# DEPARTMENT OF COMMUNITY MEDICINE

## CURRICULUM OF STUDY IN COMMUNITY MEDICINE

### TEACHING IN COMMUNITY MEDICINE

1. **1st MBBS** = 60 Hours
2. **2nd MBBS** = 204 Hours
3. **3rd MBBS** = 148 Hours
   
   **Total** = 412 Hours

### TEACHING IN 1ST MBBS

1. Lectures = 30 Hours
2. Field visits = 24 Hours
3. Seminars = 06 Hours
   
   **Total** = 60 Hours

(A) **LECTURES TAKEN DURING 1ST MBBS**

#### INTRODUCTION (2):

1. Introduction to P.S.M. department and the subject
2. Areas of application of community medicine and its branches.

#### SOCIOLOGY INCLUDING PSYCHOLOGY (8):

1. Sociology (Medical)
2. Social stratification
3. Sociology & health
4. Social psychology
5. Community behavior and its determinants
6. Family & health
7. Cultural & behavioral factors in health/disease
8. Social classification of families

#### POPULATION AND DEMOGRAPHY (4):

1. Demography and population trends
2. Demography and population trends (Census)
3. Population control - various strategies

#### ENVIRONMENTAL & HEALTH (8):

1. Water sources, safe water, water pollution, water borne diseases, etc.
2. Hardness, storage, filtration/chlorination
3. Air
4. Ventilation
6. Housing standards and criteria
7. Housing and health
8. Refuse disposal

**CONCEPT OF HEALTH (8):**
1. Health determinants, dimensions, positive health, relative concept
2. Concept of well being, spectrum of health, determinants of health, ecology of health
3. Indicators of health
4. Health situation in India - developed versus developing countries.
5. Concept of disease - causal and natural history of disease.
6. Concept of control, iceberg phenomenon.
7. Levels of prevention and determinants of health.

**FIELD VISITS**
1. Urban practice area – environmental and dynamics of urban life.
3. Urban practice area – health seeking behavior
4. Maskati hospital
5. Primary health centre-I visit.
6. Urban health centre-I visit.
7. Urban health centre-II visit.
8. Sub center and anganwadi.
9. Primary health centre-II visit.
10. Primary health centre-III visit.
11. Water works and chlorine estimation.
12. Sewage farm & household excreta disposal system.
13. Seminars
14. Seminars
15. Seminars

**(B) LECTURES TAKEN DURING 2nd MBBS**

**BASIC NUTRITION (10):**
1. Nutrition - introduction
2. Classification of food and nutrients
3. Proteins and carbohydrates
4. Fat and fat soluble vitamins
5. Vitamin B-complex
6. Vitamin-C, scurvy, calcium, phosphorus
7. Iron & iron deficiency anemia
8. Iodine & iodine deficiency disorders
9. Assessment of nutritional status
10. Energy and PEM

STATISTICS AND VITAL STATISTICS (12):
1. Introduction - subject, data – it’s types and sources
2. Data - presentation tabular/graphic
3. Measures of central tendencies
4. Measure of variability
5. Sampling methods
6. Probability
8. Normal curve, tests of significance - qualitative (Z)
9. Chi-square test,
10. Tests of significance - quantitative, paired and unpaired t and Z
11. Correlation and concept of regression and multivariate analysis
12. Indicators of MCH fertility

APPLIED NUTRITION (4):
1. Nutritional disorders I (deficiency diseases)
2. Nutritional disorders II (food toxins)
3. National nutritional programs (ICDS, applied nutrition and mid day meal)
4. Community based delivery of programs and sociology of malnutrition

GENERAL EPIDEMIOLOGY (14):
Including immunity, screening and sterilization)
1. Introduction
2. Descriptive epidemiology
3. Case control study
4. Cohort study
5. Experimental & RCT study
6. Association and causality
7. Uses of epidemiology
8. Dynamics of diseases transmission
9. Disease prevention and control
10. Immunity
11. Immunizing agents
12. Screening of a disease
13. Validity of a screening test
MORNING POSTINGS DURING 2nd MBBS
(Site visits/tutorials/practicals)

ENVIRONMENT: 1-6

Along with the demonstration of models
1. Demonstration of Horrock’s apparatus, chloroscope, OT test and chlorination
2. Water quality (biological) and its health implications, coliform test
3. Water quality (chemical) standards and its health implications
4. Meteorological equipments
5. Excreta disposal (rural)
6. Excreta disposal (urban)

