

Subject Code: 1NR1010203	Subject Title: MEDICAL – SURGICAL NURSING (ADULT INCLUDING GERIATRICS) -I
Pre-requisite	-----NA-----

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

Teaching Scheme (Total Hours)			Evaluation Scheme (Marks)				
Lecture (Class and Lab)	Clinical Hours	Total Hours	Theory		Practical		Total
			University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
210	720	930	75	25	100	100	300

Course Content:

Unit	Time (Hrs)	Learning Objective	Content	Teaching Learning Activities	Assessment Methods
I	15	- Appreciate the trends in medical and surgical nursing. - Describe the role of a nurse in caring for adult patient in hospital and community. - Describe the concepts of Medical Surgical asepsis	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 Disease (ICD-10 or later version), Acute illness Chronic illness and 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 of responsibility nurse in medical surgical settings: ➤ Out-patient department. ➤ In-patient department ➤ Intensive care unit ➤ Home and Community settings. - Introduction to Medical Surgical asepsis ➤ Inflammation and Infection ➤ Immunity ➤ Wound healing - Care of Surgical Patient ➤ Pre-operative ➤ Intra operative ➤ Post operative	- Lecture Discussion - Demonstration - Practice session - Supervised clinical practice	- short answers - Objective Type - Assessment of skills with check list
II	15	Describe the common signs, symptoms,	Common signs and symptoms and management. Fluid and electrolyte imbalance.	- Lecture Discussion - Seminar	- short answers - Objective

		problems and theirs Specific nursing interventions	- Vomiting - Dyspnea and cough, respiratory obstruction - Fever - Shock - Unconsciousness, Syncope - Pain - Incontinence - Edema - Age related problems- geriatric	Case discussion	Type
III	20	Describe the etiology, patho-physiology, clinical manifestation, diagnostic measures and management of patient(adult including elderly) with disorders of respiratory systems	Nursing management of patients (adult including elderly) with disorders of respiratory problems - Review of anatomy and physiology of respiratory system, - Nursing Assessment-History and physical assessment - Etiology, Pathophysiology, clinical manifestation, 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 Disease (COPD) ➤ Bronchiectasis ➤ Pneumonia ➤ Pulmonary tuberculosis ➤ Lung abscess ➤ Pleural effusion ➤ Cysts and Tumours ➤ Chest injuries ➤ Respiratory arrest and insufficiency ➤ Pulmonary embolism - Special therapies, alternative therapies nursing procedures Drugs used in treatment of respiratory disorders	- Lecture Discussion - Explain using Charts, graphs - Models, films, slides - Demonstration - Practice session - Case discussion/Seminar - Health education - Supervised clinical practice - Drug book/presentation	- Essay type - short answers - Objective Type - Assessment of skills with checklist - Assessment of patient management problem.
IV	30	Describe the etiology, patho-physiology, clinical manifestation, diagnostic measures and management of patient(adult including elderly) with disorders of digestive	Nursing management of patients (adult including elderly) with disorders of digestive system. - Review of anatomy and physiology of digestive system, - Nursing Assessment-History and physical assessment - Etiology, Pathophysiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management. - Disorders of ➤ Oral cavity- Lips, gums, tongue, salivary	- Lecture Discussion - Explain using Charts, graphs - Models, films, slides - Demonstration - Practice session - Case discussion/Seminar - Health education	- Essay type - short answers - Objective Type - Assessment of skills with checklist - Assessment of patient management problem.



