



Master of Public Health (MPH) Syllabus

1st Semester

PAPERS CODE	PAPERS NAME	INTERNAL	EXTERNAL	TOTAL
MPH101	Introduction to Public Health	40	60	100
MPH102	Human Biology & Public Health Chemistry	40	60	100
MPH103	Medical & Health Statistics	40	60	100
MPH104	Research Methods in Public Health	40	60	100
MPH105	Health Psychology, Communication & Counselling	40	60	100
MPH106	Project (Field visits)	60	40	100
Total		260	340	600

2nd Semester

PAPERS CODE	PAPERS NAME	INTERNAL	EXTERNAL	TOTAL
MPH201	Epidemiology	40	60	100
MPH202	Demography & Population Sciences	40	60	100
MPH203	Project Planning & Management	40	60	100
MPH204	Communicable & Infectious Diseases	40	60	100
MPH205	Non-communicable Diseases	40	60	100
MPH206	Project (Field visits)	60	40	100
Total		260	340	600

3rd Semester

PAPERS CODE	PAPERS NAME	INTERNAL	EXTERNAL	TOTAL
MPH301	Health of Vulnerable Populations	40	60	100
MPH302	Environmental Health & Sustainable Development	40	60	100
MPH303	Occupational, Industrial and Urban Health	40	60	100
MPH304	Health Policy, Planning & Economics	40	60	100
MPH305	Public Health Internship		100	100
MPH306	Project on Vulnerable Population		100	100
Total		160	440	600

4th Semester

PAPERS CODE	PAPERS NAME	INTERNAL	EXTERNAL	TOTAL
MPH401	Public Health Nutrition	40	60	100
MPH402	Health Systems Development & Management	40	60	100
MPH403	International Health	40	60	100
MPH404	Report on Field Visit	60	40	100
MPH405	Research Project work		200	200
Total		180	420	600

Master of Public Health (MPH) -SEMESTER I

MPH - 101: Introduction to Public Health

Introduction- Definition, Significance, Evolution of Public & Community Health

Genesis and Development of the concept, Healthcare versus Medical Care,

Approaches to Public Health

Determinants of Health – Biological, Behavioral, Socio-economic, Cultural,

Environmental, Geographical etc

Concept of Primary Health Care. Community

Diagnosis & Needs Assessment

Community perception and priorities on health and

disease Disease profiles & Epidemiological transition

Public Health delivery system in India

Ecology of health

Right to health

Introduction to National Health Policy – 1983 & 2002, National Population Policy –

2005, National Rural Health Mission (NRHM) and National Urban Health Mission

(NUHM), National Public Health Programs.

Suggested Text Books/Publications:

1. Oxford textbook of Public Health Ed. Roger Detels, James Mcewen, Robert Beaglehole, and Heizo Tanaka Oxford University Press (OUP) 4th Edition: 2002.28

2. Public Health at the Crossroads – Achievements and Prospects. Robert Beaglehole and Ruth Bonita 2nd Edition Cambridge University Press
3. Maxcy-Rosenau-Last Public Health & Preventive Medicine, Fourteenth Edition Ed Robert Wallace, MD, et al.
4. Epidemiology and Management for Health Care: Sathe, P.V. Sathe, A.P., PopularPrakashan, Mumbai, 1991.
5. International Public Health: Diseases, Programs, Systems, and Policies by Michael Merson, Robert E Black, Anne J Mills - Jones and Bartlett Publishers.
6. Preventive and Social Medicine, K Park, Bansaridas Bhanot Publishing House.

MPH - 102: Human Biology & Public Health Chemistry.

Public Health Biology – Introduction, Scope and Applications Human Life Cycle

Medical Terminology- Introduction to bacteriology/virology/Myology/parasitology/Genetic diseases/ genetics/Pediatric diseases/problems/Neoplasia/Inflammation & healing

Human Anatomy - General Anatomy of Human body

Structure and function of organs and systems - Digestive, Respiratory, Excretory, Circulatory and lymphatic, Endocrine, Musculo-skeletal, Nervous, Reproductive.

Human Immunology-Basic Principles & concepts of Immunology & Role of Nutrition, immunity to infection and role of vaccination,

Human Pathology - General Pathology, Disease pathogenesis, diagnosis, diagnostic techniques – its role, importance and applications in public health

Human Physiology - Introduction, Environmental Physiology (Respiratory),

Cardiovascular Physiology, GIT, Reproductive Physiology, Blood Physiology

Human Microbiology - Introduction, Sterilization, Anatomy of Bacteria, Bacteria in Water and Milk, Culture Media/Methods, T.B., Malaria, STI, RTI, AIDS.

