

**OPJS UNIVERSITY, RAWATSAR-KUNJLA (RAJGARH)
CHURU, RAJASTHAN**

SYLLABUS

(MULTI PURPOSE HEALTH WORKER)

MALE

First Year

S.NO	PAPER CODE	SUBJECT NAME
1	MPHW-110	ANATOMY
2	MPHW-120	PHYSIOLOGY
3	MPHW-130	MICROBIOLOGY
4	MPHW-140	HEALTH & HYGIENE
5	MPHW-150	COMPUTER SKILL

Second Year

MPHW

1	MPHW-210	PUBLIC HEALTH
2	MPHW-220	FIRST AID AND EMERGENCY CARE
3	MPHW-230	HEALTH INFORMATION EDUCATION & COMMUNICATION
4	MPHW-240	COMMUNICATION SKILL

MPHW-110 ANATOMY

1) Introduction of Bones of the Human Body of :

- Upper Limb : clavicle, scapula, humerus, radius, ulna, carpus, metacarpus & phalanges
- Lower Limb : hipbone, femur, tibia, fibula, tarsus, metatarsus & phalanges
- Skull : name the bone of skull and sutures between them
- Thorax : ribs and their articulations
- Vertebral Column : Cervical, thoracic, lumber, sacral and cocasial vertebrae

Surface Markings of the Body :

- Nine regions of the abdomen
- Four quadrants of the Hip

2) Introduction of different Vital Organs :

A) Respiratory Organs:

- Nasopharynx
- Oropharynx
- Larynx
- Trachea
- Bronchi
- Lungs (and their lobular segments)
- Thoracic cavity
- Pleura and Pleural cavity

B) Circulatory Organs :

- Anatomical position of the heart
- Pericardium of the heart
- Chambers of the heart
- Great vessels of the heart
- Valves of the heart

C) Digestive Organs :

- Tongue
- Teeth
- Oral cavity
- Pharynx
- Oesophagus
- Stomach
- Small intestine
- Large intestine and its colons

PRACTICAL: 100 Marks

Labeled Diagrams of different organs and bones Vivo

MPHW-120

PHYSIOLOGY

1) The Cell in health and disease

a. Introduction of pathology

b. Cellular structure and metabolism

c. Inflammation – Acute and Chronic

d. Derangement of Body Fluids and Electrolytes

- Types of shocks
- Ischaemia
- Infection

e. Neoplasia – Etiology and Pathogenesis

2) Introduction of hematology

a. Formation of Blood

b. Erythropoiesis

c. Leucopoiesis

d. Thrombopoiesis

e. Collection of Blood

f. Anticoagulants

g. Red cell count – Haemocytometer, Methods and Calculation

h. WBC Count -- Methods

i. Differential Leucocytes Count (DLC)-- Morphology of White Cells, Normal Values

Ranancostroy Stains : Staining procedures Counting Methods, Principle of staining

j. Hb estimation – Method, Colorimetric Method, Chemical Method, Gasometric Method,

S.G. Method, Clinical Importance

I. Hematology:

- ESR
- Methods
- Factors – Affecting ESR
- Normal Values
- Importance
- RBC – Indices
- WBC
- Platelets

II. Body Fluids:

(a) Urine:

- Method of Collection
- Normal Constituents
- Physical Examination
- Chemical Examination

(b) Stool Examination:

- Method of Collection
- Normal Constituents and appearance
- Abnormal Constituents (Ova, Cyst)

(c) C.S.F. Examination

- Physical Examination
- Chemical Examination

- Microscopy
- Cell 1 Count
- Staining

(d) Semen Analysis

- Collection
- Examination
- Special Tests

Practical:

- Collection of Sample
- Hb estimation
- TLC and DLC
- RBC Count
- Peripheral blood film – staining and study of Malaria Parasite

II. Laboratory management – Sample Collection, Labeling, Transport,

MPHW-130

MICROBIOLOGY

I. Introduction of brief history of Microbiology

- Historical Aspect
- Relationship of Micro-organism to men
- Micro-organism in Disease and Health

II. Requirement and uses of common Laboratory Equipments

- Incubator, Hot Air Oven, Water Bath
- Anaerobic Jar, Centrifuge, Autoclave
- Microscope
- Glassware – Discription of Glassware, its use, handling and care

III. Sterilization :

- Definition
- Classification and General Principal of Sterlization
- Autoclave – its structure, functioning, control and indicator

IV. Antiseptics & Disinfectants

- Definition
- Types
- Mode of Action
- Uses

V. Collection, Transportation and processing of clinical samples for Microbiological Investigations Bacteriology

- Definition
- Bacteria – General characteristics of Bacteria
- Classification and morphology of Bacteria
- Structure of Cell, Capsule, Flagella, and Spore
- Growth of Bacteria
- Nutrition of Bacteria Virology :
- Definition
- General Introduction of Virus
- Physiochemical characteristic of Viruses
- Diseases caused by different Virus and mode of infection

