



Integral University, Lucknow

Effective from Session: 2023-2024							
Course Code	NRY 201	Title of the Course	Medical Surgical Nursing-I	L	T	P	C
Year	Second	Semester	Non Semester	5	1	0	4
Pre-Requisite	None	Co-requisite	None				
Course Objectives	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.						

Course Outcomes	
CO1	Explain the history of modern Medicine and Surgery, demonstrate skill in conducting health assessment and physical examination, describe the pathophysiological mechanism of diseases, demonstrate skill in providing nursing care to patients with altered immune response, demonstrate skill in management of clients with fluid and electrolyte imbalance, describe the physical setup of OT and its equipment, and demonstrate skill in theater techniques.
CO2	Demonstrate skill in preparing the client for surgery, recognize and perform the role of nurse during surgery, and demonstrate skills in the nursing management of clients with impaired respiratory function and gaseous exchange, as well as describe the various gastrointestinal disorders while demonstrating skill in providing care for clients with gastrointestinal disorders.
CO3	"Describe and demonstrate skills in the management and care of patients and clients with metabolic, endocrinal, urinary, and renal disorders."
CO4	Demonstrate skill in providing nursing care to clients with connective tissue and collagen disorders, while also describing the nurse's role in promoting wellness for elderly and demonstrating skill in providing nursing care for elderly clients.
CO5	Demonstrate skill in giving nursing care to clients with Neurological disorders and describe the nursing management of clients with Neurological disorders, as well as the management of clients with connective tissue and collagen disorders.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Explain the history of modern Medicine and Surgery	Brief history of evolution of modern medicine and surgery b) Theories of illness and its caution – Illness as human experience c) Review of Nursing process and Nursing care plan Learning Objective: Demonstrate skill in conducting health assessment and physical examination Content: Nursing Assessment a) Health assessment - Health history - Physical examination - Nutritional assessment - General clinical investigations. Describe the pathophysiological mechanism of diseases Content: Pathophysiological mechanism of diseases a) Stress adaptation stressors, management, Nursing interventions b) Inflammation c) Defense against injury d) Nutritional consideration Learning Objective: Demonstrate skill in providing nursing care to patients with altered immune response Content: Altered Immune Response a) Overview of normal immune system b) Altered immune response, hypersensitivity and allergy c) Assessment of immune system d) Diagnostic evaluation e) Allergy disorders: - Anaphylaxis - Allergic rhinitis - Contact dermatitis - Atopic dermatitis - Drug reactions - Food allergy - Serum sickness - Latex allergy f) Approaches to treat allergic diseases g) Nursing management client with altered immune response a) Water contents of body, electrolyte and acid - Base balance b) Homeostasis c) Review mechanism of regulating fluid and electrolyte movement d) Fluid and electrolyte Acid-Base imbalance and its management Describe physical set up of OT and its equipments. Demonstrate skill in theatre techniques Content: Operation theatre techniques a) Physical Environment - Operation theater room – cleaning of tables, trolleys, lights and other equipments - Pre-operative holding areas b) Theatre Technique - Scrubbing	26	CO1

		– hand washing - Gowning - Gloving - Positioning of patient for various surgical procedures - Draping of patient		
2	Demonstrate skill in preparing the client for surgery Recognize and perform the role of nurse during surgery	Pre operative preparation and care - Physical - Psychological - Pre-medications - Legal and ethical b) Intra operative management - Surgical Team - Nursing activities and responsibilities - Anesthetic agent - Role of nurse in anesthesia c) Post operative management - Immediate care - Transferring patient from operation theatre - Patient in recovery room - Recovery from Anesthesia - Post operative observation and nursing management - Carry out the post operative orders - Post operative complication observation, prevention & management. Demonstrate skill in nursing management of client with impaired respiratory function and gaseous exchange Content: Nursing management of patient with impaired respiratory function and gaseous exchange a) Assessment of respiratory function - History - Physical examination - Diagnostic evaluation b) Care of patient in respiratory intensive care and ventilator care and respiratory function c) Management of patient with disorders of upper respiratory airway - Obstruction of upper airway - Epistaxis - Sinusitis - Pharyngitis - Tonsillitis - Laryngitis - Deviated nasal septum d) Management of patient with disorders of the chest and lower respiratory tract	23	CO2
3	Describe the various gastro intestinal disorders Demonstrate skill in providing care for clients with gastro intestinal disorders	Assessment of gastro intestinal function - History - Physical examination - Diagnostic evaluation b) 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 - Gastritis and duodenal ulcers - Gastric cancer - Gastroenteritis - Esophageal fistula - Peritonitis c) Care of patient with gastro intestinal intubation and special nutritional management d) 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 - Hemorrhoid e) Alternate therapies f) Drugs used in treatment of GI disorders	18	CO3
4	Describe the management of patients with metabolic and endocrinal disorders. Demonstrate skills in caring for the clients with metabolic and endocrinal disorders	Assessment of Hepatic and biliary functions - History - Physical examination - Diagnostic measures b) Management of patients with hepatic disorders - Jaundice - Hepatic cirrhosis - Portal hypertension - Ascites - Hepatic Encephalopathy and coma - Viral hepatitis - Tumors and cyst of liver - Liver abscess c) Management of patients with biliary disorders - Cholecystitis - Cholelithiasis - Choledocolithiasis - Acute and chronic pancreatitis - Cancer of pancreas d) Assessment of Endocrinal function - History - Physical examination - Diagnostic evaluation e) Management of endocrinal disorders - Pituitary disorders - Thyroid disorders • Hyperthyroidism • Hypothyroidism • Thyroid tumors • Goiter - Parathyroid disorders - Pancreas disorders • Diabetes mellitus - Adrenal disorders • Pheochromocytoma • Addison's disease • Cushing's syndrome - Tumors of the endocrine glands f) a) Assessment of renal and urinary functions - History - Physical examination - Diagnostic evaluation b) Management of patients with renal and urinary disorders - Urinary retention and incontinence - Urinary tract infection - Acute and chronic glomerulonephritis - Pyelonephritis - Urolithiasis - Renal calculi - Trauma of kidney, bladder, urethra, ureters - Urinary strictures TB of urinary tract - Neurogenic bladder dysfunction - Renal cyst and renal abscess - Nephrotic syndrome - Acute and chronic renal failure - Uremia - Acute and chronic nephrosis - Tumor – benign and malignant - Care of patient on hemodialysis and peritoneal dialysis - Care of patient with renal transplant c) Assessment of male Genitourinary function - History - Physical examination - Diagnostic evaluation	29	CO4
5	Describe the nursing	Assessment Neurological functions - History - Physical examination - Diagnostic evaluation b) Management of patients with neurologic dysfunctions - Altered level of consciousness - Increased intracranial	34	CO5

