

Preventive and Social Medicine / Community Medicine (PSM)

- A. The teaching of Social & Preventive Medicine shall place throughout the teaching period.
- B. Field experience in rural health is included in pre-clinical as well as during clinical period
- C. During the students attendance at various departments which is now required under medicine and surgery, such as infectious diseases. T.B. Leprosy, V.D. etc. emphasis shall be laid as much on the preventive as on the clinical and Therapeutic aspects of these diseases.
- D. In addition to the teaching undertaken by the department of Social & Preventive Medicine, a joint programme with other departments is essential in order to give the students a comprehensive picture of man, his health and illness.
- E. Stress shall be laid on national programmes, including those of control of communicable diseases and family planning and health education.
- F. An epidemiological units as an integrate part of every hospital in order to achieve a comprehensive study disease by the students should be established.
- G. The objective of the internship shall be clearly defined and that a proper training programme is oriented for this period. Objectives, and the methods by which the internship could be made into a satisfying and fruitful experience. Sharpening and for planning in this phase of education shall be done.
- H. As regards the qualifications of the teachers it is highly important that All teachers in Social and A preventive Medicine should have as far as possible had adequate administrative experience in addition to the teaching experience. They should also be encouraged to acquire skills in clinical subject specially related to community medicine.
- I. Practical Skills: Due stress shall be laid on the students acquiring practical skill in the following procedures.

UNDER GRADUATE COURSE

Community Medicine including Humanities

(Phase I, II and Part 1st of Phase III M.B.B.S.)

GOALS: The broad goal of the teaching of undergraduate students in community medicine is to prepare them to function as community and first level physicians in accordance with the institutional goals.

OBJECTIVES:

Knowledge:

At the end of the course the student shall be able :

- Explain the principles of sociology including demographic population dynamics.
- Identify social factors related to health, disease and disability in the context of urban and rural societies.
- Appreciate the impact of urbanization on health and disease.
- Observe and interpret the dynamic of community behaviours.
- Describe the elements of normal psychology and social psychology.
- Observe the principles of practice of medicine in hospital and community settings.
- Describe the health care delivery systems including rehabilitation of the disabled in the country.
- Describe the National Health Programmes with particular emphasis on maternal and child health programmes, family welfare planning and population control.
- List the epidemiological methods and techniques.
- Outline the demographic pattern of the country and appreciate the roles of the individuals, family, community and socio-cultural milieu in health and disease.
- Describe the health information systems.
- Enunciate the principles and components of primary health care and the national health policies to achieve the goal of "Health for all".
- Identify the environmental and occupational hazards and their control.
- Describe the importance of water and sanitation in human health.
- To understand the principles of health economics, health administration, health education in relation to community.

Skills:-

At the end of the course, the student shall be able to make use of

- The principles and practice of medicine in hospital and community settings and familiarization with elementary practices.
- Use the Art of communication with patients including history taking and medico social work.
- Use epidemiology as a scientific tool to make rational decisions relevant to community and individual patient intervention.

- Collect, analyse, interpret and present simple community and hospital base data.
- Diagnose and manage common health problems and emergencies at the individual, family and community levels keeping in mind the existing health care resources and in the context of the prevailing socio-culture beliefs.
- Diagnose and manage common nutritional problems at the individual and community level.
- Plan, implement and evaluate a health education programme with skill to use simple audio-visual aids.
- Interact with other members of the health care team and participate in the organization of health care services and implementation of national health programmes.

Course Content:

Total hours of teaching in community medicine and Humanities are 376. The distribution of them shall be as follows:

Phase	Semester	Theory	Practical Hours
I	I & II	30	30
II	III & IV	68	132
III Part 1st	VI & VII	50	66

List of theory lectures - Phase I (1st and 2nd semester) 30 Hours

1. Introduction – Evolution of Community Medicine.
2. Health – Definition, spectrum of health and factors affecting – indicators of health.
3. Health Problem of World – Urban and Rural – Indian Health.
4. Health Care Delivery system in India – Urban and Rural.
5. Demography, Demographic cycle, Population trends – World and India.
6. Fertility and factors affecting it.
7. Family welfare and Population control.
8. Medical ethics and Doctor – patient relationship – Consumer Protection Act.
9. Sociology and Social factors effecting health.
10. Social Psychology – introduction, Group Behaviour, Motivation Personality.