Medical Biochemistry – Biochemistry of human body and biochemical laboratory investigations – its role, importance and applications in public health

Suggested Text Books/Publications:

1. Guyton Arthur C., 1991, Textbook of Medical Physiology, A Prism Book Pvt. Ltd. Bangalore
2. Horton Casey, 1994, Atlas of Anatomy, Marshall Cavendish Books, London.
3. Keele, Neil et.al, 1991, Samson Wright's Applied Physiology, Oxford University Press, Delhi.
4. Winwood R.S, J.L.Smith, 1985, Anatomy and Physiology for Nurses, Education Academic and Medicinal Publishing Division of Hodder and Stoughton, London.

MPH - 103: Medical & Health Statistics

Introduction, Scope & applications of Biostatistics in Medical & Public Health Sciences

Concept & applications of descriptive statistics – collection, measurement, presentation and analysis of medical & public health data–Measures of Central Tendency, Measures of Variability, Coefficient of Variation

Survey methods - quantitative and qualitative survey methods in medical & public health sciences

Sampling methods and techniques

Concept, significance of theory and computations of probability in medical and health sciences

Concept of probability distributions – Binomial, Poisson, Normal and t

distributions Statistical Inference

Estimation of Population Parameters – Standard Errors, Confidence

Intervals Testing of Hypothesis and Significance – Introduction & Concept

Parametric Tests–Small samples & large samples & Quantitative and qualitative data

– Z test, t test, X² test, ANOVA, F test, Multivariate

Analysis Non-parametric Tests

Correlation – Concept and Computation of Correlation

Coefficient Regression - Concept and Computation of Regression Coefficient

Health Statistics - Measurement of Health, Sickness, and Disease in a population Vital Statistics – Rates & Ratio's

Hospital Statistics – Hospital Management Information Systems & Medical Records, Classification of Diseases, Procedures (ICPD), and Deaths

Application of statistical software's in data management and analysis – SPSS, Istat, Systat etc.,

Suggested Text Books:

1. An Introduction to Biostatistics: A manual for students in Health Sciences: P.S.S. Sundar Rao, J. Richard Prentice Hall, New Delhi, 1996.
2. Bio-Statistics: A foundation for Analysis in the Health Sciences: Daniel, W.W., John Wiley and Sons Pub., Canada, 1991.
3. Bio-Statistics: A Manual of statistical methods for use in the Health, Nutrition and Anthropology: K. Vishwas Rao, Jaypee Brothers Medical Pub., New Delhi, 1996.
4. Bio-Statistics perspective in Health care research and practice: Verma, B.L., Shukla, G.D., et., al , C.B.S. Pub. New Delhi 1993.
5. Handbook of Statistics: Krishnaiah, P.K. Rao, C.R. (ed), Elsevier Science Pub. Netherlands, 1988.
6. Sample Size Determination in Health Sciences – A Practical Manual by S.K. Lwanga & S. Lemeshow, World Health Organization, Geneva, 1991
7. Statistics in Small Doses by W. Castle
8. Biostatistics in Clinical Medicine by Ingelfinger
9. Primer of Biostatistics by Grant
10. Statistical Methods in Medical Research by P. Armitage 11. A Short Textbook of Medical Statistics by Bradford Hill.

MPH - 104: Research Methods in Public Health

Introduction to Research- Definition, Types, Strategies & Designs Research Process and Cycle

Descriptive/epidemiological studies–Cross sectional, Operational Research and correlation studies.

Analytical Studies-Case control study, Cohort study

Experimental Studies- Quasi-Experimental Studies & Clinical trials- Introduction to various types and its application

Research Methods -Qualitative (Development of conceptual framework, - Qualitative methods: FGDs, in-depth interviews, ethnographies, participatory methods, participant observation etc. Data collection, recording) & Quantitative.

Statistical Methods in Public Health Research-Application and Interpretation

Research Data Collection Tools & Methods-Sampling and survey methods, Sample size, Survey design & Planning, Interview schedule, questionnaire construction, validation etc

Research Data Collection, Management, Coding procedures Participatory Research and Analysis (PRA)

Methods Ethical Aspects in health research.

Research paper/Proposal-Formulation, writing & critical review.