<p>management of clients with Neurological disorders Demonstrate skills in giving nursing care to clients with Neurological disorders</p>	<p>pressure - Intracranial surgery c) Management of patients with neurological disorders - Headache - Migraine - Seizures - Epilepsy - Status Epileptics - 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 d) Alternate therapies e) Drugs used in treatment of neurological disorders Learning Objective: Describe the management of clients with connective tissue and collagen disorders Demonstrate skills in providing nursing care to clients with connective tissue and collagen disorders Content: Nursing management of patients with Connective Tissue and Collagen Disorders a) Assessment - History - Physical examination - Diagnostic measures b) Management of patients with disorders of connective tissue and collagen disorders - Rheumatoid - Systemic Lupus Erythematosus (SLE) - Scleroderma - Polymyositis - Osteoarthritis - Ankylosing Spondylitis - Gout - Fibromyalgia c) Alternate therapies d) Drugs used in treatment of connective tissue and collagen disorders Describe the nurse’s role in promoting wellness for elderly Demonstrate skills in providing nursing care for elderly clients Content: Nursing management of the elderly a) Assessment of the elderly - Ageing process - Helping and care of elderly in promoting wellness and self care</p>
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Reference Books:

1. Phipp`s Medical Surgical Nursing Health & Illness Perspectives by Monahan Frances Donovan
2. Medical Surgical Nursing by Joyce M.Black,
3. Brunner & Suddarth`s Textbook of Medical Surgical Nursing by Suzanne C. Smeltzer,
4. Lewis`s Medical Surgical Nursing, Assessment & Management by Chintamani

e-Learning Source:

<http://library.iul.ac.in/ELibrary.aspx>

<https://india.oup.com/>

<https://www.doabooks.org/>

Course Articulation Matrix: (Mapping of COs with POs and PSOs)

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
CO1	3	3	1	2	2	2	2	3	3	2
CO2	2	3	-	2	2	2	2	3	3	2
CO3	2	3	3	1	1	3	2	3	3	3
CO4	1	2	1	3	3	3	3	2	2	3
CO5	1	2	-	1	3	3	2	3	3	3

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Attributes & SDGs

Course Code	Course Title	Attributes							SDGs No.
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
NRV201	Medical Surgical Nursing-I	√	√	√	√	√	√	√	3,4,5,8,12,16

<p>Name & Sign of Program Coordinator</p>	<p>Sign & Seal of HoD</p>
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Integral University, Lucknow

Effective from Session: 2023-2024							
Course Code	NRV 202	Title of the Course	Medical Surgical Nursing-II	L	T	P	C
Year	Second	Semester	Non Semester	4	1	0	4
Pre-Requisite	None	Co-requisite	None				
Course Objectives	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 specialty disorders and disease. They shall be able to give comprehensive nursing care to patient with these diseases.						

Course Outcomes	
CO1	Describe the management of patients with oncology, including the disorders of breast and breast cancer, and demonstrate skill in giving nursing care to patients with breast disorders, as well as describe the various diseases and disorders of the integumentary system and their management, and demonstrate skill in providing care to clients with disorders of the integumentary system.
CO2	Describe the disorder and diseases of eye Demonstrate skill in giving care for patients with various eye diseases and disorders. Describe disorders and diseases of ear, nose and throat. Demonstrate skills in Providing nursing care for patients with various ENT problems.
CO3	Describe cardiovascular circulatory and Hematological disorders and diseases. Demonstrates skill in carrying nursing interventions for clients with circulatory and hematological disorders and diseases
CO4	Describe the nursing management of patients with communicable diseases. Demonstrate skill in providing interventions for patients with communicable the nurse's role in various national control/ Eradication Programme of communicable diseases.
CO5	Describe the role of nurse in medical surgical emergencies Demonstrate skill in meeting medical surgical emergencies. Identify the role of nurses in emergency and disasters. Demonstrate beginning skill in managing the Emergencies and disasters.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Describe the management of patient with oncology	Nursing management of patients with oncological conditions ,Structure & characteristics of normal & cancer cells ,Nursing Assessment – History physical assessment ,Prevention, screening, early detection, warning signs of cancer,Epidemiology, Etiology, Classification, Pathophysiology, staging, clinical manifestations, diagnosis, treatment modalities and medical surgical nursing management of oncological conditions,Common malignancies of various body system: Oral, Larynx, Lung, Stomach and Colon, Liver, Leukemias and Lymphomas, Breast, Cervix, Ovary, Uterus, Sarcoma, Brain, Renal, Bladder and Prostate etc. ,Oncological emergencies ,Modalities of treatment Other form of treatment,Psychosocial aspects of cancer ,Rehabilitation,Palliative care: symptoms and pain management, nutritional support,Home care,Hospice care,Stomal therapy ,Special therapies,Psycho social aspects,Nursing procedures,Alternate therapies,Drugs used in treatment of oncological disorders. Nursing Management of patients with disorders of Breast a) Assessment of breast - History - Physical examination - Diagnostic tests - Breast self examination b) Disorders of breast - Mastitis - Breast abscess - Gynaecomastia - Tumors and Malignancy of breast c) Nursing management of a patient after mastectomy. Nursing Management of patient with diseases and disorders of integumentary system a) Nursing Assessment - History -	25	CO1

