

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

**Syllabus for Master of Public Health
(Effective for Academic Session 2019-2020)**

FOURTH SEMESTER

MPH 401: SOCIAL & BEHAVIOURAL PERSPECTIVE OF HEALTH

Unit 1:

- The Ecological Model, Overview of Key Health Behavior Theories.
- Individual Behavior: Personality – Learning – Attitudes – Perception – Motivation – Ability. Individual influences on health, Health Belief Model (HBM), Theory of Reasoned Action/Planned Behaviour
- Individual influences on health: Social Cognitive Theory (SCT) & Transtheoretical Model/Stages of Change (TTM)

Unit 2:

- Organizational influences on Health: Schools, Workplace
- Community influences on health and health behaviour
- Social Determinants: Race, Ethnicity, and Gender, Socioeconomic factors and Health Care Access, Social ecological models of health inequality, Disparities in health care access and treatment

Unit 3:

- Media & Policy influences on Health
- Modelling Social Networks in Public Health

Suggested Books:

1. Baranowski, T. (1997). Families and Health Actions. In D. S. Gochman (Ed.),
2. Handbook of Health Behavior Research I, Personal and Social Determinants. Plenum Press. New York.
3. Organizational Behaviour – Stephen Robbins, – Prentice Hall 5.
4. Glanz, K., Rimer, B.K., & Viswanath, K. Health Behavior and Health Education: Theory, Research and Practice 4th Edition. San Francisco, Jossey Bass.
5. Keane, C. A Network Approach to Public Health Research in Emerging Methods in Community Public Health Research. New York: Springer.

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MPH 402: MANAGING DIVERSE HEALTH SERVICE ORGANIZATIONS

Unit 1

- Organizational Culture: Meaning, significance – Organizational climate – Implications on organization behaviour –
- Organizational change – Need and nature – Causes of change – Resistance to change – Management of change in healthcare organizations, Cultural Diversity in Health Care.

Unit 2

- Organization & Management of Public Health Institutions: District Hospitals, Sub- district Hospitals, CHC's, PHC's, Sub-centers, First Referral Units, SNCU & Urban Health Institutions (UPHC)
- Management of Private-for-profit Hospitals- Concept of Corporate Hospitals- Nursing Homes -Other hospitals.
- Management of Private- not – for –profit sector, NGO'- Voluntary Agencies.
- International Health Organizations: Red Cross, WHO and Other United Nations Agencies

Suggested Books:

1. Organizational Behaviour – Stephen Robbins, – Prentice Hall 5.
2. Organisational Behaviour – Fred Luthans, – Tata Mc Graw hill
3. Managing Health Services Organizations and Systems, Sixth Edition (MHSOS), Beaufort B. Longest; Jr.& Kurt J. Darr, Published by Health Professions Press (2008)
4. Park K: 2005. Text Book of Preventive and Social Medicine. Banarsidas Bhanot Publishers: Jabalpur. 18th Ed.

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MPH 403: HEALTH & ECOLOGY

Unit 1:

- Ecology & Environment: Definition, Concept, Components, Major environmental health problems in Industrialized and Developing countries.
- Environmental Pollution & its Impact on Human Health - Sources, Health Problems and Prevention of Air (Indoor/Outdoor), Water, Noise, Soil, Nuclear, Solid waste, Biomedical waste, e- waste etc. Global Warming, Climate Change, Ozone Depletion, Acid Rain etc.
- Environment & Health Impact Assessment- Concept, Steps and Application

Unit 2:

- Achieving Sustainable Development: Definitions & Concept, Introduction, principles, models, Rights Based Approach for Development and Health
- Brief outline of the Environment (Protection) Act 1986- Importance for Hospitals- Legislation vs. Social obligation of Healthcare Settings. Eco-friendly environmental practices -Waste management
- Developmental Planning for Healthy Settings in Cities- Villages- Towns. Community Organization and Participation

Unit 3:

- Occupational Health: Ergonomics, Control of Physical, Chemical, Mechanical, Psychosocial and Biological Environment at Workplace, Occupational Diseases.
- Occupational Safety in Healthcare Organizations: Occupational Hazards in a Healthcare Setting, HAI & Role of Hospital Infection Control Committee

Suggested Books

1. Environmental and Health Impact Assessment of Development Projects: edited by Robert G. H. Turnbull, Elsevier Sciences Publication
2. Environmental Science, S C Santra, Publisher: New Central Book Agency, Calcutta 2001
3. Perspectives in Environmental Health -Vector and Water Borne Diseases, Mukhopadhyay Aniruddha, De A K

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4. Occupational Health: Management and Practice for Health Practitioners, S. P. Hattingh, 3rd edition.