Bibliography-Review of literature and bibliography

Suggested Text Books:

1. Health Research Methods – A Guide for Training in Research Methods, World Health Organization, Manila, 2001
2. Research Methodology by A.P.Kulkarni Power Publication, Calcutta
3. Research Methods by Ranjit Kumar
4. Research Methods by Good & Hatt
5. Research Methods by P. V. Young
6. Research Methods by Media research methods by Barrie Gunter.

MPH - 105: Health Psychology, Communication & Counseling

Human Psychology-Nature, scope & Factors influencing human behavior.

Human growth and development across the Life span, Conflict resolution.

Health Psychology- Concepts, Understanding, & health seeking behaviors, factors influencing health psychology

Society & Health - socio-psychological barriers (Social taboos, blind faiths, believes, myths that affect health)

Communication – Process, Types, Barriers, Tools & Techniques

Health education/communication- Principles & Practice, Approach, Models, Content

Information Communication Technologies (ICT) in health care and awareness. (Telemedicine & e-health, community radio)

Health Counseling- Introduction, theories, process & techniques.

Stigma and discrimination: Definitions, context and role of stigma and discrimination in health and disease.

Counselor- Personal and interpersonal development of the Counselor.

Teaching technologies, methods and Microteaching

Suggested Books

1. Health Psychology, By Taylor Shelly E, Tata McGraw-Hill , first edition, 2006
2. Handbook of Cultural Health Psychology edited by Shahe S. Kazarian, David R. Evans, Academic press, 2001
3. Health Psychology: A Critical Introduction By Antonia C. Lyons, Kerry Chamberlain, Cambridge University Press
4. Health Communication in the 21st Century, By Kevin B. Wright, Lisa Sparks, H. Dan O'Hair, Blackwell publishing limited, 2013, first edition
5. Health Communication: From Theory to Practice, By Renata Schiavo, Published by Jossey Bash.
6. Health Communication R.D. Karma Published by Mohit Publications 2008.

Master of Public Health (MPH): SEMESTER II

MPH - 201: Epidemiology

Introduction to Epidemiology- Definition, History, Aims, Basic principles, Uses of Epidemiology

Epidemiological methods: Descriptive Epidemiology, Analytical Epidemiology,

Experimental Epidemiology

Epidemiological study designs –Descriptive (cross-sectional), analytical (case control & Cohort) and experimental

Determinants of disease, Natural history of disease

Epidemic investigations

Association and causation

Risk measurement, Measurement of morbidity and mortality: Incidence, Prevalence, Age-adjustment and survival analysis, use of morbidity and mortality.

Epidemiology of Communicable & Non-communicable Diseases- Risk factors, global profile and predictions prevention and control.

Social epidemiology- Definition, History, Aims, Basic principles & Methods

Suggested text Books:

1. Epidemiology by P.V.Sathe, Popular Prakashan
2. Gordis Leon Epidemiology (3rd edition) ,W B Saunders and Co.
3. Beaglehole. R. Bonita, et. al Basic Epidemiology :., WHO Publication, Geneva, 1993.
4. David E., et. al. Foundations of Epidemiology : Oxford University Press, New York, 1984.
5. Barkar, D.J.P., Practical Epidemiology: Churchill pub, Livingstone, 1982.
6. Epidemiology in health care planning: E.A. Knox (ed), Oxford University Press, New York,1979.
7. Katz Mitchell: Study Design and Statistical Analysis: A Practical Guide for Clinicians
8. Last, J.M., Spasoff, R.A. Harris, S. S. and Thuriaux, M.C. (Eds): A Dictionary of Epidemiology, Oxford University Press, New York, 4th Ed., 2001.

MPH-202: Demography & Population Sciences

Introduction: Definitions, Scope and nature, importance of the study, Historical review, difference and similarities between Demography and Population Sciences.

Methods of Demographic Data Collection: Primary and Secondary sources of data collection, Procedures, Uses, Strengths and weakness of census, vital statistics, sample survey, dual reporting system – SRS, Data from national health program/disease surveillance, hospital statistics, police records, remand homes etc.

Population composition: Sex composition, factors affecting sex composition, Age structure Population pyramids, impact of various demographic processes on the age structure. Comparison – developed and developing countries.

Demographic transition

Fertility: Determinants: Social economic, political, natural fertility levels and trends in India and world, Measures of fertility, Impact of level of fertility on reproductive health, selected theories of fertility, policies about fertility control.

