



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited A++ Grade by NAAC | 12B Status by UGC | Approved by AICTE

www.sathyabama.ac.in

Sathyabama College of Nursing

1.2.1 New Courses Introduced in 2023- 2024

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SATHYABAMA COLLEGE OF NURSING
Sathyabama Institute of Science and Technology
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Accredited with "A++" grade NAAC

Jeppiar Nagar, Rajiv Gandhi Salai, Chennai – 600119



Ref.No.203/Dean/SIST Reg/2023

19/07/2023

To
The Registrar,
Sathyabama Institute of Science and Technology,
Semmenchery,
Chennai.

Sir,

Sub: conduct of 5th Board of Studies meeting – request - reg:-

Ref: F.No. 11-1/2019-INC dated 5th July, 2021.

With above reference cited, we wish to bring to your kind notice that the B.Sc Nursing Regulations & Curriculum were revised by Indian Nursing Council and Tamil Nadu Nurses' and Midwives Council which is to be implemented from the Academic year 2022 to 2023 onwards .

Hence, we request you to kindly permit us to pass the Revised Regulations & Curriculum, 2020 of the INC in V BOS Meeting and to circulate the same to the Members of the BOS for approval.

Kindly do the needful.

Thanking you,

L. Lakshmi
yours truly,

(Dr. L. LAKSHMI)

Dean

Copy submitted to:
The Vice Chancellor,
Sathyabama Institute of Science and Technology.

DEAN
SATHYABAMA
COLLEGE OF NURSING
Jeppiar Nagar, Rajiv Gandhi Salai,
Chennai – 600 119.



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19/07/2023

V BOARD OF STUDIES MEETING

AGENDA

1. Revised Syllabus & Regulations, 2020
2. Conduct of Theory & Practical Examination as per the Revised curriculum
3. Mandatory Modules



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21st Jul , 2023

Duly received & Accepted by,

Prof. Dr. Hema Suresh Principal, ACS College of Nursing, M.G.R University, Maduravail, Chennai	
Prof. Dr. Tamilarasi B Principal, Madha College of Nursing, The T.N .Dr. M.G.R. Medical University, Chennai.	
Dr.S.Igni Sabasti Prabu Controller of Examinations, Sathyabama Institute of Science and Technology, Chemmenchery, Chenn	



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RESOLUTION PASSED BY THE BOARD OF STUDIES FOR U.G
NURSING COURSE BY CIRCULATION dated 19th Jul 2023

The Indian Nursing Council in their letter No. 11-1/2019-INC dated 5th July, 2021. communicated the Revised Regulations and Curriculum for B.Sc Nursing course.

Accepting the Revised Curriculum and Regulations- 2020, the same is circulated to members of the Board of Studies for U.G Nursing course on 27/07/2022 for approval and to pass the following resolution.

Resolved to approve the Revised Curriculum & Regulations, 2020 communicated by the Indian Nursing Council for B.Sc Nursing Course and the implementation of the same from the Academic Year 2022-23 and mandatory modules will be followed as per Tamilnadu Nurses & Midwives Council Norms.

APPROVED

MEMBERS


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Principal,
College of Nursing, Dr.MGR
Medical University,
Maduravoyal, Chennai


Prof. Dr. Tamarasi B.
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Madha College of Nursing,
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Mrs. Trupti Rekha Biswal
HOD, Dept. of Midwifery &
Obstetrical Nursing,
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Nursing,
Sathyabama Institute of
Science & technology, Chennai

Placement: First Year

Time: Theory-60 Hours (Theory 45+15 lab)

Course Description: This course is designed to enable students to acquire understanding of the fundamentals of Microbiology and identifications of various Micro-Organisms. It also provides opportunities for practicing infection control measures in hospital and community settings.

The learning objectives of are:

- Explain Concepts and principles of microbiology and their importance in nursing
- Describe structure, classification morphology and growth of bacteria
- Identify Micro-organisms
- Describe the methods of infection control
- Identify the role of nurse in hospital infection
- Control programme
- Describe the different producing organisms
- Explain the concept of immunity hyper sensitivity and immunization

Unit I: Introduction

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

Unit II: General characteristics of Microbes

- structure and classification of Microbes
- Morphological types
- size and form of bacteria
- Motility
- Colonization
- Growth and nutrition of microbes
 - a. Temperature
 - b. Moisture
 - c. Blood and body fluids
- Laboratory methods for Identification of Micro-organisms
- Staining techniques, Gram twining, Acid fast staining, Hanging drop preparation
- Culture: Various medias

Unit III: Infection control

- Infection: Sources, portals of entry and exit, transmission
- Asepsis
- Disinfection: 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.

Unit IV:

- Pathogenic organisms
 - Micro-organisms
 - Cocci - gram Positive and gram negative
 - Bacilli- gram positive and gram negative
 - Spirochaete
 - Mycoplasma Rickettsiae
 - Chlamydia
- Viruses
 - Fungi -Superficial and Deep Mycoses
 - Parasites
 - Rodents & vectors

Characteristics, Source, portal of entry, transmission of infection Identification of disease producing micro-organisms Collection, handling and Transportation of various specimens

Unit V: Immunity

- Immunity-Types, classification
- Antigen and antibody reaction • Hypersensitivity - skin test
- Serological tests

Immunoprophylaxis

- Vaccines & sera-Type & Classification, storage and handling, cold chain
- Immunization for various diseases
Immunization Schedule

The teaching learning activities will be in the form of Lecture discussions, Demonstration, Visits to CSSD and Clinical Practice.

The internal assessment will be done through tests consisting of short answers and Objective type

APPLIED MICROBIOLOGY AND INFECTION CONTROL INCLUDING SAFETY New

PLACEMENT: III SEMESTER

THEORY: 2 Credits (40 hours)

PRACTICAL: 1 Credit (40 hours) (Lab/Experiential Learning – L/E)

SECTION A: APPLIED MICROBIOLOGY

THEORY: 20 hours

PRACTICAL: 20 hours (Lab/Experiential Learning – L/E)

DESCRIPTION: This course is designed to enable students to acquire understanding of fundamentals of Microbiology, compare and contrast different microbes and comprehend the means of transmission and control of spread by various microorganisms. It also provides opportunities for practicing infection control measures in hospital and community settings.

COMPETENCIES: On completion of the course, the students will be able to:

1. Identify the ubiquity and diversity of microorganisms in the human body and the environment.
2. Classify and explain the morphology and growth of microbes.
3. Identify various types of microorganisms.
4. Explore mechanisms by which microorganisms cause disease.
5. Develop understanding of how the human immune system counteracts infection by specific and non-specific mechanisms.
6. Apply the principles of preparation and use of vaccines in immunization.
7. Identify the contribution of the microbiologist and the microbiology laboratory to the diagnosis of infection.

COURSE OUTLINE

T – Theory, L/E – Lab/Experiential Learning

Unit	Time (Hrs)		Learning Outcome s	Content	Teaching/ Learning Activities	Assessment Methods
	T	P				

I	3		Explain concepts and principles of microbiology and its importance in nursing	Introduction: • Importance and relevance to nursing • Historical perspective • Concepts and terminology • Principles of microbiology	• Lecture cum Discussion	• Short answer • Objective type
II	10	10 (L/E)	Describe structure, classification morphology and growth of bacteria Identify Microorganisms	General characteristics of Microbes: • Structure and classification of Microbes • Morphological types • Size and form of bacteria • Motility • Colonization • Growth and nutrition of microbes • Temperature • Moisture • Blood and body fluids • Laboratory methods for Identification of Microorganisms • Types of Staining – simple, differential (Gram's, AFB), special – capsular staining (negative), spore, LPCB, KOH mount. • Culture and media preparation – solid and liquid. Types of media – semi synthetic, synthetic, enriched, enrichment, selective and differential media. Pure culture techniques – tube dilution, pour, spread, streak plate. Anaerobic cultivation of bacteria	• Lecture cum Discussion • Demonstration • Experiential Learning through visual	• Short answer • Objective type
III	4	6 (L/E)	Describe the different disease producing organisms	Pathogenic organisms • Micro-organisms: Cocci – gram positive and gram negative; Bacilli – gram positive and gram negative • Viruses • Fungi: Superficial and Deep mycoses • Parasites • Rodents & Vectors ◦ Characteristics, Source, portal of entry, transmission of infection, Identification of disease producing micro-organisms	• Lecture cum Discussion • Demonstration • Experiential learning through visual	• Short answer • Objective type
IV	3	4 (L/E)	Explain the concepts of immunity,	Immunity • Immunity: Types, classification • Antigen and antibody reaction • Hypersensitivity reactions	• Lecture • Discussion • Demonstration • Visit to observe	• Short answer • Objective type • Visit report

			hyper sensitivity and immunizat ion	• Serological tests • Immunoglobulins: Structure, types & properties • Vaccines: Types & classification, storage and handling, cold chain, Immunization for various diseases Immunization Schedule	vaccine storage • Clinical practice	
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SECTION B: INFECTION CONTROL & SAFETY New

THEORY: 20 hours

PRACTICAL/LAB: 20 hours (Lab/Experiential Learning – L/E)

DESCRIPTION: This course is designed to help students to acquire knowledge and develop competencies required for fundamental patient safety and infection control in delivering patient care. It also focuses on identifying patient safety indicators, preventing and managing hospital acquired infections, and in following universal precautions.

COMPETENCIES: The students will be able to:

1. Develop knowledge and understanding of Hospital acquired Infections (HAI) and effective practices for prevention.
2. Integrate the knowledge of isolation (Barrier and reverse barrier) techniques in implementing various precautions.
3. Demonstrate and practice steps in Hand washing and appropriate use of different types of PPE.
4. Illustrate various disinfection and sterilization methods and techniques.
5. Demonstrate knowledge and skill in specimen collection, handling and transport to optimize the diagnosis for treatment.
6. Incorporate the principles and guidelines of Bio Medical waste management.
7. Apply the principles of Antibiotic stewardship in performing the nurses' role.
8. Identify patient safety indicators and perform the role of nurse in the patient safety audit process.
9. Apply the knowledge of International Patient Safety Goals (IPSG) in the patient care settings.
10. Identify employee safety indicators and risk of occupational hazards.
11. Develop understanding of the various safety protocols and adhere to those protocols.

COURSE OUTLINE

T – Theory, L/E – Lab/Experiential Learning

Unit	Time (Hrs)		Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
	T	P				
1	2	2 (E)	Summarize the evidence based and effective patient care practices for the prevention of common healthcare associated infections in the healthcare setting	HAI (Hospital acquired Infection) • Hospital acquired infection • Bundle approach - Prevention of Urinary Tract Infection (UTI) - Prevention of Surgical Site Infection (SSI) - Prevention of Ventilator	• Lecture & Discussion • Experiential learning	• Knowledge assessment • MCQ • Short answer
				Associated events (VAE) - Prevention of Central Line Associated Blood Stream Infection (CLABSI) • Surveillance of HAI – Infection control team & Infection control committee	•	•

Unit	Time (Hrs)		Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
	T	P				
II	3	4 (L)	Demonstrate appropriate use of different types of PPEs and the critical use of risk assessment	Isolation Precautions and use of Personal Protective Equipment (PPE) - Types of isolation system, standard precaution and transmission-based precautions (Direct Contact, Droplet, Indirect) - Epidemiology & Infection prevention – CDC guidelines - Effective use of PPE	- Lecture - Demonstration & Re-demonstration	- Performance assessment - OSCE
III	1	2 (L)	Demonstrate the hand hygiene practice and its effectiveness on infection control	Hand Hygiene - Types of Hand hygiene. - Hand washing and use of alcohol hand rub - Moments of Hand Hygiene - WHO hand hygiene promotion	- Lecture - Demonstration & Re-demonstration	Performance assessment
IV	1	2 (E)	Illustrates disinfection and sterilization in the healthcare setting	Disinfection and sterilization - Definitions - Types of disinfection and sterilization - Environment cleaning - Equipment Cleaning - Guides on use of disinfectants - Spaulding's principle	- Lecture - Discussion - Experiential learning through visit	- Short answer - Objective type
V	1		Illustrate on what, when, how, why specimens are collected to optimize the diagnosis for treatment and management.	Specimen Collection (Review) - Principle of specimen collection - Types of specimens - Collection techniques and special considerations - Appropriate containers - Transportation of the sample - Staff precautions in handling specimens	Discussion	- Knowledge evaluation - Quiz - Performance assessment - Checklist

			Captures and analyzes incidents and events for quality improvement 	Incidents and adverse Events • Capturing of incidents • RCA (Root Cause Analysis) • CAPA (Corrective and Preventive Action) • Report writing	Learning	assessment • Short answer • Objective type
IX	1		Enumerate IPSG and application of the goals in the patient care settings.	IPSG (International Patient safety Goals) • Identify patient correctly • Improve effective communication • Improve safety of High Alert medication • Ensure safe surgery • Reduce the risk of health care associated infection • Reduce the risk of patient harm resulting from falls • Reduce the harm associated with clinical alarm system	• Lecture • Role play	• Objective type
X	2	3 (L/E)	Enumerate the various safety protocols and its applications	Safety protocol • 5S (Sort, Set in order, Shine, Standardize, Sustain) • Radiation safety • Laser safety • Fire safety - Types and classification of fire - Fire alarms - Firefighting equipment • HAZMAT (Hazardous Materials) safety - Types of spill - Spillage management - MSDS (Material Safety Data Sheets) • Environmental safety - Risk assessment - Aspect impact analysis - Maintenance of Temp and Humidity (Department wise) - Audits • Emergency Codes • Role of Nurse in times of disaster	• Lecture • Demonstration / Experiential learning	• Mock drills • Post tests • Checklist

nit	Time (Hrs)		Learning Outcome s	Content	Teaching/ Learning Activities	Assessment Methods
	T	P				
XI	2		Explain importance of employee safety indicators	Employee Safety Indicators • Vaccination • Needle stick injuries (NSI) prevention • Fall prevention • Radiation safety • Annual health check	• Lecture • Discussion • Lecture method • Journal review	• Knowledge assessment by short answers, objective type • Short answer
XII			Identify risk of occupational hazards, prevention and post exposure prophylaxis.	Healthcare Worker Immunization Program and management of occupational exposure • Occupational health ordinance • Vaccination program for healthcare staff • Needle stick injuries and prevention and post exposure prophylaxis	•	•

PHARMACOLOGY, PATHOLOGY, GENETICS Old

Section A – Pharmacology Old

PLACEMENT : II YEAR

DURATION- Theory: 45 Hours

COURSE DESCRIPTION: This course is designed to enable students to acquire understanding of pharmaco-dynamics, pharmacokinetics, principles of therapeutics and nursing implications.

