD. ENTRANCE SYLLABUS-2024
COMMUNITY MEDICINE**

1. HEALTH SYSTEMS IN INDIA AND THE WORLD – HISTORICAL PERSPECTIVE

- a) History of Public Health in India
- b) History of Public Health in the World
- c) Primary Health Care
- d) The Health Care System in India and other countries – Structure and Function:

2. SOCIOLOGY

- a) Study of Society, Community, Culture
- b) Family, marriages and other institutions
- c) Socialization and social control
- d) Social stratification
- e) Motivation, incentives and disincentives
- f) Knowledge, attitude and practice – Assessment and influencing health and disease
- g) Leadership – qualities, types, etc.

3. SOCIO- CULTURAL DIMENSION IN HEALTH

- a) Principles of Sociology and the Behavioral Sciences
- b) Principles, theories and learning of Social Psychology
- c) Application of Sociology in Health and Development
- d) Consumer Protection Act
- e) Operational Research
- f) Ethical issues in Medical Research

4. PRINCIPLES OF EDUCATIONAL SCIENCE AND TECHNOLOGY

- a) Curriculum Planning, Educational objectives
- b) Principles of Learning
- c) Teaching/ Learning methods
- d) Teaching skills including Micro Teaching
- e) Preparation and Use of Teaching Aids and Learning Research Materials.
- f) Methods of Evaluation

5. PRINCIPLES AND PRACTICE OF INFORMATION, EDUCATION AND COMMUNICATION

- a) Principles of IEC/ Health Education
- b) Communication Skills
- c) The use of Media for IEC
- d) Practice (Methods) of IEC and its application in Community Health
- e) Evaluation of impact

6. PRINCIPLES OF NUTRITION AND APPLIED NUTRITION

- a) Nutrients, Daily Requirements, Balanced Diet, and Primordial Prevention of Lifestyle related disease.
- b) Nutritional Deficiencies – As a Public Health Problem and Interventions
- c) Assessment of Nutritional status in a community and approach to a programme
- d) Nutritional Programmes in India – Critical Review
- e) Other Aspects of Nutrition



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7. PRINCIPLES OF ENVIRONMENTAL HEALTH

- a) Water, Air
- b) Housing including domestic and industrial housing standards
- c) Noise and noise pollution
- d) Radiation
- e) Meteorological Environment including temperature, humidity and rainfall
- f) Lighting
- g) Disposal of Waste and Sanitation
- h) Environmental Pollution
- i) Non-conventional sources of energy viz. gobar gas, windmill.
- j) Various governmental and non-governmental schemes and programmes related to environment
- k) Medical Entomology

8. MATERNAL HEALTH, CHILD HEALTH AND FAMILY WELFARE (RCH)

- a) Common Maternal and child health problems at an individual and community level
- b) Genetics and Health
- c) Structure of MCH and Family Welfare services in India
- d) Demographic Trends in India
- e) School Health services
- f) Social Paediatrics
- g) Gender Issues

9. EPIDEMIOLOGY AS A TOOL WITH HEALTH PROFESSIONALS

- a) Concept of Health and Disease
- b) Research Methodology
- c) Principles of Epidemiology
- d) Epidemiologic Studies
- e) Designing an methodology of an experiment or a study
- f) Screening
- g) Assessment of Health of Community (Tools, Methods, Indicators, Problems)

10. BIOSTATISTICS

- a) Sampling and planning of health survey
- b) Probability, Normal distribution and other distributions (Binomial, Poisson, Exponential)
- c) Estimating population values
- d) Sampling variability and significance
- e) Tests of significance (Parametric/Non-parametric including qualitative methods)
- f) Analysis of variance, Analysis of co-variance
- g) Association, correlation and Regression
- h) Vital statistics
- i) Evaluation of health and measurement of morbidity / mortality
- j) Life table and its uses
- k) Use of computers and various statistical packages
- l) Census



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11. PRINCIPLES OF TROPICAL MEDICINE

- a) Infectious and non-Infectious Diseases -A Public Health Problem:
Criteria and Approaches to solve them and their effect on
Community Health
- b) Infectious Disease Epidemiology
- c) Non-Infectious Disease Epidemiology
- d) Emerging and reemerging disease
- e) Hospital Acquired Infections

12. NATIONAL HEALTH PROGRAMMES

- a) The origin, historical development, interventions, current state and critique of the
different National Health Programmes.
- b) The implementation of NHPS at a programme level and in the community

13. COMMUNITY MENTAL HEALTH

- a) Principles of Mental Health
- b) The Approach to Mental Health Problems in a Community
- c) Spiritual Health

14. OCCUPATIONAL HEALTH – ORGANIZED AND UN-ORGANIZED SECTOR

- a) Principles of Occupational Health
- b) Legislation in Occupational Health
- c) Basics of Industrial Toxicology
- d) Principles of Industrial Psychology
- e) Basics of Ergonomics
- f) Health Problems in other sectors viz IT, Agriculture

15. HEALTH CARE OF THE AGED AND THE DISABLED

- a) Community Geriatrics
- b) The Disabled and Rehabilitation

16. VOLUNTARY SECTOR IN HEALTH

- a) Role of the Voluntary Sector in Health

17. INTERNATIONAL HEALTH

- a) International Health Agencies
- b) International Health Regulations
- c) Emporiatics
- d) Medical Tourism
- e) Bio-terrorism
- f) Privatization and Globalization of Health Care

18. HEALTH CARE ADMINISTRATION AND HEALTH MANAGEMENT

- a) Principles of Planning and Evaluation
- b) Health Management
- c) Basics of Health Systems Research



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- d) Basics of Health Economics
- e) Basics of Health Information Systems
- f) Hospital Management
- g) Health Service Management
- h) Medical Audit

19. PUBLIC HEALTH ADMINISTRATION

- a) General administration at Centre, state and district Panchayat Raj
- b) Principles of organization and administration
- c) Health administration at state, Centre and Municipal Corporation
- d) National health policy
- e) National health programs and National Disease Control & Eradication Programmes
- f) Primary health care in India
- g) Planning and evaluation of programs
- h) Management of motivating
- i) Health care administrator – roles, tasks and functions
- j) Management of motivation
- k) Team concept and functioning
- l) Management of district health services
- m) Mobilizing community resources and creating demand for services
- n) Management of human resources
- o) Management of supportive system, including man power planning and development system
- p) Managing conflict and interpersonal behavior, and understanding interpersonal behavior
- q) Communication and coordination.
- r) Office management
- s) Finance, Material Management, Vehicle Management
- t) Public health Laws.