Mortality: Measures of mortality, Causes of Death: epidemiological perspective, Infant & neonatal mortality rates, maternal mortality, disease wise mortality, Trends of Mortality in India, differentials in mortality in developed and developing countries.

Migration and urbanization: General terms and concepts, internal migration, measures of migration, Differential migration, International migration, Migration in India.

Urban challenge of health and environment.

Population Growth and Problems: Population growth, reasons for sudden growth in population, problems emerging out of that. Rural-urban distribution of growth pattern, population growth and related problems.

Population Policy: Health planning in terms of Family planning, Health services, Vital processes. Policies and programmes influencing demographic processes in the context in India's population.

Demographic dividend-Concept, scope and applications.

Suggested Text Books/References:

1. Principles of population Studies: Asha Bhende and Tara Kanitkar, Himalaya Pub, Houses, Mumbai, 1996
2. Population: John Weeks, Wordsworth pub., California, USA, 1994.
3. Population Transition In India: S.N.Singh, M.K.Premi, P.S.Bhatia, B.R.Publishing Corporation, Delhi, 1989.
4. Population in the context of India's development: P.B. Desai UGC – UNFPA project, Ahmedabad, 1987.

MPH - 203: Project Planning & Management

Introduction to project planning and management in health care & public health
Project Planning, Structure & Content – Personnel, Financial, Operational planning
Decision making tools for project planning - Logical Framework Analysis (LFA)
tools, SWOT Analysis for project development
Project Life Cycle
Project identification, preparation &
formulation Project Proposal Writing Project
budgeting and financing
Project review and approval
Project execution/implementation
Project management – History, Roles & Responsibilities, Types of management
(Strategic management, Operations management, Crisis management)
Project evaluation – Internal and external evaluation, Participatory evaluation
Methods, Tools & Techniques (PERT, CPM) & Indicators for project evaluation
Fund raising for projects

Suggested Text Books/References:

1. Project Management for Healthcare By David Shirley, CRS Press, 2011
2. Project Management in Health and Community Services-Getting good ideas to work, By Judith Dwyer, Pauline Stanton, Valerie Thiessen, National Library of Australia,
3. The ABCs of Program or Project Planning By Sunny O'Flynn, Strategic book rights and publishing company, Houston

MPH - 204: Communicable & Infectious Diseases

General overview of communicable diseases, impact of communicable diseases on developing countries. Characteristics of prokaryotes and eukaryotes, Structure and function of typical bacterial cell.

Virulence factors, mode of action of toxins, cellular basis of disease

Microbial subversion of host defense mechanisms

Anti-microbial agents, mode of action, genetic basis of drug resistance, multi-drug resistance

Biology of viruses, classification, and mechanism of pathogenesis Anti-viral agents

Biology, pathogenesis and pathology, clinical presentation, of common infections -

Respiratory : Tuberculosis, leprosy, ARI's including pneumonia, measles, mumps , rubella

Intestinal : Diarrhoea, typhoid, polio, hepatitis, worm infestations

Contact : STDs and AIDS

Vector borne : Plague, rabies, malaria and filaria, JE, dengue

Disease prevention and control

Malnutrition and infection

Health aspects of Disaster management-Definition, types and management

Suggested Text Books/Publications:

1. World Health Organization: Report on infectious diseases, and Report on Multidrug resistance, World Health Organization, Geneva
2. Principles and Practice of Medicine: Davidson, Edward, Bouchier et. Al., Pearson Professional Ltd. London, 1995
3. Biology of Disease: Jonathan Phillips, Paul Murray, Blackwell Science Ltd. Australia, 1995
4. Practical Medical Microbiology : Mackie and M.C. Cartney, Longman Group, U.K. 1995
5. Human Virology : A textbook of Students of Medicine and Microbiology, Dentistry, Leslie Collier, John Oxford, Oxford University Press, Tokyo, 1993
6. Textbook of Medicine: Cecil, Bennett, et al., Harcourt Brace Joanvich Inc. U.S.A. 1992
7. Medical microbiology: Greenwood et al., Churchill Livingstone Longman group, London, 1992
8. Textbook of Medical Parasitology: Jayram Paniker, Jaypee Brothers, New Delhi, 1993

MPH 205: Non-Communicable Diseases

Overview and introduction to NCDs

Epidemiology of NCDs, risk factors, prevention and management: general strategies New approaches and policies of NCDs.