		<p>Physical assessment b) Etiology c) Pathophysiology d) Clinical manifestations e) 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 - Infestations - Bacterial infections - Pyoderma - Impetigo - Folliculitis - Furuncles - Carbuncles - Viral infections - Herpes zoster - Herpes simplex - Fungal infection - Athlete's foot (Tanta Pedi's) - Parasitic infestation - Pediculosis - Scabies - Pemphigus - Stevens - Johnson syndrome - Skin cancer - Special dermatological therapies f) Burn and its management - Burns Plastic Surgery - Incidence, causes of burns - Types & classification of burns - Pathophysiology - Calculation of the percentage - Local & systematic effects of burns - Immediate care - First aid care - Medical Management, barrier nursing care of the burns - Complications, Health education g) Plastic Surgery - Define plastic & reconstructive surgery - Types - Define skin graft flaps - Possible complication - Preparation of patient for constructive surgery - Post operative care - Health Education h) Alternate therapies i) Drugs used in treatment of integumentary disorders</p>		
2	<p>Describe the disorder and diseases of eye Demonstrate skill in giving care for patients with various eye diseases and disorders</p>	<p>Review of anatomy and physiology of eye ,Assessment of function of eyes:History ,Physical exam,Diagnostic test – tonometry, Snellen's chart ,Infections and inflammations conditions:Blepharitis ,Stye ,Chalazion ,Entropion ,Ectopion ,Dacrocystitis ,Conjunctivitis ,Trachoma ,Pterygium ,Keratitis ,Corneal ulcer ,Degenerative Conditions ,Cataract ,Retinopathy ,Retinal detachment ,Miscellaneous ,Strabismus ,Refractive errors ,Tumors ,Color blindness ,Nigh blindness ,Total blindness ,Preventive and Rehabilitative aspects ,National programme on blindness and trachoma ,Current trends in management of Ophthalmic conditions ,Hospital corneal retrieval ,Grief counseling ,Eye collection ,Counseling ,Obtaining consent for eye donation ,Eye banking in India ,Ocular emergencies ,Glaucoma ,Foreign body , - Acid / Alkali burns - Trauma to the eye k) Eye Immigration l) Instillation of eye drops and ointment m) Cold and hot compress n) Eye dressing and bandage o) Assisting for sac syringing p) Assisting for removal of foreign body q) Alternate therapies r) Drugs used in treatment of eye disorders. Ear a) Review of Anatomy and physiology of Ear b) Assessment of function of ear - History - Ear examination - Diagnostic tests c) Diseases and disorders of the ear External ear - Otitis - Foreign body - Impacted cerumen - Furunculosis Middle ear - Otitis media - Mastoiditis - Perforation of ear drum Internal ear - Presbycusis - Labrynthitis - Meniere's disease - Otosclerosis Deafness - Conductive deafness - Neural deafness Tumors of the ear and auditory nerve Insufflations of Eustachian tube Nose a) Review of Anatomy and physiology of nose b) Assessment of functions of nose - History - Examination of nose - Diagnostic tests c) Diseases and disorders of nose Infections - Rhinitis - Sinusitis - Obstruction - Polyps Foreign body Deviated nasal septum Trauma – fracture of nasal bone and epistaxis Throat a) Review of Anatomy and</p>	25	CO2

		physiology of Throat: b) Assessment of the function of throat - History - Examination of throat - Diagnostic tests c) Diseases and disorders of throat infections and inflammation - Tonsillitis - Pharyngitis - Adenoiditis - Laryngitis - Tumors - Injury and foreign body - Alternate therapies - Drugs used in treatment of ENT disorders		
3	Describe cardiovascular circulatory and hematological disorders and diseases	Review of anatomy and physiology of heart and circulatory system, Assessment of functions of heart and vascular system, History, Physical exam, Diagnostic tests, Diseases and disorders of cardiovascular system, Coronary Artery disease, Arrhythmia, Coronary Artery disease, Angina pectoris, Coronary Atherosclerosis, Myocardial infarction, Valvular heart disease, Mitral Stenosis, Aortic Stenosis, Incompetence, regurgitation, Tricuspid Stenosis, Pulmonary Stenosis, Inflammation and infections, Pericarditis, Myocarditis, Endocarditis, Cardiogenic shock, Pericardial effusion, cardiac tamponade, Cardiac emergencies, Cardiac arrest, Shock, Vascular disorders, Arterial disorders, Berger's disease (TAO), Arterial ulcers, Arteriosclerosis, Aneurysm, Thrombosis and emboli, Raynaud's disease, Hypertension, Venous disorder, Deep vein Thrombosis, Venous insufficiency, Venous ulcer, Varicose vein, Cellulitis, Lymphatic disorders, Lymphangitis & Lymphadenitis, Lymphedema & elephantiasis. Hematological disorders a) Review of function and structure of blood components - Assessment - History - Physical examination - Diagnostic tests b) Diseases and disorders of blood and its components - Anemia - Thalassemia - Polycythemia - Leukopenia and neutropenia - Leukocytosis & leukemia - Lymphomas Hodgkin & Non Hodgkin diseases, Multiple myeloma - Bleeding disorders - Thrombocytopenia, - Purpura, hemophilia - Acquired coagulation - Disorders - Liver disease, Vitamin K deficiency, DIC c) Alternate therapies d) Drugs used in treatment of cardiovascular circulatory and hematology disorders	28	CO3
4	Describe the nursing management of patients with communicable diseases	Measles, Chicken pox, Swine flu, Ebola, Dengue, Chicken guinea, Influenza, Mumps, Encephalitis, Infective hepatitis, Poliomyelitis, Rabies, AIDS, Caused by Bacteria; Diphtheria, Whooping cough, Tetanus, Typhoid, Dysentery, Gastroenteritis, Cholera, Meningococcal Meningitis, Tuberculosis, Plague, Leptospirosis, Vector borne diseases: Malaria, Filariasis, Yellow fever, Dengue, Any other prevailing diseases, Alternate therapies, Drugs used in treatment of communicable disorders. Nursing Management of Patients with Sexually Transmitted diseases a) Assessment - History - Physical examination - Diagnostic tests b) Sex health and hygiene c) Syndromic Management of sexually transmitted disease - Gonorrhea - Syphilis - Granuloma Venerium - Chancroid granuloma - AIDS - Genital herpes. Nursing Management of Patients with musculo skeletal disorders and diseases a) Review of Anatomy and Physiology of musculo skeletal system b) Assessment - History - Physical examination - Diagnostic tests c) Infections and inflammations - Septic arthritis - Gonococcal arthritis - Osteomyelitis - Tuberculosis of the spine and bones - Sprains - Dislocations - Fracture of spine and extremities d) Degenerative conditions of joints, spine e) Tumors, Amputation and prosthesis f) Deformities -	25	CO4

