

***Department of Nursing***  
***(Under Faculty of Medical Science)***  
***P.K.University***  
***Shivpuri (MP)***



***Scheme & Syllabus for B.Sc Nursing***  
***(Taken from Indian Nursing Council- INC)***

# **SCHEME OF EXAMINATION**

## **B.Sc. NURSING FIRST YEAR**

| <b>SUBJECT</b>      |  | <b>ASSESSMENT</b> |                 |                 |              |
|---------------------|--|-------------------|-----------------|-----------------|--------------|
| <b>SUBJECT CODE</b> | <b>THEORY</b>                                | <b>HOUR</b>       | <b>INTERNAL</b> | <b>EXTERNAL</b> | <b>TOTAL</b> |
| <b>BSC-N-101</b>    | ANATOMY &PHYSIOLOGY                          | 3                 | 25              | 75              | 100          |
| <b>BSC-N-102</b>    | NUTRITION & BIOCHEMISTRY                     | 3                 | 25              | 75              | 100          |
| <b>BSC-N-103</b>    | NURSING FOUNDATION                           | 3                 | 25              | 75              | 100          |
| <b>BSC-N-104</b>    | PSYCHOLOGY                                   | 3                 | 25              | 75              | 100          |
| <b>BSC-N-105</b>    | MICROBIOLOGY                                 | 3                 | 25              | 75              | 100          |
| <b>BSC-N-106</b>    | ENGLISH                                      | 3                 | 50              | -               | 50           |
| <b>BSC-N-107</b>    | INTRODUCTION TO COMPUTERS                    | -                 | 50              | -               | 50           |
| <b>BSC-N-108</b>    | PRACTICAL AND VIVA VOICE NURSING FOUNDATIONS | -                 | 100             | 100             | 200          |

## **B.Sc. NURSING SECOND YEAR**

| <b>SUBJECT</b>      |  | <b>ASSESSMENT</b> |                 |                 |              |
|---------------------|--|-------------------|-----------------|-----------------|--------------|
| <b>SUBJECT CODE</b> | <b>THEORY</b>  | <b>HOUR</b>       | <b>INTERNAL</b> | <b>EXTERNAL</b> | <b>TOTAL</b> |
| <b>BSC-N-201</b>    | SOCIOLOGY  | 3                 | 25              | 75              | 100          |
| <b>BSC-N-202</b>    | MEDICAL SURGICAL NURSING (ADULT INCLUDING GERIATRICS)-I                          | 3                 | 25              | 75              | 100          |
| <b>BSC-N-203</b>    | PHARMACOLOGY,PATHOLOGY &GENETICS   | 3                 | 25              | 75              | 100          |
| <b>BSC-N-204</b>    | COMMUNITY HEALTH NURSING-I   | 3                 | 25              | 75              | 100          |
| <b>BSC-N-205</b>    | COMMUNICATION AND EDUCATIONAL TECHNOLOGY   | 3                 | 25              | 75              | 100          |
| <b>BSC-N-206</b>    | PRACTICAL AND VIVA VOICE MEDICAL SURGICAL NURSING (ADULT INCLUDING GERIATRICS)-I |                   | 100             | 100             | 200          |

## B.Sc. NURSING THIRD YEAR

| SUBJECT          |   | ASSESSMENT |          |          |       |
|------------------|---|------------|----------|----------|-------|
| SUBJECT CODE     | THEORY  | HOUR       | INTERNAL | EXTERNAL | TOTAL |
| <b>BSC-N-301</b> | MEDICAL SURGICAL NURSING (ADULT INCLUDING GERIATRICS)-II                          | 3          | 25       | 75       | 100   |
| <b>BSC-N-302</b> | CHILD HEALTH NURSING  | 3          | 25       | 75       | 100   |
| <b>BSC-N-303</b> | MENTAL HEALTH NURSING   | 3          | 25       | 75       | 100   |
| <b>BSC-N-304</b> | NURSING RESEARCH & STATISTICS   | 3          | 25       | 75       | 100   |
| <b>BSC-N-305</b> | PRACTICAL AND VIVA VOICE MEDICAL SURGICAL NURSING (ADULT INCLUDING GERIATRICS)-II |            | 50       | 50       | 100   |
| <b>BSC-N-306</b> | PRACTICAL AND VIVA VOICE CHILD HEALTH NURSING                                     |            | 50       | 50       | 100   |
| <b>BSC-N-307</b> | PRACTICAL AND VIVA VOICE MENTAL HEALTH NURSING                                    |            | 50       | 50       | 100   |

## B.Sc. NURSING FOURTH YEAR

| SUBJECT          |  | ASSESSMENT |          |          |       |
|------------------|--|------------|----------|----------|-------|
| SUBJECT CODE     | THEORY   | HOUR       | INTERNAL | EXTERNAL | TOTAL |
| <b>BSC-N-401</b> | MIDWIFERY AND OBSTETRICAL NURSING                          | 3          | 25       | 75       | 100   |
| <b>BSC-N-402</b> | COMMUNITY HEALTH NURSING-II                                | 3          | 25       | 75       | 100   |
| <b>BSC-N-403</b> | MANAGEMENT AND NURSING SERVICES AND EDUCATION              | 3          | 25       | 75       | 100   |
| <b>BSC-N-404</b> | PRACTICAL AND VIVA VOICE MIDWIFERY AND OBSTETRICAL NURSING |            | 50       | 50       | 100   |
| <b>BSC-N-405</b> | PRACTICAL AND VIVA VOICE COMMUNITY HEALTH NURSING-II       |            | 50       | 50       | 100   |

## **ANNUAL SCHEDULE OF STUDY**

|  |                              |
|--|------------------------------|
| <b>COURSE DURATION</b>                         | <b>4 YEAR</b>                |
| <b>WEEKS AVAILABLE/YEAR</b>                    | <b>52 WEEKS</b>              |
| <b>VACATION</b>                                | <b>8 WEEKS</b>               |
| <b>GAZETTED HOLIDAY</b>                        | <b>3 WEEKS</b>               |
| <b>EXAMINATION (INCLUDING<br/>PREPARATORY)</b> | <b>4WEEKS</b>                |
| <b>AVAILABLE WEEKS</b>                         | <b>37 WEEKS</b>              |
| <b>HOURS PER WEEK</b>                          | <b>40 HOURS</b>              |
| <b>PRACTICAL</b>                               | <b>30 Hr./WK (5X6=30)</b>    |
| <b>THEORY</b>                                  | <b>10Hr./WK (2X5=10)</b>     |
| <b>INTERNSHIP</b>                              | <b>48 Hr./WK(8X6=48)</b>     |
| <b>HOURS AVAILABLE PER<br/>ACADEMIC YEAR</b>   | <b>1480<br/>(37WKX40Hr.)</b> |

**Department of Nursing**  
**P.K.University**  
**First Year**  
**Paper Code BSC-N-101: Anatomy & Physiology**

**Time : Theory - 60 hrs.**

**Unit**

**Content: Anatomy**

**Introduction to Anatomical terms organization of the human body**

- Human Cell structure  
Tissues-Definition, types, characteristics, classification, location, functions and formation  
Membranes and glands- classification and structure  
Alterations in disease  
Applications and implications in nursing

**The Skeletal System**

- Bones –types, structure, Axial & Appendicular Skeleton,  
Bone formation and growth  
Description of bones  
Joints – Classification and structure  
Alterations in disease  
Applications and implications in nursing

**The Muscular System**

- Types and structure of muscles  
Muscle group  
Alterations in disease  
Applications and implications in nursing

**IV. The Nervous system**

- Structure of neurologic & neurons  
Somatic Nervous system  
Structure of brain, spinal cord, cranial nerves, spinal nerves, peripheral nerves  
Autonomic nervous System- sympathetic, parasympathetic, Structure, location

Alterations in disease

Applications and implications in nursing

### **The Sensory Organs**

- Structure of skin, eye, ear, nose, tongue, (Auditory and olfactory apparatus)

Application in disease

Applications and implications in nursing

## **VI. Circulatory and lymphatic system**

- The Circulatory System

Blood – Microscopic structure

Structure of Heart

Structure of blood vessels - Arterial & Venous System,

Circulation – systemic, pulmonary, coronary Lymphatic system

Lymphatic vessels and lymph

- Lymphatic tissues

Thymus gland

Lymph nodes

Spleen

Lymphatic nodules

Alterations in disease

Applications and implications in nursing

## **VII. The Respiratory System**

Structure of the organs of respiration

Muscles of respiration: Intercostals and Diaphragm Alterations in disease

Applications and implications in nursing

## **VIII. The Digestive System**

Structure of alimentary tract and accessory organs of digestion Alterations in disease

Applications and implications in nursing

## **IX. The Excretory System (Urinary)**

Structure of organs of urinary System: Kidney, ureters, urinary bladder, urethra

Alterations in disease

Applications and implications in nursing

### **The Endocrine System**

Structure of Pituitary, Pancreas, thyroid, Parathyroid, thymus and adrenal glands

Alterations in disease

Applications and implications in nursing

### **XI. The Reproductive system**

Structure of female reproductive organs.

- Structure of male reproductive organs.
- Structure of breast

Alteration in disease

Applications and implications in nursing

**Time : Theory - 60 hrs.**

## **Content: Physiology**

### **Unit**

#### **Cell Physiology**

- Tissue-formation-repair  
Membranes & glands – functions

Alterations in disease

Applications and implications in nursing

#### **Skeletal System**

- Bone formation & Growth  
Bones – Functions and movements of axial and appendicular skeleton, bone healing
- Joints and joint movement

Alterations in disease

Applications and implications in nursing

#### **Muscular System**

Muscle movements, Muscle tone, Physiology of muscle contraction, levels and maintenance of posture

Alterations in disease

Applications and implications in nursing

#### IV. **Nervous System**

Functions of Neuroglia & neurons Stimulus & nerve-impulse-definitions and mechanism Functions of brain, spinal cord, renal and spinal nerves Cerebrospinal fluid-composition, circulation and function Reflex arc, Reflex action and reflexes Autonomic Functions Pain: somatic, visceral, and referred Autonomic learning and biofeedback

Alternations in disease

Applications and implications in nursing

#### **Circulatory System**

Blood formation, composition, blood groups, blood coagulation

Hemoglobin: Structure, synthesis and breakdown, Variation of molecules, estimation Functions of Heart, Conduction, Cardiac cycle, circulation - Principles, Control, factors influencing BP and Pulse

Alternations in disease

Applications and implications in nursing

#### VI. **The Respiratory System**

Functions of respiratory organs

Physiology of respiration

Pulmonary ventilation, Volume

- Mechanics of respiration
  - Gaseous exchange in lungs
  - Carriage of oxygen & carbon-dioxide
  - Exchange of gases in tissues
- Regulation of respiration

Alternations in disease

Applications and implications in nursing

#### VII **The Digestive system**

Functions of organs of digestive tract. Movements of alimentary tract, Digestion in mouth, stomach, small intestines, Large intestines, Absorption of food. Functions of liver, gall bladder and pancreas Metabolism of carbohydrates. Protein and fat

#### VIII. **The Excretory System**

Functions of kidneys, ureters, urinary bladder & urethra Composition of urine



Mechanism of urine formation

Functions of skin as excretory organ

Regulation of body temperature

Fluid and electrolyte balance.

Alterations in disease

Applications and implications in nursing

## **IX The Sensory Organs**

Functions of skin, eye, ear, nose, tongue.

Alterations in disease

Applications and implications in nursing

## **X. The Endocrine System**

Functions of Pituitary, pineal body, thymus, Thyroid, parathyroid,  
pancreas, Suprarenal, Placenta and ovaries & Testes

Alterations in disease

Applications and implications in nursing

## **XI. The Reproductive System**

Reproduction of cells–DNA, Mitosis, Meiosis, spermatogenesis, oogenesis.

Functions of female reproductive organs; Functions of breast, female sexual cycle.

Functions of male reproductive organs, male functions in reproduction, male fertility  
system.

Alterations in disease

Applications and implications in nursing

## **XII. Lymphatic and Immunological System**

Circulation of lymph

Immunity

Formation of T-cells and B cells

Types of immune response

Antigens

Cytokines

Antibodies

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-102: Nutrition & Biochemistry***

Time : Practical - 60 hrs.

## **Content: Nutrition**

### **Unit**

#### **Introduction**

- Nutrition:
  - History
  - Concepts
  - Role of nutrition in maintaining health
  - Nutritional problems in India
  - National nutritional policy
  - Factors affecting food and nutrition : socio-economic, cultural, tradition, production, system of distribution, life style and food habits etc. including changes caused by agriculture, overgrazing, fertilizer pesticide problems, water logging and salinity.
  - Role of food and its medicinal value
  - Classification of foods,
  - Food standards
  - Elements of nutrition: macro and micro
  - Calorie, BMR

#### **II. Carbohydrates**

- Classification
- Caloric value
- Recommended daily allowances
- Dietary sources
- Functions
- Digestion, absorption and storage, metabolism of carbohydrates
- Malnutrition: Deficiencies and Over consumption

## **Fats**

Classification

Caloric Value

Recommended daily allowances

Dietary sources

Functions' Digestion, absorption and storage, metabolism

Malnutrition: Deficiencies and over consumption

## **IV. Proteins**

Classification

Caloric Value

- Recommended daily allowances
- Digestion, absorption, metabolism and storage
- Malnutrition : Deficiencies and over consumption

## **Emergency**

Unit of Energy – Kcal

Energy requirements of different categories of people

Measurements of energy

Body Mass Index (BMI) and basic metabolism

Basal Metabolic Rate (BMR) – determination and factors affecting

## **VI. Vitamins**

Classification

Recommended daily allowances

- Dietary sources

Functions

Absorption, synthesis, metabolism storage and excretion

Deficiencies

Hyper Vitaminosis

## **VII. Minerals**

Classification

Recommended daily allowances

Dietary sources

Functions

Absorption, synthesis, metabolism storage and excretion

Deficiencies

Over consumption and toxicity

### **VIII. Water & Electrolytes**

Water: Daily requirements, regulation of water metabolism, distribution of body water.

Electrolytes: Types, sources, composition of body fluids

Maintenance of fluid & electrolyte balance

Over hydration, dehydration and water intoxication

- Electrolyte imbalances

### **IX. Cookery rules and preservation of nutrients**

Principles, methods of cooking and serving Preservation of nutrients

Safe food handling – toxicity

Storage of food

Food preservation, food additives and its principles

Prevention of food adulteration Act (PFA)

- Food standards
- Preparation of simple beverages and different types of food allowance

### **X Balance Diet**

Elements

Food Groups

Recommended daily allowance

Nutritive value of foods

Calculation of balanced diet for different categories of people

Planning menu

Budgeting of food

Introduction to therapeutic diets: Naturopathy – Diet

### **XI. Role of nurse in nutritional programmes**

World Food Problems

National programmes related to nutrition

Vitamin A deficiency programme

National iodine deficiency disorders (IDD) programme

Mid-day meal programme

Integrated child development scheme (ICDS)

National and International agencies working towards food/nutrition

NIPCCD, CARE, FAQ, NIN, CFTRI (Central food technology and research institute) etc.

Assessment of nutritional status

- Nutrition education and role of nurse

Time : Practical - 30 hrs.

## **Content: Biochemistry**

### **Unit**

#### **Introduction**

- Definition and significances in nursing  
Review of structure, composition and functions of cell  
Prokaryote and Eukaryote cell organization  
Microscopy

#### **II. Structure and functions of cell membrane**

Fluid mosaic model tight junction, Cytoskeleton

Transport mechanism: diffusion, osmosis, filtration, active channel, sodium pump

Acid base balance-maintenance & diagnostic

test □ PH buffers

#### **Composition and metabolism of Carbohydrates**

Types, structure, composition and uses

Monosaccharides, Disaccharides, Polysaccharides, Oligosaccharides

Metabolism

Pathways of glucose :

Glycolysis

Gluconeogenesis : Cori's cycle, Tricarboxylic acid (TCA) cycle

Glycogenolysis

Pentose phosphate pathways (Hexose mono phosphate)

Regulation of blood glucose level

Investigations and their interpretations

#### **IV. Composition and metabolism of Lipids**

Types, structure, composition and uses of fatty acids

□ Nomenclature, Roles and Prostaglandins

Metabolism of fatty acid

Breakdown

Synthesis

Metabolism of triacylglycerols

Cholesterol metabolism

- Biosynthesis and its Regulation - Bile Salts and bilirubin

- Steroid hormones

- **Lipoproteins and their functions :**

VLDLs-IDLs, LDLs and HDLs

Transport of lipids

Atherosclerosis

Investigations and their interpretations

#### **Composition and metabolism of Amino acids and Proteins**

Types, structure, composition and uses of Amino acids and proteins

Metabolism of Amino acids and proteins

Protein synthesis, targeting and glycosylation

Chromatography

Electrophoresis

Sequencing

Metabolism of nitrogen

Electrophoresis

Sequencing

Metabolism of Nitrogen

Fixation and Assimilation

Urea Cycle

Hemes and Chlorophylls

Enzymes and co-enzymes

Classification

Properties

Kinetics and inhibition

Control

Investigations and their Interpretations

## **VI. Composition of Vitamins and minerals**

Vitamins and minerals:

Structure

Classification

Properties

- Absorption
- Storage & transportation

Normal concentration

Investigations and their interpretations

## **VII. Immune chemistry**

Immune response,

Structure and classification of immunoglobins

Mechanism of antibody production

- Antigen: HLA typing.

