

**HAFEEZ INSTITUTE OF MEDICAL SCIENCES
PESHAWAR**

رَبِّی زِدْنِی عِلْمًا

CURRICULUM

Diploma Program 2nd, 3rd, 4th Semester

HEALTH TECHNOLOGY



PLANE FOR 2ND SEMESTER FOR HEALTH TECHNOLOGY

After the completion of 1st semester, the candidate proceeding to 2nd semester will follow the course of chosen technology. The purpose of 2nd semester is to expand the knowledge of the candidate in practical life.

SEMESTER PLAN

SESSION TOPICS:

INTRODUCTION

- Clinical observation
- Vital signs
- Pulse
- Respiration
- Temperature
- Blood pressure
- Diseases
- Introduction
- Causes

A) INTERNAL KNOWLEDGE ABOUT THE FOLLOWINGS

- Physical agents
- Drugs
- Cigarette smoking
- Clinical agents
- Effects of temperature
- Effect of electricity
- Effect of radiation

C) ACUTE INFECTIOUS DISEASES

General features, causes, pathogenesis/ clinical features

Investigation and general principles of treatment.

- Measles
- Rubella
- Whooping cough
- Diphtheria

- Rabies
- Tetanus
- Chicken fox
- Mumps
- Typhoid fever
- Bacillary dysentery
- Food poisoning

D) TROPICAL DISEASES

General features, causes, pathogenesis/ clinical features

Investigation and general principles of treatment

- Malaria
- Amoebiasis
- Cholera
- Sexually transmitted diseases
- AIDS
- Gonorrhoea

E) DISEASES OF THE CIRCULATORY SYSTEM

General features, causes, pathogenesis/ clinical features

Investigation and general principles of treatment

- Coronary artery disease
- Hypertension
- Rheumatic heart disease
- Chronic heart failure

F) DISEASES OF RESPIRATORY SYSTEM

General features, causes, pathogenesis/ clinical features

Investigation and general principles of treatment

- Diseased of upper respiratory track
- Acute coryza
- Laryngitis
- Diseased of the lower respiratory track
- Acuter bronchitis
- Pneumonia
- COPD
- Asthma

G) DISEASES OF ALAMENTRAY TRACK

General features, causes, pathogenesis/ clinical features

Investigation and general principales of treatment

- Acute gastroenteritis
- Intestinal obstruction
- Peptic ulcer
- Gastritis

H) DISEASES OF THE LEVER

General features, causes, pathogenesis/ clinical features

Investigation and general principles of treatment

- Viral hepatitis
- Cirrhosis
- Liver failure

I) DISEASES OF NERVOUS SYSTEM

General features, causes, pathogenesis/ clinical features

Investigation and general principles of treatment.

- Meningitis
- Poliomyelitis
- Strokes
- Subarachnoid hemorrhage
- Headache

- Convulsions
- Coma
- Sciatica
- Movement disorder

J) DISEASES OF BLOOD

General features, causes, pathogenesis/ clinical features

Investigation and general principles of treatment

- Anemia due to blood loss
- Anemia due to decrease blood formation
- Hemolytic anemia
- Leukemias

k) DISEASES OF URINARY SYSTEM

General features, causes, pathogenesis/ clinical features

Investigation and general principles of treatment

- UTI

J) ENDOCRINE DISORDER

General features, causes, pathogenesis/ clinical features

Investigation and general principles of treatment

- Diabetes mellitus

J) DISEASES OF CONNECTIVE TISSUE

General features, causes, pathogenesis/ clinical features,

Investigation and general principles of treatment.

- Rheumatoid arthritis
- Osteoarthritis
- SLE

WARD DUTIES

- Keeping record of the patients
- Bed side care of patients

METHODS OF TEACHING

- Lectures
- Demonstration
- Practical work
- Duties in the unit

ATTENDANCE

90% Attendance

GRADING AND EVALUATION:

There shall be 3-monthly exams out of which on best

Should be counted. Each test shall carry 20 marks. A comprehensive exam in the end of Semester.

Pass % age marks 60%

Leading list

- Clinical methods
- Internal medicine
- Toomey's medicine Stephen R. bloom
- Churchill livingstone
- Principles and practice of emergency medicine Schwartz.
- Cecil text book of medicine
- Harrison text book of medicine
- Nursing skill and evaluation
- Review of practical nursing
- Medical and health encyclopedia
- French index of different diagnosis

PAPER FOT COMPREHENSIVE EXAM

1 Paper A vital signs/physical agents/infection/ CVS/RS/GIT.

2 paper B, blood, liver, NS, CT, DM, GUS.