		systems	glands and teeth ➤ Oesophagus- inflammation, stricture, obstruction, bleeding and tumour ➤ Stomach and duodenum- hiatus hernia, gastritis, peptic and duodenal ulcer, bleeding, tumours, pyloric stenosis ➤ Small intestinal disorders- inflammation and infection, enteritis, malabsorption, obstruction, tumour and perforation ➤ Large intestinal disorders colitis, inflammation and infection, obstruction and tumours and lump ➤ Hernias ➤ Appendix-inflammation, mass, abscess, rupture ➤ Anal and Rectum; hemorrhoids, fissures, fistulas ➤ Peritonitis/acute abdomen ➤ Pancreas; inflammation, cyst, abscess, and tumours ➤ Liver; inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours ➤ Gall bladder; inflammation, obstruction, stones and tumours Special therapies, alternative therapies nursing procedures Drugs used in treatment of disorders of digestive system.	▪ Supervised clinical practice ▪ Drug book/presentation	
V	30	➤ Describe the etiology, patho-physiology, clinical manifestation, diagnostic measures and management of patient(adult including elderly) with blood and cardio vascular problems ➤ Describes the vascular conditions and its nursing management	Nursing management of patients (adult including elderly) with blood and cardio vascular problems ▪ Review of anatomy and physiology of blood and cardio vascular system ▪ Nursing Assessment-History and physical assessment ▪ Etiology, Pathophysiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management. ▪ Vascular system ➤Hypertension, Hypotension ➤Arteriosclerosis ➤Raynaud's disease ➤Aneurism and peripheral vascular disorders Heart ▪ Coronary artery disease ➤ Ischemic Heart Disease ➤ Coronary atherosclerosis ➤ Angina pectoris ➤ Myocardial infarction ▪ Valvular disorders of the heart ➤ Congenital and acquired ➤ Rheumatic Heart disease ▪ Endocarditis, pericarditis Myocarditis	▪ Lecture ▪ Discussion ▪ Explain using Charts, graphs ▪ Models, films, slides ▪ Demonstration ▪ Practice session ▪ Case discussion/Seminar ▪ Health education ▪ Supervised clinical practice ▪ Drug book/presentation • Visit to blood bank • Participation in blood donation camps • Counselling	▪ Essay type ▪ short answers ▪ Objective Type ▪ Assessment of skills with checklist ▪ Assessment of patient management problem.



			▪ Cardio Myopathies ▪ Cardiac dysrhythmias, Heart block ▪ Congestive cardiac failure ➤ Cor-Pulmonale, pulmonary edema, cardiogenic shock, cardiac tamponade ▪ Cardiac emergencies and arrest ▪ Cardio Pulmonary Resuscitation(CPR) ▪ Blood ➤ Anaemias ➤ Polycythemia ➤ Bleeding disorders; clotting factor defects and platelets defects ➤ Thalassemia ➤ Leukaemias ➤ Leukopenias and agranulocytosis ➤ Lymphomas ➤ Myelomas ▪ Special therapies ▪ Blood transfusion, safety checks, procedure and requirement, management of adverse transfusion reaction, records for blood transfusion ▪ Management and counselling 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 nurse in organ donation, retrieval and banking. Alternative therapies Nursing procedures Drugs used in treatment of blood and cardio vascular disorder		
VI	10	• Describe the etiology, patho-physiology, clinical manifestation, diagnostic measures and management of patient(adult including elderly) with disorders of genito-urinary system	Nursing management of patients (adult including elderly) with genito-urinary problems ➤ Review of anatomy and physiology of genito-urinary system ▪ Nursing Assessment-History and physical assessment ▪ Etiology, Pathophysiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management ▪ Nephritis ▪ Nephrotic syndrome ▪ Nephrosis ▪ Renal calculus ▪ Tumours ▪ Acute renal failure ▪ Chronic renal failure ▪ End stage renal disease ▪ Dialysis, renal transplant ▪ Congenital disorders, urinary infection	▪ Lecture ▪ Discussion ▪ Explain using Charts, graphs ▪ Models, films, slides ▪ Demonstration ▪ Practice session ▪ Case discussion/ Seminar ▪ Health education ▪ Supervised clinical practice ▪ Drug book / presentation	▪ Essay type ▪ short answers ▪ Objective Type ▪ Assessment of skills with checklist ▪ Assessment of patient management problem.