Free radical and antioxidants

Specialised protein: Collagen, Elastin, Keratin, Myosin, Lens Protein.

Electrophoretic and Quantitative determination of immunoglobins – ELISA etc. Investigations and their Interpretations

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-103: Nursing Foundations***

Time: Theory - 265 hrs.

Practical – 650  
(200 lab and 450 clinical)

**Unit**

**Content**

**Introduction**

Concept of Health: Health-Illness continuum

Factors influencing health

Causes and risk factors for developing illness

Body defenses: Immunity and immunization

Illness and illness Behavior :

Impact of illness on patient and family

Health Care Services: Health Promotion and Prevention, Primary Care, Diagnosis,  
Treatment, Rehabilitation and Continuing Care

Health Care teams

Types of health care agencies:

Hospitals: Types, Organization and Functions

Health Promotion and levels of Disease Prevention

Primary Health care and its delivery: role of nurse

**Nursing as a Profession**

Definition and Characteristics of a profession

Nursing:

Definition, Concepts, Philosophy, Objectives

Characteristics, nature and scope of nursing practice

Functions of nurse

Qualities of a nurse

Categories of nursing personnel

Nursing as a profession



- History of Nursing in India

Values: Definition, Types

Ethics:

Definition and Ethical principles

Code of ethics and professional conduct for nurses

### **III. Hospital admission and discharge**

- Admission to the hospital

- Unit and its preparation admission bed

Admission procedure

Special considerations

Medico-legal issues

Roles and Responsibilities of the nurse

Discharge from the hospital

Types: Planned discharge LAMA and abscond, Referrals and transfer

Discharge Planning

Discharge procedure

Special considerations

Medico-legal issues

Role and Responsibilities of the nurse

Care of the unit after discharge

### **IV. Communication and Nurse patient relationship**

Communication: Levels, Elements, Types, Modes, Process, Factors influencing  
Communication

Methods of Effective Communication,

Attending skills

Rapport building skills

Empathy skills

Barriers to effective communication,

Helping Relationship (NPR): Dimensions of Helping Relationship, Phases of a  
helping relationship

Communicating effectively with patient, families and team members and maintain effective  
human relations with special reference to communicating with vulnerable

group (children, woman, physically and mentally challenged and elderly)

Patient Teaching: Importance, Purposes, Process, role of nurse and integrating teaching in nursing process.

## **The Nursing Process**

### Critical thinking and Nursing Judgment

Critical Thinking: Thinking and Learning,

Competencies, Attitudes for Critical Thinking, Levels of critical thinking in Nursing

### **Nursing Process Overview: Application in Practice**

Nursing Process format: INC, current format

#### Assessment

Collection of Data: Types, Sources, Methods

Formulating nursing judgment: Data Interpretation

#### Nursing diagnosis

Identification of client problems

Nursing diagnosis statement

Difference between medical and nursing diagnosis

#### Planning

Establishing Priorities

Establishing Goals and Expected Outcomes,

Selection of intervention: Protocols and standing orders

Writing the nursing care plan

#### Implementation

Implementing the plan of care

#### Evaluation

Outcome of care

Review and Modification

#### Documentation and Reporting

## **VII Documentation and Reporting**

Documentation : Purpose of Recording and reporting

Communication within the Health Care Team,

Types of records; ward records medical/nursing records,

Common record-keeping forms, Computerized documentation

Guidelines for Reporting: Factual Basis, Accuracy, Completeness Currentness,  
Organizaiton, confidentiality  
Methods, confidentiality  
Methods of Recording,  
Reporting: Transfer reports, Incident reports  
Minimizing legal Liability through effective record keeping

## VII **Vital signs**

- **Guidelines for taking vital signs:**

- **Body temperature:**

Physiology, Regulation, Factors affecting body temperature,  
Assessment of body temperature: sites, equipments and technique, special considerations  
Temperature alterations: Hyperthermia, Heatstroke, Hypothermia  
Hot and cold applications

- **Pulse:**

Physiology and Regulation, Characteristics of the pulse, Factors affecting pulse  
Assessment of pulse: sites, location, equipments and technique, special considerations  
Alterations in Pulse

**Respiration:**

Physiology and Regulations, mechanics of Breathing Characteristics of the respiration, Factors affecting respiration  
Assessment of respirations: technique, special considerations  
Alterations in respiration

**Blood pressure:**

Physiology and Regulation, Characteristics of the blood pressure, Factors affecting blood pressure  
Assessment of blood pressure: sites, equipments and technique, special considerations  
Alterations in blood pressure

**Recording of vital signs**

## **VIII Health Assessment**

Purposes

Process Health assessment

Health history

Physical examination:

Methods-Inspection, Palpation, Percussion, Auscultation, Olfaction

- Preparation for examination: patient and unit
- General assessment
- Assessment of each body system

Recording of health assessment

## **IX Machinery, Equipment and linen**

Types: Disposables and reusable – Lines, rubber goods, glass ware, metal, plastics, furniture, machinery

Introduction :

Maintenance

Inventory

## **X Meeting needs of patient**

Basic needs (Activities of daily living)

Providing safe and clean environment:

Physical – environment: Temperature, Humidity, Noise, Ventilation, light, Odour, pests control

Reduction of Physical hazards: fire, accidents

Safety devices' Restraints, side rails, airways, trapez etc

Role of nurse in providing safe and clean environment

Hygiene :

Factors Influencing Hygienic Practice

Hygienic Care: Care of the Skin-Bath and Pressure points, feet and nail, Oral cavity, Hair Care, Eyes, Ears, and Nose

- Assessment, Principles, Types, Equipments, procedure, Special considerations

Patient environment: Room Equipment and linen, making patient beds

Types of beds and bed making

Comfort:-

Factors Influencing Comfort

Comfort devices

Physiological needs:

Sleep and Rest:

- Physiology of sleep
- Factors affecting sleep
- Promoting Rest and sleep

Sleep Disorders

Nutrition :-

Importance Factors affecting nutritional needs

Assessment of nutritional needs: Principles, equipments, procedure and special considerations

Oral

Enteral: Naso/Orogastric, gastrostomy

Urinary Elimination

Review of Physiology of Urinary Elimination, Composition and characteristics of urine

Factors Influencing urination

Alteration in Urinary Elimination

Types and Collection of urine specimen:

Observation, urine testing

Facilitating urine elimination: assessment, types, equipments, procedures and special considerations

Providing urinal/bed pan

Condom drainage

Perineal care

Catheterizaion

Care of urinary drainage

Care of urinary diversions

Bladder irrigation

## Bowel Elimination

Review of Physiology of Bowel Elimination, Composition and Characteristics of faeces

Factors affecting Bowel elimination

Alteration in Bowel elimination

Types and collection of specimen of faeces: Observation

Facilitating bowel elimination : assessment, equipments, procedure and special considerations

- Passing of Flatus tube
  - Enemas
  - Suppositories
  - Sitz bath
  - Bowel wash
  - Care of Ostomies

## Principles of Body Mechanics

Maintenance of normal body Alignment and mobility

Factors affecting body Alignment and mobility

Hazard associated with immobility

Alteration in body Alignment and mobility

Nursing interventions for impaired Body Alignment and Mobility: assessment, types, devices used, method and special considerations, rehabilitation aspects

- Range of motion exercises
- Maintaining body alignment: Positions
- Moving
- Lifting
- Transferring
- Walking
- Restraints

## Oxygenation

Review of Cardiovascular and respiratory Physiology

Factors Affecting Oxygenation

Alterations in oxygenation: assessment, types, equipment used,  
procedure and special considerations

Maintenance of patent airway

Oxygen administration

Suction

Inhalations: dry and moist

- Chest physiotherapy and postural drainage
- Care of chest drainage
- Pulse oximetry

CPR – Basic life support

Fluid, Electrolyte, and Acid

Base Balances

Fluid, Electrolyte, and Acid, Base Balances

Review of Physiological Regulation of Fluid, Electrolyte, and Acid  
Factors Affecting Fluid, Electrolyte, and Acid- Base Balances

Alterations in Fluid, Electrolyte – Base Balances

Nursing interventions in Fluid, Electrolyte, and Acid

Base Imbalances: assessment, types, equipment, procedure and  
special considerations

○ Measuring fluid intake and output

○ Correcting fluid, Electrolyte Imbalance:

- Replacement of Fluids: Oral and Parenteral- Venipuncture,  
regulating IV flow rates, changing IV solutions and tubing Changing  
IV dressing,

Administering Blood transfusion

Restriction of fluids

Psychosocial Needs

Concepts of Cultural Diversity, stress and Adaptation, Self-concept,  
Sexuality, Spiritual Health, coping with loss, death and grieving

Assessment of psychosocial needs

Nursing interventions for psychosocial needs

Assist with coping an adaptation

-Creating therapeutic environment  
Recreational and diversional therapies

## **XI Infection control in Clinical settings**

Infection Control

Nature of infection

Chain of infection transmission

Defenses against infection: natural and acquired  Hospital acquired  
infection (Nosocomial infection)

Concept of asepsis: medical asepsis, and surgical asepsis

/Isolation precaution (Barrier nursing):

Hand washing: simple, hand antisepsis and surgical antisepsis (scrub)

Isolation: source and protective

Personal protecting equipments: types, uses and technique of wearing  
and removing

Decontamination of equipment and unit

Transportation of infected patients

Standard safety precautions (Universal Precautions)

Transmission based precautions

Biomedical waste management:

Importance

Types of hospital waste

Hazards associated with hospital waste

Decontamination hospital waste

Segregation and Transportation of disposal

## **XII Administration of Medications**

General Principles/Considerations

Purposes of Medication

Principles: 5 rights, Special Considerations, Prescriptions, Safety in  
Administering Medications and Medication Errors

Drug forms

Routes of administration

Storage and maintenance of drugs and Nurses responsibility

Broad classification of drug



Therapeutic Effect, Side Effects, Toxic Effects, Idiosyncratic Reactions,  
Allergic Reactions, Drug Tolerance, Drug Interactions,  
Factors Influencing drug Actions,

Measurement: Metric System, Apothecary System, Household  
Measurements, solutions.

Converting Measurements Units: Conversion within one system,

Terminologies and abbreviation used in prescriptions of medications

Oral Drugs Administration: Oral, Sublingual and Buccal: Equipment, procedure

Parenteral

General principles: decontamination and disposal of syringes and needles

Types of parenteral therapies

Types of syringes, needles, canula, and infusion sets

Protection from Needle stick Injuries: Giving Medications with a safety  
syringes

Routes of parenteral therapies

Intradermal: procedure, special considerations

Subcutaneous purpose, site, equipment, procedure, special  
considerations

Intramuscular : purpose, site, equipment, procedure, special  
Considerations

Advanced techniques: Epidural, intrathecal, intraosseous,  
intraperitoneal, intraplural, intraarterial-Role of nurse

Topical Administration: Purposes, site, equipment, procedure, special  
considerations for

Application to Skin

Application to mucous membrane

Direct application of liquids-gargle and swabbing the throat

Insertion of Drug into body cavity: Suppository/medicated packing  
in rectum/vagina

Instillations: Ear, Eye, Nasal, Bladder, and Rectal

Irrigations: Eye, Ear, Bladder, Vaginal and Rectal

Spraying: Nose and throat

Inhalation, Nasal, oral endotracheal/tracheal (steam oxygen and medications) – purposes, type, equipment, procedure, special considerations

Recording and reporting of medications administered

### **XIII Meeting needs of Preoperative patients**

Definitions and concept of preoperative Nursing

Preparation of patient for surgery

● **Intraoperative**

Operation theatre Set up and environment

Role of nurse

Postoperative phase

Recovery unit

Post operative unit

Postoperative care

Wounds: types, Classification, wound Healing Process, Factors affecting Wound,

Complications of Wound Healing

Surgical asepsis

Care of the wound: types, equipments, procedure and special considerations

Dressings, Suture Care,

Care of Drainage

Application of Bandages, Binders, Splints & Slings

Heat and cold Therapy

### **XIV Meeting special needs of the patient**

Care of patients having alteration in –

Temperature (hyper and hypothermia); Types, Assessment, Management

Sensorium (Unconsciousness); Assessment, Management

Urinary Elimination (retention and incontinence); Assessment, management

Functioning of sensory organs; (Visual & hearing impairment)

Assessment of Self-Care ability

Communication methods and special considerations

Mobility (physically challenged, cast), assessment of Self-Care ability:

Communication methods and special considerations

Mental state (mentally challenged), assessment of Self-Care ability;  
Communication methods and special considerations:  
Respiration (distress); Types, Assessment, management  
Comfort – (Pain)-Nature, Types, factors influencing Pain, Coping,  
Assessment, Management;  
Treatments related to gastrointestinal system: nasogastric suction, gastric  
irrigation, gastric analysis

## **XV Care of Terminally ill patient**

- Concepts of Loss, Grief, grieving Process
  - Signs of clinical death
  - Care of dying patient: special considerations
- Advance directives: euthanasia, will, dying declaration, organ donation etc
- Medico legal issues
- Care of dead body: equipment, procedure and care of unit Embalming

## **XVI Professional Nursing concepts and practices**

Conceptual and theoretical models of nursing practice: Introduction to models  
holistic model, health belief model, health promotion model etc  
Introduction to theories in Nursing; Peplau's, Henderson's Orem's, Neuman's,  
Roger's and Roy's  
Linking theories with nursing process

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-104: Psychology***

Time : Theory - 60 hrs.

| <b>Unit</b> | <b>Content</b>  |
|-------------|---|
| <b>I</b>    | <b>Introduction</b> <ul style="list-style-type: none"><li>● History and origin of science of psychology</li><li>● Definitions &amp; Scope of Psychology</li><li>● Relevance to nursing</li><li>● Methods of Psychology</li></ul>  |
| <b>II</b>   | <b>Biology of behaviour</b> <p>Body mind relationship modulation process in health and illness<br/>Genetics and behaviour: Heredity and environment' Brain and behaviour: Nervous system, Neurons and synapse,<br/>Association with cortex, Rt and Lt Hemispheres<br/>Psychology of Sensations<br/>Muscular and glandular controls of behaviour<br/>Nature of behaviour of an organism/Integrated response</p>  |
| <b>III</b>  | <b>Cognitive processes</b> <p>Attention: Types, determinants, Duration &amp; degree, alterations<br/>Perception: Meaning, Principles, factors affecting, Errors,<br/>Learning: Nature, Types, learner and learning, factors influencing, laws and theories, process, transfer, study habits<br/>Memory: Meaning, Types, Nature, factors influencing, Development Theories and methods of memorizing and Forgetting<br/>Thinking: Types and levels, stages of development, Relationship with language and communication<br/>Intelligence: Meaning, classification, uses, theories<br/>Aptitude: Concept, types Individual differences and variability<br/>Psychometric assessment of cognitive processes<br/>Alterations in cognitive processes<br/>Applications</p> |

#### **IV Motivation and Emotional Processes**

Motivation: Meaning, concepts, Types, Theories, Motives and behaviour, Conflicts and frustration, conflict resolution

Emotions & stress

- Emotion: Definition, components, Changes in emotions, theories, emotional adjustments, emotions in health and illness
  - Stress: stressors, cycle, effect, adaptation & coping
  - Attitude: Meaning, nature, development, factors affecting,
    - Behaviour and attitudes
    - Attitudinal change
- Psychometric assessments of emotions and attitudes
- Alterations in emotions
- Application

#### **Personality**

- Definitions, topography, types, theories
- Psychometric assessments of personality
- Alterations in personality
- Applications

#### **VI Development Psychology**

Psychology of people at different ages from infancy to old age

Psychology of vulnerable individuals – challenged, woken, sick, etc.

