

COURSE TITLE	ADULT HEALTH NURSING I WITH INTEGRATED PATHOPHYSIOLOGY WITH BCLS MODULE
COURSE CODE	20BN0303
COURSE CREDITS	14

Objective:

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 Outcomes: After completion of this course, student will be able to:

1. 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, 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, Identify the signs and symptoms of shock and electrolyte imbalances Develop skills in managing fluid and electrolyte imbalances

Course Outcomes: After completion of this course, student will be able to:

- 2 Perform pain assessment and plans for the nursing management, 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, 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
- 3 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 noninvasive cardiac procedures Demonstrate skill in monitoring and interpreting clinical signs related to cardiac disorders Complete BLS/BCLS module, Explain the etiology, pathophysiology, clinical manifestations, diagnostic tests, and medical, surgical, nutritional, and nursing management of hematological disorders Interpret blood reports, Prepare and provides health education on blood donation, 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
- 4 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, 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 nonradiological 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 bone healing
- 5 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,

Pre-requisite of course: 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.

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
7	24	2	75	15	10	50	50

Contents : Unit	Topics	Contact Hours
1	<p>Introduction Evolution and trends of medical and surgical nursing, International classification of diseases, Roles and responsibility of a nurse in medical and surgical settings o Outpatient department o In-patient unit o Intensive care unit, Introduction to medical and surgical asepsis o Inflammation, infection, Wound healing – stages, influencing factors, Wound care and dressing technique, Care of surgical patient o pre-operative o post-operative, Alternative therapies used in caring for patients with Medical Surgical Disorders</p>	6
2	<p>Intraoperative Care Organization and physical set up of the operation theatre Classification O.T Design o Staffing o Members of the OT team o 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</p>	15
3	<p>Nursing care of patients with common signs and symptoms and management Fluid and electrolyte imbalance, Shock, Pain</p>	6
4	<p>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: o Upper respiratory tract infections, Chronic obstructive pulmonary diseases, Pleural effusion, Empyema, Bronchiectasis, Pneumonia, Lung abscess o Cyst and tumors, Chest Injuries o Acute respiratory distress syndrome, Pulmonary embolism, Health behaviours to prevent respiratory illness</p>	18
5	<p>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: o Oral cavity: lips, gums and teeth o GI: Bleeding, Infections, Inflammation, tumors, Obstruction, Perforation & Peritonitis o Peptic & duodenal ulcer, o Mal-absorption, Appendicitis, Hernias o Hemorrhoids, fissures, Fistulas o Pancreas: inflammation, cysts, and tumors o Liver: inflammation, cysts, abscess, cirrhosis, portal hypertension, hepatic failure, tumors o 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</p>	16

Contents : Unit	Topics	Contact Hours
6	Nursing Management of patients with cardiovascular problems Review of anatomy and physiology of cardio-vascular 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	20
7	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, agranulocytosis, Lymphomas, myelomas	7
8	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)	8
9	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	8
10	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	16

Contents : Unit	Topics	Contact Hours
11	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 AE, 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	20
Total Hours		140

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	clinical contact hours Intravenous therapy o IV cannulation o IV maintenance and monitoring o Administration of IV medication, Care of patient with Central line, Preparation and assisting and monitoring of patients undergoing diagnostic procedures such as thoracentesis, Abdominal paracentesis, Management patients with respiratory problems ? 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 o High Protein diet o Diabetic diet, Insulin administration, Monitoring GRBS	480
2	introduction demonstration & practice session , role play	4
3	intraoperative care demonstration, practice session, case discussion	4
4	Nursing care of patients with common signs and symptoms and management case discussion, demonstration	4
5	Nursing Management of patients with respiratory problems demonstration, practice session , case presentation, visit to PFT lab	4
6	Nursing Management of patients with disorders of digestive system demonstration, role play, visit to stoma clinic	5
7	Nursing Management of patients with cardiovascular problems demonstration, practice session, case discussion, health education, drug book presentation	5
8	Nursing Management of patients with disorders of blood field visit to blood bank	3
9	Nursing management of patients with disorders of endocrine system demonstration, practice session	2

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
10	Nursing management of patients with disorders of Integumentary system demonstration, practice session	2
11	Nursing management of patients with musculoskeletal problems demonstration , practice session, case discussion	4
12	Nursing management of patients with Communicable diseases case discussion, drug book presentation, TB control & management module	3
Total Hours		520

Textbook :

- 1 Textbook of Adult Health Nursing, Jaydeep Herbert, Shweta Pattnayak, Anil Sharma, CBS, 2022

References:

- 1 Adult Health Nursing, Adult Health Nursing, MJ Kumari, Jaypee, 2024

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
Remember / Knowledge	Understand	Apply	Analyze	Evaluate	Higher order Thinking / Creative
14.00	36.00	20.00	20.00	5.00	5.00

Instructional Method:

- 1 Theory + Practical

Supplementary Resources:

- 1 N/A