

## COURSE CONTENT

### **COMMUNITY MEDICINE**

#### **Theory**

- Natural History of disease and levels of prevention.
- Basic concept and definition of Social Medicine, Community Medicine etc
- Determinants of health and diseases including Social determinants.
- Alternate approaches of health care.
- Urban health and slum.
- Disaster management, Community involvement and preparedness.
- Medical Ethics, Ethical considerations in delivery of Health care.
- Research Methodology.

#### **Group and Individual Exercise:**

- Planning process for health programmes
- Management Exercise for Health Service Organization
- Disaster Management

### **BIOCHEMISTRY AND NUTRITION**

#### **Theory**

- Importance of Biochemistry and Nutrition in the field of Public Health.
- Overview of Macro and Micronutrients.
- Balanced diet.
- Energy metabolism.
- Nutritional problems in India –  
Macro and Micronutrient deficiencies of Public Health significance – PEM, Vit – A deficiency, IDD, Iron deficiency anaemia. Dental caries, Fluorosis etc.
- Natural Toxicants in food –  
Lathyrism / Epidemic dropsy etc.
- National Nutrition Policy and ongoing National Nutritional Programmes.
- Food safety
- Food adulteration & Prevention of Food Adulteration Act.
- Food additives/food fortification & enrichment.
- Cultural and social factors influencing nutrition.
- Nutrition in Pregnancy, Lactation, Childhood, Adolescence.

#### **Practicals (Laboratory based)/Demonstration:**

- Spot tests for common adulterants in food.
- Demonstration

Syllabus approved -  
Haurin Nandy  
04/03/2020

Syllabus approved

A.K. Malik  
04/03/2020

- a) Balanced diets preparation.
- b) Complementary feeding.
- c) IEC materials on Nutrition.

#### **Field Based Training:**

- Assessment of Nutritional Status of a Community (Rural & Urban).
  - Diet survey
  - Anthropometry
  - Clinical assessment of deficiency diseases
  - Laboratory assessment of Haemoglobin status
  - Data collection and analysis
  - Report preparation and presentation
- Assignments on nutritional interventions and impact evaluation including presentation of reports.

### **ENVIRONMENTAL HEALTH**

#### **Theory**

- Relationship between Environment and Health.
  - Environmental sanitation and health
  - Water, sanitation and health linkages-the need for an integrated approach
  - Ecology and environment
- Environmental health problems in India
- Safe and wholesome water - definition, concept, water quality standards.
  - Water quality – physical, chemical, bacteriological standards
- Source of Potable water and conservation.
  - Ground water / surface water
  - Rain water harvesting, water conservation
  - Awareness for source protection and conservation
- Water purification and concept of water supply.
  - Water purification-domestic/community
  - Disinfection, Chlorination
- Safe disposal of human excreta.
- Solid waste management.
  - Collection, transportation and disposal of municipal solid wastes
  - Collection, transportation and disposal of biomedical wastes
  - Legislative framework
- Liquid waste management.
  - Concept of sewage & sullage, sewerage & drainage
  - Low cost sewage treatment
  - Safe disposal of liquid waste
  - Waste water reuse

#### **Bio- Medical waste management**

- General Sanitation
  - Food sanitation
  - School & Hospital sanitation

- Sanitation of fairs and festivals
- Rat and fly control
- Environmental management of Vector control
- Environmental intervention during epidemics
- Healthful Housing – Requirement, Effect of domestic environment on health.
- Air Pollution – Outdoor & Indoor, Effects on Women & Children, prevention & control.
- Healthy environment for Children – At Home, At School.

#### **Practicals/Demonstration/Field visits:**

- House survey on Environmental Sanitation – Urban and Rural Practice Fields.
- Village survey for general sanitation.
- Chlorination /assessment of chlorine demand/practice of chlorination of well and tube wells
- Environmental sanitation – demonstration at Singur
- Visit to water treatment plant
- Visit to sewage treatment plant
- Water testing with field kit
- Field visit to arsenic problem mitigation programme
- Visit to industrial waste water treatment system
- Air quality monitoring – operation of high volume sampler
- Environmental management of vector control – field visit

