

Maharashtra University of Health Sciences, Nashik



M.Sc. (Nursing) – I Year

Syllabus for Medical Surgical Nursing

(Syllabus Approved by Academic Council dated 19/12/2016 vide Resolution No. 138/2016 and Indian Nursing Council letter No. F.No.18-19/Univ/2018-INC dated 23/02/2018)

MEDICAL SURGICAL NURSING – I

Placement: I year M.Sc. Nursing

Hours of Instruction
Theory – 150 Hours
Practical – 650 Hours
Total: 800 Hours

Course Description

This course is common for the students undergoing clinical speciality-II in Neuro Science Nursing/Cardiovascular and Thoracic Nursing/Critical Care Nursing/Oncology Nursing/ Orthopedic and Rehabilitation Nursing/Nephro and Urology nursing, Gastroenterology Nursing/ Geriatric Nursing. It is designed to assist students in developing expertise and in depth knowledge in the field of Medical Surgical Nursing. It will help students to appreciate the patient as a holistic individual and develop skill to function as a specialized Medical Surgical nurse. It will further enable the students to function as educator, manager and researcher in the field of Medical Surgical Nursing.

Objectives

At the end of the course the students will be able to:

1. Appreciate trends and issues in the field of Medical Surgical Nursing as a speciality.
2. Apply concepts and theories related to health promotion.
3. Appreciate the client as a holistic individual.
4. Perform physical, psychosocial assessment of Medical Surgical patients.
5. Apply Nursing process in providing care to patients.
6. Integrate the concept of family centered nursing care with associated disorder such as genetic, congenital and long-term illness.
7. Recognize and manage emergencies with Medical Surgical patients.
8. Describe various recent technologies and treatment modalities in the management of critically ill patients.
9. Appreciate the legal and ethical issues relevant to Medical Surgical Nursing.
10. Prepare a design for layout and management of Medical Surgical units.
11. Appreciate the role of alternative systems of medicine in care of patients.
12. Incorporate evidence based Nursing practice and identify the areas of research in the field of Medical Surgical Nursing.
13. Recognize the role of Nurse practitioner as a member of the Medical Surgical health teams.
14. Teach Medical Surgical Nursing to undergraduate nursing students and in-service nurses.

Course Content

Unit	Hrs	Content	M O T	Teaching learning activities
I	Th-5	<p><u>Introduction</u></p> <ul style="list-style-type: none"> • Historical development of medical surgical nursing in India • Current status of health and disease burden in India • Current concept of health • Trends and issues in medical surgical nursing • Ethical and cultural issues in medical surgical nursing • Rights of patients • National health policy, special laws and ordinances relating to older people • National goals of 5 year plans • National health programs related to adult health 	LD	Students present the historical development of medical surgical nursing in India, current trends and issues in medical surgical nursing and national health policies
II	Th-10 Pr-5	<p><u>Health Assessment of patients</u></p> <ul style="list-style-type: none"> • History taking • Physical examination of various systems: <ul style="list-style-type: none"> ❖ CVS ❖ CNS ❖ Respiratory ❖ Musculoskeletal ❖ Gastrointestinal ❖ Integumentary ❖ Otorhynological ❖ Ophthalmologic • Nutritional assessment • Related investigations and diagnostic assessment 	LD Demo Videos	<ul style="list-style-type: none"> • Student perform health assessment of various systems in clinical areas • Student perform Nutritional assessment in clinical areas
III	Th-4 Pr-1	<p><u>Care in Hospital settings</u></p> <ul style="list-style-type: none"> • Ambulatory care • Acute and Critical care • Long term care • Home health care • Characteristics, care models, practice settings, interdisciplinary team • Hospitalization: effects of hospitalization on the patient and family, infection control in hospital • Stressors and reaction related to disease process • Nursing care using Nursing process approach 	LD	<ul style="list-style-type: none"> • Student implements nursing process approach in writing nursing assignment • Visit to infection control dept. and biomedical waste management
IV	Th-8 Pr-2	<p><u>Management of patients with disorders of Nervous system</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology • Disorders –etiology, pathophysiology, clinical manifestations, complications, prognosis • Health assessment, history taking, physical examination, investigation and diagnostic assessment 	LD	<ul style="list-style-type: none"> • Carry out practice teaching, presentation/ project work on disorders of nervous system