Specialization Paper (any one)

MPH 404A: Public Health Nutrition

Unit 1:

- Meaning, nature and importance of nutrition education to the community
- Assessment of Nutritional status.

Unit 2:

- Nutrition Intervention programmes in India, National organization concerned with food and nutrition.
- Relation of nutrition to development in terms of socio economic, industrial and agricultural development and consequences of malnutrition

Unit 3:

- Concept of different food groups, Recommended Dietary Allowances & Nutrition in pregnancy, Nutrition in Lactation and Infants
- Nutrition in preschool children, Nutrition in school age and Nutrition during adolescence,
- Energy content of foods, Nutrition during adulthood & Nutrition during old age, macro and micronutrient metabolism and uses.

MPH 404B: Advanced Epidemiology & Bio-statistics in Public Health

Unit 1:

- Revision of Basic Epidemiology – Run down of Semester 1.

Unit 2:

- Infectious disease epidemiology, Basic Reproductive Number, Prediction of an epidemic and epidemic threshold curve, role of genetic and environmental factors in disease causation, epidemiological approach to screening program, Anti /microbial Resistance (AMR), Theories of Causation & Association, Bias, Confounding & Interaction.

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- Burden of infectious, chronic and nutritional diseases in India, Preventing and Managing Chronic Illness (CVD's, Stroke, Diabetes, Cancer)

Unit 3:

- Essentials of Biostatistics: Data & its Presentation, Different Scales of measurements, Selecting Sample size and sampling technique in Health Research, Designing a valid, reliable and responsive questionnaire, Art & Science of Research
- Critical Appraisal of Published articles in Epidemiology, Epidemiology and Public Policy including Ethical and Professional Issues.

Suggested Books:

1. Introduction To Epidemiologic Research Methods In Public Health Practice by Susan Bailey, Deepa Handu, Published by Jones and Bartlett Publishers, 1st edition, 2012
2. Preventive And Social Medicine - Dr. K. Park
3. Text Book Of Community Medicine - V K Mahajan
4. Epidemiology by P.V. Sathe, Popular Prakashan
5. Essentials of Bio-statistics- Indranil Saha & Bobby Paul

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GUIDELINES FOR PREPARATION OF PROJECT WORK

M. Sc of Public Health Program requires mandatory fulfillment of a project work at the end of each Semester of the coursework. The Project should have a direct or indirect relevance to areas of Public Health. Each student has to individually conduct this project work. Students can choose a project on any of the categories:

- Any research project following the research methods studied in that particular semester.
- A review of a health policy or an issue of public health importance.
- An exploratory study in the area of public health.
- A health management issue.
- A systematic review in health studies area.

Project Process

- a. Allocation of a project supervisor. A minimum of 1 and maximum of 2 co-supervisors are allowed.
- b. In consultation with the main project supervisor and co-supervisor, the student should select any topic that falls into the category of the project described above to work on.
- c. A brief synopsis of the project, consisting of the title, background, objectives and proposed methods (data collection tools) of the study, with outline analysis plan should be submitted to the guide.
- d. For survey of human participants, consent and information sheets for participants needs to be submitted for clearance from ethics committee.
- e. On approval of the ethics committee, and concerned authorities the data collection can be undertaken in the time period allocated for the same.
- f. A project report described as under has to be presented and defended as part of the assessment and examination for the project work in the time period specified.

Project Report

The project report shall follow the guidelines as specified as under.

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- 1 hard and 1 soft copy of the project report has to be submitted to the supervisor within the time specified.
- The report shall not exceed 50 pages and maintain standard format. It should have 1.5 lines spacing with 12 point Times New Roman font.
- The report should include the title page, certificate of fulfillment (duly signed by supervisor and co-supervisors) content page, introduction, review of literature, objectives, methods, results, discussions, recommendations, conclusions, any limitations, references and annexures.
- The hard copy of the Project report should be spiral bound while the Final MPH Dissertation should be hard bound.