Psychology of groups

#### **VII Mental hygiene and mental Health**

Concepts of mental hygiene and mental health

Characteristics of mentally healthy person

Warning signs of poor mental health

Promotive and preventive mental health strategies and services

Ego Defense mechanisms and implications

Personal and social adjustments

Guidance and counseling

Role of nurse

#### **VIII Psychological assessment & tests**

Types, development, Characteristics, Principles, Uses, Interpretations and role of nurse in psychological assessment

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-105: Microbiology***

Time : Theory - 60 hrs. (Theory 45+15 lab)

**Unit**

**Content**

**Introduction:**

- Importance and relevance to nursing
- Historical perspective
- Concepts and terminology
- Principles of microbiology

**II General Characteristics of Microbes**

- Structure and classification of microbes
- Morphological types
- Size and forms of bacteria
- Motility
- Colonization
- Growth and nutrition of microbes
- Temperature
- Moisture
- Blood and body fluids
- Laboratory methods for Identification of Microorganisms
- Staining techniques, Gram staining, Acid fast staining, Hanging drop preparation
- Culture; various medias

**III Infection Control**

- Infection: Sources, portals of entry and exit, transmission
- Asepsis
- Disinfections; Types and methods
- Sterilization; types and methods
- Chemotherapy and antibiotics
- Standard safety measures
- Biomedical waste management

Role of Nurse

Hospital acquired infection

Hospital infection control programme

Protocols, collection of samples, preparation of report and status of rate of infection in the unit/hospital, nurse's accountability, continuing education etc.

#### **IV Pathogenic organisms**

Micro-organism

- Cocci-gram positive and gram negative
- Bacilli-gram positive and gram negative
- Spirochete
- Mycoplasma
- Rickettsiae
- Chlamydiae

Viruses

Fungi-Superficial and Deep mycoses

Rodents & vectors Characteristics, Source, portal of entry, transmission of infection

Identification of disease Producing micro-organisms

Collection, handling and transportation of various specimens

#### **V Immunity**

Immunity – Types, classification

Antigen and antibody reaction

Hypersensitivity – skin test

Serological test

Immunoprophylaxis

Vaccines & sera-Types & classification, storage and handling, cold chain

Immunization for various disease

Immunization Schedule

***Department of Nursing***  
***P.K.University***  
***Paper Code: BSC-N-106: English***

Time: Theory - 60 hrs.

| <b>Unit</b> | <b>Content</b>   |
|-------------|--|
| I.          | <ul style="list-style-type: none"><li>● Review of Grammar</li><li>● Remedial study of Grammar</li><li>● Building Vocabulary</li><li>● Phonetics</li><li>● Public Speaking</li></ul>  |
| II.         | <ul style="list-style-type: none"><li>● Read and comprehend prescribed course books</li></ul>  |
| III.        | <ul style="list-style-type: none"><li>● <b>Various forms of composition</b><ul style="list-style-type: none"><li><input type="checkbox"/> Letter writing</li><li><input type="checkbox"/> Note taking</li><li><input type="checkbox"/> Précis writing</li><li><input type="checkbox"/> Nursing notes</li><li><input type="checkbox"/> Anecdotal records</li><li><input type="checkbox"/> Diary writing</li><li><input type="checkbox"/> Reports on health problems etc.</li><li><input type="checkbox"/> Resume/CV</li></ul></li></ul> |
| IV.         | <ul style="list-style-type: none"><li>● <b>Spoken English</b><ul style="list-style-type: none"><li>Oral report</li><li>Discussion</li><li>Debate</li><li>Telephone conversation</li></ul></li></ul>  |
| V.          | <ul style="list-style-type: none"><li>● <b>Listening Comprehension</b><ul style="list-style-type: none"><li>Media, audio, video, speeches etc.</li></ul></li></ul>   |



***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-107: Introduction to Computer***

Time : Theory – 45 Hrs.

| <b>Unit</b> | <b>Content</b>  |
|-------------|---|
|             | <b>Introduction:</b>  |
|             | <ul style="list-style-type: none"><li>● Concepts of computers<br/>Hardware and software; trends and technology<br/>Application of computer in nursing</li></ul>   |
| II ●        | Introduction to disk operating system   |
|             | <ul style="list-style-type: none"><li><input type="checkbox"/> DOS</li><li><input type="checkbox"/> Windows (all version)</li></ul>   |
|             | Introduction  |
|             | <ul style="list-style-type: none"><li><input type="checkbox"/> MS-Word</li><li><input type="checkbox"/> MS-Excel with pictorial presentation</li><li><input type="checkbox"/> MS-Access</li><li><input type="checkbox"/> MS-Power Point</li></ul> |
| III         | <ul style="list-style-type: none"><li>● Multimedia; types &amp; uses</li><li>● Computer aided teaching &amp; testing</li></ul>  |
| IV          | <ul style="list-style-type: none"><li>● Use of Internet and: e-mail</li></ul>   |
| V           | <ul style="list-style-type: none"><li>● Statistical packages: Types and their features</li></ul>  |
| VI          | <ul style="list-style-type: none"><li>● Hospital Management system: Types and uses</li></ul>  |

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-108: Nursing Foundations***  
***Practical***

Time : Practical - 650 hrs.  
(200 lab and 450 clinical)

| <b>Unit</b> | <b>Skills to be developed</b>  |
|-------------|--|
| <b>I</b>    | <b>Hospital Admission and discharge</b> <ul style="list-style-type: none"><li>● Admission</li><li>● Prepare unit for new patient</li><li>● Prepare admission bed</li><li>● Performs admission procedure<ul style="list-style-type: none"><li><input type="checkbox"/> New patient</li><li><input type="checkbox"/> Transfer in</li></ul></li><li>● Prepare patient records</li></ul> <b>Discharge/Transfer out</b> <p>Gives discharges counseling</p> <p>Perform discharge procedure (Planned discharge, LAMA and abscond, Referrals and transfer)</p> <p>Prepare records of discharge/transfer</p> <p>Dismantle, and disinfect unit and equipment after discharge/transfer</p> <b>Perform Assessment</b> <p>History taking, Nursing diagnosis, problem list, prioritization, Goals &amp; Expected Outcomes, selection of interventions</p> <p>Write nursing care plan</p> <p>Gives care as per the plan</p> <b>Communication</b> <p>Use verbal and non verbal communication techniques</p> <b>Prepare a plan for patient teaching session</b> |
|             | <b>Write patient report</b> <p>Change – shift reports, Transfer reports, Incident reports etc.</p> <p>Presents patient report</p>  |

Measure, Records and interpret alterations in body temperature, pulse respiration and blood pressure

### **Heath Assessment**

Health history taking

Perform assessment:

General

Body systems

Use various methods of physical examination

Inspection, Palpation, Percussion, Auscultation, Olfaction

Identification of system wise deviations

### **Prepare Patient's Unit:**

- Prepare beds:
  - Open, closed, occupied, operation, amputation
  - Cardiac, fracture, burn, Divided, Fowlers, renal bed
- Pain assessment and provision for comfort

### **Use comfort devices Hygienic care:**

Oral hygiene:

Baths and care of pressure points

Hair wash, Pediculosis treatment

### **Feeding:**

Oral, Enteral, Naso/orogastric, gastrostomy and Parenteral feeding

Naso-gastric insertion, suction, and irrigation

### **Assisting patient in urinary elimination**

Provides urinal/bed pan

Condom drainage

Perineal care

Catheterization

Care of urinary drainage

### **Bladder irrigation Assisting bowel Elimination:**

***Department of Nursing***  
***P.K.University***  
***Second Year***  
***Paper Code BSC-N-201: Sociology***

Time : Theory – 60 Hrs.

| <b>Unit</b> | <b>Content</b>  |
|-------------|---|
|             | <b>Introduction:</b>  |
| 1 hrs.      | <ul style="list-style-type: none"><li>● Definition of Sociology</li><li>Nature and Scope of the discipline</li><li>Importance and application of Sociology in Nursing</li></ul>   |
|             | <b>II. Individual &amp; Society</b>   |
| 3 hrs.      | <ul style="list-style-type: none"><li>● Social and community</li><li>● Nature of Society</li><li>Difference between Society and community</li><li>Process of Socialization and individualization</li><li>Personal disorganization</li></ul>   |
|             | <b>III. Culture</b>   |
| 3 hrs.      | <ul style="list-style-type: none"><li>● Nature of culture</li><li>Evolution of culture</li><li>Diversity and uniformity of culture</li><li>Biodiversity and its conservation<ul style="list-style-type: none"><li>Definition-definition, species and ecosystem diversity</li><li>Biogeographical classification of India</li><li>Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values</li><li>Biodiversity at global, National and local levels, hotspots</li><li>Threats : habitat loss, poaching of wildlife, man-wildlife conflicts</li><li>Endangered and endemic species of India</li><li>Conservation of Biodiversity: In-situ and ex-situ conservation of biodiversity.</li></ul></li><li>Culture and socialization</li><li>Transcultural society</li></ul> |

Influence on health and disease

#### **IV. Social groups and Processes**

- 4 hrs. ● The meaning and classification of groups
- Primary & Secondary group
  - In-group V/s. Out-group, class Tribe, Caste
  - Economic, Political, Religious groups, Mob, Crowd, Public and audience Interaction & Social Processes
  - Co-Operation, Competition, Conflict
  - Accommodation, Assimilation & Isolation

#### **Population**

- 6 hrs ● Society and population
- Population distribution in India. Demographic Characteristics
  - Malthusian theory of Populations
  - Population explosion in India and its impact on health status
  - Family welfare programme

#### **VI. Family and Marriage**

- 5 hrs. ● Family –functions
- Types-joint, Nuclear, Blended and extended family:
  - The modern Family-Changes, Problems-Dowry etc., Welfare Services
  - Changes & legislations on family and marriage in India-marriage acts
  - Marriage: Forms and functions of marriage,
  - Marriage and family problems in India
  - Family, marriage and their influence on health and health practices

#### **VII. Social Stratification**

- 7 hrs ● Meaning & types of social stratification
- The Indian Caste System-origin & features
  - Features of Caste in India today
  - Social Class system and status
  - Social Mobility-Meaning & Types
  - Race as a biological concept, criteria of racial classification
  - Salient features of Primary races-Racism
  - Influence of Class, Caste and Race on health and health practices

#### **VIII Types of Communities in India (Rural, Urban and Regional)**

- 6 hrs ● Features of village community & Characteristics of Indian villages-Panchayat system, social dynamics
- Community Development project & Planning
  - Changes in Indian Rural life
  - Availability of health facilities in rural and its impact on health and health practice
  - Urban-Community – features
  - The growth of cities: Urbanization and its impact on health and health practices
  - Major Urban problems – Urban slums, Energy problem, water problem
  - Environmental pollution: cause effect, control and prevention.
  - Region: Problems and impact on Health

### IX **Social Change**

- 4 hrs ● Nature and process of social change
- Factors influencing social change: cultural change, cultural lag.
  - Introduction to Theories of social change: Linear, Cyclical, Marxian, Functional
  - Resentment and rehabilitation of people, its problems and concern

Role of nurse-Change agents

#### **Social organization and social system**

- 4 hrs ● Social organization: elements, types
- Democratic and authoritarian modes of participation
  - Voluntary associations
  - Social system: definition and Types of social system
  - Role and status as structural elements of social system
  - Inter-relationship of institution

### XI **Social Control**

- 2 hrs ● Nature and process of social control
- Political, legal, Religious, Educational, Economic, Industrial and technological systems, Norms & Values-folkways & Mores customs, Laws and fashion

Role of nurse

### XII **Social Problem**

- 15 hrs ● Social disorganization
- Control & Planning: poverty, housing, illiteracy, food supplies, prostitution, rights of women & children, vulnerable groups: Elderly, handicapped, minority groups and other marginalized groups, child labour, child abuse, delinquency and crime, substance, abuse, HIV/AIDS.

Social welfare programmes in India.

Role of Nurse.

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-202: Medical Surgical Nursing***  
***(Adult including Geriatrics) – I***

Time : Theory - 210 hrs.  
Practical - 720 hrs.

| <b>Unit</b>     | <b>Content</b>   |
|-----------------|--|
| I<br>15<br>hrs. | <p><b>Introduction:</b></p> <ul style="list-style-type: none"><li>● Introduction to medical surgical nursing – Evolution and trends of medical and surgical nursing</li></ul> <p>Review of Concepts of Health and illness, Disease – concepts, causations, classification- International Classification of Diseases (ICD – 10 or later version), Acute illness chronic illness &amp; Terminal illness, stages of illness</p> <p>Review of concepts of comprehensive nursing care in medical surgical conditions based on nursing process.</p> <p>Role of nurse, patient and family in care of adult patient</p> <p>Role and responsibilities of a nurse in medical surgical settings:</p> <ul style="list-style-type: none"><li>Outpatient department</li><li>In-patient unit</li><li>Intensive care unit.</li><li>Home and community setting</li></ul> <p>Introduction to medical surgical asepsis</p> <ul style="list-style-type: none"><li>Inflammation and infection</li><li>Immunity</li><li>Wound healing</li></ul> <p>Care of surgical patient</p> <ul style="list-style-type: none"><li>Pre-operative</li><li>Intra operative</li><li>Post operative</li></ul> |

### **Common signs and symptoms and management**

- 15 hrs.
- Fluid and electrolyte imbalance
  - Vomiting
- Dyspnea and cough, respiratory obstruction
- Fever
- Shock
- Unconsciousness, syncope
- Pain
- Incontinence
- Edema
- Age related problems-geriatric

### **III Nursing management of patients (adults including elderly) with respiratory problems**

- 20 hrs.
- Review of anatomy and physiology of respiratory system
  - Nursing assessment – History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetic & nursing management of adults including elderly with –
- Upper Respiratory tract infections
  - Bronchitis
  - Asthma
  - Emphysema
  - Atelectasis
  - Chronic Obstructive Pulmonary Disease (COPD)
  - Bronchiectasis
  - Pneumonia
  - Pulmonary tuberculosis
  - Lung abscess
  - Pleural effusion
  - Cysts and tumours
  - Chest Injuries
  - Respiratory arrest and insufficiency
  - Pulmonary embolism



Special therapies, alternative therapies

Nursing procedures

Drugs used in treatment of respiratory disorders

IV **Nursing Management of patient (adults including elderly) with disorders of digestive system**

30  
hrs.

- Review of anatomy and physiology of digestive system
- Nursing assessment-history and physical assessment
- Etiology, pathophysiology, Clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management
- Disorders of
  - Oral cavity-lips, gums tongue, salivary glands and teeth
  - Oesophagus – inflammation, stricture, obstruction, bleeding and tumours
  - Stomach and duodenum hiatus hernia, gastritis, peptic and duodenal ulcer, bleeding, tumours, pyloric stenosis.
  - Small intestinal disorders- inflammation and infection, enteritis, malabsorption, obstruction, tumour and perforation
  - Large intestinal disorders- colitis, inflammation and infection, obstruction and tumour and lump
  - Hernias
    - Appendix-inflammation, mass, abscess, rupture
    - Anal & Rectum; hemorrhoids, fissures, fistulas
    - Peritonitis/acute abdomen
    - Pancreas; inflammation, cyst, abscess and tumours
    - Liver; inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours
    - Gall Bladder; inflammation, obstruction, stones and tumours

Special therapies, alternative therapies

Nursing procedures

Drugs used in treatment of disorders of digestive system

V **Nursing management of patient (adults including elderly) with blood and cardio vascular problems**

30  
hrs.

Review of anatomy and physiology of blood and cardio vascular system,  
Nursing Assessment-History and physical assessment  
Etiology, Pathophysiology, clinical manifestation diagnosis, treatment modalities  
and medical, surgical, dietetics & nursing management of -

**Vascular system**

Hypertension, hypotension  
Artherosclerosis  
Raynaud's disease  
Aneurism and peripheral Vascular disorders

**Heart**

Coronary artery diseases

- Ischemic Heart Disease
- Coronary atherosclerosis

Angina pectoris  
Myocardial infarction

Valvular disorders of the heart

Congenital and acquired  
Rheumatic Heart disease

Endocarditis, pericarditis, Myocarditis

Cardio Myopathies

Cardiac dysrhythmias, Heart Block

Congestive cardiac failure

Cor-pulmonale, pulmonary edema, cardiogenic shock, cardiac tamponade

Cardiac emergencies and arrest

Cardio Pulmonary Resuscitation (CPR)

Blood

Anaemias  
Polycythemia  
Bleeding disorders; clotting factor defects and platelets defects  
Thalassemia

Leukaemias

Leukopenias and agranulocytosis

Lymphomas

Myelomas

Special therapies

Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion.

Management and counseling of blood donors, phlebotomy procedure, and post donation management, blood bank functioning and hospital transfusion committee.

Role of a nurse in Organ donation, retrieval and banking

Alternative therapies

Nursing procedures

Drugs used in treatment of blood and cardio vascular disorders

## **VI Nursing management of patient (adults including elderly) with genito-urinary problems**

10  
hrs.