### **MICROBIOLOGY**

#### **Theory**

- General Microbiology – Bacterial Morphology and Physiology Sterilization and disinfection.
- Immunology
  - Structure and function of immune system
  - Antigen /antibody and cell mediated immunity
  - Primary, secondary responses; vaccines, hypersensitivity
- Systematic Bacteriology
  - Gram positive cocci
  - Gram negative cocci
  - Gram positive spore formers (Bacilli clostridia)
  - Gram positive non spore formers (Mycobacteria, Corynebacteria)
  - Gram positive bacilli (Vibrio, parvobacterium)
  - Gram negative bacilli (Enterobacteriaceae)
  - Spirial bacteria (Spirochaetes Borellai, Leptospira)
- Parasitology.
  - Introduction, classification of intestinal protozoa
  - Blood protozoa (Malaria, Kalazar)
  - Cestodes, trematodes
  - Intestinal and tissue nematodes
- Virology.
  - Introduction, classification, cultivation, DNA viruses
  - Polio and Influenza viruses
  - Hepatitis and HIV
  - Rabies and Arbo viruses
- Mycology.



- Superficial and subcutaneous mycoses
- Systemic and opportunistic mycoses
- Entomology – Vectors of Medical importance.
- Recent advances – New molecular methods in diagnosis and its application.

**Practicals on relevant topics:**

- Collection, transport and storage of samples for bacteriological, parasitological and virological investigations
- Microscopy and laboratory safety
- Gram's stain and motility testing
- AFB staining and demonstration
- Albert's staining.
- Leishman's staining, examination of MP and Mf.
- Demonstration of adult parasites and other specimen.
- Stool for OPC.
- Demonstration and mounting of different vectors.
- Interpretation of WIDAL, ELISA and other serological tests.

**EPIDEMIOLOGY**

**Theory**

- Introduction, Aims, Approaches, Role in study of health and disease, Uses of Epidemiology.
- Natural history of disease and its application in planning, intervention.
- Modes of transmission and measures for prevention and control of communicable & non-communicable diseases.
- Types and sources of epidemiological data.
- Need, uses and concept of validity of screening tests
- Various types of epidemiological study designs.
- Sampling methods & Techniques,
- Data analysis, interpretation and presentation & uses of data.
- Investigation of an epidemic.
- Surveillance and monitoring.
- Disease specific epidemiology.
- MCH / RCH related epidemiology – Application of epidemiology in MCH care.
- Epidemiology related to vaccine Preventable diseases.
- Use of epidemiology in preparation of Action plan at Community level.

**Practicals / Exercise:**

- Measures of morbidity & mortality
- Calculation, interpretation of measures of frequency and presentation of different rates/ratios/proportions
- Estimation of sample size, sampling techniques
- Epidemic curve
- Designing of different epidemiological studies
- Computer application in epidemiological studies

## **STATISTICS**

### **Theory**

- Introduction, definitions, concepts.
- Central tendency.
- Dispersion.
- Probability.
- Binomial distribution, normal distribution.
- Co-relation.
- Tests of significance.
- Sample survey and sampling methods.
- Definition and sources of vital statistics.
- Census, Registration of vital events.
- Life table.

### **Practicals:**

- Frequency distribution.
- Tabular presentation.
- Charts and diagrams.
- Calculation of averages and dispersion.
- Chi-square test, t-tests.
- Estimation of population.
- Uses of computer in data analysis- SPSS, EpiInfo packages etc

## **PUBLIC HEALTH ADMINISTRATION**

### **Theory**

- Definition, concepts of Public health
- Principles of Public Health and essential public health competencies.
- National Health Policy of India
- Planning, implementation, management & evaluation of Public Health programs.
- Team building and Public Health Team.
- Public Health. Legislation
- Pattern of Health Care – provision, organization, financing, evaluation in India.
  - Health Care organization at the centre, State, District, block etc
- Primary health care – Principles, components and patterns.
- Planning for rural and urban health services.
- Community development programmes.
- Voluntary and international health agencies.
- Health aspects of five (5) year plans in India – targets and achievements.
- National health programmes in relation to –
  - Malaria control
  - AIDS Control
  - RCH components
  - Polio eradication
  - Tuberculosis control

- Leprosy elimination
- NCD control programs
- NHM- NRHM & NUHM

#### **Field Visits**

- Primary health centre /Block primary health centre
- Kolkata Municipal Corporation activities of malaria and other disease control programme, MCH clinics.
- West Bengal AIDS Control Society
- Office of the District Tuberculosis Officer
- Involvement in on going public health programmes