Parasitology :

- Definition
- General Characteristics of Parasite
- Classification of Parasite
- Mode of transmission

Fungus:

- Definition
- Structure
- Classification

Practical:

Demonstration of washing of instruments

Staining – Type of Staining, Principal, Procedure and Interpretation

MPHW-140

HEALTH & HYGIENE

1. Definition of Health
2. Responsibility of Health
3. Nutrition
4. Environmental sanitation
5. Concept of Health & Diseases
6. Factors influencing Health
7. Healthful Living
8. Health Habits & Practices
9. Maternal Health

- 10. Equipment & supplies for Maternal Health Work.
- 11 School Health Service
- 12 National Health Programme
- 13 Community Resources for health education.
- 14 Communication Skills for health worker
- 15 Audio Visual aids in health education
- 16 Dietary needs of the patient

MPHW-150

COMPUTER SKILL

Fundamentals of Computers

- Introduction: Classification of computer & generation, Basic architecture of computer and its building blocks, input devices, Computer memories.
- Number System: Binary, Octal, Decimal, Hexadecimal representation of characters : ASCII and EBDIC codes, Binary arithmetic and logic circuit.
- Classification of Computer language: Machine, Assembly and High level language, Brief idea of operating system, Assembler, Compiler and interpreter.
- Fundamentals of Computer Programming: Problem solving through computer algorithms and flow chart level of programming.
- Operating System: Introduction to O.S., Types of operating system, Multiprogramming, Timesharing, Batch, Real time and UNIX
- Internet: Introduction to Internet, Components, Services and working on internet, introduction to protocols, tools.

SECOND YEAR

MPHW-210

PUBLIC HEALTH

- Introduction of Public Health: - Concept of health, nursing, community, community health and development. Responsibilities of health workers. Ethics and behavior of health worker .Health team. Organisation of health and nursing and nursing services, principles of organizing care, in the home , health agencies , clinics, scholl and hospitals. , principles of organizing care according to the needs and priorities , health and medical problems

- Public Health and problems in India:- Factors related to family health , integrating family services (MCH servuces), family life education for parents, nutritions of the family ,introduction of nutrition relation of nutrition of health ,foods nutrients and function of food ,vitamins minerals, vitamins minerals deficiencies ,applied nutrition Programme, nutrition education.
- Dietary needs of the patient: Healthful environment in the home care of Sick, aged person handicapped, home visiting and domiciliary health service, in home Understanding and learning about community, family structure and activities, Urban and rural administrative pattern , social processes, social control(traditional, customs and habits).

MPHW-220

FIRST AID AND EMERGENCY CARE

- First aid and emergency care:- Life saving measures, management of emergency situation , general rules for first aid , observations, examinations, tests, temperature, pulse, respirations, blood pressure, weight and height ,history taking physical examination , urine analysis, collection of specimens ,X-ray and special tests, dressing and bandages. First aid in the injuries of the skin(wounds, burns and scalds, bites and stings), first aid in injuries to bones, joint and muscles(fracture), transport of casualties, first aid in loss of consciousness, first aid in convulsions and hysteria, first aid in shock, first aid for forign bodies in the ear, eye, nose and throat, artificial respiration, first aid in asphyxia, first aid in poison.
- Mental Health: - Introduction to psychology ,mental hygiene and health, self understanding and growth, mental hygiene and health in various stages of life. Mental illness: normal and abnormal behavior, education

MPHW-230

HEALTH INFORMATION

EDUCATION

&

COMMUNICATION

- Concepts:- Child health, growth and development of a child, tags of child life an basic needs, teaching mother about child health needs and priorities, assessment of growth and development ,new born observation and assesment, care of the normal

new born at home, management of minor disorders, care of premature baby at home, feeding of infants and children prevention and treatment of common childhood diseases and ailments, agencies for child care and welfare.

- Health of mother: - principles of care during the maternity cycle, ante-natal care, action in case of abnormalities of pregnancy, intra-natal care, post. Natal care, health education: diet, exercise, hygiene and family planning, organization of maternal health care services, training of dais.
- Immunization: Immunity immunization, care and storage of vaccines, immunization schedule, methods of immunization , immunization reaction, treatment ,and prevention, responsibilities of health workers in immunization campaigns.
- Family Planning & family welfare including population duration:-introduction importance of family planning to the family and community, aspects of family health and welfare services, contraception and family planning methods, methods requiring medical attention and supervision, national family welfare programme, organizing family welfare work, records and reports, supervision of dais and community level workers.