- Review of anatomy and physiology of genito-urinary system
  - Nursing Assessment- History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of –
- Nephritis
- Nephrotic syndrome
- Nephrosis
- Renal calculus
- Tumours
- Acute renal failure
- Chronic renal failure
- End stage renal disease
- Dialysis, renal transplant
- Congenital disorders, urinary infections
- Benign prostate hypertrophy
- Disorders of ureter, urinary bladder and urethra - inflammation, infection, stricture, obstruction, tumour, prostrate

Special therapies, Alternative therapies

Nursing procedures

Drug used in treatment of genito urinary disorders

**VII Nursing management of disorders of male (adults including elderly) reproductive**

5 hrs. **system**

Review of anatomy and physiology of male reproductive system

- Nursing Assessment-History and physical assessment

Etiology, pathophysiology, clinical manifestations, diagnosis, treatment

modalities and medical, surgical, dietetics & nursing management of disorders of male reproductive system

Congenital malformations cryptorchidism

Hypospadiasis, Epispadiasis

Infections

Testes and adjacent structures

Prostate: inflammation, infection, hypertrophy, tumour

Sexual Dysfunction

Contraception

Breast; gynecomastia, tumour

Climacteric changes, special therapies, alternative

therapies Nursing procedures

Drugs used in treatment of disorders male reproductive system

**VIII Nursing management of patient (adults including elderly) with disorders of endocrine system**

10 hrs.

- Review of anatomy and physiology of endocrine system
- Nursing Assessment – History and Physical assessment

Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of -

Disorders of thyroid and parathyroid

Diabetes mellitus

Diabetes insipidus

Adrenal tumour

Pituitary disorders,

Special therapies, alternative therapies

Nursing procedure

Drug used in treatment of disorders of endocrine system

**IX Nursing management of patient (adults including elderly) with disorders of integumentary system**

10 hrs.

- Review of anatomy and physiology of skin and its appendages
- Nursing Assessment-History and physical assessment
- Etiology, Pathophysiology, diagnosis, treatment modalities and medical, surgical dietetics & nursing management of disorders of skin and its appendage –
  - Lesions and abrasions
  - Infection and infestations; Dermatitis
  - Dermatoses; infectious and non infectious “inflammatory dermatoses”
  - Acne Vulgaris
  - Allergies and Eczema
  - Psoriasis
  - Malignant melanoma
  - Alopecia

Special therapies, alternative therapies

Nursing procedures

Drugs used in treatment of disorders of Integumentary system

**Nursing management of patient (adults including elderly) with musculoskeletal problems**

hrs.

- Review of anatomy and physiology of musculoskeletal system,
  - Nursing Assessment-History and Physical assessment
  - Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of -
    - Muscles, Ligaments and joints-inflammation, infection, trauma
    - Bones inflammation, infection, dislocation, fracture, tumour and trauma
    - Osteomalacia and osteoporosis
    - Arthritis
    - Congenital deformities
    - Spinal column – defects and deformities, tumor, Prolapsed inter vertebral disc, pott’s spine

Paget's disease

Amputation

Prosthesis

Transplant & replacement surgeries

Rehabilitation

Special therapies,

- Alternative therapies

Nursing procedures

Drugs used in treatment of disorders of musculoskeletal system

XI **Nursing management of patient (adult including elderly) with Immunological problems**

10  
hrs.

- Review of Immune system,
- Nursing Assessment – History and Physical assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of –
- Immunodeficiency disorder
- Primary immuno deficiency
- Phagocyte dysfunction
- B-cell and T-cell deficiencies
- Secondary immunodeficiency
- Acquired Immuno Deficiency Syndrome (AIDS)
- Incidence of HIV & AIDS
- Epidemiology
- Transmission – prevention of Transmission
- Standard Safety precautions' role of Nurse; Counseling
- Health education and home care consideration
- National AIDS control program – NACO, various national and international agencies
- Infection control program
- Rehabilitation

Special therapies, alternative therapies

Nursing procedures

Drugs used in treatment of disorders of immunological system

**XII Nursing management of patient (adults including elderly) with Communicable Diseases**

20  
hrs.

Overview of infectious disease, the infectious process

Nursing Assessment – History and physical assessment

Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention and dietics. Control and eradication of common communicable disease –

- Tuberculosis
- Diarrhoeal diseases
- Hepatitis A-E
- Herpes
- Chickenpox
- Smallpox
- Typhoid
- Meningitis
- Gas gangrene
- Leprosy
- Dengue
- Plague
- Malaria
- Diphtheria
- Pertussis
- Poliomyelitis
- Measles
- Mumps
- Influenza
- Yellow fever
- Filariasis
- HIV, AIDS

Reproductive Tract Infections

Special Infection Control measures; Notification, Isolation, Quarantine, Immunization, Infectious Disease Hospitals

Special therapies, alternative therapies

Nursing procedures

Drugs used in treatment of Communicable diseases

### **XIII Peri Operative nursing:**

25 Organisation and Physical set up of the Operation Theatre (OT):  
hrs.

Classifications

O.T. Design

Staffing

Members of the OT team.

Duties and responsibilities of nurse in O.T.

Principles of Health and operating room attire

Instruments

Sutures and suture materials

Equipments

O.T. tables and sets for common surgical procedures

Positions and draping for common surgical procedures

Scrubbing procedures

- Gowning and gloving
- Preparation of O.T. Sets
- Monitoring the patient during surgical procedures

Maintenance of therapeutic environment in O.T.

Standard Safety measures

- Infection control; fumigation, disinfections and sterilization
- Biomedical waste management
- Prevention of accidents and hazards in O.T.

Anesthesia

- Types
- Methods of administration
- Effects and stages
- Equipments
- Drugs
- Cardio Pulmonary Resuscitation (CPR)
- Pain management techniques

Legal Aspects





**Department of Nursing**  
**P.K.University**  
**Paper Code BSC-N-203: Pharmacology, Pathology &**  
**Genetics**

## Pharmacology

Time : Theory – 45 Hrs.

### Unit

### Content

#### Introduction to pharmacology

- 3 hrs.
- Definitions
  - Sources
  - Terminology used
  - Types: Classification
  - Pharmacodynamics : Actions, therapeutic.
  - Adverse, toxic
- Pharmacokinetics: absorption, distribution, excretion
- Review: Routes and principles of administration of drugs
- Indian pharmacopoeia: Legal issues
- Rational use of drug
- Principles of therapeutics

#### II. Chemotherapy

Pharmacology of commonly used:

- 6 hrs.
- Penicillin
  - Cephalosporins
  - Aminoglycosides
  - Macrolide & Broad Spectrum Antibiotics
  - Sulfonamides
  - Quinolones
  - Antiamoebic
  - Antimalarials
  - Anthelmintics
  - Antiscabies agents

- Antiviral & Anti-fungal agents
- Antitubercular drugs
  - Anti leprosy drugs
  - Anticancer drugs
  - Immuno-suppressants

Composition, actions, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

### **Pharmacology of commonly used antiseptics, disinfectants and insecticides**

- 2 hrs. ● Antiseptics; Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse
- Disinfectants
  - Insecticides

### **IV Drugs acting on G.I. system**

- 2 hrs. ● Antiemetics
- Emetics
  - Purgatives
  - Antacids
  - Cholinergic
  - Anticholinergics
  - Fluid and electrolyte therapy
  - Antidiarrhoeals
  - Histamines

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

### **Drugs used on Respiratory Systems**

- 2 hrs. ● Pharmacology of commonly used –
- Antiasthmatics
  - Muxoltrixa
  - Decongestants
  - Expectorants
  - Expectorants
  - Antitussives

Bronchodilators

Broncho constrictors

Antihistamines

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

**VI Drugs used on urinary system**

2 hrs. ● Pharmacology of commonly used-

Diuretics and antidiuretics

Urinary antiseptics

Cholinergic and anticholinergics

Acidifiers and alkalinizes

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

**VII Miscellaneous**

4 hrs. ● Drugs used in de-addiction

Drug used in CPR and emergency

Vitamins and minerals

Antidotes

Antivenom

Vaccines and sera

**VIII Drugs used on skin and mucous membranes**

1 hrs. ● Topical applications for skin, eye, ear, nose and buccal cavity Antipruritics

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

**IX Drugs acting on nervous system**

8 hrs. ● Basic & applied pharmacology of commonly used: Analgesics and Anaesthetics

Analgesics

Non steroidal antiinflammatory (NSAID) drugs

Antipyretics

Hypnotics and Sedatives

Opioids

Non-Opioids

Tranquilizers

General & local anesthetics

Gases: oxygen, nitrous oxide, carbon-dioxide

## Cholinergic and anti-cholinergics:

Muscle relaxants

Major tranquilizers

Anti – psychotic

Antidepressants

Anticonvulsants

Adrenergics

Noradrenergics

Mood stabilizers

Acetylcholine

Stimulants

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

### Cardiovascular drugs

- 5 hrs.
- Haematinics
  - Cardiotonics
  - Anti anginals
  - Anti-hypertensives & Vasodilators
  - Anti-arrhythmics
  - Plasma expanders
  - Coagulants & anticoagulants
  - Coagulants & anticoagulants
  - Hypolipidemics

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

### XI **Drugs used for hormonal disorders and supplementations, contraception and medical termination of pregnancy**

- 4 hrs.
- Insulins & Oral hypoglycemics
  - Thyroid supplements and suppressants
  - Steroids, Anabolics
  - Uterine stimulants and relaxants
  - Oral contraceptives
  - Other estrogen-progesterone preparations
  - Corticotrophin & Gonadotrophins

Adrenaline  
Prostaglandins  
Calcitonins  
Calcium salts  
Calcium regulators

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

- XII **Introduction to Drugs use in alternative systems of medicine:**  
6 hrs. ● Ayurveda, Homeopathy, Unani and Siddha etc

## Pathology and Genetics

### Section A- Pathology

Time: Theory – 45 hours (Pathology 30 & Genetics 15 hrs)

| Unit   | Content   |
|--------|---|
| I      | ● <b>Introduction</b>   |
| 3 hrs. | <input type="checkbox"/> Importance of the study of pathology |
|        | <input type="checkbox"/> Definition of terms                  |
|        | <input type="checkbox"/> Methods and techniques               |
|        | <input type="checkbox"/> Cellular and Tissue changes          |
|        | <input type="checkbox"/> Infiltration and regeneration        |
|        | <input type="checkbox"/> Inflammations and Infections         |
|        | <input type="checkbox"/> Wound healing                        |
|        | <input type="checkbox"/> Vascular changes                     |
|        | <b>Cellular growth, Neoplasm</b>                              |
|        | <input type="checkbox"/> Normal and cancer cell               |
|        | <input type="checkbox"/> Benign and Malignant growths         |
|        | <input type="checkbox"/> In situ carcinoma                    |
|        | Disturbance of fluid and electrolyte imbalance                |

### II Special pathology

- 10hrs. ● Pathological changes in disease conditions of various system:  
● **Respiratory tract**



## **Metastatic tumour**

### **Skeletal system**

- Bone healing, osteoporosis, osteomyelitis Arthritis & tumours

## **III Clinical Pathology**

Various blood and bone marrow tests in assessment and monitoring of disease conditions

- 4 hrs. (T)  Hemoglobin
- RBC, White cell & platelet counts
- Bleeding time, clotting time and prothrombine time
- 3 hrs. (P)  Blood grouping and cross matching
- Blood chemistry

Blood culture

Serological and immunological tests

Other blood tests

- Examination of Bone marrow

Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal value

## **IV Examination of body cavity fluids, transudates and exudates**

- hrs. (T)
  - The laboratories tests used in CSF analysis
  - Examination of other body cavity fluids, transudates and exudates – sputum, wound discharge etc.
- 1 hrs. (P)
  - Analysis of semen-sperm count, motility and morphology and their importance in infertility
  - Methods of collection of CSF and other cavity fluids specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values

### **Urine and faeces**

- 1 hrs. (T)
  - Urine
    - Physical characteristics
    - Analysis
    - Culture and sensitivity
- 1 hrs. (P)
  - Faeces
    - Characteristics
    - Stool examination: occult blood, ova, parasite and cyst, reducing substance etc.
  - Methods of collection for various tests, inference and normal values

# Section B- Genetics

Time : Theory – 15 Hrs.

| Unit   | Content  |
|--------|--|
|        | <b>Introduction</b>  |
| 3 hrs. | <ul style="list-style-type: none"><li>● Practical application of genetics in Nursing</li><li>● Impact of genetic conditions on families</li></ul> <ul style="list-style-type: none"><li>Review of cellular division mitosis and meiosis</li><li>Characteristics and structure of genes</li><li>Chromosomes – Sex determination</li><li><input type="checkbox"/> Chromosomal aberrations patterns of inheritance</li><li><input type="checkbox"/> Multiple allots and blood groups<ul style="list-style-type: none"><li>Sex linked inheritance</li></ul></li><li><input type="checkbox"/> Mechanism of inheritance<ul style="list-style-type: none"><li>Errors in transmission (Mutation)</li></ul></li></ul> |
|        | <b>II Maternal, prenatal and genetic influences on development of defects and disease</b>  |
| 3 hrs. | <ul style="list-style-type: none"><li>● Condition affecting the mother: genetic and infections</li><li>Consanguinity atopy</li><li>Prenatal nutrition and food allergies.</li><li>Maternal age</li><li>Maternal drug therapy</li><li>Prenatal testing and disgnosis</li><li>Effect of Radiation, drugs and chemicals</li><li>Spontaneous abortion</li><li>Neural tube defects and the role of folic acid in lowering the risks</li><li>Down syndrome (Trisomy 21)</li></ul>  |
|        | <b>III Genetic testing in the neonates and children</b>  |
| 2 hrs. | <ul style="list-style-type: none"><li>● Screening for<ul style="list-style-type: none"><li>Congenital abnormalities</li><li>Developmental delay</li><li>Dimorphism</li></ul></li></ul>   |



**IV Genetic conditions of adolescents and adults 2 hrs.**

- Cancer genetics – Familial cancer

  - Inborn errors of metabolism hematological disorder

  - Genetic haemochromatosis

  - Huntington's disease

  - Metal illness

**V Services related to Genetics**

2 hrs.

- Genetic testing

- Human genome project

  - Gene therapy

  - The Eugenics movement

  - Genetic counseling

Legal and Ethical issues

Role of nurse

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-204: Community Health Nursing-***  
***I Theory***

**Placements:** Second year

Time : Theory - 90 Hours  
Practical – 135 Hours

**Course Description:** This course is designed for students to appreciate the principles of promotion and maintenance of health.

**Unit**

**Content**

**Introduction**

- 2 hrs.
- Community health nursing
  - Definition, concept and dimensions of health
  - Definition, scope and importance of environment health
  - Need for public awareness.
  - Promotion of health
  - Maintenance of health

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**II. Determinants of health**

- 20 hrs
- Eugenics
  - Ecosystem
    - Concept of an ecosystem
    - Structure and function of an ecosystem
    - Producers, consumers and decomposers
    - Energy flowing the ecosystem
    - Ecological Succession
    - Food chains, food webs and ecological pyramids
    - Introduction, types, characteristics features, structure and function of the following ecosystem :-
      - a. Forest ecosystem
      - b. Grassland ecosystem
      - c. Desert ecosystem
      - d. Aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries)

- Environment:
  - Physical: Land, Air, light, ventilation, Water, Housing, Mineral resources, Energy resources, Sanitation: disposal of waste, disposal of dead bodies, Forestation, Noise, Climate, Communication: Infrastructure facilities and Linkages
  - Acts regulating the environment: National Pollution Control Board
  - Bacterial & viral: Agents, host carriers and immunity
  - Arthropods and Rodents
  - Environmental ethics: Issues & Possible solutions.
    - Climate change: Global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust.

