



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

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

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Sathyabama College of Nursing

1.1.3 Courses having focus on Employability / Entrepreneurship / Skill Development

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

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	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	• 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
		Develop competency in providing pre and postoperative care	◦ Wound care and dressing technique • Care of surgical patient ◦ pre-operative ◦ post-operative • Alternative therapies used in caring for patients with Medical Surgical Disorders		
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	• 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

			• Anaesthesia – types, methods of administration, effects and stages, equipment & drugs • Legal aspects		
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

Unit	Time (Hrs)	Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
		Perform pain assessment and plans for the nursing management			
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	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	- Lecture, Discussion - Demonstration, - Role play - Problem Based Learning - Visit to stoma	- Short answer - Quiz - OSCE

		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	• 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	clinic	
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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 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, cor pulmonale, 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 Interpret blood reports	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
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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	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	• Lecture/ • Discussion • Demonstration • Case Discussion • Health education	• Nursing care plan • Prepare health teaching on care of patient with cast

		in crutch walking and splinting Demonstrate skill in care of patient with replacement surgeries Prepare and provide health education on bone healing	• 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		
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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



ADULT HEALTH NURSING - II WITH INTEGRATED PATHOPHYSIOLOGY
including Geriatric Nursing AND PALLIATIVE CARE
MODULE

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
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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 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	• 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
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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	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	- 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 patient for genitourinary investigations Prepare and provide health education on prevention of renal calculi	Disorders of prostate: inflammation, infection, stricture, obstruction, and Benign Prostate Hypertrophy		
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	• 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



			• 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		
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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	



VII I	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 • Field 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



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



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

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:

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 the process of data collection.
 - 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. Perform nursing procedures skillfully on patients.
 - 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 various 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 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 and IV therapy	• 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



		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 Develop skill in managing patient with Gastro-intestinal Problems	• 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 ◦ Endoscopy ◦ Liver Biopsy	• Care study – 1 • Health teaching	• Clinical evaluation, OSCE • Care study • Care note/ Clinical presentation



		Develop skill in wound management	• Nasogastric aspiration • Gastrostomy/Jejunostomy feeds • Ileostomy/Colostomy care • Surgical dressing • Suture removal • Surgical soak • Sitz bath • Care of drain		
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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



			• 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 Posting

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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



ADULT HEALTH NURSING - II WITH INTEGRATED PATHOPHYSIOLOGY

including Geriatric Nursing AND PALLIATIVE CARE

MODULE

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 their families	• 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
			• Pre and post-operative care • Instillation of drops/ medication • Eye irrigation • Application of eye bandage • Assisting with foreign body removal		



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, gonorrhoea 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
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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	• euro-assessment – 1 • Case study/ case presentation – 1 • Drug presentation – 1	• Clinical evaluation • Neuro assessment • OSCE • Case report/ presentations
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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
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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