		Congenital and acquired g) Range of motion exercises h) Care of patient: - Skin and skeletal traction - Orthopedic splints i) POP application and removal j) Neurogenic bladder k) Preparation for bone surgery l) Use of orthopedic assist devices - Crutches - Canes - Walker m) Alternate therapies n) Drugs used in treatment of musculo-skeletal disorders disorders.		
5	Describe role of nurse in medical surgical emergencies	Hemorrhage ,Shock, Anaphylactic reaction, Allergies ,Trauma – intra abdominal, crush injuries, multiple injures fracture ,Poisoning,Ingested poisoning ,Inhaled poisoning ,Food poisoning,Injected poisons – stinging insects,Snake bites Chemical burns,Environmental emergencies ,Heat stroke ,Frost bite,Near drowning ,Hanging,Natural calamities,Food,Earthquake, Volcanic eruptions,Man – made disaster,Explosion,War,Fire,Accidents ,Emergency preparedness ,Community resources available to meet calamities,Nurses role in disaster management.	15	CO5

CO2Reference Books:

1. Phipp`s Medical Surgical Nursing Health & Illness Perspectives by Monahan Frances Donovan
2. Medical Surgical Nursing by Joyce M.Black,
3. Brunner & Suddarth`s Textbook of Medical Surgical Nursing by Suzanne C. Smeltzer,
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CO1	3	3	2	2	2	2	2	3	3	3
CO2	3	3	2	2	2	2	2	3	3	3
CO3	3	3	3	2	2	2	3	3	3	3
CO4	3	3	2	2	2	2	2	3	3	3
CO5	3	3	2	2	2	2	2	3	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Attributes & SDGs

Course Code	Course Title	Attributes							SDGs No.
NRY202	Medical Surgical Nursing-II	Employ-ability	Entrepreneurs hip	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	1,2,3,5,6,12,16
		√	√	√	√	√	√	√	

Name & Sign of Program Coordinator

Sign & Seal of HoD



Integral University, Lucknow

Effective from Session: 2023-2024							
Course Code	NRV 203	Title of the Course	Mental Health Nursing	L	T	P	C
Year	Second	Semester	Non Semester	2	1	0	3
Pre-Requisite	None	Co-requisite	None				
Course Objectives	This course is designed to help students develop the concept of mental health and mental illness, its causes, symptoms, prevention, treatment modalities and nursing management of mentally ill for individual, family and community.						

Course Outcomes	
CO1	Describe the concept of mental health and mental illness in relation to providing comprehensive care to the patients, narrate the historical development of psychiatry and psychiatric nursing, describe mental health assessment, describe therapeutic relationship, and demonstrate skills in process recording.
CO2	List various mental disorders and describe their mental and psychiatric and nursing management.
CO3	Describe the Bio – psychosocial therapies and explain the role of the nurse
CO4	Describe the concept of preventive community mental health services, enumerate the nurse’s role in National mental health programme, explain different psychiatric emergencies and their management, and demonstrate skills in crisis intervention.
CO5	Describe the legal aspects to be kept in mind in the care of mentally ill patients.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Introduction History of Psychiatry Mental Health Assessment Therapeutic nurse-patient relationship	Concept of mental health and mental illness, Misconceptions related to mental illness, Principles of mental health nursing, Definition of terms used in psychiatry, Review of defense mechanisms, Mental Health Team, History of psychiatric nursing – India and at international level, Trends in psychiatric nursing, National mental health programme, Psychiatry history taking, Mental status examination, Interview technique. Therapeutic nurse patient relationship : Definition, components and phases, importance, Communication skills definition elements, types, factors influencing communication, barriers (therapeutic impasse)	18	CO1
2	Mental Disorders and Nursing Interventions	Psycho- pathophysiology of human behavior, Etiological theories (genetics, biochemical, psychological etc.), Classification of mental disorders, Disorders of thought, motor activity, perception, mood, speech, memory, concentration and judgment, Prevalence, etiology, signs and symptoms, prognosis, medical and nursing management Personality & types of personality related to psychiatric disorders, Organic mental disorders: Delirium, Dementia, Psychotic disorders:, Schizophrenic disorders, Mood (affective) disorders: Mania depression, Bipolar affective disorders (BPAD), Neurotic disorders: Phobia, anxiety disorders, obsessive compulsive disorders, depressive neurosis, conversion disorders, dissociative reaction, psychosomatic disorders, post traumatic stress disorder, Substance use and de-addiction: alcohol, tobacco and other psychoactive, substance, Child and adolescent psychiatric disorders:, Sleep	25	CO2

