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GUIDELINE FOR STANDARIZATION OF CURRICULUM AND SYLLABUS IN PUBLIC HEALTH

- GL1. Appreciating the massively expanded knowledge and technology in public health fields the curricula and syllabi of postgraduate (MPH) Programs should be designed keeping in view of the general as well as specialized and even subspecialized disciplines in the area.
- GL2. In line with GL1 the MPH Degrees in this field can be offered as only MPH (which will signify 'General' Public Health Degrees equivalent to General/Internal Medicine or General Surgery Degrees in clinical disciplines) or those can be offered in specific disciplines (eg in Epidemiology, Health Promotion & Health Education, Reproductive & Child Health, Occupational Health, Environmental Health, Community Nutrition) which will signify specialized degrees.
- GL3. In reference to GL2 the admission criteria for a particular MPH Program should be clearly defined in the Curricula of a University.
- GL4. In reference to GL3 the Certificates and other related documents from a University should reflect the nature and scope of the Degree 'appropriately'. For example, no University will be entitled to write MPH (Epidemiology) just because a student has taken Epidemiology as a 'Major' area in her/his General MPH Program.
- GL5. General public health programs, ie the Bachelor of Public Health (BPH) and Master of Public Health (MPH) programs will be conducted by the Dept of Public Health; however, each of the specialized MPH Programs have to be conducted through a separate relevant Department established with appropriate infrastructure and human resources.
- GL6. The semester for all academic programs in Public Health will be on 6-months (ie twice annually) basis.
- GL7. The duration of MPH Programs will not be less than 18 months.
- GL8. An MPH Program will have 70-80 Credits.
- GL9. Bachelor in Public Health (BPH) Programs can also be offered in this field and the duration of these Programs will be 4 (four) years.

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- GL10. A BPH Program will have 160-180 Credits.
- GL11. The Credits should be divided into Theory and Practical sessions (in 50:50 proportions) with 15 credit hours for 1 Theory based credits and 30 Credit hours for 1 Practical based Credits.
- GL12. There will be appropriate laboratory/field based facilities for the practical sessions and for thesis works, as applicable.
- GL13. Theoretical sessions should not include only didactic lectures, rather it should emphasize more on interactive sessions. A proportion of 1:2 for Lecture: Tutorial/Interactive Sessions is suggested during designing of class routines.
- GL14. 'Practical' in Public health does not mean only laboratory based practical in a traditional sense. Human Laboratory is the most important laboratory for public health students and thus structured activities like field visits and assignments will also be considered as practical.
- GL15. A research based Thesis (at least of 10 Credits calculated as practical based credits) should be included in the 18 months MPH Programs. The planning and protocol writing of the Thesis should start (in parallel to the course works) at appropriate time in the Program so that the students get one year for research training. In applicable cases an innovative 'Tool/Instrument/Product' development through a 'Project' may also be considered as an alternate to a typical 'Thesis'
- GL16. In the Examinations where the performance grades will be accounted in the final results, there should be an Internal and one External 'Examiner (preferably from other Universities) for both Theory (Written, Viva) and Practical examinations. For Thesis the number of Examiners may be more and a Board may be formed.
- GL17. Grading of BPH or MPH Programs will be based on relevant and updated UGC Guidelines.
- GL18. The suggested core contents of the BPH Program and those of the general as well as some sample MPH Programs are enclosed.

SUGGESTED CORE COURSE CONTENT FOR BACHELOR OF PUBLIC HEALTH (BPH) PROGRAM

Introduction to Public Health; Basic Biochemistry; Human Biology; Basic Statistics; Computer Fundamentals; Functional English; Medical Anthropology; Demography and Population Dynamics; Assessment of Health Status; Epidemiology; Microbiology; Health Economics and Financing; Health Informatics; Medical Sociology; Reproductive and Child Health; Medical Entomology; Public Health Nutrition; Community Health; Environmental and Occupational Health; Biostatistics; Basic Pharmacology; Health Education; Communication and Behavioral Change; Programming and Software Development Fundamentals; Research Methodology; Immunology; Public Health Administration and Management; Health Policy and Planning; Health Programs for Special Groups; Global Health and Disaster Management; Hospital Management; Biosafety; Bioethics; Health Rights and Welfare; Health Informatics; Public Health Toxicology; Dissertation/Project.