### **HEALTH EDUCATION**

#### **Theory**

- Health promotion -- concept, principles & strategies.
- Approaches to Health promotion – programme communication, advocacy, empowerment.
- Health education – concept and principles.
- IEC – concept and principles & strategies, Planning IEC activities for health programmes with special reference to Reproductive & Child Health.
- Communication – principles, process and approaches.
- Communication skills – counseling.
- Selection and use of appropriate methods and media for IEC interventions.
- Evaluation of IEC components of National Health Programmes.
- Medical sociology – Patients education, Sick role – illness behaviour, compliance with treatment regimens, improving utilization of health care services.
- Principles of Adult learning.
- Behavioural science.
  - Behaviour – definition, relevance to health
  - Attitude – concepts and role in health and behaviour
  - Factors influencing health behaviour
  - Change process – motivation, adoption of planned change
  - Measuring change in behaviour

#### **Group Exercises**

- Simulation exercises
- Modular training

### **OCCUPATIONAL HEALTH**

#### **Theory**

- Introduction to Occupational Health.
- Occupational health hazards.
- Occupational diseases – prevention and control.
- Brief review of Industrial safety and health legislations.
- Occupational health considerations of Women at work.
- Industrial legislations related to MCH.
- Child labour.



### **Practicals/Field Visits**

- Demonstration on personal protective devices
- Visit to occupational health clinic at UHC, Chetla

### **MATERNAL AND CHILD HEALTH**

#### **Theory**

- Introduction and development of MCH Care in India.
- Safe motherhood – antenatal, natal and post natal care, essential obstetric care, emergency obstetric care.
- Child survival – essential new born care, low birth weight, breast feeding, feeding of infant and children -IYCF.
- growth and development of children & adolescents
- Common childhood health problems.
  - ✓ Vaccine Preventable diseases.
  - ✓ Diarrhoeal disease in children.
  - ✓ Acute respiratory infections.
  - ✓ Common Helminthic and skin infestations.
  - ✓ Seizures in children.
- Overview on common Paediatric disorders of different Systems –
  - ✓ Cardiac problems.
  - ✓ Haematological disorders.
  - ✓ Hepatic and renal problems.
  - ✓ Infections, developmental anomalies and malformations of central nervous system.
  - ✓ Congenital anomalies.
  - ✓ Chromosomal anomalies.
  - ✓ Common malignancies.
- Handicapped children – Aetiology, Services, Rehabilitation.
- Child psychology – juvenile delinquency, child guidance clinics.
- Integrated Management of Childhood Illness (IMCI).
- Immunization and cold, chain, coverage evaluation of immunization.
- MCH problems – morbidity, mortality, indicators of MCH care.
- Antenatal, Intranatal & Post Natal care, New born care.
- Normal labour, Obstructed labour.
- Puerperal care.
- Antepartum and Postpartum Haemorrhage.
- Hypertensive disorders in pregnancy.
- Malpresentations, IUGR.
- Common gynaecological problems – Vaginal discharge, Dysmenorrhoea, abnormal bleeding, Reproductive tract infections, Sexually Transmitted Infections, HIV AIDS.
- Cervical Cancer, Breast Cancer.
- Reproductive and Child Health – Objectives, approaches, strategies, services, management issues etc.
- School health services.
- Adolescent health.
- Family welfare – concepts, Family Planning, counseling, organization, services, achievements etc.

- Infertility – causes, management, assisted reproduction – social and ethical issues.
- Genetic counseling, prenatal diagnosis of congenital abnormalities.
- Organization of MCH services – planning, management and evaluation.
- Demography and population dynamics, fertility indicators.
- National population policy.
- MTP & safe abortion services.
- RMNCH+A, INAP, RKSK programs

Syllabus approved  
 Kausuri Wadga  
 04/03/2020

Syllabus approved,

A.K. Mallik  
 04/03/2020



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- Demonstration

Approved  
A. Dasgupta  
4/3/20

Syllabus approved

Ar. Malik  
04/03/2020

5. Regarding evaluation, it was suggested that a minimum 50 % should be obtained in aggregate in three theoretical papers and not less than 40 % marks in each individual paper.

Similarly, a minimum of 50 % marks should be obtained in each of the Practical as well as viva- voce examinations.