11. Economics and health.
 12. Health Education and Communication.
 13. Hospital Management.
 14. Nutrition and Health.
 - Constituents of food.
 - Food and food groups.
 - Diet planning and recommended dietary allowances.
 - Nutritional diseases.
 - Iodine deficiency disorders.
 - Diseases due to vitamin and mineral imbalance
 - Toxins in the food.
 - Assessment of Nutritional status.
- ❖ Examination

Phase II – (3rd and 4th Semester) 68 Hours

General Epidemiology

- The concepts of disease.
- Natural history of disease.
- Epidemiological triad.
- Dynamics of diseases transmission.
- Concept of disease control.

Epidemiology

- Definition, types, measurements in epidemiology, epidemiological studies, and clinical trial, investigation of an epidemic.
- Uses of epidemiology.
- Screening for disease.
- Disinfection, sterilization and control of Hospital acquired infections.
- Immunity.

Environmental health

Introduction to environment health.

- Water in relation to health
- Air pollution and ecological balance.
- Housing and health.
- Effects of radiation on human health (Ionizing, Non-ionizing & Nuclear warfare)
- Effects of Noise on human health.
- Meteorological environment.
- Solid waste disposal.
- Disposal of hospital waste.
- Liquid waste disposal

Medical entomology

Arthropods of medical importance and their control.

Biostatistics (Theory and Practical)

- Introduction and uses.
- Data Types, Collection and Presentation.
- Centering constants.
- Measures of Variation.
- Normal distribution.
- Sampling methods and Sampling variability.

Tests of significance.

- SE of difference between two means.
- SE of difference between two proportions
- χ^2 test. (Chi-square)
- Students "t" test
 - Paired.
 - Unpaired.
- Statistical fallacies.

Computers in Medicine

There use at all the stages to be demonstrated. The students should use computers in analysis and presentation of data

Epidemiology of communicable diseases.

- Air borne infections.
- Exanthematous fevers.
- Chicken pox, Rubella, and Measles
- Factors responsible to eradicate small pox.
- Influenza and ARI.
- Diphtheria and Pertussis
- Tuberculosis.
- Faeco-oral infections.
- Poliomyelitis.
- Hepatitis.
- Enteric Fever and Cholera
- Bacillary and Amoebic dysentery.
- Soil transmitted Helminths.
- Tetanus
- Rabies and other Viral Zoonotic disease.
- Leprosy.
- Malaria
- Filariasis.
- Arthropod borne viral diseases.
- Sexually transmitted diseases and their control.
- A.I.D.S.

Examinations at the end of 3rd and 4th semester.

(Phase III (6th and 7th Semester) 50 hrs.

(Teaching in 7th semester includes tutorials also.)

- Community development programmes and multisectoral development.
- Comprehensive medical care and Primary health care.
- National Health Policy.

- Maternal and Child Health care.
- Epidemiology of Non-communicable diseases.
- Occupational health.

- Problems of adolescence including Drug dependence.
- Geriatrics
- Vital statistics– sources and uses, Census, Fertility statistics.
- Management information system.
- Mental health.
- Genetics in public health.
- Health planning and management.
- National Health Programmes.
- International health and Voluntary Health Agencies.
- Introduction of “ Brain Death and Organ Donation”
- Introduction Of “Bio-Medical Waste”
- Introduction of “Integrated Management of Neonatal and Childhood Illness”
- Tutorials.

Examination at the end of 6th and 7th semester.

PRACTICALS

Phase I (1st And 2nd semester semester) - 30 hours.

Field visit-

Every Medical College should have adequate transport facilities to take medical undergraduate for field visits. In the phase I total 15 visits, each of 2 hours duration or total 10 visits – each of 3 hours duration (depending on distances) are to be planned by the departments of community medicine. The broad outline of place for educational field visits is given below.

- Hospital visits (O.P.D., Casualty, Immunization clinic, different wards, Kitchen, FW Centre, PPP, Blood Bank, Sterilization section, Infectious disease ward, Minor operation theatre, etc.)
- Rural Health Training Centre.
- Primary Health Centre.
- Urban Health Centre.
- District Health Office (DHO).
- District Training Team (DTT)/IEC Bureau.
- District Tuberculosis Centre.
- Public Health Laboratory.

- District Malaria Office.
- Remand Home.
- Rehabilitation Centre.

IIIrd Semester, Ist Clinical Posting - 66 hours.