		disorders, Eating disorders, Sexual disorders, Nursing management: Nursing process and process recording in caring for patients with various psychiatric disorders		
3	Bio – Psycho & Social Therapies	Psychopharmacology – Definition, classification of drugs antipsychotic, antidepressant, antimanic, antianxiety agents, anti parkinsons, Psychosocial therapies – individual therapies, group therapy, behavior therapy, occupational therapy, family therapy, melieu therapy, Role of nurse in these therapies, Somatic therapy – Electro Convulsive Therapy, insulin therapy, Role of nurse in these therapies	12	CO3
4	Community Mental Health. Psychiatric Emergencies and Crisis Intervention	Concept, importance and scope, Attitudes, stigma and discrimination related to the mentally ill, Prevention of mental illness (Preventive Psychiatric) during childhood, adolescent, adult hood and old age, Community Mental Health Services, Role of Nurse in National mental health programme and psychiatric care in community. Explain different psychiatric emergencies and their management. Demonstrate skills in crisis intervention. Psychiatric Emergencies and Crisis Intervention. Type of Psychiatric emergencies: Over Active, under active patient, Violent behavior, Suicide, adverse drug reactions, withdrawal symptoms, acute psychosis etc., Crisis and its intervention: AIDS, Adolescent.	10	CO4
5	Forensic Psychiatry / Legal Aspects	India Lunatic Act 1912, Narcotic Drugs and psychotropic Act 1965, 1985, Mental Health Act 1987, 2014, Admission and discharge procedures, Standards of psychiatric nursing practice, Rights of Mentally ill patients, Legal responsibilities in the care of mentally ill patients	5	CO5

Reference Books:

1. Textbook of Mental Health Nursing by Elakkuvana Bhaskara Raj D,
2. Mental health & Psychiatric Nursing, An Indian Perspective, by Dr. K. Lalitha,
3. Textbook of Psychiatric Nursing, by Dr. Bimla Kapoor,
4. Essentials of Mental Health & Psychiatric Nursing, by K P Neeraja,

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Course Articulation Matrix: (Mapping of COs with POs and PSOs)

PO-PSO	Course Articulation Matrix: (Mapping of COs with POs and PSOs)									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
CO										
CO1	3	2	1	2	2	3	1	3	2	2
CO2	2	3	1	2	2	2	1	3	3	2
CO3	2	3	3	1	2	2	1	3	2	3
CO4	2	2	1	3	3	2	1	3	2	2
CO5	2	1	1	2	2	3	2	1	1	2

**1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation
Attributes & SDGs**

Course Code	Course Title	Attributes							SDGs No.
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
NRY 203	Mental Health Nursing	√	√	√	√		√	√	3,4,5,8,10,16,17

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Integral University, Lucknow

Effective from Session:2023-24							
Course Code	NRV 204	Title of the Course	Child Health Nursing	L	T	P	C
Year	Second	Semester	Non Semester	2	1	0	2
Pre-Requisite	None	Co-requisite	None				
Course Objectives	This course is designed to help students develop and understanding of the concept of child health, the trends in child care and the health problems of children. This shall enable the students to meet the needs of the children, in health and sickness.						

Course Outcomes	
CO1	Understand the concept of the child health care, trends & emerging challenges for pediatric nurses Describe the role of pediatric nurses in clinics, hospitals and community
CO2	Describe the normal growth & development of children
CO3	The nurse's role in caring for a sick child involves developing skills in carrying out nursing interventions while caring for the pediatric age group, as well as demonstrating skills in the prevention and implementation of medical and nursing management of behavioral disorders and common health problems.
CO4	Demonstrate skills in providing comprehensive nursing care to the children having congenital defects/ malformation
CO5	Demonstrate skills in providing comprehensive nursing care to children with various disorders & diseases, describe the various child welfare services provided by Governmental & non-Governmental agencies, and explain the ethical & legal implications in pediatric nursing.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Understand the concept of the child health care, trends & emerging challenges for pediatric nurses Describe the role of pediatric nurses in clinic, hospitals and community	Introduction a) Modern concept in child health care, Trends in pediatric nursing, Role of pediatric nurses in child care, Emerging challenges, nursing process related to pediatric nursing, Concept of preventive pediatric, Vital statistics related to pediatrics as per the NRHS and GOL	5	CO1
2	Describe the normal growth & development of children	Growth & development: a) Definition, principles, factors affecting growth & development, techniques of assessment, plotting of growth chart b) Infant Growth & development, health promotion, breast feeding & weaning, immunization, infant and young child feeding c) Toddler Growth & development, nutrition counseling, toilet training, safety, prevention of accidents play d) Preschoolers Growth & development daycare centers. Role of parents in sex education e) School age Growth & development, rest, sleep, physical exercises & activity, dental health, sex education f) Adolescent - Growth & development, adaptation to puberty, menstrual hygiene, nutritional guidance, sex education - Role of parents in health promotion of adolescents - Control of iron deficiency anemia (WIFS guidelines)	15	CO2
3	Describe the role of nurse in caring for a sick child Develop skill in carrying out nursing intervention while caring for	The sick child: a) Child's reaction to hospital b) Effect of hospitalization on the family of the child c) Role of nurse in helping child & family in coping, with stress of hospitalization & illness Pediatric procedures a) Preparation of child for diagnostic tests, collection of specimens b) Calculation & administration of oral & parenteral medication c) Procedures related to feeding - Katori & Spoon - Ryle's tube & gastrostomy d) Procedures relating to elimination - Enema - Colostomy irrigation e) Administration & analysis of oxygen concentration, steam inhalation, nebulization f) Other	14	CO3