It was also suggested to take an internal assessment for 20 marks.

The following marks distribution was suggested for terminal evaluation:

### Marks distribution

Written examination		Practical examination		Viva -voce		Internal assessment	Grand total	
Max. marks	Pass marks	Max. marks	Pass marks	Max. marks	Pass marks	Max. marks	Max. marks	Pass marks
300	150	300	150	80	40	20	700	350

Finally, the meeting ended with thanks to the Chair.

*A. Dasgupta*  
4.3.20.

*A.K. Mathur*  
04/03/2020

- Infertility – causes, management, assisted reproduction – social and ethical issues.
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Syllabus approved.

A. Dargath  
4.3.20.

A.K. Mallik,  
04/03/2020



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*Prof. M. K. M. M. K.*

*04/03/2020*

*Sybil K.*

*4/3/2020*

*Prof (Dr) Subramaniam Suttu.*

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- Spot tests for common adulterants in food
- Demonstration

Syllabus approved

Atk Malik  
04/03/2020

Sybil  
4.3.2020

Prof. (Dr.) Seformation Sella

- Infertility - causes, management, assisted reproduction - social and ethical issues
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- RMNCH-A, INAP, RKSK programs

Syllabus approved,

A. K. Mallik,

04/03/2020

Sgt. San

4.3.2020

Prof (Sr.) Supratim Dutta.



**Minutes of the BOS meeting for M.Sc. in Public Health (MCH) held on  
04/03/2020 at 1.00 PM in the chamber of the Dean, WBUHS**

The meeting was attended by the following members:

1. Dr.Mausumin Nandi – Prof., Dept. of Paediatrics, Medical College, Kolkata
2. Dr.AparajitaDasgupta, Director Professor, AIH & PH, Kolkata
3. Dr.NabanitaBhattacharyaya, HOD, Dept. of Community Medicine, CNMC, Kolkata
4. Prof.Subhas Chandra Biswas, Dept. of G & O, IPGME & R, Kolkata
5. Dr.Chandana Das, Dept. of G & O, N.R.S. Medical College, Kolkata
6. Dr.R.N.Sinha, Director Professor, AIH & PH, Kolkata
7. Dr.SupratimDatta, Dept. of Paediatrics, IPGME & R, Kolkata
8. Dr.DebashisDatta, Director Professor & Dean, AIH & PH, Kolkata
9. Dr.A.K.Mallick, Director Professor, AIH & PH, Kolkata

The meeting started with formal introduction of all the member who attended the meeting. Dr.A.K.Mallick, Director- Professor & Head, Dept. of MCH, AIH & PH, briefly described the name, intake capacity, objectives and outline of the course which has already been submitted to the University.

Thereafter each areas of the proposal like the name of the course, duration, eligibility criteria, syllabus etc. were reviewed in the meeting and the following decisions were made.

1. Regarding the admission procedure, it was decided that the entrance examination for admission to the course will be done by standard MCQ type of questions and considering the diversities of the eligible qualifications, the questions should be primarily from Basic Community Medicine as this is common for MBBS, AYUSH and B.Sc. Nursing courses.
2. The proposed syllabus of the course was also reviewed and found to be appropriate for the proposed course. However particular emphasis should be given to focus on the development of appropriate competencies and skills in the related areas.
3. The issue of placement of the students in the Calcutta Medical College and Hospital was elaborately discussed. It was felt that the matter should be taken up by the Director, AIH & PH, Kolkata with the Principal, Calcutta Medical College to get an updated MOU for placement of the students in the Department of G & O and Department of Paediatrics for the specified period. It was also felt that the students should be placed in these two departments in two batches by rotation.
4. The Honorarium for the Faculty will be borne by AIH & PH as per the prevailing Govt. rules followed in AIH & PH and GOI.