The learning objectives of are:

- The meaning of Pharmacodynamics, pharmacokinetics, classification and the principles of drug administration
- Chemotherapy of specific infections and infestations and nurse's responsibilities
- To know Antiseptics, disinfectants, insecticides and nurse's responsibilities
- Drugs acting on Gastro Intestinal System and nurses's responsibilities
- Drugs used on Respiratory Systems and nurse's responsibilities
- Drugs used on Urinary system and nurse's responsibilities
- Drugs used in Dead diction, emergency, deficiency of vitamins & minerals, poisoning, for immunization and immuno-suppression and nurse's responsibilities
- Drugs used in skin and mucous membranes and nurse's responsibilities
- Drugs used on Cardio vascular System and nurse's responsibilities
- Drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities
- To Demonstrate awareness of the common drugs used in alternative system of medicine

Unit I : Introduction to Pharmacology

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

Unit II: Chemotherapy

- Pharmacology of commonly used;
 - Pencillin
 - Cephalosporins
 - Aminoglycosides
 - Macrolide and Broad spectrum Antibiotics
 - Sulfonamides
 - Quinolones
 - Antiamoebic
 - Antimalarials
 - Anthelmintics
 - Antiscabies agents
 - Antiviral & anti fungal agents
 - Antitubercular drugs
 - Anti leprosy drugs
 - Anti cancer drugs
 - Immuno – suppressants
 - Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse Normal and Cancer cell

Unit III: Pharmacology of commonly used antiseptics, disinfectants and insecticides

- Antiseptics

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

Unit IV: Drugs acting on G.I system

- Pharmacology of commonly used -
 - Antiemetics
 - Emetics
 - Purgatives
 - Antacids
 - Cholinergic
 - Anticholinergics
 - Fluid and electrolyte therapy
 - Anti diarrhoeals
 - Histamines
 - Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.

Unit V: Drugs used on Respiratory systems

- Pharmacology of commonly used -
 - Antiasthmatics
 - Mucolytics
 - Decongestants
 - Expectorants
 - Antitussives
 - Broncho constrictors
 - Antihistamines
 - Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.

Unit VI: Drugs used on Urinary system

- Pharmacology of commonly used -
 - Diuretics and antidiuretics
 - Urinary antiseptics
 - Cholinergic and anticholinergics
 - Acidifiers and alkalinizers
 - Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.

Unit VII: Miscellaneous

- Drugs used in de-addiction
- Drugs used in CPR and emergency
- Vitamins and minerals
- Immunosuppressants
- Antidotes
- Antivenom
- Vaccines and sera

Unit VIII: Drugs used on skin and mucous membranes

- 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.

Unit IX: Drugs acting on nervous system

- Basic and applied pharmacology of commonly used:
 - Analgesics
 - Non steroidal anti-inflammatory (NSAID) drugs
 - Antipyretics
 - Hypnotics and Sedatives
 - Opioids
 - Non - Opioids
 - Tranquilizers

- Genral and local anesthetics
- Gases: oxygen, nitrous oxide, carbon-di-oxide
- Cholinergic and anti-cholinergics
 - Muscle relaxants
 - Major tranquilizers
 - Anti-psychotics
 - Antidepressants
 - Anticonvulsants
 - Adrenergics
 - Noradrenegics
 - Mood stabilizers
 - Acetylcholine
 - Stimulants

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

Unit X: Cardiovascular drugs

- Haematinics
- Cardiotonics
- Anti anginals
- Anti – hypertensives & Vasodilators
- Anti – arrhythmics
- Plasma expanders
- Coagulants & anticoagulants
- Antiplatelets & thrombolytics
- Hypolipidemics

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

Unit XI: Drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy

- Insulin & Oral hypoglycemic
- Thyroid supplements and suppressants
- Steroids, Anabolics
- Uterine stimulants and relaxants
- Oral contraceptives
- Other estrogen – progesterone preparations
- Corticotrophine and Gonadotropines
- Adrenaline
- Prostaglandins
- Clacitonins
- Calcium salts
- Calcium regulators

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

Unit XII: Introduction to Drugs used in alternative systems of medicine:

- Ayurveda, Homeopathy, Unani and Siddha etc

The teaching learning activities will be in the form of Lecture discussions, drug study / presentation, observational visits. The internal assessment will be done through tests consisting of essay type, short answers.

Section B – Pathology Old

PLACEMENT: II YEAR

DURATION- Theory: 30 Hours

COURSE DESCRIPTION: This course is designed to enable students to acquire knowledge of pathology of various disease conditions and apply this knowledge in practice of nursing.

The learning objectives of are:

- To know the common terms used in pathology
- Appreciate the deviations from normal to abnormal structure and functions of the body system.
- To explain the Pathological changes in disease conditions of various systems.
- The various laboratory tests in assessment and monitoring of disease conditions
- The laboratory tests for examinations of body cavity fluids, transudates and exudates
- The laboratory tests for examination of Urine and faeces.

Unit I :

• **Introduction**

- Importance of the study of pathology
- Definition of terms
- Methods and techniques
- Cellular and Tissue changes
- Infiltration and regeneration
- Inflammations and Infections
- Wound healing
- Vascular changes
- Cellular growth, Neoplasms
 - Normal and Cancer cell
 - Benign and Malignant growths
 - In situ carcinoma
 - Disturbances
- Disturbances of fluid and electrolyte imbalance

Unit II : **Special Pathology**

- ❖ Pathological changes in disease conditions of various systems:
- ❖ Respiratory tract
 - Tuberculosis, Bronchitis, Pleural effusion and pneumonia
 - Lung abscess, emphysema, bronchiectasis
 - Bronchial asthma, Chronic obstructive Pulmonary diseases & tumors
- Cardio – vascular system
 - Pericardial effusion
 - Rheumatic heart disease
 - Infective endocarditis, atherosclerosis
 - Ischemia, infarction & aneurysm
- Gastro Intestinal Tract
 - Peptic ulcer, typhoid
 - Carcinoma of GI tract – buccal, Esophageal,
 - Gastric and intestinal
- Liver, Gall bladder & pancreas
 - Hepatitis, Chronic liver, abscess, cirrhosis
 - Tumors of liver, gall bladder and pancreas
 - Cholecystitis
- Kidneys & Urinary tract
 - Glomerulonephritis, pyelonephritis
 - Calculi, renal failure, renal carcinoma & cystitis
- Male genital systems
 - Cryptorchidism, testicular atrophy
 - Prostatic hyperplasia, carcinoma Penis and prostate
- Female genital system
 - Fibroids
 - Carcinoma cervix and Endometrium
 - Vesicular mole, choriocarcinoma
 - Ectopic gestation

- Ovarian cyst & tumors
- Cancer Breast
- Central nervous system
 - Hydrocephalus, Meningitis, encephalitis
 - Vascular disorders – thrombosis, embolism
 - Stroke, paraplegia, quadriplegia
 - Tumors, meningiomas – gliomas
- Metastatic tumour
- Skeletal system
 - Bone healing, osteoporosis, osteomyelitis
- Arthritis & tumors

Unit III : **Clinical Pathology**

- Various blood and bone marrow tests in assessment and monitoring of disease conditions
 - Haemoglobin
 - RBC, White cell & platelet counts
 - Bleeding time, clotting time and prothrombin time
 - 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 values

Unit IV: **Examination of body cavity fluids, transudates and exudates**

The laboratory tests used in CSF analysis

- Examination of other body cavity fluids, transudates and exudates – sputum, wound discharge etc
- Analysis of gastric and duodenal contents
- 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

Unit V: **Urine and faeces**

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

The teaching learning activities will be in the form of Lecture discussions, explaining using charts, slides, specimen, X-rays, scans and visit to clinical Pathology & Biochemistry lab and blood bank.

The internal assessment will be done through tests consisting of essay type, short answer questions.

Section C – Genetics Old

PLACEMENT: II YEAR

DURATION- Theory: 15 (20) Hours

COURSE DESCRIPTION: This course is designed to enable students to acquire understanding of Genetics, its role in causation and management of defects and diseases.

The learning objectives of are:

- To know the principles and perspective of heredity
- Maternal, prenatal and genetic influences on development of defects and diseases
- The screening methods for genetic defects and diseases in neonates and children
- To identify genetic disorders in adolescents and adults
- The role of nurse in genetic services and counseling

Unit I : **Introduction**

- Practical application of genetics in Nursing
- Impact of genetic condition on families
- Review of cellular division mitosis and meiosis
- Characteristics and structure of genes
- Chromosomes – sex determination
- Chromosomal aberrations patterns of inheritance
 - Mendalian theory of inheritance
 - Multiple allots and blood groups
 - Sex linked inheritance
 - Mechanism of inheritance
 - Errors in transmission(Mutation)

Unit II: **Maternal, prenatal and genetic influences on development of defects and diseases**

- Conditions affecting the mother: genetic and infections
- Consanguinity atopy
- Prenatal nutrition and food allergies
- Maternal Age
- Maternal drug therapy
- Prenatal testing and diagnosis
- Effect of Radiation, drugs and chemicals
- Infertility
- Spontaneous abortion
- Neural Tube Defects and the role of folic acid in lowering the risks
- Down syndrome (Trisomy 21)

Unit III: **Genetic testing in the neonates and children**

- Screening for
 - Congenital abnormalities
 - Development delay
 - Dysmorphism

Unit IV: **Genetic conditions of adolescents and adults**

- Cancer genetics – Familial Cancer
- Inborn errors alleles and haematological disorder
- Genetic haemochromatosis
- Huntington's diseases
- Mental illness

Unit V: **Services related to Genetics**

- Genetic testing
- Human genome project
- Gene therapy
- The Eugenic movement
- Genetic Counselling
- Legal and Ethical issues

Role of nurse

Unit VI: **Natural Resources *:**

- Energy resources; growing energy needs, renewable and non renewable energy
- Sources, use of alternate energy sources, Case-studies.

The teaching learning activities will be in the form of Lecture discussions, explaining using charts and slides.

The internal assessment will be done through tests consisting of essay type, short answer questions.

PHARMACOLOGY - I New

PLACEMENT: III SEMESTER

THEORY: 1 Credit (20 hours)

DESCRIPTION: This course is designed to enable students to acquire understanding of Pharmacodynamics, Pharmacokinetics, principles of therapeutics and nursing implications.

COMPETENCIES: On completion of the course, the students will be able to

1. Describe pharmacodynamics and pharmacokinetics.
2. Review the principles of drug calculation and administration.
3. Explain the commonly used antiseptics and disinfectants.
4. Describe the pharmacology of drugs acting on the GI system.
5. Describe the pharmacology of drugs acting on the respiratory system.
6. Describe drugs used in the treatment of cardiovascular and blood disorders.
7. Explain the drugs used in the treatment of endocrine system disorders.
8. Describe the drugs acting on skin and drugs used to treat communicable diseases.