NCDs programs of WHO, PAHO, and Government of India.

Some important NCDs: Following diseases will be covered for Etiology, Pathophysiology, Epidemiology, Prevention and Control. -Asthma , Cancer , Cardiovascular diseases , Chronic , rheumatic diseases , Diabetes , Tobacco use

Mental Health: Classification, biochemistry, clinical manifestations, diagnosis and treatment and intervention and support services

Concept of Mental Health

Burden of Mental diseases

Depression, Schizophrenia, Alzheimer's, Parkinson's, Senile dementia ,Suicides

Substance Abuse

National Mental Health Programme

Emerging & re-emerging diseases

Role of Voluntary organizations, self-help groups

Suggested Text Books/Publications:

1. Global Handbook On Non-Communicable Diseases And Health Promotion By David V. Mcqueen, Springer Publication.
2. Education Of Communicable And Non-Communicable Diseases S.L. Goel Published By Deep & Deep Publications Pvt. Ltd., 2009
3. Burden Of Non Communicable Diseases (Paperback)By (Author) M D Richa, By (Author) Gyan Prakash Singh, By (Author) C P Mishra Published By Lap Lambert Academic Publishing. 2012
4. Park's Textbook Of Preventive And Social Medicine 21 Edition By K. Park Published February 2011 By Banarsidas Bhanot Publishers.

MPH. - 206- Public Health Practical/Field Visits

Practical based on MPH. - 201 to MPH. - 205

1. Epidemiological Exercise on Water
2. Epidemiological Exercise on epidemiology
3. Medical Important Arthropods.
4. Measurement of morbidity and sickness-rates and ratio's.

5. Measurement of Risk Analysis for various morbidity, mortality and survival.
6. Exercise on Life tables-Life expectancy at birth and at different ages.
7. Exercise on RCH Logistics
8. Exercises on population trends and growth.
9. Exercises on mortality and fertility- rates and ratios.
10. Formulation of a project proposal on selective topic/problem based on all the concepts of project planning and management learnt in the theory topics.
11. Community Needs Assessment-To conduct the community needs assessment for different stakeholders- Users-Migrant workers, villagers, women, children, tribal, industrial workers, farmers etc. & Doers-Govt., NGO, Private sector etc.
12. Visit to Vector Breeding Places in villages as well as hotels, market place, slaughter houses, market, livestock shed etc.
13. Visit to district vector control office.
14. Visit to STI Clinics & ART Centre.
15. Visit to rehabilitations homes for mentally sick people.
16. Visit to police stations for collecting data on road traffic accidents and injuries.
17. Visit to Cancer Centre for study of cancer registry and various cancer prevention and treatment facilities.

Master of Public Health (MPH) : SEMESTER III

MPH 301: Health of Vulnerable Populations

Definition and Concept of Vulnerable Populations

Vulnerable groups their health and human rights

Vulnerable Groups facing Structural Discrimination in India–Women, children, SC, ST etc

Vulnerability by different factors- Race and ethnicity (Tribal, Dalits, Indigenous populations), Gender (male, female, transgender), Geographical area (rural/urban, remote & hilly areas), Age (Child, adolescent, elderly), Disability (Physical & Mental – Social and health inequalities) Migration & Displacement, Stigma and Discrimination (PLW HIV/AIDS, Sexual Minorities, Sex workers), High Risk Occupations (Farmers-Farm workers, Industrial workers, Mining workers, Sex Workers, Child Labour, Street Children) Environment, War and Natural Calamities .

Violation of right to health of vulnerable populations- Concept of gender, Social structure and gender, Gender discrimination, Consequences of gender discrimination on health, Gender in the context of development, Violence against women, Girl trafficking, Global issues related to gender, Legal aspects and acts related to gender:MTP,PNDT,Prostitution, homosexuality etc.

Issues related to Children and Adolescent- Child abuse/Child labour/Street Children & malnutrition, Girl Trafficking & anemia in adolescents, reproductive rights of adolescents.