Food hygiene: Production, preservation, purchases, preparation, consumption

Acts regulating food hygiene prevention of food adulteration act, Drugs and cosmetic act

Socio-cultural

- Customs, taboos
- Marriage system
- Family structure
- Status of special groups; females, children, Elderly, challenged groups and sick persons

Life Style – Equitable use of resources for sustainable life style

Hygiene

Physical activity

- Recreation and sleep
- Sexual life
- Spiritual life philosophy
- Self reliance
- Dietary pattern
- Education
- Occupation

Financial Management

Income

Budget

Purchasing power

Security

### **Epidemiology**

- 10 hrs ● Definition, concept, aims, scope, uses and terminology used in epidemiology
- Dynamics of disease transmission: epidemiological triad
- Morbidity and mortality: measurements
- Levels of prevention
- Methods of epidemiology of
- Descriptive
  - Analytical: Epidemic Investigation
  - Experimental

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### **IV Epidemiology and nursing management of Common Communicable**

- 25 hrs ● Respiratory infections
- Small Pox
  - Chicken Pox
  - Measles
  - Influenza
  - Rubella
  - ARI's & Pneumonia
  - Mumps
  - Diphtheria
- Whooping cough
- Meningococcal meningitis
- Tuberculosis
- SARS
- Intestinal Infections
- Poliomyelitis
  - Viral Hepatitis
  - Cholera
  - Diarrhoeal diseases
  - Typhoid fever
  - Food poisoning

Amoebiasis

Hook worm infection

Ascariasis

Dracunculiasis

#### Arthropod infections

Dengue

Malaria

Filariasis

#### Zoonoses

- Viral

- Rabies

- Yellow fever

- Japanese encephalitis

- Kyansur forest disease

#### Bacterial

Brucellosis

Plague

- Anthrax

- Leptospirosis

#### Rickettsial diseases

- Rickettsial zoonoses

- Scrub typhus

- Murine typhus

- Tick typhus

- Q fever

#### Parasitic zoonoses

- Taeniasis

- Hydatid disease

- Leishmaniasis

#### Surface infection

- Trachoma

- Tetanus

- Leprosy

- STD & RTI

- Yaws

HIV/AIDS

Any Other

**Epidemiology and Nursing Management of non Communicable Diseases**

10 hrs ● Malnutrition: under nutrition, over nutrition, nutritional deficiencies

Anaemia

Hypertension

Cancer

Diabetes mellitus

Blindness

Accidents

Mental illness

Iodine Deficiency

Fluorosis

Epilepsy

**VI Demography**

- 6 hrs ● Definition, concept and scope
- Methods of collection, analysis and interpretation of demographic data
  - Demographic rates and ratios

**VII Population and its control**

- 17 hrs ● Population explosion and its impact on social, economic development of individual, society and country
- Population control:
    - Overall development: Women empowerment, social, economic and educational development
  - Limiting family size:
    - Promotion of small family norm
    - Methods: spacing (natural, biological, chemical, mechanical methods etc)
    - Terminal: surgical methods
    - Emergency contraception

***Department of Nursing***  
***P.K.University***

***Paper Code BSC-N-205: Communication & Educational  
Technology***

Time: Theory - 90 Hours

| <b>Unit</b> | <b>Content</b>   |
|-------------|--|
| <b>I.</b>   | <b>Review of Communication process</b>   |
| 5 hrs       | <ul style="list-style-type: none"><li>● Process; elements and channel<ul style="list-style-type: none"><li>Facilitators</li><li>Barriers and methods of overcoming techniques</li></ul></li></ul>  |
| <b>II</b>   | <b>Interpersonal relations</b>   |
| 5 hrs       | <ul style="list-style-type: none"><li>● Purpose &amp; Types</li><li>● Phases<ul style="list-style-type: none"><li>Barriers &amp; Methods of overcoming</li><li>Johari Window</li></ul></li></ul>   |
| <b>III</b>  | <b>Human relations</b>   |
| 5 hrs       | <ul style="list-style-type: none"><li>● Understanding self</li><li>● Social behaviour, motivation, social attitudes</li><li>● Individual and groups</li><li>● Groups &amp; individual</li><li>● Human relations in context of Nursing</li><li>● Group dynamics</li><li>● Team work</li></ul>   |
| <b>IV</b>   | <b>Guidance &amp; conselling</b>   |
|             | Definition   |
| 10 hrs      | <ul style="list-style-type: none"><li>● Purpose, scope and need</li><li>● Basic principles<ul style="list-style-type: none"><li>Organization of counseling services</li></ul></li></ul>  |
| 5 hrs       |  |
| (P)         | <ul style="list-style-type: none"><li>● Types of conselling approaches</li><li>● Role and preparation of counselor</li><li>● Issues for counseling in nursing: students and practitioners</li><li>● Counselling process- steps &amp; techniques, tools of counselor</li><li>● Managing disciplinary problems</li><li>● Management of crisis &amp; referral</li></ul> |

## **Principle of education & teaching learning process**

- 5 hrs
- Education: meaning, philosophy, aims, functions & principles
  - Nature and characteristics of learning,
  - Principles and maxims of teaching,
  - Formulating objectives; general and specific
  - Lesson planning
  - Classroom Management

## **VI Methods of teaching**

- 10 hrs  
(T)
- Lecture, demonstration, group discussion, seminar, symposium, panel discussion, role play, project, field trip, workshop, exhibition, programmed instruction, computer assisted learning, micro teaching, problem based learning, self instructional module and simulation etc.
- 10 hrs  
(P)
- Clinical teaching methods: case method, nursing round & reports, bedside clinical presentation, conference (individual & group) process recording.

## **VII Educational Media**

- 10 hrs  
(T)
- Purposes & types of A.V. Aids, principles and sources etc.
- 8 hrs  
(P)
- Graphic aids: chalk board, chart, graph, poster, flash cards, flannel graph, bulletin, cartoon
- Three dimensional aids: objects, specimens, models, puppets
- Printed aids: pamphlets & leaflets
- Projected aids: slides, overhead projector, films, TV, VCR/VCD, camera, microscope, LCD
- Audio aids: tape recorder, public address system
  - Computer

## **VIII Assessment**

- 5 hrs
- Purpose & scope of evaluation & assessment
- Criteria for selection of assessment techniques and methods
- 7 hrs  
(P)
- Assessment of knowledge: essay type questions, short answer questions (SAQ), Multiple choice questions (MCQ)
- Assessment of skills: observation checklist, practical exam, Viva, Objective structured clinical examination (OSCE)
- Assessment of Attitudes: Attitude scales



- IX **Information, Education & Communication for health (IEC)**

5 hrs● Health behaviour & health education

- Planning for health education
- Health education with individuals, groups & communities
- Communicating health messages

Methods & media for communicating health messages

Using mass media

***Department of Nursing***  
***P.K.University***  
***Medical Surgical Nursing***  
***Paper Code BSC-N-206: (Adult including Geriatrics-I)***  
***Practical***

Time : Practical - 720 Hours

| <b>Unit</b> | <b>Skill to be developed</b> |
|-------------|------------------------------|
|-------------|------------------------------|

- |   |  |
|---|--|
| ● | Assessment of the patient <ul style="list-style-type: none"><li><input type="checkbox"/> Taking history</li><li><input type="checkbox"/> Perform general and specific physical examination</li><li><input type="checkbox"/> Identify alterations and deviations</li></ul> Practice medical surgical asepsis-standard safety measures<br>Administer medications <ul style="list-style-type: none"><li><input type="checkbox"/> Oral, IV, IM, Subcutaneous</li></ul> IV therapy <ul style="list-style-type: none"><li>IV canulation</li><li>Maintenance and monitoring</li></ul> Oxygen therapy by different methods<br>Nebulization<br>Chest physiotherapy<br>Naso gastric feeding<br>Assist in common diagnostic procedure<br>Perform/Asst in therapeutic procedures<br>Blood and component therapy<br>Throat suctioning<br>Collect specimens for common investigations<br>Maintain elimination <ul style="list-style-type: none"><li>Catheterisation</li><li>Bowel wash</li><li>Enema</li></ul> |
|---|--|

Urinary Drainage

Maintain Intake, output and documentation

Counsel and teach related to teach related to specific disease

conditions II ● Practice medical surgical asepsis Standard safety measures

Pre operative preparation of patients

Post operative care-Receiving patient, assessment, monitoring, care

- Care of wounds and drainage,
- Suture removal
- Ambulation and exercise

Naso gastric aspiration

Care of chest drainage

Ostomy care

Gastrostomy

Colostomy

Blood and component therapy

Practice universal precautions

III.● Physical examination of the cardio vascular system Recording and interpreting ECG

- Monitoring of patients
- Preparation and assisting in non-invasive and invasive diagnosis procedures.
- Administer cardiac drugs
- Cardio pulmonary Resuscitation
- Teaching patients and families
- Practice medical and surgical asepsis- Standard safety measures

IV.

- Assessment of patients with skin disorders
- Assist in diagnostic and therapeutic procedures
- Administer topical medication
- Practice medical surgical asepsis standard safety measures
- Use of personal protective equipment (PPE)
- Give medicated baths
- Counseling HIV positive patients
- Teaching prevention of infectious diseases

- Assessment of orthopedic patients

Assist in application of plaster cast and removal of cast

Apply skin traction buck's extension traction.

Assist in application and removal of prosthesis

Physiotherapy – Range of motion exercises (ROM), muscle strengthening exercises

Crutch maneuvering technique.

Activities of daily living

Ambulation

Teach and counsel patients and families

- VI
- Scrubbing, gowning, gloving
  - Identify instruments, suturing materials for common operations
  - Disinfection, Carbonization, fumigation of OT
  - Preparation of instrument sets for common operations
  - Sterilization of sharp and other instruments
  - Prepare the OT table depending upon the operation
  - Positioning and monitoring of patients
  - Endotracheal intubation
  - Assisting in minor and major operations
  - Handling specimens
  - Disposal of waste as per the guideline

### Internship

**Time: 430 hours (9 weeks)**

**Areas:** ICU, CCU, CARDIAC OT, Neuro ICU, ITU, OT, Burn and plastic Reconstructive surgery, OT Laproscopic ortho- paedic eye ENT

| Duration (in week) | Objectives   | Skills to be developed   | Assignments  | Assessment Methods   |
|--------------------|--|--|--|--|
| 2                  | <ul style="list-style-type: none"> <li>● To gain proficiency in ICU nursing</li> <li>● Develop advance skill in special procedures used in critical care Unit</li> <li>● Identify potential problems and provide accordingly.</li> <li>● Skill in setting and handling ventilator</li> <li>● Administer injection</li> </ul> | <ul style="list-style-type: none"> <li>● Assist in arterial puncture for blood gas analysis.</li> <li>● Perform ECG and interpret accordingly.</li> <li>● Conduct and analysis of pulse oximetry.</li> <li>● Care with artificial airway.</li> <li>● Care with artificial intubation.</li> <li>● Setting up ventilator.</li> <li>● Giving care in ventilator.</li> <li>● Drug sheet</li> </ul> | <ul style="list-style-type: none"> <li>● Article puncture-5</li> <li>● Taking out ECG stripe -5</li> <li>● Tracheal suction -5</li> <li>● For all assigned patients.</li> <li>● Oxygen administration by CPAP mask and use Ambu bag.</li> <li>● Assessment for all assigned</li> </ul> | <ul style="list-style-type: none"> <li>● Record book.</li> <li>● Checking with supervisor</li> </ul> |

|   |   |   |  |   |
|---|---|---|--|---|
|   | <ul style="list-style-type: none"> <li>in infusion pump.</li> <li>Record accurately findings and medications.</li> <li>Develop IPR with family members.</li> <li>Acquint with OT technique.</li> </ul>  | <ul style="list-style-type: none"> <li>Observation of special procedure in OT.</li> </ul>   |  |   |
| 2 | <ul style="list-style-type: none"> <li>Develop skill in neurological assessment.</li> <li>Give care to the patient with head injury and spinal injury.</li> <li>Care with chest surgery and cranial surgery.</li> </ul>                                       | <ul style="list-style-type: none"> <li>Assess neurological status</li> <li>Implement care to head injury and spinal injury patients</li> <li>Drug sheet</li> <li>Pre and postoperative care with neuro surgery patients.</li> </ul> | <ul style="list-style-type: none"> <li>Assessment for all assigned patients.</li> <li>Nursing care plan-2</li> <li>Drug sheet</li> </ul> | <ul style="list-style-type: none"> <li>Record book</li> <li>Observation checklist.</li> </ul> |
| 2 | <ul style="list-style-type: none"> <li>Assess the severity of burns.</li> <li>Administer rehydration therapy.</li> <li>Observe reconstructive surgery</li> </ul>  | <ul style="list-style-type: none"> <li>Nursing care</li> </ul>  |  |   |
| 3 | <ul style="list-style-type: none"> <li>Identify instruments</li> <li>Assist in OT set Up</li> <li>Supervise sterilization</li> <li>Assist in OT table lay out.</li> <li>Observe immediately after operation.</li> <li>Supervise infection control.</li> </ul> | <ul style="list-style-type: none"> <li></li> </ul>  | <ul style="list-style-type: none"> <li>Assist-5 cases</li> </ul>   | <ul style="list-style-type: none"> <li>Record book</li> </ul>                                 |

***Department of Nursing  
P.K.University  
Community Health Nursing – I  
Practical***

Time : Practical - 135 Hours

**Areas:** Urban and Rural Community

| <b>Unit</b>         | <b>Skill to be develop</b>   |
|---------------------|--|
|                     | <ul style="list-style-type: none"><li>● Use Techniques of interpersonal relationship<ul style="list-style-type: none"><li>● Identification of health determinants of community</li></ul></li></ul>   |
| Urban<br>2<br>weeks | <ul style="list-style-type: none"><li>● History taking</li><li>● Physical examination</li><li>● Collect specimen sputum, malaria smear</li></ul> Perform simple lab tests at centre-blood for Hemoglobin and sugar, urine for albumin and sugar  |
| Rural<br>2<br>weeks | <ul style="list-style-type: none"><li>● Administer vaccines and medications to adults</li><li>● Counsel and teach individual, family and community</li></ul> Nutrition<br>Hygiene<br>Self health monitoring<br>Seeking health services<br>Healthy life style<br>Family welfare methods<br>Health promotion |

**Department of Nursing**  
**P.K.University**  
**Third Year**

**Paper Code BSC-N-301:Medical Surgical Nursing**  
**(Adult including Geriatrics) – II**

Time : Theory - 120 hrs.

Practical - 270 hrs.

**Unit**

**Content**

**Nursing management of patient with disorders of Ear Nose and Throat.**

- Review of anatomy and physiology of the Ear Nose and Throat
- 15 hrs. • Nursing Assessment – History and Physical assessment
- Etiology, Pathophysiology, Clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of Ear Nose and Throat disorders:
  - External ear : deformities otalgia, foreign bodies, and tumours
  - Middle Ear-Impacted wax, Tympanic membrane perforation, otitis media, otosclerosis, mastoiditis, tumours
  - Inner ear-Meniere’s Disease, labyrinthitis, ototoxicity, tumours
  - Upper airway infections –
  - Common cold, sinusitis, ethinitis, rhinitis, pharyngitis, tonsillitis and adenoiditis, peritonsillar abscess, laryngitis.
  - Upper respiratory airway - epistaxis,
  - Nasal obstruction, laryngeal obstruction, cancer of the larynx
  - Cancer of the oral cavity.
  - Speech defects and speech therapy
  - Deafness –
  - Prevention, Control and rehabilitation
  - Hearing Aids, implanted hearing devices
- Special therapies
- Nursing procedures
- Drugs used in treatment of disorders of Ear Nose and throat
- Role of nurse Communicating with hearing impaired and muteness.