Unit	Hrs	Content	M O T	Teaching learning activities
		<ul style="list-style-type: none"> • Treatment modalities and trends • Nursing management • Related research studies • Evidence based nursing practice • Rehabilitation and follow- up <p>❖ <u>Disorders of brain:</u></p> <ul style="list-style-type: none"> • Altered level of consciousness, headache, increased ICP, convulsive disorders, myasthenia gravis, transient ischemic attack, cerebrovascular accident, intracranial haemorrhage, chronic fatigue syndrome • Intracranial tumors • Traumatic brain injury • Infections: Meningitis, Encephalitis, Brain and spinal abscesses • Degenerative disorders: Parkinson’s disease, Multiple sclerosis, Alzheimer’s disease <p>❖ <u>Disorders of spinal cord:</u></p> <ul style="list-style-type: none"> • Guillain Barre’ syndrome (Polyradiculoneuritis) • Spinal cord injuries • Intravertebral tumors • Peripheral nerve injuries • Trigeminal neuralgia 	<p>Demo</p> <p>Videos</p>	<ul style="list-style-type: none"> • Carry out case study/ case presentation/ nursing care plan related to the disorders of nervous system in clinical area • Clinical posting in neuro OPD, EEG dept, Pain clinic etc. • Visit to paraplegic rehabilitation center
V	Th-4 Pr-1	<p><u>Management of patients with disorders of Eye and ENT</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology • Disorders –etiology, pathophysiology, clinical manifestations, complications, prognosis • Health assessment, history taking, physical examination, investigation and diagnostic assessment of eye and ENT • Treatment modalities and trends • Nursing management • Related research studies • Evidence based nursing practice • Rehabilitation and follow- up <p>❖ <u>Disorders of eye:</u></p> <ul style="list-style-type: none"> • Conditions of the conjunctiva and eyelids • Disorders of cornea • Cataract • Glaucoma • Retinal detachment • Diabetic retinopathy • Other problems of the retina and vitreous • Eye trauma • Tumors of the eye 	<p>LD</p> <p>Videos</p>	<ul style="list-style-type: none"> • Carry out practice teaching, presentation/ project work on disorders of eye and ENT • Carry out nursing care plan related to the disorders of eye and ENT in clinical area • Visit to eye bank, voice clinic • Clinical posting in eye and ENT dept.etc.

Unit	Hrs	Content	M O T	Teaching learning activities
		<ul style="list-style-type: none"> • Blindness ❖ <u>Disorders of ear:</u> • Hearing loss • Otitis externa • Impacted cerumen and foreign bodies • Acute otitis media, chronic otitis media and mastoiditis • Meniere's disease, vestibular labyrinthitis ❖ <u>Disorders of nose:</u> • Rhinopathies, epistaxis, sinusitis, pharyngitis ❖ Cancer of the oral cavity, oropharynx, nasopharynx, and paranasal sinuses • Cancer of larynx 		
VI	Th-8 Pr-2	<p><u>Management of patients with disorders of Respiratory system</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology • Disorders –etiology , pathophysiology, clinical manifestations, complications, prognosis • Health assessment ,history taking, physical examination, investigation and diagnostic assessment • Treatment modalities and trends • Nursing management • Related research studies • Evidence based nursing practice • Rehabilitation and follow –up ❖ <u>Infections:</u> • Viral infections: Common cold, influenza, acute bronchitis • Bacterial infections: Pneumonia, tuberculosis • Fungal infections: Histoplasmosis • Lung abscess, empyema • Occupational lung diseases • Sarcoidosis • Cancer of the lung • Pulmonary vascular disease; Pulmonary emboli and pulmonary infarction • Chest injuries, pneumothorax • Chronic bronchiectasis, COPD, core pulmonale • Emphysema • Cystic fibrosis • Respiratory failure, acute respiratory distress syndrome 	LD Demo Videos	<ul style="list-style-type: none"> • Carry out practice teaching, presentation/ project work on disorders of respiratory system • Carry out case study/ case presentation/ nursing care plan Perform ABG analysis and interpretation Visit to hyperbaric oxygen therapy Exposure to procedure- Pulmonary Function Test, X ray, Endoscopy etc
VII	Th-8 Pr-2	<p><u>Management of patients with disorders of Cardiovascular system</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology • Disorders –etiology, pathophysiology, clinical manifestations, complications, prognosis 	LD	<ul style="list-style-type: none"> • Carry out practice teaching/ presentation/ project work on disorders of