Health inequality and health care disparities among vulnerable populations

Advocacy of health and human rights of vulnerable groups

Public health preparedness of vulnerable populations

Vulnerable populations in medical/health research

Assessment & addressing the needs of vulnerable populations

Special schemes, projects, programs for vulnerable populations

International aid agencies supporting vulnerable populations

Suggestive Text Books/References:

1. Vulnerable Groups in India by Chandrima Chatterjee & Gunjan Sheoran, CEHAT, Mumbai

2. Vulnerable Populations in the United Nations by Leiyu Shi & Gregory D. Stevans, 2nd Edition, Published by Jossey-Bass, A Wiley Imprint, San Francisco
3. Public Health Preparedness and Response for at-risk populations by Anne Rader, Margo Edmunds, John Bishop, Booz Allen Hamilton Publications
4. Vulnerable Populations in Research (ppt) by Dr. G.D. Ravindran, St. John's Medical College, Bangalore
5. Tribal Health Problems, Disease Burden and Ameliorative Challenges in Tribal Communities with special emphasis on Tribes of Orissa by R.S. Balgir,

MPH (302): Environmental Health & Sustainable Development

Environmental Health

Environment-Definition, Concept, Components

Environmental Pollution- Sources, Impacts and treatments of Air (Indoor/Outdoor), Water, Soil, Nuclear, Solid waste, Biomedical waste, e- waste etc.

Development & Environmental issues -Environmental Ethics, Global Warming, Climate Change, Ozone Depletion, Acid Rain etc.

Eco-friendly environmental practices-Waste management, Energy practices, Agriculture Practices.

Environmental Disaster- Definition, types and management.

Environment & Health Impact Assessment-Concept, Steps and application

Sustainable Development

Development- Definitions & Concept

Development theories- Modernization, structuralism, dependency, basic needs, neoclassical, sustainable, human development.

Sustainable Development –Introduction, principles, models

Rights Based Approach for development and health

Developmental Planning-Macro & Micro level

Healthy Settings-Cities, Villages, Schools.

Poverty & Its Measurements

Wellbeing and its measurements

Human Development and Its measurements.

Societal Health & Development. Community

Organization and participation

Suggested Text Books/References

1. Environmental and Health Impact Assessment of Development Projects: A edited by Robert G. H. Turnbull, Elsevier Sciences Publication
2. Environmental Chemistry, B.K.Sharma, Krishna Prakashan Media.
3. Environmental Science by S C Santra, Publisher: : New Central Book Agency Calcutta, 2001
4. Perspectives in Environmental Health -Vector and Water Borne Diseases Mukhopadhyay Aniruddha, De A K
5. Sociology Anthropology, and Development, Michael M. Cernea, The World Bank Washington, D.C, 1994
6. Development and the Environment, Lewis T. Preston, The World Bank Washington, D.C, 1992

MPH - 303: Occupational, Industrial and Urban Health

Fundamentals of occupational Health.

Principles and Relevance of Industrial and occupational Health

Occupational Health – Prevention, promotion, access to health services, legal aspects.

Occupational Safety & Health: Chemical and physical exposures, control of occupational exposures, injury control

Occupational health disorders and diseases

Industrial Hygiene

Ergonomics

Industrial Psychology

Occupational Services at workplace

Legislations related to occupational health and safety

Occupational health of working population of organized and unorganized sectors-Farmers, Industrial Workers, health workers, CSW, etc.

Urban population: Definition, demography and trends Determinants of urban health

Consequences of urbanization and Urban health

services Concept of urban health planning and practices. National Urban Health Mission.

Suggested Text Books/References

1. Occupational Health: Management and Practice for Health Practitioners By S. P. Hattingh, 3rd edition.
2. Urban Health: Global Perspectives edited by David Vlahov, Jo Ivey Boufford, Clarence E. Pearson, Laurie Norris, published by Jossey bass
3. Industrial Health Jack E. Peterson American Conference of Governmental Industrial Hygienists, 1991

MPH - 304: Health Care Policy, Planning & Economics

Health Care Policy

Health Policy:-Understanding, need and goals for various policies related to public health - Health policy, population policy, nutritional policy-food security, research policy, women policy, child policy etc.

Health Policy environment

Methods to assess the needs of for the policy development / assessment process.

Frameworks for policy analysis, applying these to the assessment of current policies.

Factors influencing the policy: external factors (interest groups as one example), politics, globalization and the like.

Healthcare Legislation in India: Legal aspects of healthcare, the Medical,

Termination of Pregnancy Act, The maternity benefit act, The immoral traffic,

(prevention) act, The transplantation of human organs act, PNDT Act, The

registration of birth and Death act, The child labour (prohibition and regulation) act,

Biomedical waste Rules, COPRA Act, Indian factories act, ESI act.