	pediatric age group	procedures - Pediatric resuscitation - Surgical dressing Learning Objective: Describe the management of behavioral disorders and common health problems of children Demonstrate skills in the prevention & implementation of medical & nursing management of behavioral disorders & common health problems Content: Disorders and health problems of a child: a) Infancy - Failure to thrive - Diarrhea b) Childhood - Communicable diseases - Tonsillitis - Otitis media - Child abuse - Breath holding spasms - Enuresis, nail biting, thumb sucking, somnambulism - Protein Energy Malnutrition - Helminthic infections - Bites and stings - Pica - Tics c) Adolescent - Precocious puberty - Gynecomastia - Accident, sport injuries - Obesity & anorexia nervosa - Juvenile delinquency		
4	Demonstrate skills in providing comprehensive nursing care to the children having congenital defects / malformation.	Child with congenital disorders Etiology, signs and symptoms, diagnosis, complications and medical, surgical & nursing management of children with - Malformation of CNS, cranial deformities, spina bifida, hydrocephalus, cerebral palsy, meningocoele - Skeletal defects, cleft lip & cleft palate - Gastro intestinal tract defects, fistula, anorectal malformations, hernia - Congenital hypertrophied pyloric stenosis - Defects of Genito-urinary tract hypospadias & epispadias, extrophy of bladder, phimosis & paraphimosis, cryptorchidism, polycystic kidney - Sexual abnormalities, ambiguous genitalia - Defects of cardio vascular system, cyanotic and acyanotic- TOF (Tetralogy of Fallouts), TGV (Transposition of great Vessels), TAPVC, ASD, VSD, Coactation of aorta, PDA - Orthopedic abnormalities congenital talipusequinovarus, congenital dislocation of hips - Chromosomal abnormalities - Down's syndrome, Turner's syndrome	15	CO4
5	Demonstrate skills in providing comprehensive nursing care to children with various disorders & diseases	Children with various disorders and diseases Etiology, signs and symptoms, complications, prevention, medical surgical & nursing management of a) Renal system - Nephrotic Syndrome - Acute Glomerulonephritis - ARF & CRF b) Resp. system - URI & LRI - Asthma, Pneumonia c) GI System - Intestinal obstruction (Mechanical) - Hirschsprung's disease - Malabsorption Syndrome - Inflammatory conditions appendicitis, Meckel's diverticulum, ulcerative colitis - Worm infestation d) CVS System - Rheumatic fever - CCF - Infective endocarditis e) Hematological System - Anemia - Leukemia - Thalassemia - Hemophilia - Sickle cell anemia - Thrombocytopenic purpura f) Neurological System - Meningitis - Encephalitis - Convulsive - Cranio-cerebral trauma g) Endocrine - Pituitary disorders - Hypo & Hyperthyroidism - Juvenile Diabetes - Adrenal disorders h) Development problem - Handicapped children - Mental Retardation - Dyslexia - Hearing & Vision impairment i) Others - Fluid and electrolyte imbalance - Burns j) Problems with locomotion - Poliomyelitis - Osteomyelitis - Kyphosis, lordosis, scoliosis - Fractures k) Pre and post operative care of children undergoing surgery Describe the various child welfare services provided by Governmental & non Governmental agencies. Explain the ethical & legal implication in pediatric nursing Content: Child welfare services a) Child welfare services and agencies - ICDS - Mid-day meal programme - Balwadi, Anganwadi - Day care centers - NPSP b) Law pertaining to pediatrics - National child labour policy - Child act - Juvenile justice act - Internationally accepted rights of the child - Rehabilitation of delinquent & destitute children - Adoption laws and services - Adolescent health programme menstrual hygiene, WIFS programme, adolescent safety programme	21	CO5

Reference Books:

1. Wong's Nursing Care of Infants & Children by Hockenberry
2. Ghai Essentials Pediatrics by OP Ghai
3. Textbook of Paediatric Nursing by Assuma Beevi. T.M,
4. Pediatric Nursing by Parul Dutta ,

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Course Articulation Matrix: (Mapping of COs with POs and PSOs)

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
CO										
CO1	2	2	1	1	1	2	1	2	2	2
CO2	3	3	0	1	1	3	2	3	3	3
CO3	3	3	2	2	2	3	2	3	3	3
CO4	2	2	1	3	3	2	2	3	3	3
CO5	2	2	1	2	3	2	2	3	3	3

**1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation
Attributes & SDGs**

Course Code	Course Title	Attributes							SD Gs No.
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
NRV 204	Child Health Nursing	√	√	√	√		√	√	3,4,5,8,12,16

Name & Sign of Program Coordinator	Sign & Seal of HoD
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Integral University, Lucknow

Effective from Session: 2023-2024							
Course Code	NRY 205	Title of the Course	Medical Surgical Nursing-Lab	L	T	P	C
Year	Second	Semester	Non Semester	0	0	2	0
Pre-Requisite	None	Co-requisite	None				
Course Objectives	<p>This course is designed to equip students with essential skills to provide nursing care to adult patients with medical and surgical disorders. Students will learn to counsel and educate patients and families, offer pre and post-operative care, and assist in surgical procedures. Additionally, students will gain proficiency in ICU nursing, including problem identification, accurate recording, and fostering positive relationships. They will also learn to address specific issues related to the elderly, assist with daily activities, and provide comprehensive care. Furthermore, students will be trained to care for patients with various conditions such as cancer, dermatology disorders, burns, and more, while also offering counseling and education. Finally, the course will prepare students to handle emergency and disaster situations, as well as provide support for grief and bereavement to patients and their families.</p>						

Course Outcomes	
CO1	Provide nursing care to adult patients with medical disorders, counsel and educate patients and families, provide pre and post-operative nursing care to adult patients with surgical disorders, identify instruments used in different operations, set up the table/trolleys for common operative procedures, assist in the operative procedures, and provide perioperative nursing care.
CO2	Gain proficiency in ICU nursing, identify potential problems, provide care accordingly, record findings and medications accurately, and develop good interpersonal relationships with patients and their families.
CO3	Identify specific problems related to the elderly, assist in the activities of daily living, and provide comprehensive nursing care.
CO4	Provide care for patients with cancer, dermatology disorders, burns, eye disorders, ENT disorders, cardiac and vascular disorders, musculoskeletal disorders, and communicable diseases; counsel and educate patients and families.
CO5	Provide care to patients in emergency and disaster situations, and counsel both patients and relatives for grief and bereavement.