Unit	Hrs	Content	M O T	Teaching learning activities
		<ul style="list-style-type: none"> • Health assessment ,history taking, physical examination, investigation and diagnostic assessment • Treatment modalities and trends • Nursing management • Related research studies • Evidence based nursing practice • Rehabilitation and follow –up • Cardiac dysrhythmias, pacemakers, cardioversion and defibrillation • Cardio pulmonary resuscitation • Coronary artery disease, myocardial infarction, hyperlipidemia, cardiogenic shock ❖ <u>Inflammatory Heart Disease:</u> Pericarditis, myocarditis, infective endocarditis, RHD and valvular heart disease • Congestive cardiac failure • Hypertension ❖ <u>Vascular diseases:</u> Arterial occlusive disorders, Raynaud’s disease, aneurysm, arterial embolism • Venous disorders-superficial thrombophlebitis, deep vein thrombosis, varicose veins, atriovenous fistulas, lymphedema 	Demo Videos	<ul style="list-style-type: none"> • cardiovascular system • Carry out case study/ case presentation/ nursing care plan <p>Clinical posting n cardiac OPD, 2D Echo dept, stress test etc</p> <ul style="list-style-type: none"> • Perform ECG analysis and interpretation
VIII	Th-4 Pr-1	<p><u>Management of patients with disorders of Blood</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology • Disorders –etiology, pathophysiology, clinical manifestations, complications, prognosis • Health assessment, history taking, physical examination, investigation and diagnostic assessment • Treatment modalities and trends • Nursing management • Related research studies • Evidence based nursing practice • Rehabilitation and follow–up ❖ Disorders associated with erythrocytes: Anemia, Erythrocytosis, ❖ Disorders associated with Hemostasis: platelets and coagulation, Thrombocytopenia, Thrombocytosis, Hemophilia ❖ Disorders associated with White Blood cells: Neutropenia, neutrophilia, leukemia, Hodgkin’s and Non –Hodgkin’s lymphoma, Infectious mononucleosis 	LD Videos	<ul style="list-style-type: none"> • Carry out practice teaching, presentation, project work on disorders of blood • Carry out case study, case presentation, nursing care plan • Visit to blood bank

Unit	Hrs	Content	M O T	Teaching learning activities
IX	Th-8 Pr-2	<p><u>Management of patients with disorders of Gastrointestinal tract</u></p> <ul style="list-style-type: none"> • Health assessment, history taking, physical examination, investigation and diagnostic assessment • Treatment modalities and trends • Nursing management • Related research studies • Evidence based nursing practice • Rehabilitation and follow –up ❖ Gastroduodenal disorders: • Food poisoning, GI Bleeding • Peptic ulcer diseases • Gastritis • Gastric cancer ❖ Hepatobiliary conditions: cirrhosis of liver, cholecystitis, cholelithiasis, Choledocholithiasis ❖ Pancreatic disorders: Pancreatitis, cancer of pancreas ❖ Problems of Intestine: Flatulence, appendicitis, peritonitis, diverticulitis, parasitic infections, intestinal obstructions ❖ Inflammatory bowel disease: Irritable bowel syndrome, Ulcerative colitis ❖ Malabsorption syndrome, hernia, worm infestation ❖ Anorectal disorders: Hemorrhoids, anal fissure and fistula, colorectal cancers 	LD Demo Videos	<ul style="list-style-type: none"> • Carry out practice teaching/ presentation/ project work on disorders of gastrointestinal system • Carry out case study/ case presentation/ nursing care plan • Clinical posting in surgical OPD, endoscopy dept
X	Th-8 Pr-2	<p><u>Management of patients with disorders of Endocrine system</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology • Disorders –etiology, pathophysiology, clinical manifestations, complications, prognosis • Health assessment, history taking, physical examination, investigation and diagnostic assessment • Treatment modalities and trends • Nursing management • Related research studies • Evidence based nursing practice • Rehabilitation and follow –up ❖ Disorders of Pituitary Gland: Anterior pituitary Gland, Hyperpituitarism, Hypopituitarism ❖ Posterior pituitary Gland: Hyperfunction ❖ Disorders of Thyroid Gland: Hyperthyroidism, Hypothyroidism, Cancer of the thyroid 	LD Videos	<ul style="list-style-type: none"> • Carry out practice teaching, presentation/ project work on disorders of endocrine system • Carry out case study/ case presentation/ nursing care plan • Clinical posting in endocrine OPD