MPHW-240

COMMUNICATION SKILL

Communication skill:- Communicating with the community (Introduction to communication, what are the barriers to communication, traditional and modern channels of communication), types of communication, motivation in communication, basic skill for communication, evaluating the effects of communication, health education-communication in health work, principles of teaching, teaching methods, audio-visual and other teaching aids, preparation of low cost A.V.Aids and their use, planning health education activities, identifying community resources for health education, the process of planning and implementing health education, community resources and organization for health education. Assessing needs and priorities, referral maintenance of supplies, equipments and other facilities, records and reports, patient retained records, admission and discharge of a patient, vital statistics and event, gathering information about our communities, registration of vital statistics and making use of information statistics and local resources.

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SYLLABUS

(MULTI PURPOSE HEALTH WORKER)

FEMALE

FIRST YEAR

S.NO	PAPER CODE	SUBJECT
1.	MPHW-F-110	COMMUNITY HEALTH NURSING
2.	MPHW-F-120	HEALTH PROMOTION
3	MPHW-F-130	PRIMARY HEALTH CARE

SECOND YEAR

S.NO	PAPER CODE	SUBJECT
1	MPHW-F-210	MIDWIFERY
2	MPHW-F-220	CHILD HEALTH CARE NURSING
3	MPHW-F-230	HEALTH CENTER MANAGEMENT

FIRST YEAR

MPHW-F-110 COMMUNITY HEALTH NURSING

- Learning objectives: On completion of the course, the student will be able to
- Describe the concept of community health, primary health care
- Understand health policies, Plans, and programmes of the Country.
- Understand the concept of community.
- Appreciate the role of the health team.
- Demonstrate home visit techniques & practices in the community.
- Describe structure, function, characteristics, and administrative set up of a community.
- Identify leaders, resources persons, community –based organizations, NGOs, and local Resources.
- Identify community health needs and problems.
- Describe concepts and methods of communication for health information.
- Describe the purpose, Principles, and methods of health Counseling.

MPHW-F-120

HEALTH PROMOTION

Learning Objectives: On completion of the course, the student will be able to:

1. Explain importance of nutrition in health and sickness.
2. Promote nutrition of a individual, family and community.
3. Explain Principles of hygiene and its effect on health.
4. Describe hygiene for self and individuals.
5. Describe importance of environmental sanitation and waste management.
6. Promote mental health of individual, family, and communityMULTIPURPOSE

MPHW-F-130

PRIMARY HEALTH CARE

(PREVENTION OF DISEASE AND RESTORATION OF HEALTH)

Learning Objectives: On completion of the course, the student will be able to:

1. Explain concept of infection and causation of diseases.
2. Describe body defense mechanisms and development of immunity against diseases.
3. Perform immunization effectively.
4. Describe different methods of disinfections and sterilization.
5. Describe common communicable diseases and their management.
6. Explain prevention of common communicable diseases and their control.
7. Describe care of the sick in community with common ailments and refer if required.
8. Explain recognition of conditions related to different body systems.
9. Describe and demonstrate routes of administration of drugs.
10. List common drugs used for emergencies and minor ailments, their indications, dosage and actions.

SECOND YEAR

MPHW-F-210

MIDWIFERY

Learning Objectives: On completion of the course, the student will be able to:

1. Describe male and female reproductive organs
2. Explain process of conception and foetal development
3. Describe female pelvis and the muscles involved in delivery of foetus.
4. Conduct normal delivery and provide care to the newborn.

5. Provide care to pregnant mother during ante, intra and post natal period at home and hospital.
6. Provide need based counseling to the mother and to her family during antenatal, intranatal, and postnatal period.
7. Resuscitate the high-risk newborn baby.
8. Identify high –risk pregnancies and refer them immediately for safe mother hood.
9. Identify deviation from normal labour in time and take necessary action.
10. Provide adequate care identifying abnormal puerperium.
11. Administer the drugs as per the protocols.
12. Educate community for improving quality of life of the family.
13. Promote improvement in the status of women in society.
14. Identify women’s health problem and provide guidance and support.
15. Provide care and guidance to women with reproductive health problems.
16. Participate in reproductive health and family welfare progarmmes.

MPHW-F-220

CHILD HEALTH CARE NURSING

Learning Objectives: On completion of the course, the student will be able to:

- 1) Assess growth and development of a child at different ages.
- 2) Describe nutritional needs of different age groups of children.
- 3) Provide care to sick children during their common illness.
- 4) Describe School health programme.
- 5) Describe ‘Rights’ of children.
- 6) Educate mothers and family members as per need of their children

MPHW-F-230

HEALTH CENTER MANAGEMENT

Learning objectives: On completion of the course, the student will be able to:

- 1) Organize sub centre and clinics to carry out scheduled activities.
- 2) Indent and maintain necessary stock
- 3) Participate in the implementation of National Health Programmes
- 4) Update knowledge and skills
- 5) Provide guidance to TBA, AWW, ASHA and other Voluntary health workers.
- 6) Collaborate and coordinate with other health team members and agencies.
- 7) Maintain records and reports.