Unit No.	Title of the Unit	Content of Unit	Conta ct Hrs.	Mapped CO
1	<p>General medical wards (resp.,GI, Endo., hemato, neuro, renal)</p> <p>General surgical wards (GI and Urinary)</p> <p>Operation theater</p>	<p>Intravenous. Intravenous therapy. IV cannulation. Maintenance & monitoring. Oxygen therapy-mask, prongs & tent. Nebulization. Chest physiotherapy. Naso-gastric feeding. Assist in common diagnostic procedures. Perform/assist in therapeutic procedures. Transfusion of Blood & its components. Throat suctioning. ET suctioning. Collect specimens for common investigations. Maintain elimination. Catheterization. Educate & counsel patient & family regarding specific disease conditions. Practice medical-surgical asepsis-standard safety. Pre-operative preparation of patient. Post-operative care. Receiving. Assessment. Monitoring. Care of wounds and drainage. Suture removal. Ambulation & exercises. Naso-gastric aspiration. Care of chest drainage. Ostomy care. Gastrostomy. Enterostomy. Colostomy. Transfusion of Blood & its components. Practice universal precautions. Perform scrubbing, gowning, gloving. Identify instruments, suturing materials for common operations.</p>	368	CO1

		Disinfection, carbolization, sterilization & fumigation. Prepare the OT table depending upon the operation. Positioning and monitoring of patient. Assisting with minor & major operations. Handling specimens. Segregation and disposal of biomedical waste as per guidelines.		
2	ICU	Connect and monitor ECG & pulse oxymetry. Assist in endo-tracheal intubation. Suctioning, provide care for a patient on ventilator. Handling emergency drug trolley / crash cart. Assisting in insertion of central line and monitoring Central venous pressure.	32	CO2
3	Geriatric nursing – medical / surgical / special ward	Assessment of the geriatric. Identify the health problems among the elderly (psychological, social, and spiritual needs of the elderly) and provide specific care. Health promotion of the elderly.	32	CO3
4	Oncology Unit Dermatology and burns Ophthalmology ENT Cardiology ward / ICCU / cardiothoracic and vascular unit Orthopedic ward Communicable diseases ward / isolation ward	<p>Screen for common cancers: Tumor Node Metastasis (TNM) classification. Assist with diagnostic procedures, including biopsies, Pap smear, and bone marrow aspiration. Assist with therapeutic procedures and observe various modalities of treatment such as chemotherapy, radiotherapy, pain management, stoma care, hormonal therapy, immunotherapy, gene therapy, and alternative therapy. Participate in palliative care and counsel patients and their families.</p> <p>Assessment of the burn patient involves determining the percentage and degree of burns, as well as dressing and fluid/electrolyte replacement therapy. Administer topical medications and medicated baths, perform active and passive exercises, and practice medical and surgical asepsis. Provide counseling and education to patients and families.</p> <p>Perform examination of the eye, assist with diagnostic and therapeutic procedures, irrigations, apply eye bandages and drops/ointments, and educate patients and families. Similarly, perform examination of the ear, nose, and throat, assist with therapeutic procedures, instillation of drops, irrigations, apply ear bandages, and provide tracheostomy care. Offer health education to patients and families.</p> <p>Perform cardiovascular assessment, record ECG and identify basic changes, monitor patients on cardiac monitors, prepare and assist with diagnostic and therapeutic procedures, administer cardiac drugs, and provide Advanced/Basic Cardiac Life Support (ACLS/BLS).</p> <p>Monitor and care for patients with chest drainage, assist in defibrillation, and monitor patients in the ICU. Maintain flow sheets, perform endotracheal suction, demonstrate use of ventilators and cardiac monitors, and collect specimens for ABG analysis. Assist with arterial puncture, maintain CVP line, utilize pulse oximetry, perform CPR (ALS), operate defibrillators, provide bag-mask ventilation, and manage emergency trays/trolleys (Crash Cart). Administer drugs through infusion pumps, epidural, intrathecal, and intracardiac routes. Implement total parenteral therapy, conduct chest physiotherapy, and perform active and passive exercises.</p> <p>Assess orthopedic patients, assist in applying and removing plaster casts, skin traction, bucks extension traction, and prostheses. Conduct physiotherapy sessions, educate patients on crutch maneuvering technique and ambulation.</p> <p>Assess patients with communicable diseases, use personal protective equipment (PPE) and practice barrier nursing. Offer health teaching for prevention of infectious diseases and provide counseling for HIV/AIDS patients and their family members.</p>	326	CO4
5	Emergency ward / casualty	Practice 'triage'. - Assist with assessment, examination, investigation, & their interpretation, in emergency and disaster situations. - Provide first aid. - ACLS / BLS. - Assist in legal	42	CO5

documentations and procedures in emergency unit. - Counsel patient and families grief and bereavement.