COURSE OUTLINE

T – Theory

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/Learning Activities	Assessment Methods
I	3 (T)	Describe Pharmacodynamics, Pharmacokinetics, Classification, principles of administration of drugs	Introduction to Pharmacology • Definitions & Branches • Nature & Sources of drugs • Dosage Forms and Routes of drug administration • Terminology used • Classification, Abbreviations, Prescription, Drug Calculation, Weights and Measures • <i>Pharmacodynamics</i>: Actions, Drug Antagonism, Synergism, Tolerance, Receptors, Therapeutic, adverse, toxic effects, pharmacovigilance • <i>Pharmacokinetics</i>: Absorption, Bioavailability, Distribution, Metabolism, Interaction, Excretion • Review: Principles of drug administration and treatment individualization ○ Factors affecting dose, route etc. • Indian Pharmacopoeia: Legal Issues, Drug Laws, Schedule Drugs • Rational Use of Drugs • Principles of Therapeutics	• Lecture cum Discussion • Guided reading and written assignment on schedule K drugs	• Short answer • Objective type • Assessment of assignments

II	1 (T)	Describe antiseptics, and disinfectant & nurse's responsibilities	Pharmacology of commonly used antiseptics and disinfectants - Antiseptics and Disinfectants - Composition, action, dosage, route, indications, contraindications, Drug interactions, side effects, adverse effects, toxicity and role of nurse	- Lecture cum Discussion - Drug study/ presentation	- Short answer - Objective type
III	2 (T)	Describe drugs acting on gastro-intestinal system & nurse's responsibilities	Drugs acting on G.I. system - Pharmacology of commonly used drugs - Emetics and Antiemetics - Laxatives and Purgatives - Antacids and antipeptic ulcer drugs - Anti-diarrhoeals – Fluid and electrolyte therapy, Furazolidone, dicyclomine - Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse	- Lecture cum Discussion - Drug study/ presentation	- Short answer - Objective type

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/Learning Activities	Assessment Methods
IV	2 (T)	Describe drugs acting on respiratory system & nurse's responsibilities	Drugs acting on respiratory system - Pharmacology of commonly used - Antiasthmatics – Bronchodilators (Salbutamol inhalers) - Decongestants - Expectorants, Antitussives and Mucolytics - Broncho-constrictors and Antihistamines - Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects toxicity and role of nurse	- Lecture cum Discussion - Drug study/ presentation	- Short answer - Objective type

V	4 (T)	Describe drugs used on cardio-vascular system & nurse's responsibilities	Drugs used in treatment of Cardiovascular system and blood disorders • Haematinics, & treatment of anemia and antiadrenergics • Cholinergic and anticholinergic • Adrenergic Drugs for CHF & vasodilators • Antianginals • Antiarrhythmics • Antihypertensives • Coagulants & Anticoagulants • Antiplatelets & thrombolytics • Hypolipidemics • Plasma expanders & treatment of shock • Drugs used to treat blood disorders • Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse	• Lecture cum Discussion • Drug study/ presentation	• Short answer • Objective type
VI	2 (T)	Describe the drugs used in treatment of endocrine system disorders	Drugs used in treatment of endocrine system disorders • Insulin & oral hypoglycemics • Thyroid and anti-thyroid drugs • Steroids - oCorticosteroids - oAnabolic steroids • Calcitonin, parathormone, vitamin D3, calcium metabolism - o Calcium salts	• Lecture cum Discussion • Drug study/ presentation	• Short answer • Objective type

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/Learning Activities	Assessment Methods
VII	1 (T)	Describe drugs used in skin diseases & nurse's responsibilities	Drugs used in treatment of integumentary system • Antihistaminics and antipruritics • Topical applications for skin- Benzylbenzoate, Gamma BHC, Clotrimazole, Miconazole, Silver Sulphadiazine (burns) • Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects toxicity and role of nurse	• Lecture cum Discussion • Drug study/ presentation	• Short answer • Objective type

VIII	5 (T)	Explain drug therapy/ chemotherapy of specific infections & infestations & nurse's responsibilities	Drugs used in treatment of communicable diseases (common infections, infestations) • General Principles for use of Antimicrobials • Pharmacology of commonly used drugs: ◦ Penicillin, Cephalosporin's, Aminoglycosides, Macrolide & broad spectrum antibiotics, Sulfonamides, quinolones, Misc. antimicrobials • Anaerobic infections • Antitubercular drugs, • Antileprosy drugs • Antimalarials • Antiretroviral drugs • Antiviral agents • Anthelmintics, Antiscabies agents • Antifungal agents • Composition, action, dosage, route, indications, contraindications, Drug interactions, side effects, adverse effects, toxicity and role of nurse	• Lecture cum Discussion • Drug study/ presentation	• Short answer • Objective type
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PATHOLOGY - I New

PLACEMENT: III SEMESTER

THEORY: 1 Credit (20 hours) (includes lab hours also)

DESCRIPTION: This course is designed to enable students to acquire knowledge of pathology of various disease conditions, understanding of genetics, its role in causation and management of defects and diseases and to apply this knowledge in practice of nursing.

COMPETENCIES: On completion of the course, the students will be able to

1. Apply the knowledge of pathology in understanding the deviations from normal to abnormal pathology.
2. Rationalize the various laboratory investigations in diagnosing pathological disorders.
3. Demonstrate the understanding of the methods of collection of blood, body cavity fluids, urine and feces for various tests.
4. Apply the knowledge of genetics in understanding the various pathological disorders.
5. Appreciate the various manifestations in patients with diagnosed genetic abnormalities.
6. Rationalize the specific diagnostic tests in the detection of genetic abnormalities.
7. Demonstrate the understanding of various services related to genetics.

COURSE OUTLINE

T – Theory

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
I	8 (T)	Define the common terms used in pathology Identify the deviations from normal to abnormal structure and functions of body system	Introduction - Importance of the study of pathology - Definition of terms in pathology - Cell injury: Etiology, pathogenesis of reversible and irreversible cell injury, Necrosis, Gangrene - Cellular adaptations: Atrophy, Hypertrophy, Hyperplasia, Metaplasia, Dysplasia, Apoptosis - Inflammation: - Acute inflammation (Vascular and Cellular events, systemic effects of acute inflammation) - Chronic inflammation (Granulomatous inflammation, systemic effects of chronic inflammation) - Wound healing - Neoplasia: Nomenclature, Normal and Cancer cell, Benign and malignant tumors, Carcinoma in situ, Tumor metastasis: general mechanism, routes of spread and examples of each route - Circulatory disturbances: Thrombosis, embolism, shock - Disturbance of body fluids and electrolytes: Edema, Transudates and Exudates	- Lecture - Discussion - Explain using slides - Explain with clinical scenarios	- Short answer - Objective type
II	5 (T)	Explain pathological changes in disease conditions of various systems	Special Pathology Pathological changes in disease conditions of selected systems: 1. Respiratory system - Pulmonary infections: Pneumonia, Lung abscess, pulmonary tuberculosis - Chronic Obstructive Pulmonary Disease: Chronic bronchitis, Emphysema, Bronchial Asthma, Bronchiectasis - Tumors of Lungs 2. Cardio-vascular system - Atherosclerosis - Ischemia and Infarction.	- Lecture - Discussion - Explain using slides, X-rays and scans - Visit to pathology lab, endoscopy unit and OT	- Short answer - Objective type

			• Rheumatic Heart Disease		
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Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
			• Infective endocarditis 3. Gastrointestinal tract • Peptic ulcer disease (Gastric and Duodenal ulcer) • Gastritis-H Pylori infection • Oral mucosa: Oral Leukoplakia, Squamous cell carcinoma • Esophageal cancer • Gastric cancer • Intestinal: Typhoid ulcer, Inflammatory Bowel Disease (Crohn's disease and Ulcerative colitis), Colorectal cancer 4. Liver, Gall Bladder and Pancreas • Liver: Hepatitis, Amoebic Liver abscess, Cirrhosis of Liver • Gall bladder: Cholecystitis. • Pancreas: Pancreatitis • Tumors of liver, Gall bladder and Pancreas 5. Skeletal system • Bone: Bone healing, Osteoporosis, Osteomyelitis, Tumors • Joints: Arthritis - Rheumatoid arthritis and Osteoarthritis 6. Endocrine system • Diabetes Mellitus • Goitre • Carcinoma thyroid		

III	7 (T)	Describe various laboratory tests in assessment and monitoring of disease conditions	Hematological tests for the diagnosis of blood disorders • Blood tests: Hemoglobin, White cell and platelet counts, PCV, ESR • Coagulation tests: Bleeding time (BT), Prothrombin time (PT), Activated Partial Prothrombin Time (APTT) • Blood chemistry • Blood bank: ○ Blood grouping and cross matching ○ Blood components ○ Plasmapheresis ○ Transfusion reactions Note: Few lab hours can be planned for observation and visits (Less than 1 credit, lab hours are not specified separately)	• Lecture • Discussion • Visit to clinical lab, biochemistry lab and blood bank	• Short answer • Objective type
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MEDICAL SURGICAL NURSING-I

(ADULT INCLUDING GERIATRICS) – I Old

Placement: Second year

Duration: Theory – 210 (215) hours

Practical – 720 hours

Course Description: The purpose of this course is to acquire knowledge and develop proficiency in caring for patients with medical and surgical disorders in varieties of health care settings and at home.

The learning objectives are:

- Appreciate the trends in medical and surgical nursing
- To describe the role of a nurse in caring for adult patient in hospital and community
- The concepts of Medical Surgical asepsis
- The common signs, symptoms, problems and their specific nursing interventions
- The etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of respiratory systems, digestive systems, with blood and cardio vascular problems.
- The vascular conditions and its nursing management
- The etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of genito urinary system, male reproductive system, endocrine system, disorders of skin, disorders of musculo – skeletal system, Immunological system, patients with communicable diseases.
- The organization and physical set up of operation theatre
- To identify the various instruments and equipments used for common surgical procedures
- The infection control measures in the operation theatre
- The role of the nurse in Peri Operative Nursing care

Unit I : Introduction

- Introduction to medical surgical nursing – Evolution and trends of medical and surgical nursing
- Review of concepts of health and illness, Disease concepts, causations, classification – International classification Diseases (ICD-10 or later version), Acute illness Chronic illness & Terminal illness stages of illness.
- Review of concepts of comprehensive nursing care in medical surgical conditions based on nursing process.
 - ❖ Role of nurse, patient and family in care of adult patient
 - ❖ Role and responsibilities of a nurse in medical surgical settings
- Out patient department
- In-patient unit
- Intensive care unit
- Home and community settings
- Introduction to Medical Surgical asepsis
- Inflammation and Infection Wound healing
- Care of Surgical Patient
- Pre – operative
- Intra operative
- Post Operative

Unit II: Common signs and symptoms and management

- Fluid and electrolyte imbalance
- Vomiting
- Dyspnea and cough, respiratory obstruction
- Fever
- Shock
- Unconsciousness, Syncope
- Pain
- Incontinence
- Edema
- Age related problems – geriatric

Unit III: Nursing management of patients (adults including elderly) with respiratory problems

- Review of anatomy and physiology of respiratory systems
- Nursing Assessment – History and Physical Assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of adults including elderly with -
 - Upper Respiratory tract infections
 - Bronchitis

- Asthma
- Emphysema
- Empyema
- Atelectasis
- Chronic Obstructive Pulmonary Diseases (COPD)
- Bronchiectasis
- Pneumonia
- Pulmonary tuberculosis
- Lung abscess
- Pleural effusion
- Cysts and Tumors
- Chest injuries
- Respiratory arrest and insufficiency
- Pulmonary embolism

Special therapies, alternative therapies

Nursing procedures

respiratory disorders

Drugs used in treatment of

Unit IV: **Nursing management of patients (adults including elderly) with disorders of digestive problems**

- 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 and 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 and infection, obstruction and tumour and lump
 - Hernias
 - Appendix – inflammation, mass, abscess, rupture
 - Anal & Rectum: hemorrhoids, fissures, Fistulas
 - Peritonitis / acute abdomen
 - Pancreas: inflammation, obstruction, stones and tumours
 - Liver: inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure tumours

Special therapies, alternative therapies

Nursing procedures

Drugs used in treatment of disorders of digestive system

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

- Review of anatomy and physiology of blood and cardio vascular problems
- Nursing Assessment – History and Physical Assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of
- Blood & Cardio-Vascular systems
 - Hypertension, Hypotension
 - Arteriosclerosis
 - 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 diseases
 - Endocarditis, Pericarditis, Myocarditis
 - Cardio Myopathies
 - Cardio 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. Bio – safety and waste management in relation to blood transfusion
 - Role of a nurse in Organ donation, retrieval and banking

Alternative therapies

Nursing procedures

Drugs used in treatment of blood and cardio vascular disorders.

Unit VI: **Nursing management of patients (adults including elderly) with genito urinary problems**

- 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 and nursing management of genito urinary system.
- Nephritis
- Nephritic syndrome
- Nephrosis
- Renal calculus
- Tumors
- 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, tumor, prostate

Special therapies

Nursing procedures

Drugs used in treatment of genitor urinary disorders.

Unit VII: **Nursing management of disorders of male (adults including elderly) reproductive 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 and nursing management of disorders of male reproductive system
- Congenital; malformations; cryptorchidism
- Hypospadias
- Infections
- Testis and adjacent structures
- Penis
- Prostate : inflammation, infection, hypertrophy, tumour
- Sexual Dysfunction
- Infertility
- Contraception
- Breast; gynaecomastia, tumour
- Climacteric changes, special therapies, alternative therapies

Nursing procedures

Drugs used in treatment of disorders of male reproductive system

Unit VIII: **Nursing management of patients (adults including elderly) with disorders of endocrine system**

- 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 disorder of endocrine system.
 - Disorders of thyroid and Parathyroid
 - Diabetes mellitus
 - Diabetes insipidus
 - Adrenal tumour
 - Pituitary disorders

Special therapies

Alternative therapies

Nursing procedures

Drugs used in treatment of disorders of endocrine system

Unit IX: Nursing management of patients (adults including elderly) with disorders of Integumentary system

- Review of anatomy and physiology of Skin and appendages
- Nursing Assessment – History and Physical Assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of disorders of skin and its appendages
 - Lesions and abrasions
 - Infection and infestations; Dermatitis
 - Dermatoses; infectious and Non infectious
 - “ inflammatory dermatoses”
 - Acne Vulgaris
 - Psoriasis
 - Malignant melanoma
 - Alopecia

Special therapies

Alternative therapies

Nursing procedures

Drugs used in treatment of disorders of Integumentary system

Unit X: Nursing management of patients (adults including elderly) with musculo skeletal problems

- Review of anatomy and physiology of musculo skeletal system
- Nursing Assessment – History and Physical Assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of disorder of musculoskeletal system.
- Disorders 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 and replacement surgeries
- Rehabilitation, Special therapies, alternative therapies

Nursing procedures

Drugs used in treatment of disorders of musculo skeletal system

Unit XI: Nursing management of patients (adults including elderly) with Immunological problems

- Review of anatomy and physiology of Immune system
- Nursing Assessment – History and Physical Assessment
- Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of
- Immuno deficiency disorder

- Primary immune deficiency.
- Phagocyte dysfunction
- B-cell and T-cell deficiencies
- Secondary immunodeficiencies
- Acquired immunodeficiency 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

Unit XII: **Nursing management of patients (adults including elderly) with communicable diseases:**

- Overview of infectious disease, the infectious process
- Nursing Assessment – History and Physical Assessment
- Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention and dietetics. Control and eradication of common communicable Diseases –
 - Tuberculosis
 - Diarrhoeal diseases
 - Hepatitis A-E
 - Herpes
 - Chicken pox
 - Small pox
 - Typhoid
 - Meningitis
 - Gas gangrene
 - Leprosy
 - Dengue
 - Plague
 - Malaria
 - Diphtheria
 - Pertussis
 - Poliomyelitis
 - Measles
 - Influenza
 - Tetanus
 - Yellow fever
 - Filariasis
- 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 disease.