Unit	Hrs	Content	M O T	Teaching learning activities
XI	Th-8 Pr-2	<p><u>Management of patients with disorders of Genito urinary system</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology • Disorders –etiology, pathophysiology, clinical manifestations, complications, prognosis • Health assessment, history taking, physical examination, investigation and diagnostic assessment • Treatment modalities and trends • Nursing management • Related research studies • Evidence based nursing practice • Rehabilitation and follow –up <ul style="list-style-type: none"> ❖ Congenital disorders: Polycystic kidney disease ❖ Inflammatory disorders: Lower urinary tract infections, pyelonephritis, Tuberculosis of kidney, acute glomerulus’s nephritis, nephrotic syndrome ❖ Vascular disorders: Renal artery stenosis, nephrosclerosis, diabetic nephropathy ❖ Obstructive disorders: Hydronephrosis, urinary retention, renal calculi • Tumors of the kidney, bladder • Urethral strictures • Urinary incontinence • Trauma to the urinary tract • Acute renal Failure • Chronic renal Failure 	LD Videos	<ul style="list-style-type: none"> • Carry out practice teaching/ presentation/ project work on disorders of genitourinary system • Carry out case study/ case presentation/ nursing care plan related to the disorders of genitourinary system in clinical area
XII	Th-8 Pr-2	<p><u>Management of patient with disorders of musculo-skeletal system</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology • Disorders –etiology , pathophysiology, clinical manifestations, complications, prognosis • Health assessment, history taking, physical examination, investigation and • Diagnostic assessment of musculo-skeletal system. • Treatment modalities and trends • Nursing management • Related research studies • Evidence based nursing practice • Rehabilitation and follow –up <ul style="list-style-type: none"> ❖ Trauma to the bone: Fracture of bone, hip fracture, fracture of spine. ❖ Trauma to the soft tissue structure: Ligaments and tendons ❖ Trauma to the joint and joint structures: Traumatic hip dislocation 	LD Videos	<ul style="list-style-type: none"> • Carry out practice teaching/ presentation/ project work on disorders of musculoskeletal system • Carry out nursing care plan • Clinical posting in ortho OPD • Visit to artificial limb center.

Unit	Hrs	Content	M O T	Teaching learning activities
		<ul style="list-style-type: none"> ❖ Inflammatory disorders: <ul style="list-style-type: none"> • Rheumatoid arthritis • SLE • Polymyositis and dermatomyositis • Ankylosing spondylitis • Nonarticular rheumatism: Bursitis, carpal tunnel syndrome • Degenerative joint disease of spine • Restrictive disorders: scoliosis • Other disorders: Recurrent dislocation of the patella, gout, bacterial arthritis, osteomyelitis. • Tumors of the musculoskeletal system • Amputation • Prosthesis Transplant and replacement surgeries 		
XIII	Th-6 Pr-2	<p><u>Management of patients with disorders of Integumentary system</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology • Disorders –etiology, pathophysiology, clinical manifestations, complications, prognosis • Health assessment, history taking, physical examination, investigation and diagnostic assessment of skin and appendages ❖ Fungal infections: candidiasis, dermatophytoses ❖ Bacterial infections: impetigo, folliculitis, furuncles and carbuncles ❖ Viral disease: warts, herpes simplex, herpetic whitlow, herpes zoster. • Acne • Dermatitis • Skin reactions from systemic factors • Dermatitis medicamentosa • Exfoliative dermatitis • Lupus erythematosus • Psoriasis • Pemphigus vulgaris ❖ Tumors of skin: keratosis ❖ Premalignant lesions: leukoplakia, squamous cell carcinoma, malignant melanoma. ❖ Other conditions: keloids, alopecia • Dermatologic surgeries • Pressure sores 	LD Videos	<ul style="list-style-type: none"> • Carry out practice teaching on disorders of integumentary system • Carry out nursing care plan • Clinical posting in skin OPD