Reference Books:

1. Phipp`s Medical Surgical Nursing Health & Illness Perspectives by Monahan Frances Donovan
2. Medical Surgical Nursing by Joyce M.Black,
3. Brunner & Suddarth`s Textbook of Medical Surgical Nursing by Suzanne C. Smeltzer,
4. Lewis`s Medical Surgical Nursing, Assessment & Management by Chintamani

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Course Articulation Matrix: (Mapping of COs with POs and PSOs)

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
CO										
CO1	3	3	1	2	3	2	2	3	3	2
CO2	3	3	1	2	3	2	2	3	3	2
CO3	3	3	2	2	2	3	2	3	3	3
CO4	3	3	2	2	3	3	2	3	3	3
CO5	3	3	1	2	3	2	2	3	3	2

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Attributes & SDGs

Course Code	Course Title	Attributes							SD Gs No.
NRY205	Medical Surgical Nursing Lab	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	3,4,11,13
		√	√	√	√	√	√	√	

Name & Sign of Program Coordinator

Sign & Seal of HoD



Integral University, Lucknow

Effective from Session: 2023-2024							
Course Code	NRV 206	Title of the Course	Child Health Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	0	0	2	0
Pre-Requisite	None	Co-requisite	None				
Course Objectives	This course is designed to equip students to perform physical assessments and assist in diagnostic procedures, ensuring they can provide comprehensive pre and post-care. Additionally, students will learn drug administration, health education, and basic resuscitation techniques. Furthermore, the course focuses on recognizing pediatric surgical conditions, offering pre and postoperative care, and providing parental counseling and education.						

Course Outcomes	
CO1	Perform physical assessment, assist in diagnostic procedures, provide pre and post-care related to diagnostic procedures, administer drugs, provide health education, and perform basic resuscitation.
CO2	Recognize different pediatric surgical conditions, provide pre and postoperative care to children with common pediatric surgical conditions/malformation, and counsel and educate parents.
CO3	Perform assessment of children, health development, and anthropometric measurements, administer immunizations, and provide health and nutritional education.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Paediatric medicine ward	Taking pediatric history. Perform physical examination and assessment of children. Administration of oral, I/M, & I/V medicine/fluid. Calculation of fluid requirements. Prepare different strengths of I.V. fluids. Apply restraints. Administer O2 inhalation by different methods. Feed children by katori (bowl) and spoon, pallada etc. Collect specimens for common investigations. Assist with common diagnostic procedures. Teach mothers/parents on balanced diet for children of different age groups. Oral rehydration therapy. Feeding & weaning. Play therapy. Check vital signs. Give enema. Insert suppositories.	126	CO1
2	Paediatric surgery ward	Do bowel wash. Care for ostomies: • Colostomy irrigation, • Ureterostomy, • Gastrostomy, • Enterostomy. Urinary catheterization and drainage. Feeding: • Nasogastric, • Gastrostomy, • Jejunostomy. Care of surgical wound dressing. Suture removal.	126	CO2
3	Paediatric OPD/ Immunization room/ well baby clinic / adolescent clinic	Assessment of children. Health assessment. Developmental assessment. Anthropometric assessment. Immunization. Health, nutritional education.	168	CO3

Reference Books:

1. Wong`s Nursing Care of Infants & Children by Hockenberry
2. Ghai Essentials Pediatrics by OP Ghai
3. Textbook of Paediatric Nursing by Assuma Beevi. T.M,
4. Pediatric Nursing by Parul Dutta ,

e-Learning Source:<http://library.iul.ac.in/ELibrary.aspx><https://india.oup.com/><https://www.doabooks.org/>**Course Articulation Matrix: (Mapping of COs with POs and PSOs)**

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
CO										
CO1	3	3	-	2	3	2	2	3	3	2
CO2	3	3	-	2	3	2	2	3	3	2
CO3	2	3	3	2	1	2	3	2	3	3

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation**Attributes & SDGs**

Course Code	Course Title	Attributes							SD Gs No.
NRY206	Child Health Nursing Lab	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	3,4,5,8,10,16
		√	√	√	√	√	√	√	

Name & Sign of Program Coordinator**Sign & Seal of HoD**



Integral University, Lucknow

Effective from Session: 2023-2024							
Course Code	NRY 207	Title of the Course	Mental Health Nursing Lab	L	T	P	C
Year	Second	Semester	Non Semester	0	0	2	0
Pre-Requisite	None	Co-requisite	None				
Course Objectives	This course is designed to the students to assess patients with mental health concerns, observe therapy sessions, offer support, and educate both patients and families. And focus on assessing children's mental health, providing counseling, and educating them, along with their families and caregivers. Additionally, gain skills in evaluating and providing nursing care specifically tailored to individuals with mental health issues.						

Course Outcomes	
CO1	Assess patients with mental health problems, observe and assist in therapies, counsel and educate patients, and families.
CO2	Assess children with various mental health problems, counsel them, and provide health education to children, families, and significant others.
CO3	Assess patients with mental health problems and provide nursing care for patients with various mental health problems

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Psychiatric OPD	History taking. Perform mental status examination. Assist in psychometric assessment. Observe and assist in therapies. Teach patients and family members.	126	CO1
2	Child guidance clinic	History taking. Perform mental status examination. Observe and assist in therapies. Health education of family members and significant others. Counsel family members and significant others.	42	CO2
3	Inpatient ward	History taking. Perform mental status examination. Observe and assist in therapies. Provide nursing care to the mentally ill patient. Health educate family members and significant others.	252	CO3

Reference Books:

1. Textbook of Mental Health Nursing by Elakkuvana Bhaskara Raj D,
2. Mental health & Psychiatric Nursing, An Indian Perspective, by Dr. K. Lalitha,
3. Textbook of Psychiatric Nursing, by Dr. Bimla Kapoor,
4. Essentials of Mental Health & Psychiatric Nursing, by K P Neeraja ,

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Course Articulation Matrix: (Mapping of COs with POs and PSOs)

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
CO										
CO1	2	3	-	3	2	2	3	3	3	2
CO2	2	3	-	3	2	2	3	3	3	2
CO3	2	3	-	3	2	2	3	3	3	2

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation
Attributes & SDGs

Course Code	Course Title	Attributes							SD Gs No.	
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
NRY207	Mental Health Nursing Lab	√	√	√				√	√	3,4,5,8,16,17

Name & Sign of Program Coordinator	Sign & Seal of HoD
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