Unit XIII: **Peri operative nursing:**

- Organization and Physical set up of the Operation Theatre (OT):
 - Classification
 - 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
- Scrubbing procedures
- Gowning and gloving
- Preparation of O.T sets
- Monitoring patient during surgical procedures
- Maintenance of therapeutic environment in O.T
- Standard safety measures
 - Infection control; fumigation, disinfection and sterilization
 - Biomedical waste management
 - Prevention of accidents and hazards in O.T
- Anaesthesia
 - Types
 - Methods of administration
 - Effects and Stages
 - Equipments
 - Drugs
- Cardio Pulmonary Resuscitation (CPR)
- Pain management techniques
- Legal aspects

Unit XIV: Biomedical Waste Management *

- ❖ Introduction
 - What is Biomedical Waste Management
 - Risk from Biomedical Waste Management If not managed properly
 - Environmental Hazard
 - Occupational Hazard
 - Public Health Hazard
 - Advantages of proper Management of Bio Medical waste
- ❖ Legal Provision
 - Salient features of Biomedical Waste Management
 - Categories of Biomedical Waste
 - Category wise Treatment and Disposal Methodology
 - Segregation, Packaging ,storage and transportation
- ❖ Occupational Safety and health of health care worker
 - ⌚ Occupational risk of chemical reactions
 - ⌚ Disease transmission
 - ⌚ Nurses safety
 - ⌚ Role of Nurse in Biomedical Waste Management
- ❖ Bio Medical Waste Management
 - Bio Medical Waste Management in Hospitals where common Bio medical waste Management Facility is Not Available
 - Bio Medical Waste Management in Hospitals where common Bio medical waste Management Facility is Available
 - Bio Medical Waste Management in primary Health centers and small scale Hospitals in Rural Areas
 - Unit Wise Generation of Bio Medical Waste and its Requirement
 - Facilities Required for Managing Bio Medical Waste
 - Do's and Don't In Bio-Medical Waste Management
- ❖ **Management Structure and Assignment of Responsibilities**

The teaching learning activities will be in the form of Lecture discussions, demonstrations, practice session, supervised clinical practice, seminar, case discussion, explaining using charts, slides, models, films, graphs, Drug book presentation, health education, participation in blood donation camps, visit to blood bank, counseling, orientation visit to hospital etc.

The internal assessment will be done through tests consisting of essay type, short answer questions, assessment of skills with check list, Assessment of patient management problem.

ADULT HEALTH NURSING - I WITH INTEGRATED PATHOPHYSIOLOGY (including BCLS module)

New

PLACEMENT: III SEMESTER

THEORY: 7 Credits (140 hours)

PRACTICUM: Lab/Skill Lab (SL) – 1 Credit (40 hours) Clinical – 6 Credits (480 hours)

DESCRIPTION: This course is designed to equip the students to review and apply their knowledge of Anatomy, Physiology, Biochemistry and Behavioral sciences in caring for adult patients with Medical/Surgical disorders using nursing process approach and critical thinking. It also intends to develop competencies required for assessment, diagnosis, treatment, nursing management, and supportive/palliative care to patients with various Medical Surgical disorders.

COMPETENCIES: On completion of Medical Surgical Nursing I course, students will be able to

1. Explain the etiology, pathophysiology, manifestations, diagnostic studies, treatments and complications of common medical and surgical disorders.
2. Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of anatomy, physiology and diagnostic tests in the process of data collection.
3. Identify nursing diagnoses, list them according to priority and formulate nursing care plan.
4. Perform nursing procedures skillfully and apply scientific principles while giving comprehensive nursing care to patients.
5. Integrate knowledge of pathology, nutrition and pharmacology in caring for patients experiencing various medical and surgical disorders.
6. Identify common diagnostic measures related to the health problems with emphasis on nursing assessment and responsibilities.
7. Demonstrate skill in assisting/performing diagnostic and therapeutic procedures.
8. Demonstrate competencies/skills to patients undergoing treatment for medical surgical disorders.
9. Identify the drugs used in treating patients with medical surgical conditions.
10. Plan and give relevant individual and group education on significant medical surgical topics.
11. Maintain safe environment for patients and the health care personnel in the hospital.
12. Integrate evidence-based information while giving nursing care to patients.

COURSE CONTENT

T – Theory, L/SL – Lab/Skill Lab

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
I	6 (T) 4 (L/SL)	Narrate the evolution of medical surgical nursing Apply nursing process in caring for patients with medical surgical problems Execute the role of a nurse in various medical surgical setting Develop skills in assessment and care of wound Develop competency in providing pre and postoperative care	Introduction • Evolution and trends of medical and surgical nursing • International classification of diseases • Roles and responsibility of a nurse in medical and surgical settings ○ Outpatient department ○ In-patient unit ○ Intensive care unit • Introduction to medical and surgical asepsis ○ Inflammation, infection ○ Wound healing – stages, influencing factors ○ Wound care and dressing technique • Care of surgical patient ○ pre-operative ○ post-operative • Alternative therapies used in caring for patients with Medical Surgical Disorders	• Lecture cum discussion • Demonstration & Practice session • Role play • Visit to outpatient department, in patient and intensive care unit	• Short Answer • OSCE

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
II	15 (T) 4 (L/SL)	Explain organizational set up of the operating theatre Differentiate the role of scrub nurse and circulating nurse Describe the different positioning for various surgeries Apply principles of asepsis in handling the sterile equipment Demonstrate skill in scrubbing procedures Demonstrate skill in assessing the patient and document accurately the surgical safety checklist Develop skill in assisting with selected surgeries Explain the types, functions, and nursing considerations for different types of anaesthesia	Intraoperative Care • Organization and physical set up of the operation theatre ◦ Classification ◦ O.T Design ◦ Staffing ◦ Members of the OT team ◦ Duties and responsibilities of the nurse in OT • Position and draping for common surgical procedures • Instruments, sutures and suture materials, equipment for common surgical procedures • Disinfection and sterilization of equipment • Preparation of sets for common surgical procedures • Scrubbing procedures – Gowning, masking and gloving • Monitoring the patient during the procedures • Maintenance of the therapeutic environment in OT • Assisting in major and minor operation, handling specimen • Prevention of accidents and hazards in OT • Anaesthesia – types, methods of administration, effects and stages, equipment & drugs • Legal aspects	• Lecture cum Discussion • Demonstration, Practice session, and Case Discussion • Visit to receiving bay	• Caring for patient intra operatively • Submit a list of disinfectants used for instruments with the action and precaution
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Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
III	6 (T) 4 (L/SL)	Identify the signs and symptoms of shock and electrolyte imbalances Develop skills in managing fluid and electrolyte imbalances	Nursing care of patients with common signs and symptoms and management • Fluid and electrolyte imbalance • Shock • Pain	• Lecture, discussion, demonstration • Case discussion	• Short answer • MCQ • Case report
IV	18 (T) 4 (L)	Demonstrate skill in respiratory assessment Differentiates different breath sounds and lists the indications Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of common respiratory problems Describe the health behaviour to be adopted in preventing respiratory illnesses	Nursing Management of patients with respiratory problems • Review of anatomy and physiology of respiratory system • Nursing Assessment – history taking, physical assessment and diagnostic tests • Common respiratory problems: ○ Upper respiratory tract infections ○ Chronic obstructive pulmonary diseases ○ Pleural effusion, Empyema ○ Bronchiectasis ○ Pneumonia ○ Lung abscess ○ Cyst and tumors ○ Chest Injuries ○ Acute respiratory distress syndrome ○ Pulmonary embolism • Health behaviours to prevent respiratory illness	• Lecture, discussion, • Demonstration • Practice session • Case presentation • Visit to PFT Lab	• Essay • Short answer • OSCE

V	16 (T) 5 (L)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of gastrointestinal disorders Demonstrate skill in gastrointestinal assessment Prepare patient for upper and lower gastrointestinal investigations Demonstrate skill in gastric decompression, gavage, and stoma care Demonstrate skill in different feeding techniques	Nursing Management of patients with disorders of digestive system • Review of anatomy and physiology of GI system • Nursing assessment –History and physical assessment • GI investigations • Common GI disorders: ○ Oral cavity: lips, gums and teeth ○ GI: Bleeding, Infections, Inflammation, tumors, Obstruction, Perforation & Peritonitis ○ Peptic & duodenal ulcer, ○ Mal-absorption, Appendicitis, Hernias ○ Hemorrhoids, fissures, Fistulas ○ Pancreas: inflammation, cysts, and tumors ○ Liver: inflammation, cysts, abscess, cirrhosis, portal hypertension, hepatic failure, tumors ○ Gall bladder: inflammation, Cholelithiasis, tumors • Gastric decompression, gavage and stoma care, different feeding techniques Alternative therapies, drugs used in treatment of disorders of digestive system	• Lecture, Discussion • Demonstration, • Role play • Problem Based Learning • Visit to stoma clinic	• Short answer • Quiz • OSCE
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Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
VI	20 (T) 5 (L)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of cardiovascular disorders Demonstrate skill in cardiovascular assessment Prepare patient for invasive and non-invasive cardiac procedures Demonstrate skill in monitoring and interpreting clinical signs related to cardiac disorders Complete BLS/BCLS module	Nursing Management of patients with cardiovascular problems • Review of anatomy and physiology of cardiovascular system • Nursing Assessment: History and Physical assessment • Invasive & non-invasive cardiac procedures • Disorders of vascular system- Hypertension, arteriosclerosis, Raynaud's disease, aneurysm and peripheral vascular disorders • Coronary artery diseases: coronary atherosclerosis, Angina pectoris, myocardial infarction • Valvular disorders: congenital and acquired • Rheumatic heart disease: pericarditis, myocarditis, endocarditis, cardiomyopathies • Cardiac dysrhythmias, heart block • Congestive heart failure, corpulmonale, pulmonary edema, cardiogenic shock, cardiac tamponade • Cardiopulmonary arrest	• Lecture, discussion • Demonstration • Practice session • Case Discussion • Health education • Drug Book/ presentation • Completion of BCLS Module	• Care plan • Drug record • BLS/ BCLS evaluation
VII	7 (T) 3 (L)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of hematological disorders	Nursing Management of patients with disorders of blood • Review of Anatomy and Physiology of blood • Nursing assessment: history, physical assessment & Diagnostic tests • Anemia, Polycythemia • Bleeding Disorders: clotting factor defects and platelets defects, thalassemia, leukemia, leukopenia,	• Field visit to blood bank • Counseling	• Interpretation of blood reports • Visit report

			• Interpret blood reports		
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Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
		Prepare and provides health education on blood donation	agranulocytosis • Lymphomas, myelomas		
VIII	8 (T) 2 (L)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of endocrine disorders Demonstrate skill in assessment of endocrine organ dysfunction Prepare and provides health education on diabetic diet Demonstrate skill in insulin administration	Nursing management of patients with disorders of endocrine system • Review of anatomy and physiology of endocrine system • Nursing Assessment –History and Physical assessment • Disorders of thyroid and Parathyroid, Adrenal and Pituitary (Hyper, Hypo, tumors) • Diabetes mellitus	• Lecture, discussion, demonstration • Practice session • Case Discussion • Health education	• Prepare health education on self-administration of insulin • Submits a diabetic diet plan

IX	8 (T) 2 (L)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of disorders of integumentary system Demonstrate skill in integumentary assessment Demonstrate skill in medicated bath Prepare and provide health education on skin care	Nursing management of patients with disorders of Integumentary system • Review of anatomy and physiology of skin • Nursing Assessment: History and Physical assessment • Infection and infestations; Dermatitis • Dermatoses; infectious and Non infectious • Acne, Allergies, Eczema & Pemphigus • Psoriasis, Malignant melanoma, Alopecia • Special therapies, alternative therapies • Drugs used in treatment of disorders of integumentary system	• Lecture, discussion • Demonstration • Practice session • Case Discussion	• Drug report • Preparation of Home care plan
X	16 (T) 4 (L)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of musculoskeletal disorders Demonstrate skill in musculoskeletal assessment Prepare patient for radiological and non-radiological investigations of musculoskeletal system Demonstrate skill in crutch walking and splinting Demonstrate skill in care of patient with replacement surgeries Prepare and provide health education on	Nursing management of patients with musculoskeletal problems • Review of Anatomy and physiology of the musculoskeletal system • Nursing Assessment: History and physical assessment, diagnostic tests Musculoskeletal trauma: Dislocation, fracture, sprain, strain, contusion, amputation • Musculoskeletal infections and tumors: Osteomyelitis, benign and malignant tumour • Orthopedic modalities: Cast, splint, traction, crutch walking • Musculoskeletal inflammation: Bursitis, synovitis, arthritis • Special therapies, alternative therapies • Metabolic bone disorder: Osteoporosis, osteomalacia and Paget's disease • Spinal column defects and deformities – tumor, prolapsed intervertebral disc, Pott's spine • Rehabilitation, prosthesis • Replacement surgeries • bone healing	• Lecture/ • Discussion • Demonstration • Case Discussion • Health education	• Nursing care plan • Prepare health teaching on care of patient with cast