Lecture – Cum – Demonstration, at appropriate places SN	Topic	Demonstration
1	Visit to Urban / Rural health Training Centre.	Functions of UHC/ RHTC Manpower & Duty arrangements
2	Immunization Programme	I (demonstration)
3	Immunization Programme	II (Cold Chain)
4	Care of ANC mother	Demonstration of Antenatal case
5	Care of Infant	Demonstration of case
6	Post-natal case of mother/child.	Demonstration of case
7	Contraceptive devices	Situation to be given and sex education.
8	Exclusive breast feeding	Visit to Baby Friendly Hospital
9	Weaning foods	Demonstration
10	Nutritional demonstration	Explain nutritive values of Indian foodstuff
11	Nutritional assessment	Demonstration
12	Anthropometric measurements	Demonstration
13	Nutritional deficiency disorders	With A/V aids or case, Road to Health Chart
14	Protein Energy Malnutrition	With A/V aids or case, ORS preparation
15	Diarrhoea as a community health problem	With A/V aids or case
16	ARI as a community health problem	With A/V aids or case
17	Elementary essential drugs	Visit to drug store, Inventory control
18	Examination (Assessment at the end of the posting)	

4th Semester 2nd Clinical Posting - 66 hours.

The board guidelines for planning programmes are as follows.

1) Posting for family care study - 6 days

- Principle of clinical epidemiology

- Morbidity Survey.

- Data analysis and presentation.

2) Posting for School Health - 6 days

- Health check-up of school children.

- Data analysis and presentation.

- Health education activities in the school by the students

3) Visit to anganwadi and ICDS scheme block- 2 days

- 4) Visit to Home for aged and discussion on geriatric health problems - 2 days
- 5) Students seminars on topics like - 5 days
 - Disaster management
 - Road traffic accidents
 - Population explosion etc.
- 6) Examinations - 3 days

Phase III (6th and 7th Semester)

3rd Clinical Posting - 66 hours.

Posting: Clinical case presentation by students

1. Introduction to infectious diseases – history taking
2. Exanthematous fever.
3. Diarrhoea / Cholera / Dysentery.
4. Tuberculosis
5. Leprosy.
6. Dog – bite case.
7. Tetanus.
8. PUO / Enteric fever / Malaria.
9. S.T.D. / AIDS.
10. Hepatitis
11. Introduction to non- communicable diseases.
 - Rheumatic heart disease.
 - Cancer.
 - Obesity

Record Book:

- 1) The case records will have to be entered in a record book separately.
- 2) The certificate of satisfactory completion of all Clinical postings will be entered based on similar certificates from all postings.
- 3) In addition, details of the marks secured in the posting ending examination shall be entered on the second page on which the calculations of the internal assessments shall also be stated. Record book will not carry any marks but its satisfactory completion will be a prerequisite for appearing in examination.

MARKS DISTRIBUTION:

MARKS OF INTERNAL ASSESSMENT:-

Theory –20 marks and practical 20 marks.

I) Theory

1) 3rd Semester -50 Marks

2) 4th Semester -50 Marks

3) 6th Semester -50 Marks

Total -150 Marks (Convert it to out of 10 marks)

4) Pre-university exam. Theory Paper I - 60 Marks

Paper II - 60 Marks

Total -120 Marks (Convert it to out of 10 marks)

Total Theory Internal Assessment marks will be 20.

II) Practical's -

1) 1st Clinical rotation exam. - 3rd Semester - 50 Marks

2) 2nd Clinical rotation exam. - 4th Semester - 50 Marks

3) 3rd Clinical rotation exam. - 6th Semester - 50 Marks

Total 150 Marks (Convert it to out of 10 marks)

4) Prelim exam. - 40 Marks

10 Marks for Journals

Total 50 Marks (Convert it to out of 10 marks)

Total Practical Internal Assessment marks will be 20.

BOOKS RECOMMENDED.

1. Text book of Community Medicine, Kulkarni A.P. and Baride J.P.

2. Park's Textbook of Preventive and Social Medicine, Park

3. Principles of Preventive and Social Medicine, K. Mahajan

4. Textbook of Community Medicine, B. Shridhar Rao.

5. Essentials of Community Medicine, Suresh Chandra.

6. Textbook of Biostatistics, B. K. Mahajan

7. Review in Community Medicine, V.R. Sheshu Babu.

8. Reference Book for Community Medicine: "Principles and practice of Biostatistics",

Author: Dr. J.V. Dixit

FURTHER READINGS.