## Nursing management of patient with disorders of eye

- 15 hrs.
- Review of anatomy and physiology of the eye
  - Nursing Assessment –History and Physical assessment
  - Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of eye disorders:
    - Refractive errors
    - Eyelids-infection, tumours and deformities
    - Conjunctiva-inflammation and infection, bleeding
    - Cornea-inflammation and infection
    - Lens-Cataracts
    - Glaucoma
    - Disorder of the **uveal** tract, \_\_\_\_\_
    - Ocular tumours
    - Disorders of posterior chamber and retina: Retinal and vitreous problems.
    - Retinal detachment
    - Ocular emergencies and their prevention
  - Blindness
  - National blindness control program
    - Eye Banking
    - Eye prostheses and Rehabilitation
- Role of a nurse-Communication with visually impaired patient, Eye camps
- Special therapies
- Nursing procedures
- Drugs used in treatment of disorders of eye

## Nursing management of patient with neurological disorders

- 16 hrs.
- Review of anatomy and physiology of the neurological system
  - Nursing Assessment – History, Physical and neurological assessment and Glasgow coma scale
  - Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of neurological disorders
- Congenital malformations
- Headache
- Spinal Injuries:**
- Paraplegia
  - Hemiplegia
  - Quadraplegia
- Spinal cord compression-herniation of intervertebral disc
- Tumors of the brain & spinal cord
- Intra cranial and cerebral aneurysms
- Infections:**
- Meningitis, Encephalitis, Brain abscess, neurocysticercosis
- Movement disorders**
- Chorea
  - Seizures
  - Epilepsies



Cerebro Vascular Accidents (CVA)  
Cranial, Spinal Neuropathies- Bell's palsy, trigeminal neuralgia  
Peripheral Neuropathies; Guillain-Barr'e Syndrome  
Myasthenia gravis  
Multiple sclerosis  
Degenerative diseases  
    Delirium  
    Dementia  
    Alzheimer's disease  
    Parkinson's disease

Management of unconscious patients and patients with stroke  
Role of the nurse in communicating with patient having neurological deficit  
Rehabilitation of patients with neurological deficit  
Role of nurse in long stay facility (institutions) and at home  
Special therapies  
Nursing procedures  
Drugs used in treatment of neurological disorders

IV     **Nursing management of patients with disorders of female reproductive system**

Review of anatomy and physiology of the female reproductive system  
Nursing Assessment – History and Physical assessment  
16     •     Breast Self Examination  
hrs.     •     Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities  
            and medical & surgical nursing management of disorders of female reproductive  
            system  
Congenital abnormalities of female reproductive system  
Sexuality and Reproductive Health  
Sexual Health Assessment  
Menstrual Disorder ;  
Dysmenorrhea, Amenorrhea, Premenstrual Syndrome  
Abnormal Uterine Bleeding; Menorrhagia, Metrorrhagia  
Pelvic Inflammatory Disease-  
Ovarian and fallopian tube disorders; infections, cysts, tumours  
Uterine and cervical disorders; Endometriosis, polyps, fibroids, Cervical and uterine  
tumours, uterine displacement, Cystocele/Urethrocele/Rectocele  
Vaginal disorders; Infections and Discharges, Fistulas  
Vulvur disorders; Infections, cysts, tumours  
Diseases of breasts; Deformities, Infections, Cysts and Tumours  
Menopause and Hormonal Replacement Therapy  
Infertility  
Contraception; Types, Methods, Risk and effectiveness  
    Spacing Methods  
        Barrier methods, Intra Uterine Devices, Hormonal, Post conceptional  
        Methods, etc.  
    Terminal methods  
        Sterilization  
Emergency Contraception methods  
Abortion – Natural, medical and surgical abortion – MTP Act

Toxic Shock Syndrome  
Injuries and Trauma; Sexual violence  
Special therapies  
Nursing procedures  
Drugs used in treatment of gynaecological disorders  
National family welfare programme

**Nursing management of patients with Burns, reconstructive and cosmetic surgery**

- 10  
hrs.
- Review of anatomy and physiology of the skin and connective tissues and various deformities
  - Nursing Assessment-History and physical assessment and assessment of burns and fluid and electrolyte loss  
Etiology, classification, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of Burns and Re-constrictive and Cosmetic surgery;  
Type of Re-constructive and cosmetic surgery of burns, congenital deformities, injuries and cosmetic purposes.  
Role of nurse  
Legal aspects  
Rehabilitation  
Special therapies
    - Psycho social aspects

Nursing procedures

Drugs used in treatment of Burns reconstructive and cosmetic surgery

VI **Nursing management of patients with oncological conditions**

- 10  
hrs.
- Structure & characteristics of normal & cancer cells
  - Nursing Assessment-History and Physical assessment
  - Prevention, screening, Early detection, Warning signs of cancer
  - Epidemiology, Etiology, Classification, Pathophysiology, Staging, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of oncological conditions  
Common malignancies of various body system; Oral, larynx, lung, Stomach and Colon, Liver, Leukemias and lymphomas, Breast, Cervix, Ovary, Uterus, Sarcoma, Brain, Renal, Bladder, Prostate etc  
Oncological emergencies  
Modalities of treatment
    - Immunotherapy
    - Chemotherapy
    - Radiotherapy
    - Surgical Interventions
    - Stem cell and bone marrow transplants
    - Gene therapy
    - Other forms of treatmentPsychosocial aspects of cancer  
Rehabilitation  
Palliative care; symptom and pain management, nutritional support  
Home care  
Hospice care  
Stomal therapy

Special therapy  
Special therapies – Psycho – Social aspects  
Nursing procedures

VII **Nursing management of patient in EMERGENCY & Disaster situations**

**Disaster Nursing:**

Concepts and principles of Disaster Nursing

Causes and Types of Disaster:

10 Natural and Man-made

hrs.  Earthquakes, Floods, Epidemics, Cyclones

Fire, Explosion, Accidents  
Violence, Terrorism; bio-chemical,  
War

Policies related to

emergency/disaster management'; International, national, state, institutional

Disaster preparedness:

Team, Guidelines, protocols, Equipments, Resources

Coordination and involvement of; community, various govt. departments, non-govt. departments, non-govt. organizations and International agencies

Role of nurse: working

Legal Aspects of Disaster Nursing

Impact on Health and after effect; Post Traumatic Stress Disorder

Rehabilitation; physical, psychosocial, Financial, Relocation Emergency Nursing

**Emergency Nursing**

Concept, priorities, principles and Scope of emergency nursing

Organization of emergency service: physical setup, staffing equipment and supplies, protocols, Concepts of triage and role of triage nurse.

Coordination and involvement of different departments and facilities

Nursing Assessment – History and Physical assessment

Etiology, Pathophysiology, clinical manifestation, diagnosis, treatment modalities and medical & surgical nursing management of patient with medical and surgical Emergency

Principles of emergency management

Common emergencies;

Respiratory Emergencies

Cardiac Emergencies

Shock and Haemorrhage

Pain

Poly-Trauma, road accidents, crush injuries, wound

Bites

Poisoning; Food, Gas, Drugs & chemical poisoning

Seizures

Thermal Emergencies; Heat stroke & Cold injuries

Pediatric Emergencies

Psychiatric Emergencies

Obstetrical Emergencies

Violence, Abuse, Sexual Assault

Cardio Pulmonary Resuscitation

Crisis Intervention

- Role of the nurse; communication and Inter personal Relations
- Medico-Legal Aspects;

VIII **Nursing care of the elderly**

- 10 hrs.
- Nursing Assessment – History and Physical assessment
  - Ageing;
  - Demography; Myths and realities
  - Concepts and theories of ageing
  - Cognitive Aspects of Ageing
  - Normal biological ageing
  - Age related body systems changes
  - Psychosocial Aspects of aging
  - Medications and elderly
  - Stress & coping in older adults
  - Common Health Problems & Nursing management;
  - Cardiovascular, Respiratory, Musculoskeletal,
  - Endocrine, genito-urinary, gastrointestinal
  - Neurological, skin and other Sensory organs
    - Psychosocial and Sexual
    - Abuse of elderly
  - Role of nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual
  - Role of nurse for caregivers of elderly
  - Role of family and formal and non formal caregivers
  - Use of aids and prosthesis (hearing aids, dentures),
  - Legal & Ethical Issues
  - Provisions and Programmes for elderly; privileges, community programmes and health services;
  - Home and institutional care

IX **Nursing management of patient in critical care units**

- 10 hrs.
- Nursing Assessment – History and Physical assessment
  - Classification
  - Principles of critical care nursing
  - Organization; physical setup, policies, staffing norms, Protocols, equipment; and supplier Special equipments; ventilation, cardiac monitors, defibrillators. Resuscitation equipments
  - Infection Control Protocols
  - Nursing management of critically ill patient;
  - Monitoring of critically ill patient
  - CPR-Advance cardiac life support
  - Treatments and procedures
  - Transitional care
  - Ethical and Legal Aspects
  - Communication with patient and family
  - Intensive care records
  - Crisis Intervention

Death and Dying – coping with  
Drugs used in critical care unit

**Nursing management of patients adults including elderly with Occupational and Industrial disorders**

8 hrs.      Nursing Assessment-History and Physical assessment  
Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities  
and medical & surgical nursing management of occupational and industrial health  
disorders  
Role of nurse  
Special therapies, alternative therapies  
Nursing procedures  
Drugs used in treatment of occupational and industrial disorders

**Department of Nursing**  
**P.K.University**  
**Paper Code BSC-N-302: Child Health Nursing**

**Placements:** Third year

Time : Theory-90 hrs.  
Practical-270 hrs.  
Internship – 145 hrs

| <b>Unit</b>          | <b>Content</b>   |
|----------------------|--|
| I<br><br>15<br>hrs.  | <b>Introduction</b><br><b>Modern concepts of childcare</b> <ul style="list-style-type: none"><li>• Internationally accepted rights of the child</li><li>• National policy and legislations in relation to child health and welfare</li><li>• National programmes related to child health and welfare</li><li>• Agencies related to welfare services to the children</li><li>• Changing trends in hospital care, preventive, promotive and curative aspects of child health</li></ul> Child morbidity and mortality rates.<br>Differences between an adult and child<br>Hospital environment for a sick child<br>Impact of hospitalisation on the child and family.<br>Grief and bereavement<br>The role of a child health nurse in caring for a hospitalized child<br>Principles of pre and post operative care of infants and children<br>Child health nursing procedures |
| II<br><br>20<br>hrs. | <b>The healthy child</b><br>Principles of growth and development <ul style="list-style-type: none"><li>• Factors affecting growth &amp; development</li><li>• Growth and development from birth to adolescence</li><li>• The needs of normal children through the stages of developmental and parental guidance</li><li>• Nutritional needs of children &amp; infants: breast feeding exclusive breast feeding supplementary/artificial feeding and weaning.</li></ul>   |

Baby friendly hospital concept

Accidents causes and prevention

Value of play and selection of play material

Preventive immunization, immunization programme and cold chain

Preventive paediatrics

- Care of under five & under five clinics/well baby clinics

#### **Nursing care of a neonate**

- Nursing care of a normal newborn/Essential newborn care
- 15 hrs.
- Neonatal resuscitation
  - Nursing management of a low birth weight baby.
  - Kangaroo mother care
  - Nursing management of common neonatal disorders
  - Organization of neonatal unit
  - Identification & nursing management of common congenital malformations.

#### **IV Integrated management of neonatal and childhood illnesses (IMNCI)** 10hrs.

##### **Nursing management in common childhood diseases**

- 20 hrs.
- Nutritional deficiency disorders
  - Respiratory disorders and infections
    - Gastrointestinal infections, infestations and congenital disorders
    - Cardio vascular problem : congenital defects and rheumatic fever, rheumatic heart disease
    - Genito-urinary disorders: acute glomerulo nephritis, Nephrotic syndrome, Wilms' tumor, infection and congenital disorders.
    - Neurological infections and disorders: convulsions, epilepsy, meningitis, hydrocephalus, spina-bifida.
    - Hematological disorders: Anemias, thalassemia, ITP, Leukemia, hemophilia
    - Endocrine disorders : Juvenile Diabetes Mellitus
    - Orthopedic disorders: club feet, hip dislocation and fracture.
    - Disorders of skin, eye, and ears
    - Common communicable diseases in children, their identification, nursing management in hospital and home and prevention.

|                  |   |
|------------------|---|
|                  | <ul style="list-style-type: none"> <li>• Child health emergencies: poisoning, foreign bodies, hemorrhage, burns and drowning.</li> <li>• Nursing care of infant and children with HIV/AIDS.</li> </ul>  |
| VI<br>10<br>hrs. | <p><b>Management of behavioural &amp; social problems in children</b></p> <ul style="list-style-type: none"> <li>• Management of common behavioural disorders</li> <li>• Management of common psychiatric problems</li> <li>• Management of challenged children: Mentally, Physically, &amp; Socially challenged</li> <li>• Welfare services for challenged children in India.</li> <li>• Child guidance clinics</li> </ul> |



***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N- 303: Mental Health Nursing***

**Placements :** Third year

Time :Theory - 90 hrs.  
Practical - 270 hrs.  
Internship – 95 hrs (2 weeks)

**Course Description :** This course is designed for developing an understanding of the modern approach to mental health care, identification, prevention and nursing management of common mental health problems with special emphasis on therapeutic interventions for individuals, family and community.

| <b>Unit</b>   | <b>Content</b>   |
|---|--|
| <b>Introduction</b>   |  |
|   | Perspectives of Mental Health and Mental Health nursing: evolution of mental health  |
| 5 hrs.  | services, treatments and nursing practices.  |
|   | Prevalence and incidence of mental health problems and disorders<br>National Mental health policy vis a vis a National Health Policy   |
|   | • National Mental Health programme<br>Mental health team<br>Nature and scope of mental health nursing  |
|   | Role and functions of mental health nurse in various setting and factors affecting the level of nursing practice   |
|   | Concepts of normal and abnormal behaviour  |
| <b>II. Principles and concepts of Mental Health Nursing</b> |  |
|   | Definition : mental health nursing and terminology used  |
| 5 hrs.  | • Classification of mental disorders : ICD   |
|   | Review of personality development, defense mechanisms<br>Maladaptive behaviour of individuals and groups; stress, crisis and disaster(s)<br>Etiology; bio-psycho-social factors<br>Psychopathology of mental disorders; review of structure and function of brain, limbic system and abnormal neuro transmission<br>Principles of Mental health nursing<br>Standards of mental health nursing practice<br>Conceptual models and the role of nurse: |

- Existential Model
- Psycho-analytical models
- Behavioural model
- Interpersonal Model

### **III Assessment of mental health status**

History taking

- 8 hrs. • Mental status examination
- Mini mental status examination
  - Neurological examination: Review

Investigations: Related Blood chemistry, EEG, CT & MRI

Psychological tests

Role and responsibilities of nurse

### **IV Therapeutic communication and nurse-patient relationship**

Therapeutic communication : Types, techniques, characteristics

- 6 hrs. • Types of relationship,
- Ethics and responsibilities
- Elements of nurse patient contract
- Review of technique of IPR - Johari window
- Goals, phases, tasks, therapeutic techniques
- Therapeutic impasse and its intervention

### **Treatment modalities and therapies used in mental disorders**

- 14 hrs. • Psycho Pharmacology
- Psychological therapies: Therapeutic community, psycho therapy-Individual: psycho-analytical, cognitive and supportive, Family, Group Behavioural, Play, Psycho-drama, Music, Dance, Recreational and Light therapy, Relaxation therapies; Yoga, Meditation, bio feedback
  - Alternative systems of medicine
  - Occupational therapy
  - Physical Therapy: electro convulsive therapy
  - Geriatric considerations
- Role of nurse in above therapies

## **VI Nursing management of patient with Schizophrenia, and other psychotic disorders**

5 hrs. • Classification: ICD

Etiology, psycho-pathology, types, clinical manifestations, diagnosis

Nursing Assessment – History, Physical and mental assessment

Treatment modalities and nursing management of patient with Schizophrenia and other psychotic disorders

- Geriatric considerations
- Follow-up and home care and rehabilitation

## **VII Nursing management of patient with mood disorders**

5 hrs. • Mood disorder: Bipolar affective disorders, Mania depression and dysthymia etc.

Etiology psycho-pathology, clinical manifestations, diagnosis.

Nursing Assessment- History, Physical and mental assessment

Treatment modalities and nursing management of patients with mood disorders

Geriatric considerations

Follow-up and home care and rehabilitation

## **VIII Nursing management of patient with neurotic, stress related and somatization disorders**

8 hrs. • Anxiety disorder, Phobias, Dissociation and Conversion disorder, Obsessive compulsive disorder, compulsive disorder, Somatoform disorders Post traumatic stress disorder

Etiology, psycho-pathology, clinical manifestations, diagnosis

Nursing Assessment – History, Physical and mental assessment

Treatment modalities and nursing management of patients with neurotic, stress related and somatization disorders

Geriatric considerations

Follow – up and home care and rehabilitation

## **IX Nursing Management of patient with Substance use disorders**

5 hrs. • Commonly used psychotropic substance: Classification, form, routes, action, intoxication and withdrawal

Etiology of dependence: tolerance, psychological and physical dependence, withdrawal syndrome, diagnosis,

Nursing assessment –History, Physical, mental assessment and drug assay  
Treatment (detoxification, antabuse and narcotic antagonist therapy and harm reduction)  
and nursing management of patients with substance use  
disorder • Geriatric considerations  
Follow-up and home care and rehabilitation

**X Nursing management of patient with personality, Sexual and Eating disorders**

- 4 hrs. • Classification of disorders  
Etiology, psycho-pathology, characteristics, diagnosis,  
Nursing Assessment-history, Physical and mental assessment  
Treatment modalities and nursing management of patients with Personality, Sexual and  
Eating disorders  
Geriatric considerations  
Follow-up and home care and rehabilitation

**XI Nursing management of childhood and adolescent disorders including mental deficiency**

- Classification
- 6 hrs. • Etiology, psycho-pathology, characteristics, diagnosis, Nursing Assessment-  
History, Physical, mental and IQ assessment  
Treatment modalities and nursing management of childhood disorders including mental  
deficiency  
Follow-up and home care and rehabilitation

**XII Nursing management of organic brain disorders**

- Classification: ICD?
- 5 hrs. • Etiology, psycho-pathology, clinical features, diagnosis and Differential diagnosis  
(parkinsons and alzheimers)  
• Nursing assessment – History, Physical, mental and neurological assessment  
• Treatment modalities and nursing management of organic brain disorders  
• Geriatric considerations  
• Follow-up and home care and rehabilitation

### **XIII Psychiatric emergencies and crisis intervention**

- 6 hrs.
- Types of psychiatric emergencies and their management
  - Stress adaptation Model: stress and stressor, coping, resources and mechanism
  - Grief: Theories of grieving process, principles, techniques of counseling
  - Types of crisis
  - Crisis Intervention: Principles, Techniques and process
  - Geriatric considerations
- Role and responsibilities of nurse

### **XIV Legal issues in Mental Health Nursing**

- 4 hrs.
- The Mental Health Act 1987: Act, Sections, Articles and their implications etc.
  - Indian Lunacy Act. 1912
  - Rights of mentally ill clients
  - Forensic psychiatry
  - Acts related to narcotic and psychotropic substances and illegal drug trafficking
  - Admission and discharge procedures
- Role and responsibilities of nurse

### **XV Community Mental Health Nursing**

- 4 hrs.
- Development of Community Mental Health Services
  - National Mental Health Programme
  - Institutionalization Versus Deinstitutionalization
  - Model of preventive psychiatry: levels of prevention
  - Mental Health Services available at the primary, secondary, tertiary levels including rehabilitation and Role of nurse
  - Mental Health Agencies: Government and voluntary, national and International
  - Mental Health nursing issues for special populations: Children, adolescence, Women, Elderly, Victims of violence and abuse, Handicapped, HIV/AIDS etc.