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
XI	20 (T) 3 (L)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of patients with communicable diseases Demonstrate skill in barrier and reverse barrier techniques Demonstrate skill in execution of different isolation protocols	Nursing management of patients with Communicable diseases • Overview of infectious diseases, the infectious process • Nursing Assessment: History and Physical assessment, Diagnostic tests • Tuberculosis • Diarrhoeal diseases, hepatitis A- E, Typhoid • Herpes, chickenpox, Smallpox, Measles, Mumps, Influenza • Meningitis • Gas gangrene • Leprosy • Dengue, Plague, Malaria, Chikungunya, swine flu, Filariasis • Diphtheria, Pertussis, Tetanus, Poliomyelitis • COVID-19 • Special infection control measures: Notification, Isolation, Quarantine, Immunization	• Lecture, discussion, demonstration • Practice session • Case Discussion/ seminar • Health education • Drug Book/ presentation • Refer TB Control & Management module	• Prepares and submits protocol on various isolation techniques

MEDICAL SURGICAL NURSING PRACTICAL Old (ADULT INCLUDING GERIATRICS) – I

Placement: Second year

Duration: Practical – 720 hours

The objectives are:

- To provide nursing care to adult patients with medical disorders
- Counsel and educate patients and families
- To provide pre and post operative nursing care to adult patients with surgical disorders
- Counsel and educate patients and families
- To provide nursing care to patients with cardiac disorders
- Counsel and educate patients and families
- To identify skin problems
- To provide nursing care to patients with skin disorders and communicable diseases
- Counsel and educate patients and families
- To provide nursing care to patients with musculo skeletal disorders
- Counsel and educate patients and families
- To identify instruments used in common operations
- To participate in Infection control practices in the Operation Theatre
- Set-up the table / trolleys for common operative procedures
- Assist in giving anaesthesia
- Assist in the operative procedures
- Provide peri operative nursing care
- To gain proficiency in ICU nursing
- To develop advance skill in special procedures used in critical care unit
- To identify potential problems and provide accordingly.
- Skill in setting and handling ventilator
- Administer injection in infusion pump
- To record accurately findings and medications
- To develop IPR with family members
- To acquaint with OT technique.
- To develop skill in neurological assessment
- Give care to the patient with head injury and spinal injury.
- Care with chest surgery and cranial surgery
- To assess the severity of burns
- To administer rehydration therapy
- Observe reconstructive surgery
- To identify instrument
- To assist in OT set up
- Supervise sterilization
- Assist in OT table lay out
- Observe immediately after operation
- Supervise infection control

Areas:

General Medical Ward (Respiratory, GI, Endocrine, Renal, Hematology)

- Assessment of the patient
 - Taking History
 - Perform general and specific physical examination
 - Identify alterations and deviations
- Practice medical surgical asepsis – Standard safety measures
- Administer medications
 - Oral, IC, IM, Subcutaneous
- IV therapy
 - IV cannulation

Maintenance and monitoring

- Oxygen therapy by different methods
- Nebulization
- Chest physiotherapy
- Naso gastric feeding
- Assist in common diagnostic
- Perform / Assist on therapeutic procedures
- Blood and component therapy

- Throat suctioning
- Collect specimens for common investigations
- Maintain elimination
 - Catheterization
 - Bowel wash
 - Enema
 - Urinary drainage
- ❖ Maintain intake, output and documentation
- ❖ Counsel and teach related to specific disease conditions

General Surgical Ward: (GI, Urinary CTVS)

- Practice medical surgical asepsis – Standard safety measures.
- Pre operative preparation of patients
- Post operative care – Receiving pt, assessment, monitoring care
- Care of wounds and drainage
- Suture removal
- Ambulation and exercise
- Naso gastric aspiration
- Care of chest drainage
- Ostomy care
 - Gastrostomy
 - Colostomy
 - Enterostomy
- Blood and component therapy
- Practice universal precautions

Cardiology ward

- Physical examination of the cardio vascular system Recoding and interpreting ECG
- Monitoring of patients
- Preparation and assisting in non-invasive and invasive diagnostic procedures
- Administer cardiac drugs
- Cardio pulmonary Resuscitation
- Teach patients and families
- Practice, medical and surgical asepsis – Standard safety measures

Skin and communicable diseases ward:

- 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
- Teach prevention of infectious diseases

Orthopaedic ward:

- Assements of orthopaedic patients
- Assis 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 exercised (ROM), muscle strengthening exercises
- Crutch maneuvering technique
- Activities of daily living
- Ambulation
- Teach and counsel patients and families

Operation Theatre:

- Scrubbing, gowning and gloving
- Identify instruments used in common operations
- Disinfection, Carbolization, fumigation, Preparation of instrument sets for common operations
- Sterilization of sharps 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 guidelines

Assignments :

- Plan and give care to 3-4 assigned patients
- Nursing care plan – 2
- Nursing care study / presentation / Health talk– 1
- Drug presentation – 1
- Maintain drug book
- Maintain practical record book
- Plan and give care to 2-3 assigned patients
- Counseling HIV patients and families -1
- Assist as a circulatory nurse in major cases – 10
- Minor cases 3-5
- Assist as a scrub nurse in major cases – 10
- Minor cases 5

The internal assessment will be in the form of assessing clinical performance with rating scale, assess each skill with check list, evaluation of case study, observation report and health talk, completion of practical record, activity record.

Internship

Duration – 260 hours

The objectives are :

- To gain proficiency in ICU nursing
- Develop advance skill in special procedures used in critical care unit
- Identify potential problems and provide accordingly
- Skill in setting and handling ventilator
- Administer injection in infusion pump
- Record accurately findings and medications
- Develop IPR with family members
- Acquaint with OT technique.

Areas: ICU, CCU, CARDIAC OT

- Assist in arterial puncture for blood gas analysis
- Perform ECG and interpret accordingly conduct and analysis pulse oximetry
- Care with artificial airway
- Assist in endotracheal intubation
- Setting up ventilator
- Giving care in ventilator
- Drug sheet
- Observation of special procedure in OT.

Areas: Neuro ICU, ITU, OT

- Assess neurological status
- Implement care to head injury, spinal injury patients
- Drug sheet
- Pre and post operative care with neuro surgery patients

Areas: Burns and plastic Reconstructive surgery

- Nursing care

Assignments:

- Arterial puncture – 5
- Taking out ECG stripe – 5
- Tracheal suction - 5
- for all assigned patients
- oxygen administration by CPAP mask and use Ambu bag
- Assessment for all assigned patients
- Nursing care with ventilator

- Drug sheet
- Assist cases

- The assessment will be done through record book, checking with supervisor, observation check list.

ADULT HEALTH NURSING - I WITH INTEGRATED PATHOPHYSIOLOGY (including BCLS module)

New

CLINICAL PRACTICUM

CLINICAL PRACTICUM: 6 Credits (480 hours) - 18 weeks × 27 hours

PRACTICE COMPETENCIES: On completion of the clinical practicum, the students will be able to apply nursing process and critical thinking in delivering holistic nursing care including rehabilitation to the adult patients undergoing surgery, with shock and fluid and electrolyte imbalance and with selected medical & surgical conditions i.e., Gastrointestinal, Respiratory, Endocrine, Orthopedic, Dermatology and Cardiovascular disorders.

The students will be competent to:

- Utilize the nursing process in providing care to the sick adults in the hospital:
 - Perform complete health assessment to establish a data base for providing quality patient care.
 - Integrate the knowledge of diagnostic tests in the process of data collection.
 - Identify nursing diagnoses and list them according to priority.
 - Formulate nursing care plan, using problem solving approach.
 - Apply scientific principles while giving nursing care to patients.
 - Perform nursing procedures skillfully on patients.
 - Establish/develop interpersonal relationship with patients and family members.
 - Evaluate the expected outcomes and modify the plan according to the patient needs.
- Provide comfort and safety to adult patients in the hospital.
- Maintain safe environment for patients during hospitalization.
- Explain nursing actions appropriately to the patients and family members.
- Ensure patient safety while providing nursing procedures.
- Assess the educational needs of the patient and their family related to medical and surgical disorders and provide appropriate health education to patients.
- Provide pre, intra and post-operative care to patients undergoing surgery.
- Integrate knowledge of pathology, nutrition and pharmacology for patients experiencing various medical and surgical disorders.
- Integrate evidence-based information while giving nursing care to patients.
- Demonstrate the awareness of legal and ethical issues in nursing practice.

I. NURSING MANAGEMENT OF PATIENTS WITH MEDICAL CONDITIONS

A. Skill Lab

Use of manikins and simulators

- Intravenous therapy
- Oxygen through mask
- Oxygen through nasal prongs
- Venturi mask
- Nebulization
- Chest physiotherapy

B. Clinical Postings

Clinical area/unit	Duration (weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
General medical	4	Develop skill in intravenous injection administration	- Intravenous therapy ○ IV cannulation ○ IV maintenance and monitoring ○ Administration of IV medication	- Care Study – 1 - Health education - Clinical presentation/ Care	- Clinical evaluation - OSCE - Care Study

		and IV therapy			
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		Assist with diagnostic procedures Develop skill in the management of patients with Respiratory problems Develop skill in managing patients with metabolic abnormality	- Care of patient with Central line - Preparation and assisting and monitoring of patients undergoing diagnostic procedures such as thoracentesis, Abdominal paracentesis <i>Management patients with respiratory problems</i> - Administration of oxygen through mask, nasal prongs, venturi mask - Pulse oximetry - Nebulization - Chest physiotherapy - Postural drainage - Oropharyngeal suctioning - Care of patient with chest drainage - Diet Planning - High Protein diet - Diabetic diet - Insulin administration - Monitoring GRBS	note) – 1	evaluation Care Note/ Clinical presentation
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II. NURSING MANAGEMENT OF PATIENTS WITH SURGICAL CONDITIONS

A. Skill Lab

Use of manikins and simulators

- Nasogastric aspiration
- Surgical dressing
- Suture removal
- Colostomy care/ileostomy care
- Enteral feeding

B. Clinical Postings

Clinical area/unit	Duration (Weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
General surgical wards	4	Develop skill in caring for patients during pre- and post-operative period Assist with diagnostic procedures	- Pre-Operative care - Immediate Post-operative care - Post-operative exercise - Pain assessment - Pain Management - Assisting diagnostic procedure and after care of patients undergoing - Colonoscopy - ERCP	- Care study – 1 - Health teaching	- Clinical evaluation , OSCE - Care study - Care note/ Clinical presentation

		Develop skill in managing patient with Gastro-intestinal Problems	○ Endoscopy ○ Liver Biopsy		
		Develop skill in wound management	● Gastrostomy/Jejunostomy feeds ● Ileostomy/Colostomy care ● Surgical dressing ● Suture removal ● Surgical soak ● Sitz bath ● Care of drain		

III. NURSING MANAGEMENT OF PATIENTS WITH CARDIAC CONDITIONS

A. Skill Lab

Use of manikins and simulators

- Cardiovascular assessment
- Interpreting ECG
- BLS/BCLS
- CPR
- ABG analysis
- Taking blood sample
- Arterial blood gas analysis – interpretation

B. Clinical Postings

Clinical area/unit	Duration (Weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Cardiology wards	2	Develop skill in management of patients with cardiac problems Develop skill in management of patients with disorders of Blood	• Cardiac monitoring • Recording and interpreting ECG • Arterial blood gas analysis – interpretation • Administer cardiac drugs • Preparation and after care of patients for cardiac catheterization • CPR • Collection of blood sample for: ○ Blood grouping/cross matching ○ Blood sugar ○ Serum electrolytes • Assisting with blood transfusion • Assisting for bone marrow aspiration • Application of anti-embolism stockings (TED hose) • Application/maintenance of sequential Compression device	• Cardiac assessment – 1 • Drug presentation – 1	• Clinical evaluation • Drug presentation

IV. NURSING MANAGEMENT OF PATIENTS WITH DISORDERS OF INTEGUMENTARY SYSTEM

A. Skill Lab

Use of manikins and simulators

Application of topical medication

B. Clinical Postings

Clinical area/unit	Duration (Weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Dermatology wards	1	Develop skill in management of patients with disorders of integumentary system	- Intradermal injection-Skin allergy testing - Application of topical medication - Medicated bath		Clinical evaluation

V. NURSING MANAGEMENT OF PATIENTS WITH COMMUNICABLE DISEASES

A. Skill Lab

- Barrier Nursing
- Reverse Barrier Nursing
- Standard precautions

B. Clinical Postings

Clinical area/unit	Duration (Weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Isolation ward	1	Develop skill in the management of patients requiring isolation	- Barrier Nursing - Reverse barrier nursing - Standard precautions (Universal precaution), use of PPE, needle stick and sharp injury prevention, Cleaning and disinfection, Respiratory hygiene, waste disposal and safe injection practices)	Care Note – 1	- Clinical evaluation - Care note

VI. NURSING MANAGEMENT OF PATIENTS WITH MUSCULOSKELETAL PROBLEMS

A. Skill Lab

Use of manikins and simulators

- Range of motion exercises
- Muscle strengthening exercises
- Crutch walking

B. Clinical Postings

Clinical area/unit	Duration (Weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods

Orthopedic wards	2	Develop skill in management of patients with musculoskeletal problems	• Preparation of patient with Myelogram/CT/MRI • Assisting with application & removal of POP/Cast • Preparation, assisting and after care of patient with Skin	• Care Note – 1	• Clinical evaluation , • Care note
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			traction/skeletal traction • Care of orthotics • Muscle strengthening exercises • Crutch walking • Rehabilitation		
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VII. NURSING MANAGEMENT OF PATIENTS IN THE OPERATING ROOMS

A. Skill Lab

Use of manikins and simulators

- Scrubbing, gowning and gloving
- Orient to instruments for common surgeries
- Orient to suture materials
- Positioning

B. Clinical Postings

Clinical area/unit	Duration (Weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Operation theatre	4	Develop skill in caring for intraoperative patients	• Position and draping • Preparation of operation table • Set up of trolley with instrument • Assisting in major and minor operation • Disinfection and sterilization of equipment • Scrubbing procedures – Gowning, masking and gloving • Intra operative monitoring	• Assist as circulatory nurse – 4 • Positioning & draping – 5 • Assist as scrub nurse in major surgeries – 4 • Assist as scrub nurse in minor surgeries – 4	• Clinical evaluation • OSCE



SATHYABAMA COLLEGE OF NURSING
Sathyabama Institute of Science and Technology
(DEEMED TO BE UNIVERSITY)



Accredited with "A++" grade NAAC
Jeppiar Nagar, Rajiv Gandhi Salai, Chennai – 600119

Ref.No.278/Dean/SIST Reg./2024

20/01/2024

To
The Registrar,
Sathyabama Institute of Science and Technology,
Semmenchery,
Chennai.