*Chandana Das*

- Infertility – causes, management, assisted reproduction – social and ethical issues.
- Genetic counseling, prenatal diagnosis of congenital abnormalities.
- Organization of MCH services – planning, management and evaluation.
- Demography and population dynamics, fertility indicators.
- National population policy.
- MTP & safe abortion services.
- RMNCH+A, INAP, RKSK programs

Syllabus approved,

A.K. Mallik,

04/03/2020

Charudana Das

Syllabus for M.Sc. in Public Health (Community Medicine)

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- Demonstration

Nabavita Bhattacharya  
04.3.2020

Syllabus approved

Aty K. K. K.  
01/03/2020



- Infertility: causes, management, assisted reproductive techniques, surrogacy, legal and ethical issues
- Genetic counseling, prenatal diagnosis, challenges and ethical issues
- Organization of MCH services: planning, management and evaluation
- Demography and population dynamics: fertility and ratios
- National population policy
- MTP & safe abortion services
- RMNCH+A, INAP, RKSK programs

Syllabus approved

Nabanita Bhattacharya  
04.03.2020

K. K. Mukherjee

01/03/2020

Regarding evaluation, it was suggested that a pass mark of 50% should be for aggregate in three theoretical paper, and not less than 40% marks in each individual paper.

Similarly, a minimum of 50% marks should be obtained in each of the Practical as well as viva-voce examinations.

It was also suggested to take an internal assessment for 20 marks.

The following marks distribution was suggested for terminal evaluation.

### Marks distribution

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Finally, the meeting ended with thanks to the Chair.

Nabavik Bhattacharya  
04.3.2020

H. K. H. D. S.  
04/03/2020

A meeting was held at the chamber Controller of Examinations, WBUHS, on 23.09.2021 at 11-00 a.m. regarding finalization of the curriculum of M Sc in Public Health (MCH) and M Sc in Public Health (Health {Promotion}) to be initiated from the academic year, 2021 – 2022 at AIH&PH.

The meeting was attended by:

1. Prof Debasis Dutt, Dean of student affairs, AIH&PH
2. Prof Ashok Mallik, HOD, Dept. of MCH, AIH&PH
3. Dr. Chandrashekhar Taklikar, HOD, Dept. of Health Education, AIH&PH
4. Prof. Sujishnu Mukhopadhyay, OSD, PDEA, WBUHS
5. Ms. Sarmistha Sarkar, ACOE, WBUHS

After deliberations among all the following changes / modifications were suggested for both the courses in question:

1. Eligibility to appear at the University Examination:
  - 1.1. Attendance: 75% separately in Theory and Practical classes (to be uploaded in the portal)
  - 1.2. Internal Assessment: At least 40% marks on the aggregate separately in the two IA Examinations conducted as concurrent evaluations at the institute itself. Institutes will conduct one IA examination preferably at the end of one year and one immediately before completion of the training period. These IA marks would not be reflected in the marksheet.

2. Structure of Marksheet:

- 2.1. There will be one Terminal examination at the end of two years of the course.
- 2.2. The distribution of the papers with their passing criteria will be as follows:

2.2.1. MSc PH (Health Promotion)

Paper	Subject	F.M.	Passing
I (Theory)	Health Promotion and Health Education	100	50
II (Theory)	Health Communication, IEC and BCC	100	50
III (Theory)	Behavioural Science, Social Research, Group Dynamics and Leadership	100	50
IV (Theory)	Elective I	100	50
V (Theory)	Elective II	100	50
VI (Practical)	Dissertation and Viva	100	50
VII (Practical)	Practicals	100	50
	TOTAL	700	

2.2.2. M Sc in Public Health (MCH)

Paper	Subject	F.M.	Passing
I (Theory)	Applied Basic Sciences related to Public Health	100	50
II (Theory)	Preventive and Social MCH	100	50
III (Theory)	MCH Service, Demography, Family Welfare	100	50
IV (Practical)	Practicals	300	150
V (Practical)	Dissertation and Viva	100	50
	TOTAL	700	



3. Subsequent examination:

3.1. There will be two examinations for the course in an academic year; the second one to be commenced within 6 months of publication of the review results of the regular examination. So the candidates will have a maximum of two attempts in an academic year.

3.2. The candidate will appear in the subsequent examination(s) only in the compartment (either Theory or Practical or both) not passed in the previous examination(s).

4. Completion of course: The candidates will be allowed to have a maximum of four attempts within a tenure of maximum of four years from the date of admission to complete the course.

5. Examiners for evaluation: One internal examiner from within the teaching institute and one External Examiner from outside the institute will conduct the practical examinations. Theory papers will be checked by External or Internal Examiners as decided by the Convenor of the examination.

*Shubh*  
29.9.28

*[Signature]*  
29.9.28