

<b>COURSE TITLE</b>	<b>MEDICAL SURGICAL NURSING -1</b>
<b>COURSE CODE</b>	<b>20GN0201</b>
<b>COURSE CREDITS</b>	<b>8</b>

**Objective:**

- 1 Describe the cause, symptoms, treatment and prevention of Medical Surgical Diseases.
- 2 Demonstrate skill in carrying out nursing technique and procedures with the applicant of scientific principles.
- 3 Discuss nursing process and provide nursing care to patients with medical surgical/ diseases.

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

- 1 This course shall help students understand the concept of disease and disease process, Students shall be able to gain knowledge and develop understanding of various medical, surgical disorders and disease. They shall be able to give comprehensive nursing care to patient with these diseases.

**Pre-requisite of course:** This course shall help students understand the concept of disease and disease process, Students shall be able to gain knowledge and develop understanding of various medical, surgical disorders and disease. They shall be able to give comprehensive nursing care to patient with these diseases.

**Teaching and Examination Scheme**

<b>Theory Hours</b>	<b>Tutorial Hours</b>	<b>Practical Hours</b>	<b>ESE</b>	<b>IA</b>	<b>CSE</b>	<b>Viva</b>	<b>Term Work</b>
3	10	0	75	15	10	25	25

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
1	<b>Introduction</b> Brief history of evolution of modern medicine and surgery - Theories of illness and its causation Illness as human experience - Review of Nursing process and Nursing care plan.	2
2	<b>Nursing assessment</b> Health Assessment - Health history - Physical examination - Nutritional assessment - General clinical investigations	4
3	<b>Pathophysiological mechanism of disease</b> Stress adaptation- stressors, management, Nursing interventions - Inflammation - Defense against injury - Nutritional consideration	2

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
4	<p><b>Altered immune response</b> Overview of normal immune system - Altered immune response, hypersensitivity and allergy, Assessment of immune system - Diagnostic evaluation, Allergy disorders: ? Anaphylaxis ? Allergic rhinitis ? Contact dermatitis ? Atopic dermatitis ? Drug reactions ? Food allergy ? Serum sickness ? Latex allergy, Approaches to treat allergic diseases - Nursing management client with altered immune response, Auto immune disease ? Rheumatoid arthritis ? SLE ? Ankylosing spondylitis ? Graft versus host disease</p>	6
5	<p><b>Fluid and electrolyte balance</b> Physical Environment ? Operation theatre room - cleaning of tables, trolleys, lights and other equipments ? Pre-operative holding areas., Theatre Technique ? Scrubbing – Hand washing ? Gowning ? Gloving ? Positioning of patient for various surgical procedures. ? Draping of patient., Preparation of theatre, equipment and supplies ? Cleaning ? Needles, sutures – types and their uses. ? Carbolization, sterilization ETO sterilization, fumigation, OT swab, Bacillocid sterilization. ? Packing and sterilization of dressings, linen rubber ware suture material, instruments, needles and other materials.</p>	4
6	<p><b>Operation theatre technique:</b> Physical Environment ? Operation theatre room - cleaning of tables, trolleys, lights and other equipments, Pre-operative holding areas., Theatre Technique ? Scrubbing – Hand washing ? Gowning ? Gloving ? Positioning of patient for various surgical procedures. ? Draping of patient, Preparation of theatre, equipment and supplies ? Cleaning ? Needles, sutures – types and their uses. ? Carbolization, sterilization ETO sterilization, fumigation, OT swab, Bacillocid sterilization. ? Packing and sterilization of dressings, linen rubber ware suture material, instruments, needles and other materials.</p>	8
7	<p><b>Management of patient undergoing surgery</b> Pre operative preparation and care - Physical - Psychological, - Pre-medication - Legal and ethical, Intra operative management - Surgical Team - Nursing activities and responsibilities - Anesthetic agents - Role of nurse in anesthesia, Post operative Management - Immediate care - Transferring patient from operation theatre - Patient in recovery room - Recovery from Anesthesia - Post operative observation and nursing management - Carryout the post operative orders. - Postoperative complication observation, prevention &amp; management.</p>	8

Contents : Unit	Topics	Contact Hours
8	<p><b>Nursing management of patient with impaired respiratory function and gaseous exchange</b></p> <p>Assessment of respiratory function - History - Physical examination - Diagnostic evaluation Care of patient in respiratory intensive care and ventilator care and respiratory function Management of Patient with disorders of upper respiratory airway. - Obstruction of upper airway - Epistaxis - Sinusitis - Pharyngitis - Tonsillitis - Laryngitis - Deviated nasal septum, Management of patient with disorders of the chest and lower respiratory tract Management of patient with impaired • Lung abscess - Empyema - Bronchial asthma - COPD - Pneumothorax - Pneumonia - Bronchitis - Bronchiectasis - Trauma - Pulmonary Tuberculosis/DOTS - Pulmonary embolism - Pulmonary edema - Lung tumors - Disorders of pleura and pleural space - Lung surgery - Respiratory failure - Acute respiratory distress syndrome, SARS, Alternate therapies Drugs used in treatment of disorder of respiratory system</p>	15
9	<p><b>Nursing management of patient with gastro intestinal disorders</b></p> <p>Assessment of gastro intestinal function - History - Physical examination - Diagnostic evaluation Management of Upper gastrointestinal disorders - Parotitis - Stomatitis - Glossitis - Gingivitis - Pyorrhea - Dental caries - Halitosis - Dysphagia - Achalasiacardia - Gastro Esophageal Reflux Disease (GERD) - Cancer of esophagus - Hiatus hernia - Gastritis - Gastric and duodenal ulcers - Gastric cancer - Gastroenteritis - Esophageal fistula - Peritonitis, Care of patient with gastro intestinal intubation and special nutritional management. Management of patient with lower gastro intestinal disorders: - Helminthiasis - Constipation - Diarrhea - Fecal incontinence - Irritable Bowel Syndrome (IBS) - Appendicitis - Diverticular disease - Crohn's disease - Ulcerative colitis - Intestinal obstruction - Colitis - TB abdomen - Colorectal cancer - Polyps of colon and rectum - Ano rectal abscess - Anal fistula and fissure - Hemorrhoids, Alternate therapies Drugs used in treatment of GI disorders</p>	18