Sir,

Sub: Conduct of 6th Board of Studies meeting – request - reg:-

We wish to bring to your kind notice that the semester pattern regulation has mandatory modules and elective modules which should be accomplished in each semester.

Hence, we request you to kindly permit us to pass the methodology of implementing the modules in VI BOS Meeting and to circulate the same to the Members of the BOS for approval.

Kindly do the needful.

Thanking you,

L. Lakshmi
yours truly,

(Dr. L. LAKSHMI)

Dean

Copy submitted to:
The Vice Chancellor,
Sathyabama Institute of Science and Technology.

DEAN
SATHYABAMA
COLLEGE OF NURSING
Jeppiar Nagar, Rajiv Gandhi Salai,
Chennai – 600 119.



SATHYABAMA COLLEGE OF NURSING
Sathyabama Institute of Science and Technology
(DEEMED TO BE UNIVERSITY)

Accredited with "A++" grade NAAC
Jeppiar Nagar, Rajiv Gandhi Salai, Chennai – 600119



21st Jan, 2024

Duly received & Accepted by,

Prof. Dr. Hema Suresh Principal, ACS College of Nursing, M.G.R University, Maduravail, Chennai	
Prof. Dr. Tamilarasi B Principal, Madha College of Nursing, The T.N .Dr. M.G.R. Medical University, Chennai.	
Dr.S.Igni Sabasti Prabu Controller of Examinations, Sathyabama Institute of Science and Technology, Chemmenchery, Chenn	



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20/01/2024

VI BOARD OF STUDIES MEETING

AGENDA

1. Mandatory Modules & elective modules



SATHYABAMA COLLEGE OF NURSING
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RESOLUTION PASSED BY THE BOARD OF STUDIES FOR U.G
NURSING COURSE BY CIRCULATION Held on 20th Jan 2024

The Indian Nursing Council in their letter No. 11-1/2019-INC dated 5th July, 2021. communicated the Revised Regulations and Curriculum for B.Sc Nursing course.

Accepting the Revised Curriculum and Regulations- 2020, the same is circulated to members of the Board of Studies for U.G Nursing course on 20th Jan 2024 for approval and to pass the following resolution.

Resolved to approve the Mandatory & elective courses as given by the Indian Nursing Council for B.Sc Nursing Course and the implementation of the same from the Academic Year 2022-23 onwards.

APPROVED

MEMBERS

Prof. Dr. Hema Suresh
Principal,
College of Nursing, Dr.MGR
Medical University,
Maduravoyil, Chennai

Prof. Dr. Tamarasi B.
Principal,
Madha College of Nursing,
Kundrathur,
Chennai

Prof. Dr. S. Igni Sabasti Prabhu,
Controller of Examinations,
Sathyabama Institute of
Science & technology, Chennai

Prof. Dr. L. Lakshmi
Dean,
Sathyabama College of Nursing,
Sathyabama Institute of Science
& technology, Chennai

Mrs. Bhuvaneshwari S.
Professor & HOD,
Dept. of Medical & Surgical
Nursing,
Sathyabama College of
Nursing,
Sathyabama Institute of
Science & technology,
Chennai

Mrs. Thivya N
Professor & HOD,
Dept. of Community Health
Nursing,
Sathyabama College of
Nursing,
Sathyabama Institute of
Science & technology, Chennai



Mrs. Prathiba S
HOD, Dept. of Mental Health
Nursing,
Sathaybama College of Nursing,
Sathyabama Institute of Science
& technology, Chennai



Ms. Precilla Selvakumari J
HOD, Dept. of Child Health
Nursing,
Sathaybama College of
Nursing,
Sathyabama Institute of
Science & technology,
Chennai



Mrs. Trupti Rekha Biswal
HOD, Dept. of Midwifery &
Obstetrical Nursing,
Sathaybama College of
Nursing,
Sathyabama Institute of
Science & technology, Chennai

PHARMACOLOGY-II (New)**COURSE OUTLINE****T – Theory**

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
I	4 (T)	Describe drugs used in disorders of ear, nose, throat and eye and nurses' responsibilities	Drugs used in disorders of ear, nose, throat & Eye • Antihistamines • Topical applications for eye (Chloramphenicol, Gentamycin eye drops), ear (Soda glycerin, boric spirit ear drops), nose and buccal cavity- chlorhexidine mouthwash • Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse	• Lecture cum Discussion • Drug study/ presentation	• Short answer • Objective type
II	4 (T)	Describe drugs acting on urinary system & nurse's responsibilities	Drugs used on urinary system • Pharmacology of commonly used drugs ○ Renin angiotensin system ○ Diuretics and antidiuretics ○ Drugs toxic to kidney ○ Urinary antiseptics ○ Treatment of UTI – acidifiers and alkalinizers • Composition, action, dosage, route, indications, contraindications, Drug interactions, side effects, adverse effects toxicity and role of nurse	• Lecture cum Discussion • Drug study/ presentation	• Short answer • Objective type

III	10 (T)	Describe drugs used on nervous system & nurse's responsibilities	Drugs acting on nervous system • Basis & applied pharmacology of commonly used drugs • Analgesics and anaesthetics ○ Analgesics: Non-steroidal anti-inflammatory (NSAID) drugs ○ Antipyretics ○ Opioids & other central analgesics ✓ General (techniques of GA, pre anesthetic medication) & local anesthetics ✓ Gases: oxygen, nitrous, oxide, carbon-dioxide & others • Hypnotics and sedatives • Skeletal muscle relaxants • Antipsychotics ○ Mood stabilizers	• Lecture cum Discussion • Drug study/ presentation	• Short answer • Objective type
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Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
			• Antidepressants • Antianxiety Drugs • Anticonvulsants • Drugs for neurodegenerative disorders & miscellaneous drugs • Stimulants, ethyl alcohol and treatment of methyl alcohol poisoning • Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects toxicity and role of nurse		
IV	5 (T)	Describe drugs used for hormonal disorder & supplementation, contraception & medical termination of pregnancy & nurse's responsibilities	Drugs used for hormonal, disorders and supplementation, contraception and medical termination of pregnancy • Estrogens and progesterones ○ Oral contraceptives and hormone replacement therapy • Vaginal contraceptives • Drugs for infertility and medical termination of pregnancy ○ Uterine stimulants and relaxants • Composition, actions dosage route indications contraindications, drugs interactions, side effects, adverse effects, toxicity and role of nurse	• Lecture cum Discussion • Drug study/ presentation	• Short answer • Objective type
V	3 (T)	Develop understanding about important drugs used for women before, during and after labour	Drugs used for pregnant women during antenatal, labour and postnatal period • Tetanus prophylaxis • Iron and Vit K1 supplementation • Oxytocin, Misoprostol • Ergometrine • Methyl prostaglandin F2-alpha • Magnesium sulphate • Calcium gluconate	• Lecture cum Discussion • Drug study/ presentation	• Short answer • Objective type

VI	10 (T)	Describe drugs used in deaddiction, emergency, poisoning, vitamins & minerals supplementation, drugs used for immunization & immune-suppression & nurse's responsibilities	Miscellaneous • Drugs used for deaddiction • Drugs used in CPR and emergency- adrenaline, Chlorpheniramine, hydrocortisone, Dexamethasone • IV fluids & electrolytes replacement • Common poisons, drugs used for treatment of poisoning ○ Activated charcoal	• Lecture cum Discussion • Drug study/ presentation	• Short answer • Objective type
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Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
			○ Ipecac ○ Antidotes, ○ Anti-snake venom (ASV) • Vitamins and minerals supplementation • Vaccines & sera (Universal immunization program schedules) • Anticancer drugs: Chemotherapeutic drugs commonly used • Immuno-suppressants and Immunostimulants		
VII	4 (T)	Demonstrate awareness of common drugs used in alternative system of medicine	Introduction to drugs used in alternative systems of medicine • Ayurveda, Homeopathy, Unani and Siddha etc. • Drugs used for common ailments	• Lecture cum Discussion • Observational visit	• Short answer • Objective type
VIII	20 (T)	Demonstrate understanding about fundamental principles of prescribing	Fundamental principles of prescribing • Prescriptive role of nurse practitioners: Introduction • Legal and ethical issues related to prescribing • Principles of prescribing • Steps of prescribing • Prescribing competencies	• Completion of module on Fundamental principles of prescribing	• Short answer • Assignments evaluation

PATHOLOGY - II AND GENETICS New

PLACEMENT: IV SEMESTER

THEORY: 1 Credit (20 hours) (Includes lab hours also)

DESCRIPTION: This course is designed to enable students to acquire knowledge of pathology of various disease conditions, understanding of genetics, its role in causation and management of defects and diseases and to apply this knowledge in practice of nursing.

COMPETENCIES: On completion of the course, the students will be able to

1. Apply the knowledge of pathology in understanding the deviations from normal to abnormal pathology
2. Rationalize the various laboratory investigations in diagnosing pathological disorders
3. Demonstrate the understanding of the methods of collection of blood, body cavity fluids, urine and feces for various tests
4. Apply the knowledge of genetics in understanding the various pathological disorders
5. Appreciate the various manifestations in patients with diagnosed genetic abnormalities
6. Rationalize the specific diagnostic tests in the detection of genetic abnormalities.
7. Demonstrate the understanding of various services related to genetics.

COURSE OUTLINE

T – Theory

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
I	5 (T)	Explain pathological changes in disease conditions of various systems	Special Pathology: Pathological changes in disease conditions of selected systems 1. Kidneys and Urinary tract - Glomerulonephritis - Pyelonephritis - Renal calculi - Cystitis - Renal Cell Carcinoma - Renal Failure (Acute and Chronic) 2. Male genital systems - Cryptorchidism - Testicular atrophy - Prostatic hyperplasia - Carcinoma penis and Prostate. 3. Female genital system - Carcinoma cervix - Carcinoma of endometrium - Uterine fibroids - Vesicular mole and Choriocarcinoma - Ovarian cyst and tumors 4. Breast - Fibrocystic changes - Fibroadenoma - Carcinoma of the Breast 5. Central nervous system - Meningitis. - Encephalitis - Stroke - Tumors of CNS	- Lecture - Discussion - Explain using slides, X-rays and scans - Visit to pathology lab, endoscopy unit and OT	- Short answer - Objective type

II	5 (T)	Describe the laboratory tests for examination of body cavity fluids, urine and faeces	Clinical Pathology • Examination of body cavity fluids: ◦ Methods of collection and examination of CSF and other body cavity fluids (sputum, wound discharge) specimen for various clinical pathology, biochemistry and microbiology tests	• Lecture • Discussion • Visit to clinical lab and biochemistry lab	• Short answer • Objective type
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Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
			• Analysis of semen: ◦ Sperm count, motility and morphology and their importance in infertility • Urine: ◦ Physical characteristics, Analysis, Culture and Sensitivity • Faeces: ◦ Characteristics ◦ Stool examination: Occult blood, Ova, Parasite and Cyst, Reducing substance etc. ◦ Methods and collection of urine and faeces for various tests		

GENETICS New

COURSE

OUTLINE

T – Theory

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
I	2 (T)	Explain nature, principles and perspectives of heredity	Introduction: • Practical application of genetics in nursing • Impact of genetic condition on families • Review of cellular division: mitosis and meiosis • Characteristics and structure of genes • Chromosomes: sex determination • Chromosomal aberrations • Patterns of inheritance • Mendelian theory of inheritance • Multiple allots and blood groups • Sex linked inheritance • Mechanism of inheritance • Errors in transmission (mutation)	• Lecture • Discussion • Explain using slides	• Short answer • Objective type

II	2 (T)	Explain maternal, prenatal and genetic influences on development of defects and diseases	Maternal, prenatal and genetic influences on development of defects and diseases • Conditions affecting the mother: genetic and infections • Consanguinity atopy • Prenatal nutrition and food allergies • Maternal age	• Lecture • Discussion • Explain using slides	• Short answer • Objective type
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Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
			• Maternal drug therapy • Prenatal testing and diagnosis • Effect of Radiation, drugs and chemicals • Infertility • Spontaneous abortion • Neural Tube Defects and the role of folic acid in lowering the risks • Down syndrome (Trisomy 21)		
III	2 (T)	Explain the screening methods for genetic defects and diseases in neonates and children	Genetic testing in the neonates and children • Screening for ◦ Congenital abnormalities ◦ Developmental delay ◦ Dysmorphism	• Lecture • Discussion • Explain using slides	• Short answer • Objective type
IV	2 (T)	Identify genetic disorders in adolescents and adults	Genetic conditions of adolescents and adults • Cancer genetics: Familial cancer • Inborn errors of metabolism • Blood group alleles and hematological disorder • Genetic haemochromatosis • Huntington's disease • Mental illness	• Lecture • Discussion • Explain using slides	• Short answer • Objective type
V	2 (T)	Describe the role of nurse in genetic services and counselling	Services related to genetics • Genetic testing • Gene therapy • Genetic counseling • Legal and Ethical issues • Role of nurse	• Lecture • Discussion	• Short answer • Objective type

PLACEMENT: IV SEMESTER

THEORY: 1 Credit (20 hours)

DESCRIPTION: This course is designed to help students to develop an understanding of professionalism and demonstrate professional behavior in their workplace with ethics and professional values. Further the students will be able to identify ethical issues in nursing practice and participate effectively in ethical decision making along with health team members.