			- Benign prostate hypertrophy. - Disorders of ureter, urinary bladder and urethra-inflammation, infection, stricture, obstruction, tumours, prostrate Special therapies, alternative therapies nursing procedures Drugs used in treatment of genito-urinary disorder		
VII	5	Describe the etiology, patho-physiology, clinical manifestation, diagnostic measures and management of patient(adult including elderly) with disorders of Male reproductive system	Nursing management of patients (adult including elderly) Male reproductive system - Review of anatomy and physiology of Male reproductive system - Nursing Assessment-History and physical assessment - Etiology, Pathophysiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of disorders of male reproductive system - Congenital malformations; cryptorchidism - Hypospadiasis, Epispadiasis - infection - Testis and adjacent structures - Penis - Prostate: inflammation, infection, hypertrophy, tumours - Sexual Dysfunction - Infertility - Contraception - Breast; gynecomastia, tumours - Climacteric changes special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of male reproductive system	- Lecture - Discussion - Explain using Charts, graphs - Models, films, slides - Demonstration - Practice session - Case discussion/Se minar - Health education - Supervised clinical practice - Drug book/presentat ion	- Essay type - short answers - Objective Type - Assessment of skills with checklist - Assessment of patient management problem.
VIII	10	Describe the etiology, patho-physiology, clinical manifestation, diagnostic measures and management of patient(adult including elderly) with disorders of endocrine system	Nursing management of patients (adult including elderly) with disorders of endocrine system - Review of anatomy and physiology of endocrine system - Nursing Assessment-History and physical assessment - Etiology, Pathophysiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of- - Disorders of Thyroid and parathyroid - Diabetes mellitus - Diabetes insipid us - Adrenal tumours - Pituitary disorders, Special therapies, alternative therapies	- Lecture - Discussion - Explain using Charts, graphs - Models, films, slides - Demonstration - Practice session - Case discussion/Se minar - Health education - Supervised clinical practice - Drug	- Essay type - short answers - Objective Type - Assessment of skills with checklist - Assessment of patient management problem.

			Nursing procedures Drugs used in treatment of disorders of endocrine system.	book/presentation	
IX	10	Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures and management of patient(adult including elderly) with disorders of Skin	Nursing management of patients (adult including elderly) with disorders of Integumentary system - Review of anatomy and physiology of Skin and its appendages - Nursing Assessment-History and physical assessment - Etiology, Pathophysiology, clinical manifestation, 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 - Allergies and Eczema - Psoriasis - Malignant melanoma - Alopecia - Special therapies, alternative therapies - Nursing procedures Drugs used in treatment of disorders of Integumentary system.	- Lecture Discussion - Explain using Charts, graphs - Models, films, slides - Demonstration - Practice session - Case discussion/Seminar - Health education - Supervised clinical practice - Drug book/presentation	- Essay type - short answers - Objective Type - Assessment of skills with checklist - Assessment of patient management problem.
X	15	Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures and management of patient(adult including elderly) with disorders of Musculo-skeletal system	Nursing management of patients (adult including elderly) with Musculoskeletal system - Review of anatomy and physiology of musculoskeletal system - Nursing Assessment-History and physical assessment - Etiology, Pathophysiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of- - Disorders of: - Muscles, Ligaments and Joints – inflammation, infection, trauma - Bones- inflammation, infection, dislocation, fracture, tumours and trauma - Osteomalacia and osteoporosis - Arthritis - Congenital deformities - Spinal column- defects and deformities, tumor, Prolapsed inter vertebral disc, put’s spine - Paget’s disease - Amputation - Prosthesis - Transplant & replacement surgeries	- Lecture Discussion - Explain using Charts, graphs - Models, films, slides - Demonstration - Practice session - Case discussion/Seminar - Health education - Supervised clinical practice - Drug book/presentation	- Essay type - short answers - Objective Type - Assessment of skills with checklist - Assessment of patient management problem.