Health Planning

Health Planning –History, Concept, models

Strategic planning, implementation and evaluating Health care manpower planning and

development Health Care Utilization Patterns

Management of Primary Health Care

Health Sector Reforms

Organizational behavior and development

Privatization, commercialization & globalization of health care

Public- Private partnership

Health care quality assurance

Health Economics, Budgeting and Financing

Health economics

Investment in Health Care & Public health

Financing of Health Care – Public, Private & Community/Individual

Health Insurance Schemes

Development Partners in Public health

Suggested Books/References:

1. Health Care Financing, Regional Seminar on Health Care Financing, Asian Development Bank, Economic Development Institute and East-West Center, 27- July 3 August 1987
2. Health Care Policy: Issues and Trends, Jennie Jacobs Kronenfeld , Publisher: Praege, 2002
3. Health Care and Public Policy by David A. Reisman, published by Edward Elgar publishing, UK, 2007.
4. Health Planning in India by G. Ramachandrud.
5. Health economics, H P S Rana by Alfa Publications (2009)
6. Health Economics: An International Perspective by Barbara McPake, Charles Normand , Samantha Smith, Publisher: Routledge; 3 edition

MPH 305: Public Health Internship

Four Weeks of Public Health Internship is part of the MPH Program which should be facilitated by the Constituent Unit of PIMS University at any approved regional/national renowned Public/Community Health, Development, Research & Academic/Training Organizations. This course will be scheduled between Semester II & III. Report may be submitted at the end of Semester III.

Purpose of the Public Health Internship

To expose the student to various programmes/activities in Public Health and develop a comprehensive understanding of programme design, strategies and planned intervention, research etc

Objectives of Public Health Internship:

- ☑ To collect the information about organization—Areas of expertise, bonafides, stakeholders, length of the work, type of organization (govt., semi-govt., NGO, voluntary, corporate etc.)
- ☑ To learn about the different projects/programs (institutional/community based) run by the organization.
- ☑ To be familiar with communication procedure between health workers and community.
- ☑ To acquire practical knowledge & practices about project planning and implementation.
- ☑ To discover the problems encountered & solutions arrived while implementing the project.
- ☑ To learn about working of the Management information system (MIS). ☑ To know about method and source of evaluation.

Suggestive Format for Internship Report Writing

1. Title of the project
2. About the organization
3. Introduction and objectives of the project/programme / organization
4. Funding agency— about the agency, how to get funding, Nature of funding agency
5. Staffing pattern of the project with their functions
6. Major activities being undertaken under the project
7. Results achieved so far (target Vs achievement)
8. Role of the candidate in the project/programme / organization
9. Project/Program Evaluation by the candidate.

MPH.306- Project (Vulnerable Population)

1. Visit to Tribal Population of Hilly/mountainous area
2. Visit to Blind, Deaf & Dumb School
3. Visit to Migratory Sugarcane Harvest Workers Families
4. Visit to CSWs, MSM and Migrant population Projects
5. Visit to Old Age Homes, Rehabilitation & Remand Homes

6. Visit to ART Centre for PLW HIV/AIDS & NGOs
7. Visit to sewage/effluent treatment Plant
8. Estimation of available chlorine in bleaching powder and disinfection of open well/ bore well/tank water.
9. Estimation of quality of water through water quality testing (OT, pH, TDS, Hardness, Nitrate, Chloride, Iron, Fluoride, Bacteria etc.)
10. Visit to community water purification/treatment Plant
11. Visit to Biomedical waste treatment Plant

Master of Public Health (MPH) : SEMESTER IV

MPH - 401: Public Health Nutrition

Principles of human nutrition – relationship between nutrition, health & disease

Nutrition and Health: Classification and Nutritional profiles of various foods and

drinks, Balanced diet, Diet survey, consumption unit, nutritional classification,

Nutritional problems e.g. LBW, PEM, Xerophthalmia, IDD, etc. Nutritional factors in selected/ major diseases (Cardiovascular, Diabetes, Obesity, Cancer),

Digestive absorption, metabolism of carbohydrates, proteins and lipids

Energy, water, minerals, vitamins

Applied nutrition

Nutrition assessment

Community nutrition – Recommended dietary allowances, nutrition throughout life

cycle, malnutrition and chronic energy, micronutrient disorders, Food toxicity, socioecology of nutrition

Maternal and child nutrition,

Methods of promoting dietary change

Effect of processing on nutritive values of foods

Habitual diets in India and their adequacy

Nutritional deficiencies-prevention and control

Nutrients and their functions.