COMPETENCIES: On completion of this course, the students will be able to

1. Describe profession and professionalism.
2. Identify the challenges of professionalism.
3. Maintain respectful communication and relationship with other health team members, patients and society.
4. Demonstrate professional conduct.
5. Describe various regulatory bodies and professional organizations related to nursing.
6. Discuss the importance of professional values in patient care.
7. Explain the professional values and demonstrate appropriate professional values in nursing practice.
8. Demonstrate and reflect on the role and responsibilities in providing compassionate care in the healthcare setting.
9. Demonstrate respect, human dignity and privacy and confidentiality to self, patients and their caregivers and other health team members.
10. Advocate for patients' wellbeing, professional growth and advancing the profession.
11. Identify ethical and bioethical concerns, issues and dilemmas in nursing and healthcare.
12. Apply knowledge of ethics and bioethics in ethical decision making along with health team members.
13. Protect and respect patient's rights.

COURSE OUTLINE

T – Theory

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
I	5 (T)	Discuss nursing as a profession Describe the concepts and attributes of professionalism Identify the challenges of professionalism Maintain respectful communication and relationship with other health team members, patients and society Demonstrate professional conduct Respect and maintain professional boundaries between patients, colleagues	PROFESSIONALISM Profession • Definition of profession • Criteria of a profession • Nursing as a profession Professionalism • Definition and characteristics of professionalism • Concepts, attributes and indicators of professionalism • <i>Challenges of professionalism</i> ○ Personal identity vs. professional identity ○ Preservation of self-integrity: threat to integrity, Deceiving patient: withholding information and falsifying records ○ Communication & Relationship with team members: Respectful and open communication and relationship pertaining to relevant interests for ethical decision making ○ Relationship with patients and society Professional Conduct • Following ethical principles • Adhering to policies, rules and regulation of the institutions • Professional etiquettes and behaviours • Professional grooming: Uniform, Dress code • Professional boundaries: Professional relationship with the patients, caregivers and team members Regulatory Bodies & Professional Organizations: Roles & Responsibilities • <i>Regulatory bodies:</i> Indian Nursing Council, State Nursing Council	• Lecture cum Discussion • Debate • Role play • Case based discussion • Lecture cum Discussion	• Short answer • Essay • Objective type • Visit reports

		and society Describe the roles and responsibilities of regulatory bodies and professional organizations	Professional Organizations: Trained Nurses Association of India (TNAI), Student Nurses Association (SNA), Nurses League of Christian Medical Association of India, International Council of Nurses (ICN) and International Confederation of Midwives	Visit to INC, SNC, TNAI	
II	5 (T)	Discuss the importance of professional values Distinguish between personal values and professional values Demonstrate appropriate professional values in nursing practice Ethical issues and dilemmas in health care Explain process of ethical decision making and apply knowledge of ethics and bioethics in making ethical decisions	PROFESSIONAL VALUES Values: Definition and characteristics of values - Value clarification - Personal and professional values - Professional socialization: Integration of professional values with personal values Professional values in nursing - Importance of professional values in nursing and health care - Caring: definition, and process - Compassion: Sympathy Vs empathy, Altruism - Conscientiousness - Dedication/devotion to work - Respect for the person- Human dignity - Privacy and confidentiality: Incidental disclosure - Honesty and integrity: Truth telling - Trust and credibility: Fidelity, Loyalty - Advocacy: Advocacy for patients, work environment, nursing education and practice, and for advancing the profession - Valid consent and refusal - Allocation of scarce nursing resources - Conflicts concerning new technologies - Whistle-blowing - Beginning of life issues - Abortion - Substance abuse - Fetal therapy - Selective deduction - Intrauterine treatment of fetal conditions - Mandated contraception - Fetal injury - Infertility treatment - End of life issues - End of life	- Lecture cum Discussion - Value clarification exercise - Interactive learning - Story telling - Sharing experiences - Scenario based discussion	- Short answer - Essay - Assessment of student's behavior with patients and families

		○ Euthanasia ○ Do Not Resuscitate (DNR) Issues related to psychiatric care Explain code of ethics stipulated by ICN and INC Non compliance Restrain and seclusion Refuse to take food		
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	Discuss the rights of the patients and families to make decisions about health care Protect and respect patients' rights	Process of ethical decision making • Assess the situation (collect information) • Identify the ethical problem • Identify the alternative decisions • Choose the solution to the ethical decision • Implement the decision • Evaluate the decision Ethics committee: Roles and responsibilities • Clinical decision making • Research Code of Ethics • International Council of Nurses (ICN) • Indian Nursing Council Patients' Bill of Rights-17 patients' rights (MoH&FW, GoI) 1. Right to emergency medical care 2. Right to safety and quality care according to standards 3. Right to preserve dignity 4. Right to nondiscrimination 5. Right to privacy and confidentiality 6. Right to information 7. Right to records and reports 8. Right to informed consent 9. Right to second opinion 10. Right to patient education 11. Right to choose alternative treatment options if available 12. Right to choose source for obtaining medicines or tests 13. Right to proper referral and transfer, which is free from perverse commercial influences 14. Right to take discharge of patient or receive body of deceased from hospital 15. Right to information on the rates to be charged by the hospital for each type of service provided and facilities available on a prominent display board and a brochure 16. Right to protection for patients involved in clinical trials, biomedical and health research 17. Right to be heard and seek redressal	
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ADULT HEALTH NURSING - II WITH INTEGRATED PATHOPHYSIOLOGY including Geriatric**Nursing AND PALLIATIVE CARE MODULE** New

PLACEMENT: IV SEMESTER

THEORY: 7 Credits (140 hours)

PRACTICUM: Lab/Skill Lab (SL): 1 Credit (40 hours) Clinical: 6 Credits (480 hours)

DESCRIPTION: This course is designed to equip the students to review and apply their knowledge of Anatomy, Physiology, Biochemistry and Behavioral sciences in caring for adult patients with Medical/Surgical disorders using nursing process approach. It also intends to develop competencies required for assessment, diagnosis, treatment, nursing management, and supportive/palliative and rehabilitative care to adult patients with various Medical Surgical disorders.

COMPETENCIES: On completion of the course the students will apply nursing process and critical thinking in delivering holistic nursing care with selected Medical and Surgical conditions.

At the completion of Adult Health Nursing II course, students will

1. Explain the etiology, pathophysiology, manifestations, diagnostic studies, treatments and complications of selected common medical and surgical disorders.
2. Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of diagnostic tests in the process of data collection.
3. Identify diagnoses, list them according to priority and formulate nursing care plan.
4. Perform nursing procedures skillfully and apply scientific principles while giving comprehensive nursing care to patients.
5. Integrate knowledge of anatomy, physiology, pathology, nutrition and pharmacology in caring for patients experiencing various medical and surgical disorders.
6. Identify common diagnostic measures related to the health problems with emphasis on nursing assessment and responsibilities.
7. Demonstrate skill in assisting/performing diagnostic and therapeutic procedures.
8. Demonstrate competencies/skills to patients undergoing treatment for medical surgical disorders.
9. Identify the drugs used in treating patients with selected medical surgical conditions.
10. Plan and provide relevant individual and group education on significant medical surgical topics.
11. Maintain safe environment for patients and the health care personnel in the hospital.

COURSE OUTLINE

T – Theory, L/SL – Lab/Skill Lab

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
I	12 (T) 4 (SL)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic measures and medical, surgical, nutritional and nursing management of patients with ENT disorders	Nursing management of patient with disorders of Ear, Nose and Throat (Includes etiology, pathophysiology, clinical manifestations, diagnostic measures and medical, surgical, nutritional and nursing management) • Review of anatomy and physiology of the ear, nose and throat • History, physical assessment, and diagnostic tests • Ear ○ External ear: deformities otalgia, foreign bodies and	• Lecture and discussion • Demonstration of hearing aids, nasal packing, medication administration • Visit to audiology and speech clinic	• MCQ • Short answer • Essay • OSCE • Assessment of skill (using checklist) • Quiz • Drug book

			tumors ○ Middle ear: impacted wax, tympanic, membrane perforation, otitis media, and tumors ○ Inner ear: Meniere's disease, labyrinthitis, ototoxicity tumors ● Upper respiratory airway infections: Rhinitis, sinusitis, tonsillitis, laryngitis ● Epistaxis, Nasal obstruction, laryngeal obstruction ● Deafness and its management		
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Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
II	12 (T) 4 (SL)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of eye Describe eye donation, banking and transplantation	Nursing management of patient with disorder of eye - Review of anatomy and physiology of the eye - History, physical assessment, diagnostic assessment Eye Disorders - Refractive errors - Eyelids: infection, deformities - Conjunctiva: inflammation and infection bleeding - Cornea: inflammation and infection - Lens: cataract - Glaucoma - Retinal detachment - Blindness - Eye donation, banking and transplantation	- Lecture and discussion - Demonstration of visual aids, lens, medication administration - Visit to eye bank	- MCQ - Short Essay - OSCE - Drug book
III	15 (T) 4 (L/SL)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of Kidney and urinary system disorders Demonstrate skill in genitourinary assessment Prepare patient for genitourinary investigations	Nursing management of patient with Kidney and Urinary problems - Review of Anatomy and physiology of the genitourinary system - History, physical assessment, diagnostic tests - Urinary tract infections: acute, chronic, lower, upper - Nephritis, nephrotic syndrome - Renal calculi - Acute and chronic renal failure - Disorders of ureter, urinary bladder and Urethra - Disorders of prostate: inflammation, infection, stricture, obstruction, and Benign Prostate Hypertrophy	- Lecture cum Discussion - Demonstration - Case Discussion - Health education - Drug book - Field visit – Visits hemodialysis unit	- MCQ - Short Note - Long essay - Case report - Submits health teaching on prevention of urinary calculi

		Prepare and provide health education on prevention of renal calculi			
IV	6 (T)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of male reproductive disorders	Nursing management of disorders of male reproductive system • Review of Anatomy and physiology of the male reproductive system • History, Physical Assessment, Diagnostic tests • Infections of testis, penis and adjacent structures: Phimosis, Epididymitis, and	• Lecture, Discussion • Case Discussion • Health education	• Short essay

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
			Orchitis • Sexual dysfunction, infertility, contraception • Male Breast Disorders: gynecomastia, tumor, climacteric changes		

V	10 (T) 4 (SL)	Explain the etiology, pathophysiology, clinical manifestations, types, diagnostic measures and management of patients with disorders of burns/cosmetic surgeries and its significance	Nursing management of patient with burns, reconstructive and cosmetic surgery • Review of anatomy and physiology of the skin and connective tissues • History, physical assessment, assessment of burns and fluid & electrolyte loss • Burns • Reconstructive and cosmetic surgery for burns, congenital deformities, injuries and cosmetic purposes, gender reassignment • Legal and ethical aspects • Special therapies: LAD, vacuumed dressing. Laser, liposuction, skin health rejuvenation, use of derma filters	• Lecture and discussion • Demonstration of burn wound assessment, vacuum dressing and fluid calculations • Visit to burn rehabilitation centers	• OSCE • Short notes
VI	16 (T) 4 (L/SL)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with neurological disorders	Nursing management of patient with neurological disorders • Review of anatomy and physiology of the neurological system • History, physical and neurological assessment, diagnostic tests • Headache, Head injuries • Spinal injuries: Paraplegia, Hemiplegia, Quadriplegia • Spinal cord compression: herniation of in vertebral disc • Intra cranial and cerebral aneurysms • Meningitis, encephalitis, brain, abscess, neuro-cysticercosis • Movement disorders: Chorea, Seizures & Epilepsies • Cerebrovascular disorders: CVA • Cranial, spinal neuropathies: Bell's palsy, trigeminal neuralgia • Peripheral Neuropathies • Degenerative diseases: Alzheimer's disease, Parkinson's disease • <i>Guillain-Barré syndrome</i>, Myasthenia gravis & Multiple sclerosis • Rehabilitation of patient with neurological deficit	• Lecture and discussion • Demonstration of physiotherapy, neuro assessment, tracheostomy care • Visit to rehabilitation center, long term care clinics, EEG, NCV study unit,	• OSCE • Short notes • Essay • Drug book

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
VII	12 (T) 4 (L/SL)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of immunological disorders Prepare and provides health education on prevention of HIV infection and rehabilitation Describe the national infection control programs	Nursing management of patients with Immunological problems • Review of Immune system • Nursing Assessment: History and Physical assessment • HIV & AIDS: Epidemiology, Transmission, Prevention of Transmission and management of HIV/AIDS • Role of Nurse; Counseling, Health education and home care consideration and rehabilitation • National AIDS Control Program – NACO, various national and international agencies for infection control	• Lecture, discussion • Case Discussion/ seminar • Refer Module on HIV/AIDS	