			- Rehabilitation - Special therapies, alternative therapies - Nursing procedures - Drugs used in treatment of disorders of Musculoskeletal system.		
XI	10	Describe the etiology, patho-physiology, clinical manifestation, diagnostic measures and management of patient(adult including elderly) with disorders of Immunological system	Nursing management of patients (adult including elderly) with Immunological Problem - Review of Immune system. - Nursing Assessment-History and physical assessment - Etiology, Pathophysiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of- - Immunodeficiency disorder. - Primary immuno deficiency. - Phagocytic dysfunction - B-cell and T-cell deficiencies - Secondary immune deficiencies - Acquired immune deficiencies syndrome (AIDS) - Incidence of HIV & AIDS - Epidemiology - Transmission- Prevention of Transmission - Standard Safety precautions - Role of Nurse; Counselling - 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.	- Lecture - Discussion - Explain using Charts, graphs - Models, films, slides - Demonstration - Practice session - Case discussion/ Seminar - Health education - Supervised clinical practice - Drug book/ presentation - Orientation visit to Hospital Control system	- Essay type - short answers - Objective Type - Assessment of skills with checklist - Assessment of patient management problem.
XII	20	Describe the etiology, patho-physiology, clinical manifestation, diagnostic measures and management of patient(adult including elderly) with Communicable Diseases	Nursing management of patients (adult including elderly) with Communicable Diseases - Overview of infectious disease, the infectious process. - Nursing Assessment-History and physical assessment - Epidemiology, infectious process, clinical manifestation, diagnosis, treatment prevention and dietics. Control and eradication of common communicable Disease- ➤ Tuberculosis ➤ Diarrhoeal disease ➤ hepatitis A-E ➤ herpes ➤ chickenpox ➤ smallpox ➤ typhoid	- Lecture - Discussion - Explain using Charts, graphs - Models, films, slides - Demonstration - Practice session - Case discussion/ Seminar - Health education - Supervised clinical practice - Drug book/presentat	- Essay type - short answers - Objective Type - Assessment of skills with checklist - Assessment of patient management problem.

			➤ meningitis ➤ gas gangrene ➤ leprosy ➤ Dengue ➤ Plague ➤ Malaria ➤ Diptheria ➤ Pertussis ➤ Poliomyelitis ➤ Measles ➤ Mumps ➤ Influenza ➤ Tetanus ➤ Yellow fever ➤ Filariasis ➤ HIV,AIDS ➤ Reproductive Tract infections ➤ Special Infection control measures: Notification, Isolation, Quarantine, Immunization, Infectious Disease Hospitals - Special therapies, alternative therapies - Nursing procedures Drugs used in treatment of Communicable disease	ion	
XIII	25	▪ Describe the Organization and physical set up of operation theatre ▪ Identify the various instruments and equipments used for common surgical procedures ▪ Describe the infections control measures in the Operation theatre ▪ Describe the role of the nurse in the Peri Operative nursing care	Peri operative nursing ▪ Organization and Physical set up of the operation (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 ➤ Positions and draping for common surgical procedures ➤ Scrubbing procedures ➤ Gowning and gloving ➤ Preparation of O.T. sets ➤ Monitoring the patient during surgical procedures ▪ Maintenance of therapeutic environment in O.T. ▪ Standard Safety measures ➤ Infection control fumigation, disinfection and sterilization ➤ Biomedical waste management ➤ Prevention of accidents and hazards in O.T.	▪ Lecture Discussion ▪ Explain using Charts, graphs ▪ Models, films, slides ▪ Demonstration ▪ Practice session ▪ Case discussion/Seminar ▪ Health education ▪ Supervised clinical practice ▪ Drug book/presentation	▪ Essay type ▪ short answers ▪ Objective Type ▪ Assessment of skills with checklist



			▪ Anaesthesia ➤ Types ➤ Methods of administration ➤ Effects and stages ➤ Equipments ➤ Drugs ▪ Cardio Pulmonary Resuscitation (CPR) ▪ Pain management technique ▪ Legal Aspects		
--	--	--	--	--	--