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-304: Nursing Research and***  
***Statistics***

**Placements :** Third year

**Time :** Theory - 45 hrs.

Practical - 45 hrs.

**Course Description:** This course is designed to enable students to develop an understanding of basic concepts of research, research process and statistics. It is further, structured to conduct/ participate in need based research studies in various setting and utilize the research findings to provide quality nursing care. The hours for practical will be utilized for conducting individual/group research project.

| <b>Unit</b>   | <b>Content</b>   |
|---------------|--|
| <b>I</b>      | <b>Research and research process</b>   |
| <b>4 hrs.</b> | <ul style="list-style-type: none"><li>• Introduction and need for nursing research<br/>Definition of Research &amp; nursing research<br/>Steps of scientific method</li><li>• Characteristics of good research<br/>Steps of Research process-overview</li></ul>                    |
| <b>II</b>     | <b>Research Problems/Question</b>  |
| <b>3 hrs.</b> | <ul style="list-style-type: none"><li>• Identification of problem area<br/>Problem statement<br/>Criteria of a good research problem.<br/>Writing objective</li></ul>  |
| <b>III</b>    | <b>Review of Literature</b>  |
| <b>3 hrs.</b> | <ul style="list-style-type: none"><li>• Location<br/>Sources<br/>On line search; CINHALL, COCHRANE etc.<br/>Purposes<br/>Method of review</li></ul>  |
| <b>IV</b>     | <b>Research approaches and designs</b>   |
| <b>4 hrs.</b> | <ul style="list-style-type: none"><li>• Historical, survey and experimental Qualitative and Quantitative designs</li></ul>   |
| <b>V</b>      | <b>Sampling and data collection</b>  |
| <b>8 hrs.</b> | <ul style="list-style-type: none"><li>• Definition of population, sample, Sampling criteria, factors influencing sampling process, types of sampling techniques.<br/>Data- why, what, from whom, when and where to collect.<br/>Data Collection methods and instruments:</li></ul> |

Methods of data collection  
Questioning, interviewing  
Observations, record analysis and measurement  
Types of instruments  
Validity & Reliability of the Instrument  
Pilot study  
 Data collection procedure

**VI Analysis of data:**

**4 hrs.** • Compilation, Tabulation, classification, summarization, presentation,  
interpretation of data

**VII Introduction to statistics**

15 Definition, use of statistics, scales of measurement.

**hrs.** • Frequency distribution and graphical presentation of data •  
Mean, Median, Mode, Standard deviation  
Normal probability and tests of significance  
• Co-efficient of correlation.  
Statistical packages and its application

**VIII Communication and utilization of Research**

**4 hrs.** • Communication of research findings  
Verbal report  
Writing research report  
Writing scientific article/paper  
Critical review of published research  
Utilization of research findings

***Department of Nursing***  
***P.K. University***  
***Paper Code BSC-N-305: Medical Surgical Nursing***  
***(Adult and Geriatrics) – II***  
***Practical***

Time : Theory-120 hrs.  
Practical-270 hrs.  
Internship – 430 hrs

**Clinical Area:** ENT, Ophthalmology, Neurology, Gynacecology, Burn unit, oncology, Critical care unit, causality/ emergency unit, ICCU.

| <b>Unit</b> | <b>Skill to be developed</b> |
|-------------|------------------------------|
|-------------|------------------------------|

- |     |   |
|-----|---|
| ●   | Perform examination of ear, nose and throat<br>Assist with diagnostic procedures<br>Assist with therapeutic procedures<br>Instillation of drops<br>Perform/assist with irrigations.   |
| ●   | Apply ear bandage   |
| ●   | Perform tracheostomy care   |
| ●   | Teach patients and families   |
| II  | ● Perform examination of eye<br>Assist with diagnostic procedures<br>Assist with therapeutic procedures<br>Perform/assist with irrigations<br>Apply eye bandage<br>Apply eye drops/ointments<br>Assist with foreign body removal<br>Teach patients and families |
| III | ● Perform Neurological<br>Examination<br>Use Glasgow Coma scale<br>Assist with diagnostic procedures  |



Assist with therapeutic procedure  
Teach patients & families  
Participate in rehabilitation program

- IV
- Assist with gynecological Examination
  - Assist with diagnostic procedures
  - Assist with therapeutic procedures
  - Teach patients families
  - Teaching self breast examination
  - Assist with PAP smear collection
- V
- Assessment of the burn patient
    - Percentage of burns
    - Degree of burns
  - Fluid & electrolyte replacement therapy
    - Assess
    - Calculate
    - Replace
    - Record intake/output
  - Care of Burn wounds
    - Bathing
    - Dressing
  - Perform active & passive exercise
  - Practice medical & surgical asepsis
  - Counsel & teach patients and families
  - Participate in rehabilitation program
- VI
- Screen for common cancers – TNM classification
  - Assist with diagnostic procedures
    - Biopsies
    - Pap smear
    - Bone – marrow aspiration
  - Breast examination
  - Assist with therapeutic procedures
  - Participates in various modalities of treatment
    - Bone – marrow aspiration

- Breast examination
- Assist with therapeutic procedures
- Participates in various modalities of treatment

Chemotherapy

Radiotherapy

Pain management

Stoma therapy

Hormonal therapy

Immuno therapy

Gene therapy

Alternative therapy

- Participate in palliative care

Counsel and teach patients families

Self Breast Examination

Warning sings

Participate in rehabilitation program

- VII
- Monitoring of patients in ICU
  - Maintain flow sheet
  - Care of patients on ventilators
  - Perform Endotracheal suction
  - Demonstrates use of ventilators, cardiac monitors etc.
  - Collect specimens and interprets ABG analysis
  - Assist with arterial puncture
  - Maintain CVP line
  - Pulse oximetry
  - COR-ALS
  - Defibrillators
  - Pace makers
  - Bag-mask ventilation
  - Emergency tray/trolley-crash cart
  - Administration of drugs
    - Infusion pump
    - Epidural

- Intrathecal
- Intracardiac
- Total parenteral therapy
- Chest physiotherapy
  - Perform active & passive exercises
  - Counsel the patient and family in dealing with grieving and bereavement

**VIII**

- Practice “triage”
- Assist with assessment examination, investigations & their interpretations, in emergency and disaster situations
- Assist in documentations
- Assist in legal procedures in emergency unit
- Participate in managing crowd
- Counsel patient and families in grief and bereavement

**Internship**

**Time: 430 hours (9 weeks)**

| Area                                | Duration (in week) | Objectives   | Skills to be developed | Assignments                                      |
|-------------------------------------|--------------------|--|------------------------|--|
| Medical Ward                        | 2                  | Provide comprehensive care to patients with medical and surgical conditions including emergencies<br><br>Assist with common operations | Integrated assess      | Assessment clinical performance with rating sale |
| Surgical Ward                       | 2                  |  |                        |  |
| Critical care unit/ICCU             | 1                  |  |                        |  |
| Casualty/Emergency                  | 2                  |  |                        |  |
| Operation Theatre (Eye, ENT, Neuro) | 2                  |  |                        |  |

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-306: Child Health Nursing***  
***Practical***

**Placements:** Third year

Time : Practical -270 hrs.  
(9 Weeks)

Internship – 145 hrs  
(3 Weeks)

Paediatric OPD/Imunization

**Clinical Areas :** Paediatric Medicine ward, Paediatric surgery ward, room, Paediatric medicine and surgery ICU, Nursery.

| <b>Unit</b> | <b>Skill to be developed</b> |
|-------------|------------------------------|
|-------------|------------------------------|

- |   |   |
|---|---|
| I | <ul style="list-style-type: none"><li>● Taking Paediatric History</li><li>Physical examination and assessment of children</li><li>Administer of oral, I/M &amp; IV medicine/fluids</li><li>Calculation of fluid requirements</li><li>● Prepare different strengths of I.V. fluids</li><li>Apply restraints</li><li>Administer O<sub>2</sub> inhalation by different methods</li><li>Give baby bath feed children by katori spoon, etc</li><li>Collect specimens for common investigations</li><li>Assist with common diagnostic procedures</li><li>Teach mothers/parents<ul style="list-style-type: none"><li>Malnutrition</li><li>Oral rehydration therapy</li><li>Feeding &amp; Weaning</li><li>Immunization schedule</li><li>Play therapy</li><li>Specific Disease conditions</li></ul></li><li>Calculate, prepare and administer I/V fluids</li><li>Do bowel wash</li><li>Care for ostomies<ul style="list-style-type: none"><li>Colostomy Irrigation</li></ul></li></ul> |
|---|---|

Ureterostomy  
 Gastrostomy  
 Enterostomy

Urinary catheterization and drainage

Feeding

Naso-gastric  
 Gastrostomy  
 Jejunostomy

Care of surgical wounds

- Dressing
- Suture removal

- II ● Assessment of children
- Health assessment
  - Developmental assessment
  - Immunization

Health/ Nutritional

- Education III ● Care of a baby in incubator/warmer

- Care of a child on ventilator
- Endotracheal suction
- Chest physiotherapy
- Administer fluids with infusion pump
- Total parenteral nutrition
- Photo therapy
- Monitoring of babies
- Cardio Pulmonary resuscitation

**Internship**

**Time : 145 hrs (3 weeks)**

| Area                         | Duration (in weeks) | Objective   | Skill to be develop   | Assessment                                      |
|------------------------------|---------------------|---|-----------------------|---|
| Paediatric medicine ward/ICU | 1                   | ● Provide comprehensive care to children with medical conditions  | ● Integrated Practice | ● Assess clinical performance with rating sale  |
| Paediatric surgery ward/ICU  | 1                   | ● Provide comprehensive care to children with surgical conditions | ● Integrated Practice | ● Assess clinical performance with rating scale |
| NICU                         | 1                   | ● Provide intensive care to neonates                              | ● Integrated Practice | ● Assess clinical performance with rating scale |



***Department of Nursing***  
***P.K.University***  
***Fourth Year***  
***Paper Code BSC-N-401: Midwifery and Obstetrical***  
***Nursing***

**Placements :**Fourth year

**Time :**Theory - 90 hrs.

**Course Description :** This course is designed for students to appreciate the concepts and principles of midwifery and obstetrical nursing. It helps them to acquire knowledge and skills in rendering nursing care to normal and high risk pregnant woman during antenatal, natal and post natal period in hospitals and community settings. It also helps to develop skills in managing normal and high risk neonates and participate in family welfare programme.

**Unit**

**Content**

**Introduction to midwifery and obstetrical Nursing**

- Introduction to concepts of midwifery and obstetrical nursing
- 3 hrs
- Trends in midwifery and obstetrical nursing
    - Historical perspectives and current trends
    - Legal and ethical aspects
    - Pre-conception care and preparing for parenthood
    - Role of nurse in midwifery and obstetrical care.
    - National policy and legislation in relation to maternal health and welfare.
    - Maternal, morbidity, mortality and fertility rates.
    - Perinatal, morbidity and mortality rates

**Review of anatomy and physiology of female reproductive system and foetal development**

- 8 hrs.
- Female pelvis-general description of the bones joints, ligaments, planes of the pelvis diameters of the true pelvis, important landmarks, variations in pelvis shape.
  - Female organs of reproduction-external genitalia, internal genital organs and their anatomical relations, musculature-blood-supply, nerves, lymphatics, pelvic cellular tissue, pelvic peritoneum.
  - Physiology of menstrual cycle
  - Human sexuality
  - Foetal development

Conception

Review of fertilization, implantation (embedding of the ovum), development of the embryo and placenta at term-functions, abnormalities, the foetal sac, amniotic fluid, the umbilical cord, Foetal circulation, foetal skull, bones, sutures and measurements.

Review of Genetics

**III Assessment and management of pregnancy (ante-natal)**

• **Normal pregnancy**

8 hrs. • Physiological changes during pregnancy

- Reproductive system
- Cardio vascular system
- Respiratory system
- Urinary system
- Gastro intestinal system
- Metabolic changes
- Skeletal changes
- Skin changes
- Endocrine system
- Psychological changes
- Discomforts of pregnancy

Diagnosis of pregnancy

- Signs
- Differential diagnosis
- Confirmatory test

Ante-natal care

- Objective
- Assessment
  - History and physical examination
  - Antenatal Examination
  - Signs of previous child-birth
    - Relationship of foetus to uterus and pelvis: Lie, Attitude, Presentation, position
    - Per-vaginal examination.

Screening and assessment for high risk;

Risk approach

History and Physical Examination

Modalities of diagnosis; Invasive & Non-Invasive, ultrasonic, cardiotomography,



- NST,CST
- Antenatal preparation
  - Antenatal counseling
  - Antenatal exercises
  - Diet
  - Substance use
  - Education for child-birth
  - Husband and families
  - Preparation for safe-confinement
  - Prevention from radiation
- Psycho-social and cultural aspects of pregnancy
  - Adjustment to pregnancy
  - Unwed mother
  - Single parent
  - Teenage pregnancy
  - Sexual violence
- Adoption

**IV Assessment and management of intra-natal period**

12 hrs.

- Physiology of labour, mechanism of labour
- Management of labour
  - First stage
    - Signs and symptoms of onset of labour; normal and abnormal
    - Duration
    - Preparation of;
    - Assessment and observation of women in labour; partogram-maternal and foetal monitoring
    - Active management of labour, Induction of labour
    - Pain relief and comfort in labour
  - Second stage
    - Signs and symptoms; normal and abnormal
    - Duration
    - Conduct of delivery ; Principles and techniques
    - Episiotomy (only if required)
  - Receiving the new born
    - Neonatal resuscitation; initial steps and subsequent resuscitation
    - Care of umbilical cord
    - Immediate assessment including screening for congenital anomalies
    - Identification
    - Bonding
    - Initiate feeding
    - Screening and transportation of the neonate

Third stage

- ▣ Signs and symptoms; normal and abnormal
- ▣ Duration
- ▣ Method of placental expulsion
- ▣ Management; Principles and technique
- ▣ Examination of the placenta
- ▣ Examination of perineum
- ▣ Maintaining records and reports

Fourth Stage

**Assessment and management of women during post natal period**

- 5 hrs.
- Normal puerperium ; Physiology, Duration
  - Postnatal assessment and management
    - ▣ Promoting physical and emotional well-being
    - ▣ Lactation management
    - ▣ Immunization
  - Family dynamics after child-birth.
  - Family welfare services; methods, counseling
  - Follow-up
  - Records and reports

VI **Assessment and management of normal neonates**

- 6 hrs.
- Normal neonate;
    - Physiological adaptation;
    - Initial & Daily assessment
    - Essential newborn care; Thermal control,
    - Breast feeding, presentation of infections
    - Immunization
    - Minor disorders of newborn and its management
    - Levels of neonatal care (level I, II, & III)
    - At primary, secondary and tertiary levels
    - Maintenance of Reports and Records

VII **High – risk pregnancy – assessment & management**

Screening and assessment

- ▣
- hrs. ▣ Ultrasonic, cardiotomography, NST, CST, non-invasive & invasive,  
Newer modalities of diagnosis

High-risk approach

Levels of care; primary, secondary and tertiary levels

Disorders of pregnancy

Hyper-emesis gravidarum, bleeding in early pregnancy, abortion, ectopic

Pregnancy, vesicular mole,

- Ante-partum haemorrhage.

Uterine abnormality and displacement.

Diseases complicating pregnancy

- Medical and surgical conditions  
Infections, RTI (STD), UTI, HIV, TORCH

Gynecological diseases complicating pregnancy

Pregnancy induced hypertension & diabetes,

Rh incompatibility

- Mental disorders

Adolescent pregnancy, elderly primi and grand multipara

Multiple pregnancy

Abnormalities of placenta & cord

Intra-uterine growth-retardation

Nursing management of mothers with high-risk pregnancy

Maintenance of records and report

## VIII **Abnormal Labour-assessment and management**

Disorders in labour

10  CPD and contracted pelvis

hrs.  Malpositions and malpresentations

Premature labour, disorders of uterine actions-precipitate labour, prolonged labour

Complications of third stage: injuries to birth canal

Obstetrical emergencies and their management;

▮

Presentation and prolapsed of cord, Vasa praevia, amniotic fluid embolism, rupture of uterus, shoulder dystocia, obstetrical shock

Obstetrical procedures and operations;

▮

Induction of labour, forceps, vacuum, version, manual removal of placenta, caesarean section, destructive operations

Nursing management of women undergoing Obstetrical operations and procedures

## IX **Abnormalities during Postnatal Periods**

- Assessment and management of woman with postnatal complications

4 hrs.  Puerperal infections, breast engorgement & infections, UTI, thrombo-Embolic disorders, post - partum hemorrhage, Eclampsia and subinvolution.