VIII	12 (T) 4 (L/SL)	Explain the etiology, pathophysiology, types, clinical manifestations, staging, diagnostic measures and management of patients with different cancer, treatment modalities including newer treatments	Nursing management of patient with Oncological conditions • Structure and characteristics of normal and cancer cells • History, physical assessment, diagnostic tests • Prevention screening early detections warning sign of cancer • Epidemiology, etiology classification, Pathophysiology, staging clinical manifestations, diagnosis, treatment modalities and medical and surgical nursing management of Oncological condition • Common malignancies of various body system eye, ear, nose, larynx, breast, cervix, ovary, uterus, sarcoma, renal, bladder, kidney, prostate Brain, Spinal cord. • Oncological emergencies • Modalities of treatment: Chemotherapy, Radiotherapy: Radiation safety, AERB regulations, Surgical intervention, Stem cell and bone marrow transplant, Immunotherapy, Gene therapy • Psychological aspects of cancer: anxiety, depression, insomnia, anger • Supportive care • Hospice care	• Lecture and discussion • Demonstration of chemotherapy preparation and administration • Visit to BMT, radiotherapy units (linear accelerator, brachytherapy, etc.), nuclear medicine unit • Completion of palliative care module during clinical hours (20 hours)	• OSCE • Essay • Quiz • Drug book • Counseling , health teaching
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Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
IX	15 (T) 4 (L/SL)	Explain the types, policies, guidelines, prevention and management of disaster and the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with acute emergencies	Nursing management of patient in Emergency and Disaster situations Disaster Nursing • Concept and principles of disaster nursing, Related Policies • Types of disaster: Natural and manmade • Disaster preparedness: Team, guidelines, protocols, equipment, resources • Etiology, classification, Pathophysiology, staging, clinical manifestation, diagnosis, treatment modalities and medical and surgical nursing management of patient with medical and surgical emergencies – Poly trauma, Bites, Poisoning and Thermal emergencies • Principles of emergency management • Medico legal aspects	• Lecture and discussion • Demonstration of disaster preparedness (Mock drill) and triaging • Filed visit to local disaster management centers or demo by fire extinguishers • Group presentation (role play, skit, concept mapping) on different emergency care • Refer Trauma care management/ ATCN module • Guided reading on National Disaster Management Authority (NDMA) guidelines	• OSCE • Case presentations and case study
X	10 (T)	Explain the Concept, physiological changes, and psychosocial problems of ageing Describe the nursing management of the elderly	Nursing care of the elderly • History and physical assessment • Aging process and age-related body changes and psychosocial aspects • Stress and coping in elder patient • Psychosocial and sexual abuse of elderly • Role of family and formal and non- formal caregivers • Use of aids and prosthesis (hearing aids, dentures) • Legal and ethical issues • National programs for elderly, privileges, community programs and health services • Home and institutional care	• Lecture and discussion • Demonstration of communication with visual and hearing impaired • Field visit to old age homes	• OSCE • Case presentations • Assignment on family systems of India focusing on geriatric population

XI	15 (T) 8 (L/SL)	Explain the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients in critical care units	Nursing management of patients in critical Care units • Principles of critical care nursing • Organization: physical set-up, policies, staffing norms • Protocols, equipment and supplies	• Lecture and discussion • Demonstration on the use of mechanical ventilators, cardiac monitors etc. • Clinical practice in	• Objective type • Short notes • Case presentations • Assessment of skill on monitoring of
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Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
			• Use and application of critical care biomedical equipment: ventilators, cardiac monitors, defibrillators, infusion pump, Resuscitation equipment and any other • Advanced Cardiac Life support • Nursing management of critically ill patient • Transitional care • Ethical and Legal Aspects • Breaking Bad News to Patients and/or their families: Communication with patient and family • End of life care	different ICUs	patients in ICU. • Written assignment on ethical and legal issues in critical care
XII	5 (T)	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with occupational/ industrial health disorders	Nursing management of patients occupational and industrial disorders • History, physical examination, Diagnostic tests • Occupational diseases and management	• Lecture and discussion • Industrial visit	• Assignment on industrial health hazards

CLINICAL PRACTICUM

CLINICAL PRACTICUM: 6 Credits (480 Hours) – 20 weeks × 24 hours

PRACTICE COMPETENCIES: On completion of the clinical practicum, the students will develop proficiency in applying nursing process and critical thinking in rendering holistic nursing care including rehabilitation to the adult/geriatric patients admitted in Critical Care Units, undergoing cosmetic and reconstructive surgery and with selected medical & surgical disorders of ear, nose, throat, eye, Genitourinary, reproductive, immunologic, nervous systems and in emergency/disaster conditions.

The students will be competent to

1. Utilize the nursing process in providing care to the sick adults in the hospital
 - a. Perform complete health assessment to establish a data base for providing quality patient care.
 - b. Integrate the knowledge of diagnostic tests in patient assignment.
 - c. Identify nursing diagnoses and list them according to priority.
 - d. Formulate nursing care plan, using problem solving approach.
 - e. Apply scientific principles while giving nursing care to patients.
 - f. Develop skill in performing nursing procedures applying scientific principle.
 - g. Establish/develop interpersonal relationship with patients and family members.
 - h. Evaluate the expected outcomes and modify the plan according to the patient needs.
2. Provide comfort and safety to adult patients in the hospital.
3. Maintain safe environment for patients during hospitalization.
4. Explain nursing actions appropriately to the patients and family members.
5. Ensure patient safety while providing nursing procedures.
6. Assess the educational needs of the patient and their family related to medical and surgical disorders and provide appropriate health education to patients.
7. Provide pre, intra and post-operative care to patients undergoing surgery.
8. Integrate knowledge of pathology, nutrition and pharmacology for patients experiencing selected medical and surgical disorders.
9. Integrate evidence-based information while giving nursing care to patients.
10. Demonstrate the awareness of legal and ethical issues in nursing practice.

I. Nursing Management of Patients with ENT Disorders

A. Skill Lab

Use of manikins and simulators

- Tracheostomy care
- Instilling Ear and Nasal medications
- Bandage application

B. Clinical Postings

Clinical area/unit	Duration (weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
ENT Ward and OPD	2	Provide care to patients with ENT disorders Educate the patients and their families	• Examination of ear, nose, throat and History taking • Applying bandages to Ear, Nose • Tracheostomy care • Preparation of patient, assisting and monitoring of patients undergoing diagnostic procedures ◦ Auditory screening tests ◦ Audiometric tests • Preparing the patient and assisting in special procedures like Anterior/posterior nasal packing, Ear Packing and Syringing • Preparation and after care of patients undergoing ENT surgical procedures • Instillation of drops/medication	• ENT assessment –1 • Case study/ Clinical presentation – 1	• Clinical evaluation • OSCE • Case report study/ Clinical presentation

II. Nursing Management of Patients with Eye Conditions

A. Skill Lab

Use of manikins and simulators

- Instilling Eye medications
- Eye irrigation
- Eye bandage

B. Clinical Postings

Clinical area/unit	Duration (weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Ophthalmology unit	2	Develop skill in providing care to patients with Eye disorders Educate the patients and	• History taking, Examination of eyes and interpretation • Assisting procedures ◦ Visual acuity ◦ Fundoscopy, retinoscopy, ophthalmoscopy, tonometry, ◦ Refraction tests	• Eye assessment – 1 • Health teaching • Case study/ Clinical Presentation – 1	• Clinical evaluation • OSCE • Clinical presentation

		their families	• Pre and post-operative care • Instillation of drops/ medication • Eye irrigation • Application of eye bandage • Assisting with foreign body removal		
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III. Nursing Management of Patients with Kidney and Urinary System Disorders

A. Skill Lab

Use of manikins and simulators

- Assessment: kidney & urinary system
- Preparation: dialysis
- Catheterization and care

B. Clinical Postings

Clinical area/unit	Duration (weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Renal ward/ nephrology ward including Dialysis unit	2	Develop skill in Management of patients with urinary, male reproductive problems	• Assessment of kidney and urinary system ◦ History taking ◦ Physical examination ◦ Testicular self-examination ◦ Digital rectal exam • Preparation and assisting with diagnostic and therapeutic procedures ◦ Cystoscopy, Cystometrogram, ◦ Contrast studies: IVP etc. ◦ Peritoneal dialysis ◦ Hemodialysis, ◦ Lithotripsy ◦ Specific tests: Semen analysis, gonorrhea test, Renal/ Prostate Biopsy etc. • Catheterization: care • Bladder irrigation • I/O recording and monitoring • Ambulation and exercise	• Assessment – 1 • Drug presentation – 1 • Care study/ Clinical presentation – 1 • Preparing and assisting in hemodialysis	• Clinical evaluation • Care plan • OSCE • Quiz • Drug presentation

IV. Nursing Management of Patients with Burns and Reconstructive Surgery

A. Skill Lab

Use of manikins and simulators

- Assessment of burns wound
- Wound dressing

B. Clinical Postings

Clinical area/unit	Duration (weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Burns unit/reconstructive surgical unit	2	Develop skill in burns assessment and providing care to patients with different types of burns Develop skill in providing care to patients with different types of cosmetic and reconstructive surgeries	- Assessment of burns - First aid of burns - Fluid & electrolyte replacement therapy - Skin care - Care of Burn wounds - Bathing - Dressing - Pre-operative and post-operative care of patients - Caring of skin graft and post cosmetic surgery - Rehabilitation	- burn wound assessment – 1 - care study/case presentation – 1	- Clinical evaluation , - Care study/case report

V. Nursing Management of Patients with neurological disorders

A. Skill Lab

Use of manikins and simulators

- Range of motion exercises
- Muscle strengthening exercises
- Crutch walking

B. Clinical Postings

Clinical area/unit	Duration (weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Neurology-medical/ Surgery wards	3	Develop skill in Management of patients with Neurological problems	- History taking; Neurological Examination - Patient monitoring - Prepare and assist for various invasive and non-invasive diagnostic procedures - Range of motion exercises, muscle strengthening - Care of medical, surgical and rehabilitative patients	- Neuro-assessment – 1 - Case study/ case presentation – 1 - Drug presentation – 1	- Clinical evaluation - Neuro assessment - OSCE - Case report/ presentations

VI. Nursing Management of Patients with Immunological Disorders

A. Skill Lab

- Barrier Nursing
- Reverse Barrier Nursing

B. Clinical Postings

Clinical area/unit	Duration (weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Isolation ward/ Medical ward	1	Develop skill in the Management of patients with immunological disorders	- History taking - Immunological status assessment (e.g. HIV) and Interpretation of specific tests - Caring of patients with low immunity - Practicing of standard safety measures, precautions/barrier nursing/reverse barrier/isolation skills	- Assessment of immune status - Teaching of isolation to patient and family care givers - Nutritional management - Care Note – 1	- Care note - Quiz - Health Teaching

VII. Nursing Management of Patients with disorders of Oncological conditions**A. Skill Lab****Use of manikins and simulators**

- Application of topical medication
- Administration of chemotherapy

B. Clinical Postings

Clinical area/unit	Duration (weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods

Oncology wards (including day care radiotherapy unit)	3	Develop skill in providing care to patients with oncological disorders	• History taking & physical examination of cancer patients • Screening for common cancers: TNM classification • Preparation, assisting and after care patients undergoing diagnostic procedures – Biopsies/FNAC – Pap smear – Bone-marrow aspiration • Various modalities of treatment – Chemotherapy – Radiotherapy – Pain management – Stoma therapy – Hormonal therapy – Immuno therapy – Gene therapy – Alternative therapy • Stoma care and feeding • Caring of patients treated with nuclear medicine • Rehabilitation	• Assessment – 1 • Care study/ clinical presentation – 1 • Pre and post-operative care of patient with various modes of cancer treatment • Teaching on BSE to family members • Visit to palliative care unit	• Clinical evaluation • Care study • Quiz • Drug book
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VIII. Nursing Management of Patients in emergency conditions

A. Skill Lab

Use of manikins and simulators

- Assessment: primary and secondary survey
- Trauma care: bandaging, wound care, splinting, positions

B. Clinical Postings

Clinical area/unit	Duration (weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Emergency room/ Emergency unit	2	Develop skill in providing care to patients with emergency health problems	• Practicing 'triage' • Primary and secondary survey in emergency • Examination, investigations & their interpretations, in emergency & disaster situations • Emergency care of medical and traumatic injury patients • Documentations, assisting in legal procedures in emergency unit • Managing crowd • Counseling the patient and family in dealing with grieving & bereavement	• Triage • Immediate care • Use of emergency trolley	• Clinical evaluation • Quiz

IX. Nursing Management of geriatric patients

A. Skill Lab

Use of manikins and simulators

- Use of assistive safety devices

B. Clinical Postings

Clinical area/unit	Duration (weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Geriatric ward	1	Develops skill in geriatric assessment and providing care to patients with geriatric illness	• History taking and assessment of Geriatric patient	• Geriatric assessment – 1 • Care of normal and geriatric patient with illness • Fall risk assessment – 1 • Functional status assessment – 1	• Clinical evaluation • Care plan

X. Nursing Management of Patients in critical care units

A. Skill Lab

Use of manikins and simulators

- Assessment critically ill
- ET tube set up –suction
- TT suction
- Ventilator set up
- Chest drainage
- Bag mask ventilation

- Central & Peripheral line
- Pacemaker

B. Clinical Postings

Clinical area/unit	Duration (weeks)	Learning Outcomes	Procedural Competencies/ Clinical Skills	Clinical Requirements	Assessment Methods
Critical Care Unit	2	Develop skill in assessment of critically ill and providing care to patients with critical health conditions	• Assessment of critically ill patients • Assisting in arterial puncture, ET tube intubation & extubation • ABG analysis & interpretation - respiratory acidosis, respiratory alkalosis, metabolic acidosis, metabolic alkalosis • Setting up of Ventilator modes and settings and care of patient on a ventilator • Set up of trolley with instruments • Monitoring and maintenance of Chest drainage system • Bag and mask ventilation • Assisting and maintenance of Central and peripheral lines invasive • Setting up of infusion pump, defibrillator, • Drug administration-infusion, intracardiac, intrathecal, epidural, • Monitoring pacemaker • ICU care bundle • Management of the dying patient in the ICU	• Hemodynamic monitoring • Different scales used in ICU • Communicating with critically ill patients	• Clinical evaluation • OSCE • RASS scale assessment • Use of VAE bundle VAP, CAUTI, BSI • Case Presentation