Medical Surgical Nursing

(Adult including Geriatrics)-1

Practical

Areas	Duration (in week)	Objectives	Skills	Assignments	Assessment Methods
General Medical Ward (*Respiratory, GI, Endocrine, Renal, Hematology)	6	• Provide nursing care to adult patients with medical disorders • Counsel and educate patients and families	• Assessment of the patient ➤ Taking history ➤ Perform general and specific physical examination. ➤ Identification alterations and deviations • Practice medical surgical asepsis- Standard safety measures • Administer medications ➤ Oral, IV, IM, Subcutaneous • IV therapy ➤ IV canulation ➤ Maintenance and monitoring • Oxygen therapy by different methods • Nebulization • Chest physio therapy • Naso gastric feeding • Assist in common diagnostic • Perform/Assist in therapeutic procedures • Blood and component therapy • Throat Suctioning • Collect specimens for common investigations. • Maintain eliminations ➤ Catheterization ➤ Bowel wash ➤ Enema ➤ Urinary drainage • Maintain Intake, output and documentation • Counsel and teach related to	• Plan and give care to 3-4 assigned patients • Nursing care plan-2 • Nursing case study/presentation-1 • Drug presentation-1 • Maintain drug book • Maintain Practical record book	• Assess Performance with rating scale • Assess each skill with checklist • Evaluation of case study/Presentation • Completion of practical record.



			specific disease conditions		
General Surgical Ward (GI, Urinary, CTVS)	6	• Provide pre and post operative nursing care to adult patients with surgical disorders • Counsel and educate patients and families	• Practical 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 exercises • Naso gastric aspiration • Care of chest drainage • Ostomy care ➤Gastrostomy ➤Colostomy ➤Enterostomy • Blood and component therapy • Practice universal precautions	• Plan and give care to 3-4 assigned patients • Nursing care plan-2 • Nursing case study/presentation-1 • Maintain drug book	• Assess Performance with rating scale • Assess each skill with checklist • Evaluation of case study/Presentation • Completion of activity record.
Cardiology ward	2	• Provide Nursing care to patients with cardiac disorders • Counsel and educate patients and families	• Physical examination of the cardio vascular system • Recording 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	• Plan and give care to 3-4 assigned patients • Nursing care plan-1 • Nursing case study/presentation/Health talk-1 • Maintain drug book	• Assess Performance with rating scale • Assess each skill with checklist • Evaluation of case study/Presentation/health talk • Completion of activity record.
Skim & Communicable diseases Ward	1	• Identify skin problems • Provide nursing care to patients with Skin disorders & Communicable diseases • Counsel and educate patients and families	• 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 • Counselling HIV positive patients • Teach prevention of infectious diseases.	• Plan and give care to 2-3 assigned patients • Health talk/Counselling HIV positive patients and families-1 • Maintain drug book	• Assess Performance with rating scale • Evaluation health talk/Counseling session • Completion of activity record.
Orthopaedic	2	• Provide nursing	• Assessment of orthopaedic	• Plan and give	• Assess



ward		care to patients with musculo-skeletal disorders • Counsel and educate patients and families	patients • Assist in application of plaster cast and removal of cast • Apply skin traction buck's extension traction • Assist in application and removal of prosthesis • Physiotherapy-Range of motion exercises (ROM), muscle strengthening exercises • Crutch maneuvering technique. • Activities of daily living • Ambulation • Teach and counsel patients and families	care to 2-3 assigned patients • Nursing care plan-1 • Nursing case study/presentation-1 • Maintain drug book	Performance with rating scale • Evaluation of Nursing care plan and Nursing case study/presentation • Completion of activity record.
Operation Theatre	6	• Identify instruments used in common operations • Participate in Infections control practices in the Operations Theatre • Set-up the table/trolleys for common operative procedures • Assist in giving anesthesia • Assist in the operative procedures • Provide peri operative nursing care	• Scrubbing, gowning, gloving • Identify instruments, suturing materials for common operations • Disinfections, Carbolizations, fumigations • Preparations of instrument sets for common operations • Sterilizations of sharps and other instruments • Prepare the O.T. table depending upon the operations • Positioning and monitoring of patients • Endotracheal intubation • Assisting in minor and major operations. • Handling specimens • Disposal of waste as per the guidelines	• Assist as a circulatory nurse in • Major cases-10 • Minor cases—5 • Assist as a scrub nurse in • Major cases-10 • Minor cases-5 • Maintain drug book	• Assess Performance with rating scale • Completion of activity record.