Infertility and its management

- Counseling for family welfare

Latest research in contraception

- Maintenance of vital statistics

Role of national, international and voluntary organizations

Role of a nurse in family welfare programme

Training/supervision/Collaboration with other functionaries in community like

ANMs. LHV's. Anganwadi workers, TBAs (Traditional birth attendant Dai)

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-402: Community Health Nursing - II***

**Placements :** Fourth year

Time : Theory - 90 hrs.

Practical - 135 hrs.

**Course Description :** This course is designed for students to practice community health nursing for the individual, family and groups at both urban and rural settings by using concepts and principles of health and community health nursing.

**Unit**

**Content**

**I Introduction**

**4 hrs.** • Definition, concept & scope of Community Health and Community Health Nursing.

Historical development of

Community health

Community health Nursing  
Pre-independence

Post-independence

**II Health planning and policies and problems**

**6 hrs.** • National health planning in India Five Year Plans

Various communities and commissions on health and family welfare

Central Council for Health and family welfare (CCH and FW)

National health policies (1983, 2002)

National population policy

Health problems in India

Environmental pollution: Cause, effects and control measures

Acts related to environmental health

Environment protection act

Air (prevention and control of pollution) Act

Water (prevention and control of pollution) Act

Wild life protection act

Forest conservation act

Issues involved in enforcement of environmental legislation

### III Delivery of community health services

- Planning, budgeting and material management of SCs, PHC and, CHC

hrs. • Rural : Organization staffing and functions of rural health services provided by government at:

- Village
- Subcentre
- Primary health centre
- Community health centre/sub divisional
- Hospitals
- District
- State
- Centre

- Urban: Organization, staffing and functions of urban health services provided by government at:

- Slums
- Dispensaries
- Maternal and child health centers
- Special Clinics
- Hospitals
- Corporation/Municipality/ Board

#### Components of health services

Environmental sanitation – causes, effects and control measures of urban waste.

Health education

Vital statistics

M.C.H. antenatal, natal, postnatal, MTP Act, female foeticide act, child adoption act.

Family welfare

National health programmes

School health services

Occupational health – solid waste management, cause effect and control measures.

Defense services

Institutional services

Systems of medicine and health care

□ Allopathy

▫ Indian system of Medicine and Homeopathy

□

Alternative health care systems like yoga, meditation, social and spiritual healing etc.

- Referral system

#### **IV Community health nursing approaches, concepts and roles and responsibilities of nursing personnel**

25  
hrs.

- Approaches
  - Nursing theories and nursing process
  - Epidemiological approach
  - Problems solving approach
  - Evidence based approach
  - Empowering people to care for themselves
  - Concepts of Primary Health Care :
    - Equitable distribution
    - Community participation
    - Focus on prevention
    - Use of appropriate technology
    - Multi-sectoral approach
- Roles and responsibilities of Community health nursing personnel in –
  - Family health services
  - Information Education communication(IEC) - Role in environment and health.
  - Management Information System (MIS): Maintenance of Records & Reports
  - Training and supervision of various categories of health workers
  - National Health Programmes
  - Environmental sanitation
  - Maternal and child health and Family welfare
  - Treatment of minor ailments
  - School Health Services
  - Occupational Health
  - Organization of clinics, camps: Types, Preparation, Planning, conduct and evaluation
  - Waste management in the center, clinics etc.
- Home visit: Concept, Principles, Process, Techniques: Bag technique in home visit
- Qualities of Community Health Nurse
- Job Description of Community health nursing personnel



**V Assisting individuals and groups to promote and maintain their health**

- Empowerment for self care of individuals, families and groups in-

**15 A- Assessment of self and family**

**hrs.**

- Monitoring growth and development
  - Mile stones
  - Weight measurement
  - Social development
- Temperature and Blood pressure monitoring
- Menstrual cycle
- Breast self examination and testicles examination
- Warning Sign of various diseases
- Tests : Urine for sugar and albumin, blood sugar

**B. Seek health services for**

- Routine checkup
- Immunization
- Counseling
- Diagnosis
- Treatment
- Follow up

**C. Maintenance of health records for self and family**

**D. Continue medical care and follow up in community for various diseases and disabilities.**

**E. Carryout therapeutic procedures as prescribed/required for self and family**

**F. Waste Management**

- Collection and disposable of waste at home and community

**G. Sensitize and handle social issues affecting health and development for self and family**

- Women Empowerment, Women and child welfare
- Women and child abuse
- Abuse of elders
- Female Foeticide
- Commercial sex workers

Y Food adulteration

Y Substance abuse

**H. Utilize community resources for self and family**

Trauma Services

Old age homes

Orphanage



Homes for physically and mentally challenged individuals



Homes for destitute

**VI National health and family welfare programmes and the role of a nurse**

National ARI programme

20  
hrs.

(2) Revised National Tuberculosis Control programme (RNTCP)

(3) National Anti-Malaria programme

National Filaria Control programme

National Guinea worm eradication programme

National Leprosy eradication programme

National AIDS control programme

STD control programme

National programme for control of blindness

Iodine deficiency disorder programme

Expanded programme on immunization

National Family welfare programme- RCH programme historical development, organization, administration, research, constraints

National water supply and sanitation programme

Minimum Need programme

National Diabetics control programme

Polio Eradication: Pulse Polio Programme

National Cancer Control Programme

Yaws Eradication Programme

National Nutritional Anemia Prophylaxis programme

20 point programme

ICDS programme

Mid-day meal applied nutritional programme

National mental health programme

Health schemes

ESI

CGHS

Health insurance

**VII • Health Agencies**

**International** – WHO, UNFPA, UNDP, World Bank, FAO, UNICEF, DANIDA,  
5 hrs. European Commission (EC), Red cross, USAID, UNESCO, Colombo Plan, ILO, Care  
etc.

**National** – Indian Red cross, Indian Council for child welfare, family planning  
Association of India (FPAI), Tuberculosis Association of India. Hindu Kusht Nivaran  
Sangh, Central Social Welfare Board, All India women's conference, Blind  
Association of India etc.

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-403: Management of Nursing***  
***Services and Education***

**Placements:** Fourth year

Time : Theory - 90 hrs.

**Course Description:** This course is designed to enable students to acquire understanding of management of clinical and community health nursing services, nursing educational programmes. This is also designed to enable students to acquire understanding of the professional responsibilities, prospects and contribution to the growth of the profession.

**Unit**

**Content**

**Introduction to management in nursing**

- Definition, concepts and theories

**4 hrs.** • Functions of management

- Principles of management
- Role of nurse as a manager

**II Management process**

**5 hrs.** • Planning; mission, philosophy, objectives, operational plan

- Staffing: philosophy, staffing study, norms, activities, patient classification systems, scheduling.

Human resource management; recruiting, selecting, deployment, retaining, promoting, super annuation etc.

Budgeting: concept, principles, types, cost benefit analysis, audit

Material management: equipment and supplies

Directing process (Leading)

Controlling: Quality management

Program Evaluation Review Technique (PERT), Bench marking, Activity plan (Gantt Chart).

**Management of nursing services in the hospital and Community**

**8 hrs.** • Planning:

- Hospital and patient care units including ward management and disaster management
- Emergency

- Human resource management:

**hrs.**  
**(P)**

- Recruiting, selecting, deployment, retaining, promoting, superannuation etc.  
Categories of nursing personnel including job description of all levels  
Patient/population classification systems  
Patients/ population assignment and nursing care responsibilities  
Staff development and welfare

Budgeting: proposal, projecting requirements for staff, equipments and supplies for -

- Hospital and patient care units
- Emergency and disaster management

Material Management; procurement, inventory control, auditing and maintenance in -

- Hospital and patient care units
- Emergency and disaster management

Directing and leading: delegation, participatory management -  
Assignments, rotations, delegations

- Supervision & guidance
- Implement standards, policies, procedures and practices
- Staff development and welfare
- Maintenance of discipline

Controlling/Evaluation:

- Nursing Rounds/Visits, nursing protocols, manuals
- Quality Assurance Model, documentation-
- Records and reports performance appraisal

#### **IV Organizational behaviour and human relations**

**5 hrs.**

- Concepts and theories of organizational behaviours
- Review of Channels of Communication  
Leadership styles  
Review of Motivation; concepts and theories  
Group dynamics  
Techniques of;  
Communication; and  
 Interpersonal relationships
- Human relations;  
Public relations in context of nursing  
Relations with professional associations and employee unions and  
Collective bargaining

**V In Service education**

- 5 hrs.** • Nature & scope of in-service education programme.  
**(T)** • Organization of in-service education

- 5 hrs.** • Principles of adult learning  
• Planning for in-service education program, techniques, methods & evaluation of staff education program,  
Preparation of report

**VI Management of nursing educational institutions**

- 10** • Establishment of nursing educational institution – INC norms and guidelines

**hrs.**

- Co-ordination with-
  - Regulatory bodies
  - Accreditation
  - Affiliation
    - Philosophy/objectives
    - Organization
  - Structure
  - Committees
    - Physical facilities
  - College/School
  - Hostel
    - Students
  - Selection
  - Admission

**Guidance and Counseling**

Maintaining discipline

**Faculty and staff  
Selection**

Recruitment

Job description

Placement

Performance appraisal

Development and welfare  
Budgeting

Equipments and supplies: audiovisual equipments, laboratory equipment, books, journals etc.

Curriculum; Planning, implementation and evaluation,  
Clinical facilities

- Transport facilities

Institutional Records and reports – Administrative, faculty, staff and students

## **VII Nursing as a profession**

- **Nursing as a profession**

Philosophy; nursing practice  
hrs.

Aims and objectives

Characteristics of a professional nurse

Regulatory bodies; INC, SNC Acts:- constitution, functions

Current trends and issues in nursing

- Professional ethics

Code of ethics; INC, ICN

Code of Professional conduct; INC, ICN

- Practice standards for Nursing; INC

- Consumer protection act

- Legal Aspects in nursing

Legal terms related to practice; registration and licensing

Laws related to nursing practice; Branch and penalties

Malpractice and negligence

## **VIII**

### **3 hrs. Professional Advancement:**

Continuing education

Career Opportunities

Collective bargaining

Membership with professional organizations; National and International

- Participation in research activities

- Publications; Journals, Newspapers etc.

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N-404: Midwifery and Obstetrical***  
***Nursing (Practical)***

Fourth year Time: Practical – 180 hrs Internship - 420 hrs.

**Clinical Areas :** Antenatal clinic/OPD, Antenatal wards Labour room O.T., Post natal ward, Newborn nursery, Family planning clinic, MCH Clinic.

| <b>Unit</b>                                     | <b>Skills to be developed</b>  |
|---|--|
| I   | <ul style="list-style-type: none"><li>● Antenatal history taking</li><li>● Physical examination</li><li>● Recording of Weight &amp; B.P.</li><li>● Hb &amp; Urine testing for sugar and albumin</li><li>● Antenatal examination abdomen and breast</li><li>● Immunization</li><li>● Assessment of risk status</li><li>● Teaching antenatal mothers</li></ul> Maintenance of Antenatal records  |
| II● Assessment of Woman in labour               | <ul style="list-style-type: none"><li>Pervaginal examinations and interpretation</li><li>Monitoring and caring of woman in labour</li><li>Maintenance of partograph</li><li>Conduct normal delivery</li><li>New born assessment and immediate care</li><li>Resuscitation of newborns</li><li>Assessment of risk status of newborn</li><li>Episiotomy and suturing</li><li>Maintenance of labour and birth records</li><li>Arrange for and assist with caesarean section and care for woman &amp; baby during Caesarean</li><li>Arrange for and assist with MTP and other surgical procedures</li></ul> |
| ● Examination and assessment of mother and Baby | <ul style="list-style-type: none"><li>Identification of deviations</li></ul>   |



Care of postnatal mother and baby

Perineal care

Lactation management

Breast feeding

Baby bath

Immunization

Teaching postnatal mother:

- Mother craft
- Post natal care & Exercises
- Immunization

Admission of neonates

Feeding of at risk neonates

- Katori spoon, paladi, tube feeding, total parenteral nutrition

Thermal management of neonates-kangaroo mother care, care of baby in incubator

- Monitoring and care of neonates

Administering medications

Intravenous therapy

Assisting with diagnostic procedure

Assisting with exchange transfusion

Care of baby on ventilator

Phototherapy

Infection control protocols in the nursery

Teaching and counselling of parents

Maintenance of neonatal records

- Counselling techniques

Insertion of IUD

Teaching on use of family planning methods

Arrange for and assist with family planning operations

Maintenance of record and reports

**\* Essential Requirements for registration as midwife**

|   |    |
|---|----|
| ◆ Antenatal examination                                       | 30 |
| ◆ Conducting normal deliveries in hospital/home/health centre | 20 |
| ◆ Vaginal examination   | 5  |
| ◆ Episiotomy and suturing                                     | 5  |
| ◆ Neonatal resuscitation                                      | 5  |
| ◆ Assist with Caesarean Section                               | 2  |
| ◆ Witness/Assist abnormal deliveries                          | 5  |
| ◆ Postnatal cases nursed in hospital/home/health centre       | 20 |
| ◆ Insertion of IUD  | 5  |

Note: All casebooks must be certified by teacher on completion of essential requirements.

**Internship Obstetrical Nursing**

**Internship Duration – 9 weeks (420 hours)**

| Area                              | Duration (In Weeks) | Objective  | Skills      | Assignment                                  | Assessment methods                              |
|-----------------------------------|---------------------|--|-------------|---|---|
| Labour ward                       | 3                   | ● Provide comprehensive care to mothers and neonates | ● Integrate | ● Completion of other essential requirement | ● Assess clinical performance with rating scale |
| Neonatal intensive care unit/NICU | 2                   |  |             | ● Case book recording                       | ● Completion of case book recording             |
| Antenatal                         | 2                   |  |             |   |   |
| Postnatal                         | 2                   |  |             |   |   |

***Department of Nursing***  
***P.K.University***  
***Paper Code BSC-N- 405: Community Health Nursing***  
***II Practical***

**Placements :** Fourth year

Time : Practical - 135 hrs.  
Internship - 192 hrs.

**Clinical Areas: Community health urban and rural centres.**

| <b>Unit</b>                 | <b>Skills to be developed</b>  |
|-----------------------------|--|
| ● Community health survey   |  |
| ● Home visit: Bag technique |  |
| <b>week</b>                 | ● Organize and conduct clinics antenatal, postnatal, well baby clinic, camps etc   |
| <b>Urban</b>                | ● Screen manage and referrals for:<br>High risk mothers and neonates<br>Accidents and emergencies  |
|                             | <input type="checkbox"/> Illnesses: Physical and mental  |
| <b>week</b>                 |  |
| <b>Rural</b>                | <input type="checkbox"/> Disabilities  |
|                             | ● Conduct delivery at centre/home: episiotomy and suturing   |
|                             | ● Resuscitate newborn  |
|                             | ● School health programme  |
|                             | <input type="checkbox"/> Screen, manage, refer children  |
|                             | <input type="checkbox"/> Collaborate with health and allied agencies   |
|                             | ● Train and supervise health workers   |
|                             | ● Provide family welfare services: insertion of IUD  |
|                             | ● Counsel and teach individuals, family and community about: HIV, TB, Diabetes, hypertension, Mental health, adolescents, elderly's health, physically and mentally challenged individuals etc |
|                             | ● Collect and calculate vital health statistics  |
|                             | ● Document and maintain  |
|                             | <input type="checkbox"/> Individual, family and administrative records.<br>Write reports – center, diseases, national health programme/projects.   |

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**Time : 192 hrs (4 weeks)**

**Internship:**

| <b>Area</b>  | <b>Duration</b> | <b>Objective</b>   | <b>Skills to be developed</b>   | <b>Assessment</b>   |
|--------------|-----------------|--|---|---|
| <b>Urban</b> | <b>4 weeks</b>  | <ul style="list-style-type: none"><li>• Provide comprehensive care to individual, family and community</li></ul> | <ul style="list-style-type: none"><li>• Integrated Practice and group project - I in each rural and urban</li></ul> | <ul style="list-style-type: none"><li>• Assess clinical performance with rating scale</li><li>• Evaluation of project</li></ul> |

**Note : During the Rural posting they should stay in health centers under the supervision of teachers.**