Unit	Hrs	Content	M O T	Teaching learning activities
XIV	Th-6 Pr-2	<p><u>Management of patient with disorders of reproductive system</u></p> <ul style="list-style-type: none"> • Review of anatomy and physiology • Disorders –etiology, pathophysiology, clinical manifestations, complications, prognosis • Health assessment, history taking, physical examination, investigation and diagnostic assessment of reproductive system. <ul style="list-style-type: none"> ❖ <u>Problem of women:</u> • Infectious process: Vaginitis, cervicitis, pelvic inflammatory disease, toxic shock syndrome. • Disorders of menstruation: Dysmenorrhea, premenstrual syndrome, dysfunctional uterine bleeding, endometriosis. • Structural problems: Uterine displacement/prolapsed. • Neoplasms: uterus-Uterine Leiomyomas (fibroid), gestational trophoblastic neoplasia. • Neoplasm: ovaries-Ovarian cysts, cancer of ovaries, Neoplasm of vulva • Sterilization, infertility <ul style="list-style-type: none"> ❖ <u>Problems of men:</u> • Problems of prostate gland: BPH, cancer of prostate • Problem of penis: hypospadiasis, epispadiasis, erectile mechanism, cancer of penis. • Problem of scrotum and its content: Undescended testicles, hydrocele, epididymitis, spermatocele, varicocele, orchitis, torsion, testicular cancer. 	LD Videos	<ul style="list-style-type: none"> • Carry out practice teaching on disorders of reproductive system • Carry out nursing care plan • Visit to family welfare dept • Clinical posting in gyn-obs OPD and infertility center
XV	Th-8	<p><u>Geriatric nursing</u></p> <ul style="list-style-type: none"> • Health assessment, history taking, physical examination. ❖ Ageing: demography, myths and realities • Concepts and theories of aging • Cognitive aspects of aging • Normal biological aging • Age related body systems changes • Psychological aspects of aging • Medications and elderly • Stress and coping in elderly adults ❖ Common health problems and nursing management: • Psychological and sexual problems • Abuse of elderly • Role of nurse for care of elderly: ambulation, nutritional, communication, psychosocial and spiritual. 	LD	<ul style="list-style-type: none"> • Carry out practice teaching, presentation on geriatric nursing • Visit to old age home

Unit	Hrs	Content	M O T	Teaching learning activities
		<ul style="list-style-type: none"> • Role of nurse and family • Use of aids and prosthesis (hearing aids, dentures). • Legal and ethical issues • Provisions and programs for elderly: privileges and programs and health services. • Home and institutional care <p>Issues, problems and trends.</p>		
XVI	Th-5	Management of patient with communicable and sexually transmitted diseases: <ul style="list-style-type: none"> • Health assessment, history taking physical examination, investigation and diagnostic assessment of patient with communicable and STD. • Review of immune system. • Review of infectious disease process • Disorders of immune system: HIV/AIDS 	LD	<ul style="list-style-type: none"> • Visit to communicable disease center. • Visit to HIV/AIDS center.
XVII	Th-6 Pr-2	Emergency, trauma and multisystem organ failure <ul style="list-style-type: none"> • DIC • Burn • Poisoning • Shock • Trauma: cerebral trauma, spinal trauma: spinal cord injury, fracture spine. Chest trauma. • Cold related emergencies: hypothermia, frostbite • Heat related emergencies: heat cramps, heat exhaustion, heat stroke • Drowning • Snake bite 	LD	<ul style="list-style-type: none"> • Clinical posting in ICU and ER dept • Demonstration of BLS
XVIII	Th-8	Oncology nursing <ul style="list-style-type: none"> • Review of Structure & characteristics of normal and cancer cells • Health assessment, history taking, physical examination, investigation and assisting with diagnostic and therapeutic procedures • Nursing management • Related research studies • Evidence based nursing practice • Rehabilitation and follow –up • Prevention, Screening for early detection, warning signs of cancer • Epidemiology, etiology, classifications, pathophysiology, staging, clinical manifestations, diagnosis treatment modalities and medical, surgical and nursing management of malignant diseases 	LD	<ul style="list-style-type: none"> • Carry out practice teaching/ presentation/ project work on oncology nursing • Carry out nursing care plan • Clinical posting in oncology dept, radiation dept etc • Visit to palliative center, BMT unit

Unit	Hrs	Content	M O T	Teaching learning activities
		<ul style="list-style-type: none"> • Treatment Modalities: chemotherapy, radiation therapy, Immunotherapy Chemotherapy, Gene therapy Stem cell & Bone Marrow transplants. • Surgical interventions • Psychosocial aspects of cancer • Rehabilitation and Palliative care • Management: Nutritional support, Home care, Hospice care, Stoma care Psycho social aspects 		

Student Activities:

- History taking
- Health Assessment
- Nutritional Assessment
- Health Education related to disease conditions
- Clinical presentations
- Case studies
- Projects work
- Field visits

Essential Nursing Skills:

- Health assessment of various system
- Triage
- BLS
- Endotracheal, tracheostomy suction and care
- ECG analysis and interpretation
- ABG analysis and interpretation
- Stoma care