Epidemiology and Management for health care for all P.V. Sathe and A.P. Sathe. Essentials of Preventive Medicine O.P. Ghai and Piyush Gupta.

Evaluation Methods:

Theory, Practical's and Viva Theory 2 papers of 60 marks each	120 marks
Oral (Viva)	10 marks
Practical /Project evaluation	30 marks
Internal Assessment	40 marks (Theory 20 Marks, Practical 20 Marks)
Grand Total	200 marks

CURRENTLY UNDERGOING ONLINE THEORY TEACHING SCHEDULE OF UNDER GRADUATE STUDENTS:

Batch	Day	Time	Topic	Faculty
1 st MBBS Batch-2019	Saturday	11to12pm	Environment	Dr K.K.Meena
2 nd MBBS Batch-2018	Monday	1to2pm	NHM	Dr. Goverdhan Meena
	Saturday	1to2pm	Management	Dr. Avtar Singh Dua
3 rd MBBS Batch-2017	Tuesday	11to12pm	General Epidemiology	Dr Amita Kashyap
	Friday	10to11pm	MCG	Dr. Dilip Raj

Practical Classes in Community Medicine (March to September 2020)

Batch 2017

Day & Time	Venue	Teacher & Topic	Duration		
			11.03.2020 to 10.05.2020	11.05.2020 to 10.07.2020	11.07.2020 to 10.09.2020
Monday 2:00-4:00 PM	Demonstration Room New Academic Block Room No. 212	Dr. Lovesh Saini (Sr. Demo.) Biostatstics	Batch A R.No. 01 to 79	Batch B R. No. 80 to 158	Batch C R. No. 159 to 236
	Demonstration Room New Academic Block Room No. 213	Dr. Raghunanden Khandelwal (Sr. Demo.) Med. Entomology	Batch C R. No. 159 to 236	Batch A R.No. 01 to 79	Batch B R. No. 80 to 158
	Department Demonstration Room	Dr. Nikita Sharma (Senior Resident) Environment	Batch B R. No. 80 to 158	Batch C R. No. 159 to 236	Batch A R.No. 01 to 79

Batch 2018

Day & Time	Venue	Teacher & Topic	Duration		
			21.02.2020 to 20.04.2020	21.04.2020 to 20.06.2020	21.06.2020 to 20.08.2020
Thursday 3:00-4:00 PM	Demonstration Room New Academic Block Room No. 212	Dr. Lovesh Saini (Sr. Demo.) Demography	Batch A R.No. 1-72	Batch B R. No.73-144	Batch C R. No. 145-Onwards
	Demonstration Room New Academic Block Room No. 213	Dr. Raghunandan Khan delwal (Sr. Demo.) Social & Family Medicine	Batch C R. No. 145-Onwards	Batch A R.No. 1-72	Batch B R. No.73-144
	Department Demonstration Room	Dr. Nikita Sharma (Senior Resident) Environment	Batch B R. No.73-144	Batch C R. No. 145-Onwards	Batch A R.No. 1-72

*Due to Covid -19 practical classes are not being held.

Clinical Posting Schedule (Batch 2018)

Batch	A1	A2	A3	A4
Roll No.	01-18	19-37	38-55	56-73

Date (Time: 10:00 am to 01:00 pm)	Infectious Disease Hospital	UHTC, Susheelpura, Sodala	Immunization*(first 4 days) and ARC (remaining 3 days)	Family Welfare Clinic*
Teacher	Dr. Lovesh Saini	Dr Manoj Gupta	Dr Dharmesh Sharma & Dr Sudhakar Sharma	
04-12-18 to 10-12-18	A1	A2	A3	A4
11-12-18 to 18-12-18	A4	A1	A2	A3
19-12-18 to 26-12-18	A3	A4	A1	A2
27-12-18 to 03-01-19	A2	A3	A4	A1
Time: 10:00 AM to 01:00 PM Venue: LT -2				
Date/Every Saturday	Topic	Batch	Teacher	
08.12.18	Problem based: Vaccination	A3	Dr Sudhakar Sharma	
15.12.18	Seminar: Child development	A1	Dr Lovesh Saini	
22.12.18	Case presentation: Dog bite	A4	Dr B L Jat	
29-12-18	Group discussion: Breast Feeding	A2	Dr Raghunandan	