

SINGHANIA UNIVERSITY

RAJASTHAN

DETAILED SYLLABUS

MPHW (Male)

(MULTI PURPOSE HEALTH WORKER)

Two Year Programme

First Year

MPHW

s.no	Paper Code	Subject Name	Theory	Practical	Total
1	Mphw-110	Anatomy & Physiology	100	100	200
2	Mphw-120	Physiology	100	100	200
3	Mphw-130	Microbiology	100	100	200
4	Mphw-140	Health & Hygiene	100	100	200
5	Mphw-150	Computer skill	100	100	200

Total 1000

Second Year

MPHW

1	Mphw-210	Public Health	100	100	200
2	Mphw-220	First aid and Emergency Care	100	100	200
3	Mphw-230	Health Information Education & Communication	100	100	200
4	Mphw-240	Communication Skill	100	100	200

Total 800

First Year

Paper-I

100 Marks

Anatomy

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

1) 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

Paper-II
Physiology

100 Marks

COURSE CONTENTS –

- 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
Romanowsky 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 :

100 Marks

I.

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

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

Paper-III

Microbiology

COURSE CONTENTS –

100 Marks

- 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 – Description of Glassware, its use, handling and care
- III. Sterilization :
 - Definition
 - Classification and General Principal of Sterilization
 - 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 :**100 Marks**

Demonstration of washing of instruments

Staining – Type of Staining, Principal, Procedure and Interpretation

Paper-IV

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

Paper-V

Computer Skill

100 Marks

COURSE CONTENTS

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.

Paper-I
Second Year
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, schools 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 services), family life education for parents, nutrition 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).

Paper-II

Second Year

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 foreign 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

Paper-III

Second Year

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 assessment, 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.

Paper-IV
Second Year
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.

SINGHANIA UNIVERSITY

**SYLLABUS OF MPH W FEMALE
TWO YEARS PROGRAMME**

First Year

s.no	Paper Code	Subject	Theory	Practical	Total
1.	Mphw-F-110	Community Health Nursing	100	100	200
2.	Mphw-F-120	Health Promotion	100	100	200
3	Mphw-F-130	Primary Health Care	100	100	200

SECOND YEAR

S.NO	Paper Code	Subject	Theory	Practical	Total
1	Mphw-F-210	Midwifery	100	100	200
2	Mphw-F-220	Child Health Care Nursing	100	100	200
3	Mphw-F-230	Health Center Management	100	100	200

MULTIPURPOSE HEALTH WORKER (FEMALE) (NEW)
I YEAR SYLLABUS
I YEAR THEORY PAPER - I
COMMUNITY HEALTH NURSING

Learning objectives:

On completion of the course, the student will be able to

1. Describe the concept of community health, primary health care
2. Understand health policies, Plans, and programmes of the Country.
3. Understand the concept of community.
4. Appreciate the role of the health team.
5. Demonstrate home visit techniques & practices in the community.
6. Describe structure, function, characteristics, and administrative set up of a community.
7. Identify leaders, resources persons, community –based organizations, NGOs, and local Resources.
8. Identify community health needs and problems.
9. Describe concepts and methods of communication for health information.
10. Describe the purpose, Principles, and methods of health counseling.

MULTIPURPOSE HEALTH WORKER (FEMALE) (NEW)
I YEAR SYLLABUS
THEORY PAPER - II
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 community

MULTIPURPOSE HEALTH WORKER (FEMALE) (NEW)
I YEAR SYLLABUS
THEORY PAPER - III
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.

MULTIPURPOSE HEALTH WORKER (FEMALE) (NEW)
II YEAR SYLLABUS
THEORY PAPER -I
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 progammes.

MULTIPURPOSE HEALTH WORKER (FEMALE) (NEW)
II YEAR SYLLABUS
THEORY PAPER -II
CHILD HEALTH 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

MULTIPURPOSE HEALTH WORKER (FEMALE) (NEW)
II YEAR SYLLABUS
THEORY PAPER -III
HEALTH CENTRE 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.