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SUGGESTED CORE COURSE CONTENT FOR MASTERS IN PUBLIC HEALTH (MPH) PROGRAMS

A. GENERAL MPH PROGRAM

• *Masters in Public Health/MPH (General)*

Introduction to Public Health; Epidemiology; Biostatistics; Environmental Health; Health Services Administration; Health System Management and Policies; Social & Behavioral Sciences; Bioethics; Global/International Health; Occupational Health; Introduction to Demography and Population Dynamics; Basic of Health Education & Health Promotion; Occupational Health; Health Economics; Public Health Nutrition; Health Informatics; Public Health aspects of Major NCDs; Maternal Health; Child Health; Research Methodology; Thesis.

B. DISCIPLINE-SPECIFIC MPH PROGRAMS (ONLY EXAMPLES)

1. *MPH in Community Medicine*

Introduction to Public Health; Public Health Microbiology & Immunology; Parasitology and Entomology for Public Health; Health Services for Special Groups; Basics of Health Promotion and Health Education; Basics of Biostatistics; Introduction to Demography and Population Dynamics; Health Economics; Introduction to Community Medicine; Primary Health Care; Bioethics; Epidemiology; Research Methodology; Data Analysis Using Relevant Softwares; National and International Health Issues and Organizations; Health System Management and Policy; Communicable Diseases and Noncommunicable Diseases; Disaster Management and Response; Project Administration; Management and Evaluation; Thesis.

2. *MPH in Noncommunicable Disease*

Essentials of Public Health; NCD General; Basics of Health Promotion and Health Education; Biostatistics; Introduction to Demography and Population Dynamics; Health Economics; Nutrition in life Cycle; Globalization and Noncommunicable Diseases; NCD Applied; Risk Assessment; Prevention and Management of NCDs; Contemporary Health Care System in LMICs; Bioethics; Epidemiology; Research Methodology; Data Analysis Using Relevant Softwares; Health System Management and Policy; Screening and Surveillance of NCDs; Trends in NCDs; Advanced Research Method in NCDs; Project Administration; Management and Evaluation; Bioethics; Thesis.

3. *MPH in Community Nutrition*

Introduction to Public Health; Concept of Community Nutrition and Fundamentals of Nutrition; Basics of Health Promotion and Health Education; Macro-and Micronutrients; Biostatistics; Nutrition in Life Cycle; Food Security; Safety and Food Quality; Epidemiology; Research Methodology; Data Analysis Using Relevant Softwares; Applied Nutrition & Nutrition related Indicators; Advanced Nutrition; Principle of Dietetics; Economic Growth; Poverty and Nutrition; Food Based Dietary Guidelines for Bangladesh: challenges and opportunities; Improving Nutrition

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through Multi-sectoral Approach; Evidence based Intervention and Essential Nutrition Action (ENA); Body Composition and Nutrient-Drug Interaction; Management of Community Nutrition Services and Programs; Nutrition Related Policies and Programs; Bioethics; Thesis.

4. MPH in Epidemiology

Introduction to Public Health; Basic of Epidemiology; Biostatistics; Introduction to Demography & Population Dynamics; Basics of Health Promotion and Health Education; Advanced Epidemiology; Epidemiology and control of Communicable Diseases; Epidemiology of NCDs; Applied Epidemiology; Field Epidemiology; Research Methodology; Data Analysis Using Relevant Softwares; Advanced Epidemiology; Multivariate Data Analysis and Statistical Modeling; Bioethics; Spatial Statistics and Disease Mapping ; Epidemiology in Different Contexts; Health Policy and Planning; Thesis.