Contents : Unit	Topics	Contact Hours
10	<p><b>Nursing management of patients with metabolic and endocrinal disorders:</b>            Assessment of Hepatic and biliary functions - History - Physical examination - Diagnostic measures, Management of patients with hepatic disorders - Jaundice - Hepatic cirrhosis - Portal hypertension - Ascites - Hepatic Encephalopathy and coma - Viral hepatitis - Tumors and cyst of the liver - Liver abscess Management of patients with biliary disorders - Cholecystitis - Cholelithiasis - Cholelithiasis - Acute and chronic pancreatitis - Cancer of pancreas, Assessment of Endocrinal function - History - Physical examination - Diagnostic evaluation Management of endocrinal disorders - Pituitary disorders - Thyroid disorders • Hyperthyroidism • Hypothyroidism • Thyroid tumors • Goiter - Parathyroid disorders - Pancreas disorder • Diabetes mellitus - Adrenal disorders • Pheochromocytoma • Addison’s disease • Cushing’s syndrome - Tumors of the endocrine glands, Alternate therapies Drugs used in treatment of metabolic and Endocrine disorder</p>	15
11	<p><b>Nursing management of renal and urinary disorders</b>            Assessment of renal and urinary functions - History - Physical examination - Diagnostic evaluation Management of patients with renal and urinary disorders - Urinary retention and incontinence - Urinary tract infection, Management of patients with renal and urinary disorders - Urinary retention and incontinence - Urinary tract infection, Assessment of male Genitourinary function - History - Physical examination - Diagnostic evaluation Disorders of male genito urinary tract and its management - Hydrocele, - Phimosis - Benign and malignant prostatic hypertrophy - Orchitis - Epididymo-orchitis - Cancer penis, Alternate therapies Drugs used in treatment of renal and Urinary disorders</p>	14
12	<p><b>Nursing management of patients with neurological disorders:</b>            Assessment Neurological functions - History - Physical examination - Diagnostic evaluation, Management of patients with neurologic dysfunctions - Altered level of consciousness - Increased Intracranial pressure - Intracranial surgery, Management of patients with neurological disorders - Headache - Migraine - Seizures - Epilepsy - Status epilepticus - Cerebrovascular disorder – CVA - Neurological trauma – Head, brain, spinal cord, subdural and extradural hematoma - Neurologic infection • Meningitis, • Brain abscess • Encephalitis - Degenerative disorders • Multiple sclerosis • Myasthenia gravis • Guillain – Barre syndrome • Parkinsonism • Alzheimer disease - Neuralgia - Bell’s Palsy - Peripheral neuropathies - Brain and spinal cord tumors - Huntington’s disease - Muscular Dystrophies - Herniation of the intervertebral disc Alternate therapies</p>	20

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
13	<b>Nursing Management of Patients with Connective Tissue and Collagen Disorders</b> Assessment - History - Physical examination - Diagnostic measures, Conditions associated with ageing ? Dementia ? Osteoporosis ? Incontinence – urinary ? Sensory deprivation Management of patients with disorders of connective tissue and collagen disorders - Rheumatoid arthritis - Systemic lupus Erythematosus (SLE) - Scleroderma - Polymyositis - Osteoarthritis - Ankylosing Spondylitis - Gout - Fibromyalgia, Alternate therapies Drugs used in treatment of connective tissue and collagen disorders	8
14	<b>Nursing management of the elderly</b> Assessment of the elderly - Ageing process - Helping and care of elderly in promoting wellness and self care Conditions associated with ageing - Dementia - Osteoporosis - Incontinence – urinary - Sensory deprivation Home and Institutional care	6
<b>Total Hours</b>		<b>130</b>

#### Suggested List of Experiments:

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
1	<b>clinical posting</b> clinical posting	400
<b>Total Hours</b>		<b>400</b>

#### Textbook :

- 1 Medical Surgical Nursing, Kuchthresiamma Thomas, Jaypee, 2024

#### References:

- 1 Medical Surgical Nursing, Medical Surgical Nursing, MP Sharma, AITBS, 2021

#### Suggested Theory Distribution:

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

Distribution of Theory for course delivery					
<b>Remember / Knowledge</b>	<b>Understand</b>	<b>Apply</b>	<b>Analyze</b>	<b>Evaluate</b>	<b>Higher order Thinking / Creative</b>
40.00	40.00	10.00	10.00	0.00	0.00

#### Instructional Method:

- 1 Theory exam will be conducted by Gujarat Nursing Council

**Supplementary Resources:**

1 N/A