Suggested Text Books/References:

1. Advanced textbook on food and Nutrition: Dr. M Swaminathan, The Bangalore Publishing Co. Ltd. Bangalore, 1974
2. Recent Trends in Nutrition: C Gopalan, Oxford University Press, New York 1993.
3. Nutrition for Developing Countries: E. Savage King, Oxford University Press, Oxford, 1992.
4. Nutrition problems and Programmes in South East Asia: Dr. C. Gopalan, World Health Organization, New Delhi, 1987.
5. Perspective in Nutrition: Gordon M. Wardlaw, Paul M. Injel, Time/Mosby College Publishing, St. Louis, 1990.

MPH - 402: Health Systems Development & Management

Health Systems Development

Introduction to various Health System

Models Health services philosophies

Levels of health care-Primary, Secondary & Tertiary

Health care providers (Government, Private, Voluntary/NGO, Indigenous)

Alternative systems of medicine (AYUSH)

Integrated health care delivery-Preventive, promotive, curative & rehabilitative

Inter-sectoral approach for health care delivery

Decentralized health care delivery system

Sustainable, Grassroots & Comprehensive Health
Models Appropriate technology in health
Health Systems research – 10/90 Gap in medical research
Health Management:
Strategic management in Public Health
Organization Behavior and Design
Human Resource Development Quality &
Assurance. Management Information and Evaluation
System. Health resources & Management
Total Quality Management & ISO certification of health systems

Suggested Books/References:

1. Health Care Administration: Planning, Implementing, and Managing Organized Delivery Systems, Third Edition, by Lawrence Wolper, Jones and Bartlett Publishers International, UK.
2. Essentials of Public Health Management by L. Fleming Fallon Jr., Eric Zgodzinski, Jones & Bartlett Publishers, 2011
3. Health Management by Preeti Oberoi, Sarup & Sons publication

MPH - 403: International Health

Introduction to international health, scope & importance.
Socio-cultural perspectives of International health
Health Problems, Issues and concerns that transcend national boundaries
Policy development in international health, health care, educational and economic development.
Globalization-Cultural, Political, Social and economic globalizing processes at work in today's world.
Global burden of Diseases-How disease burden is measured and the causes of morbidity and mortality at global scale.
Global Governance-Neoliberal and neorealist regime theory, critical theory approaches, international law, role of corporations and private authority and the activity of global civil society.
Public Health in developing & developed countries
International Drug Policies & programmes
International health legislations-Recruitment laws, Health Insurance Policies, academic equivalence etc.
International funding for health care & conditions-Structural Adjustment Program (SAP).
International Health Agencies and their role and contribution
International Public Health Programs- Millennium Development Goals (MDG) International Health tourism
Ethical issues in international health research.

Suggested Text Books/Publications:

1. Textbook of International Health: Global Health in a Dynamic World By Yogan Pillay, Timothy H. Holtz, 3rd Edition. Oxford University Press.
2. Textbook of International Health By Paul F. Basch, Oxford University Press
3. Global Health 101, By Richard Skolnik, 2nd Edition,
4. An Introduction to International Health, By Michael Seear, Published by Canadian Scholars Press Inc.
5. Essentials of International Health By Manoj Sharma, Ashutosh Atri,
6. Global Health –Disease, Programmes, Systems and Policies edited by Michael Merson, Robert E, 3rd Edition.

MPH - 404 -Research Project

Based on the actual training imparted in the course, the student shall conduct a research project. The topic for the research project may be related to any current public health

issue.

MPH - 405-Practical's/Field Visits1. Visits to approved public health organization working in the field of international

health either locally or nationally. (The visits should cover study of the theory, the concepts taught in the subject to real life practices)

2. Planning, preparation and nutritional evaluation of diets in relation to activity levels and physiological state.

a. Planning and preparation of a balanced diet for a pregnant woman.

b. Diet during complication of pregnancy.

c. Planning and preparation of a balanced diet for a lactating woman.

d. Preparation of weaning foods.

3. Nutritional value & criteria of food selection in Indian diet according to ICMR Diet and nutrition surveys:

(a) Identification of vulnerable and risk groups.

(b) Diet survey for breast-feeding and weaning practices of specific groups.

(c) Use of anthropometric measurement in children.

4. - Dietary planning for HIV and Aids

5. Problem Based Learning

6. Group Discussion

7. Seminar