5. MPH in Health Promotion & Health Education

Introduction to Public Health; Introduction to Health Promotion; Introduction to Health Education; Theories of Motivation; Behavioral Science; Sociology & Anthropology; Communication; Methods and Media; Basics of Biostatistics; Planning; Implementation and Evaluation of Health Promotion and Health Education; School Health; Basics of Research Methodology; Bioethics; Data Analysis Using Relevant Softwares; Basics of Epidemiology; Applied Behavioral Sciences; Community Organization and Development; Training Technology; Group Dynamics; Communication in Special Areas/Health Communication; Thesis.

6. MPH in Environmental Health & Safety

Introduction to Public Health; Biostatistics; Fundamentals of Environmental Health; Fundamentals of Occupational Health; Environmental Pollution; Arsenic Contamination & Other Contamination Problem; Climate Change; Epidemiology; Research Methodology; Data Analysis Using Relevant Softwares; Environmental Hazards and Risk Assessment; Environmental Impact Assessment; Environmental Health Effects and Illnesses; Environmental Statistics and Environmental Indicators; Environmental Epidemiology; Applied Research Methodology on OEH; Environmental Health Impact and Health Impact Assessment; Environmental Health Surveillance; Bioethics; Thesis.

7. MPH in Occupational Health & Safety

Introduction to Public Health; Biostatistics; Fundamentals of Environmental Health; Fundamentals of Occupational Health; Fundamentals of Occupational Health & Safety; Ergonomics at work; Hazard; Exposure and Risk at Workplace; Epidemiology; Research Methodology; Data Analysis Using Relevant Softwares; Occupational Accident; Workplace Compliances; Occupational and Work related Illnesses; Job Safety and Job Hazard Analysis; Occupational Epidemiology and Indicators; Healthy Workplace Initiative; Applied Research Methodology on OEH; Risk Management at Workplace; Bioethics; Thesis.

8. MPH in Reproductive & Child Health

Introduction to Public Health; Biostatistics; Introduction to Reproductive Health; Sexual Health ; Maternal Health; Epidemiology; Research Methodology; Data Analysis Using Relevant Softwares; Bioethics; Adolescent Health; Maternal; Newborn and Child Health in Emergencies; Protocol Development & Presentation; Child Health; Biochemistry for Reproductive Health; Gender in Reproductive Health; Reproductive Health and Population Control; Sexual and Reproductive Health of Persons with Physically and Mentally Challenged; Reproductive Health Policy and Programs: Global and National; Thesis.

9. MPH in Community Dentistry

Introduction to Public Health; Introduction to Community Dentistry; Preventive Dentistry; Oral Health Education; Pediatric Dentistry and Child Psychology; Biostatistics; Epidemiology; Dental Jurisprudence and Forensic Odontology; Research Methodology ; Occupational Hazards and Infection Control; Geriatric Dentistry; Sociology and Oral Health; Data Analysis Using Relevant Softwares; Protocol Development & Presentation; Oral Epidemiology; Dental Research Methodology; Evidence Based Dental Research; Nutrition and Oral Health; Dental Anthropology and Behavioral Science; Bioethics; Thesis.

10. MPH in Global Health

Introduction to Public Health; Introduction to Demography & Population Dynamics; Biostatistics; Epidemiology; Environmental Health Sciences; Social & Behavioral Sciences; Ethics of Public Health Practice; Fundamentals of Global Health; Introduction to QM for Monitoring & Evaluation; Data Analysis; Introduction to Economics; Health Sector Reform; Program Monitoring & Evaluation Methods; Financial Management & Control; Bioethics; National & International Health Issues and Organizations; Health Service for Special Groups; Thesis.

11. MPH in Health Management

Introduction to Public Health; Biostatistics; Epidemiology; Environmental Health Sciences; Social & Behavioral Sciences; Ethics of Public Health; Society and Health; Financial Analysis/Management Control; Data Analysis; Organizational Behavior; Operation/Process Improvement Course; Marketing; Strategy; Innovation; Basics of Health Economics; Health Policy Analysis; Project Administration; Health Service Administration; Thesis.

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