Pattern: 30% MCQ

40 % Essay

30 % Viva

Total= 100 marks each paper

3rd semester

A) RESPIRATORY SYSTEM

Management and presentation

- T.B
- Pleural effusion
- Asthma
- Pneumonia
- Emphysema
- COPD

B) Cardiac vascular system

- Hypertension
- Ischemic heart disease
- Cardio-genic shock
- Heart failure
- Pneumatic fever with cardiac

C) NERVOUS SYSTEM

- CVA
- Meningitis
- Epilepsy
- Parkinsonism
- Heart injury

D) Gastro intestinal track

Management and prevention of:

- Gastritis
- Peptic ulcer
- Appendicitis
- Hemorrhoids
- Choly cystitis
- Hepatitis
- Cirrhosis liver

E) Bone and joints

- Sciatica

- Rheumatoid arthritis
- Septic arthritis
- Osteomyelitis

F) Infectious disease

Management and presentation of:

- Rubies
- Tetanus
- Food poisoning
- Malaria
- Rheumatic fever
- Hepatitis
- Measles
- Mumps
- Chicken pox
- Polio
- Hypoid fever
- Dysentery

G) URINARY TRACK DISEASE

Management and prevention of:

- Acute glomelero mephitis
- Renal colic
- UTI
- Ac urinary retention
- Nephrotics syndrome
- Acutry renal failure

H) Endocrlnogy

Management and prevention of:

- Diabetes mellitus
- Hyper thyroidism (thyroloxycosos)
- Coiler

I) Blood diseases

- Ariaciniias
- Leukemias

J) Poisoning

Management and prevention of

- Kerosene oil
- Opium
- Insect bite
- DDT

K) Miscellaneous

Management and prevention of

- Burns
- Fracture
- Shock
- Diarrhea and dehydration
- PEM (marasmas and kwashiorkor)
- Tonsillitis
- Coma
- Come its causes and management
- CPR

PROPOSED 4TH SEMESTER PLAN FOR HEALTH TECHNOLOGY

Students should be able to know the signs/symptoms of the important disease in community at various levels and apply clinical aids.

In this regards they will be on rotation in the following wards for 15 days.

- **Eye**
- **ENT**
- **Pediatrics**
- **Surgery**
- **Skin**

EYE

- They should acquire knowledge about common diseases of eye
- Information of conjuction
- Trachoma
- Pterygium
- Uveitis
- Extra ocular foreign bodies
- Injuries of the lids
- Dacrocystitis
- Cataract

ENT

- Boll in the ear
- Otitis externa
- Foreign bodies
- Acute supportive Otitis media
- Boll in the nose
- Epitaxis
- DNS
- Fracture in nose
- Rhinitis
- Sinusitis
- Diphtheria
- Tonsillitis
- Foreign bodies in the food packages
- Laryngitis
- Tracheotomy

Pediatrics

- Birth asphyxia
- Convulsion in the new born
- Jaundice in the new born
- Acute respiratory problem acute asthma/ pneumonia
- Diarrhea (G.E)
- P.U.O
- Meningitis

SKIN DERMATOLOGY

Common disease in the community, their identification and management.

Beside the students are to visit the following enters in order to have practical knowledge about:

- EPI-(DEC/JAN) – (15 days each)
- Immunity
 - Types of immunity
 - Natural
 - Acquired (active and passive)
 - Herd immunity

SURGERY

- Acute intestinal obstruction
- Acute appendicitis
- Acute choliystitis
- Pneumothorax
- Injuries to chest (first aid)
- Injuries to abdomen (first aid)
- Renal colic
- Acute urinary obstruction
- Haematuria
- Catheterization

VACCINE

- Cold chain and its maintenance schedule for EPI vaccines method of delivering practical participation with the EPI person.

MALARIA CONTROL PRGRAM

15 Days

- Blood slides preparation
- Identification of various malaria /parasites
- Schedules of drugs
- Practical training for the above

TB CONTROL

- Sputum side preparation
- Identification
- Schedules of drugs
- Practical training

رَبِّي زِدْنِي عِلْمًا