ENTOMOLOGY: 1-6

Along with the demonstration of models and also of breeding sites
1. Morphology, life cycle, differences of various mosquito species and their medical importance
2. Control, prevention and ITMN trials.
3. House fly and sand fly
4. Ticks, mites and cyclops
5. Louse, flea and rats
6. Insecticides and resistance

NUTRITION: 1-6

1. Nutritive value of food stuffs
2. Calculation of dietary intake
3. Milk hygiene
4. Food and meat hygiene
5. Classification of malnutrition
6. Nutritional photographs

STATISTICS: 1-6

1. Mean, median, mode and measures of variability
2. Methods of sampling
3. Test of significance (qualitative)
4. Test of significance (quantitative) correlation and regression
5. Vital statistics (MCH/fertility), incidence and prevalence rates,
6. Demography.

MCH / FAMILY PLANNING: 1-6

1. Vaccines (UIP)
2. Vaccines (Non UIP e.g. rabies, Hep B, MMR, Typhoral, IPV)
3. Cold chain/walk in cooler
4. Contraceptives
5. Genetic exercises (pedigree charts)
6. Genetic photographs

**EPIDEMIOLOGY: 1-6**
1. Investigation of an epidemic
2. Interpretation of graphs and diagrams
3. Interpretation of tables / epidemiological exercises
4. Occupational and protective devices I
5. Occupational and protective devices II

**PRACTICALS: 20**
1. Family care survey (1-8)
2. Clinico-social care reviews (9-13)
3. Rapid survey (14-18)
4. Seminar (19-20)

**LECTURES**
1. Lectures = 76 Hours
2. Postings = 72 Hours

**SPECIFIC EPIDEMIOLOGY**

**RESPIRATORY INFECTION (9)**
1. Small pox, chickenpox
2. Measles, Rubella/mumps
3. Influenza
4. Diphtheria
5. Whooping cough/meningitis
6. Tuberculosis I
7. Tuberculosis (RNTCP) II
8. Acute respiratory infections

**VECTOR BORNE DISEASES (7)**
1. Malaria
2. Filariasis
3. Dengue & yellow fever
4. KFD & Japanese encephalitis
5. Leptospirosis
6. Plague
7. Rickettsial infections

**SURFACE INFECTIONS (7)**
1. Trachoma
2. Tetanus
3. Leprosy
4. Rabies
5. STDs, yaws
6. AIDS
7. Counseling in patients of HIV and STDs

GASTRO INTESTINAL INFECTIONS (9)
1. Poliomyelitis
2. Polio eradication and PPI
3. Viral Hepatitis
4. Cholera
5. Acute diarrhea diseases and ORS
6. Typhoid and paratyphoid
7. Amoebiasis and Dracunculosus
8. Roundworm and Hookworm
9. Food Poisoning including Salmonellosis

NON COMMUNICABLE DISEASES (10)
1. Introduction and hypertension
2. Hypertension & coronary heart diseases
3. Coronary heart diseases
4. Stroke and rheumatic heart diseases
5. Diabetes
6. Obesity
7. Cancer I
8. Cancer II
9. Blindness
10. Accidents

PUBLIC HEALTH ADMINISTRATION (6)
1. History of public health (Global)
2. History of public health (India)
3. National health policy and health planning in India (various committees)
4. Health set up in India (central, state, district and urban areas)
5. Health set up in India (PHC and sub centers)
6. Health care system
   - Public sector
   - Private sector
- Indigenous system
- NGOs

HEALTH PLANNING AND MANAGEMENT (2)

NATIONAL HEALTH PROGRAMS (7)
1. School health services
2. Behavioral child health problems
3. Geriatrics and adolescent health
4. CSSM & RCH (I)
5. CSSM & RCH (II)
6. Other national programs: Malaria, leprosy, tuberculosis
7. Other national programs: Family welfare, post partum programme, etc.

INTERNATIONAL HEALTH AND MENTAL HEALTH (2)

OCCUPATIONAL HEALTH (6)
1. Occupational hazards
2. Occupational diseases including pneumoconiosis
3. Occupational diseases including lead poisoning and occupational cancers
4. Occupational hazards in agriculture workers, sickness absenteeism
5. Health protection of workers including legislative measures I (ESI act)
6. Health protection of workers including legislative measures II (factories and other acts)

GENETICS AND EUGENICS (2)

HEALTH EDUCATION (1) / INTEGRATED CARE (1) / MATERNAL AND CHILD HEALTH (5)
1. Introduction, MCH problems
2. Ante, intra, post natal care
3. Infant and child care
4. Growth and development, growth chart
5. Preschool child care including child health problems, under five clinics.