



**Integral University, Lucknow**

<b>Effective from Session:</b> 2022-2023							
<b>Course Code</b>	NR101	<b>Title of the Course</b>	Communicative English	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	1	<b>Semester</b>	1st	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>
<b>Pre-Requisite</b>		<b>Co-requisite</b>					
<b>Course Objectives</b>	The course is designed to enable students to enhance their ability to speak and write the language (and use English) required for effective communication in their professional work. Students will practice their skills in verbal and written English during clinical and classroom experience						

<b>Course Outcomes</b>	
<b>CO1</b>	Identify the significance of Communicative English for healthcare professionals.
<b>CO2</b>	Apply the concepts and principles of English Language use in professional development such as pronunciation, vocabulary, grammar, paraphrasing, voice modulation, spelling, pause and silence
<b>CO3</b>	Demonstrate attentive listening in different hypothetical situations.
<b>CO4</b>	Converse effectively, appropriately and timely within the given context as an individual or to the team they are communicating with either face to face or by other means.
<b>CO5</b>	Read, interpret and comprehend content in text, flow sheet, framework, figures, tables, reports, anecdotes etc

<b>Unit No.</b>	<b>Title of the Unit</b>	<b>Content of Unit</b>	<b>Contact Hrs.</b>	<b>Mapped CO</b>
1	Communication and Introduction to LSRGW:	What is communication, Define communication and the roles of listeners, speakers, readers and writers as healthcare professionals. The importance of L- Listening: Different types of listening, S- Speaking: Understanding consonants, Vowels, Word and Sentence stress, Intonation, R- Reading: Medical vocabulary, G- Grammar: Understanding tenses, linkers, W- Writing simple sentences and short paragraphs emphasis on correct grammar	8	CO1
2	Attentive Listening :	To Focus on listening in different situations- announcements, descriptions, narratives, instructions, discussions, demonstration, To Reproducing Verbatim, To Listening to academic talks/lecture, Listening to presentation.	5	CO2
3	Speaking Effective Conversation	To Converse in informal, formal and neutral situations. To study the factors influencing way of speaking setting , topic, social relationship, attitude and language, To understand Greetings, introductions, requesting, asking for and giving permission, speaking personally and casual conversation, To understand asking for information, giving instructions and directions, To understand agreeing and disagreeing, giving opinions, To Describe people, places, events and things, narrating, reporting & reaching conclusions, To Evaluate and compare, To understand complaints and suggestions, telephones conversations, delivering presentations	9	CO3
4	Reading:	To understand Reading strategies, reading notes and messages, Reading relevant articles and news items, Enhance Vocabulary for everyday activities, abbreviations and medical vocabulary, Understanding visuals, graphs, figures and notes on instructions, Reading reports and interpreting them, Using idioms and phrases, spotting errors, vocabulary for presentation, Remedial grammar	5	CO4
5	Writing Skills	Writing patient story: Note taking, Summarizing, Anecdotal records, Letter writing, Diary / Journal writing, Report writing, Paper writing skills, Abstract writing LSRW SKILLS: 1. Critical thinking strategies for listening and reading 2. Oral reports, presentations 3. Writing instructions, letters and reports 4. Error analysis regarding LSRW	13	CO5

**Reference Books:**

1. Professional Communication Skills by A.K Jain.
2. Professional Communication by Dr. S.K. Sing

**e-Learning Source:**

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

<https://india.oup.com>

<https://www.doabooks.org>

<b>Course Articulation Matrix: (Mapping of COs with POs and PSOs)</b>																		
<b>PO-PSO CO</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO4</b>	<b>PSO5</b>	<b>PSO6</b>	<b>PSO7</b>
<b>CO1</b>	2	1	2	2	2	2	2	2	2	2	2	2	2	1	1	2	2	3
<b>CO2</b>	1	2	2	3	1	1	2	2	2	2	2	2	3	2	1	2	2	2
<b>CO3</b>	1	2	2	2	2	1	2	1	2	2	1	3	2	1	3	2	1	2
<b>CO4</b>	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1	1	2	3
<b>CO5</b>	2	2	1	2	2	2	2	2	2	1	2	2	2	1	2	2	1	2

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

<b>Mrs. Sharish Fatima</b>  <b>Name &amp; Sign of Program Coordinator</b>	<b>Mr. Farzand Ali</b>  <b>Sign &amp; Seal of HoD</b>
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**Integral University, Lucknow**

<b>Effective from Session:</b> 2022-2023							
<b>Course Code</b>	NR102	<b>Title of the Course</b>	Applied Anatomy&Applied Physiology	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	1	<b>Semester</b>	1st	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>
<b>Pre-Requisite</b>		<b>Co-requisite</b>					
<b>Course Objectives</b>	The course is designed to assists students to acquire the knowledge of the normal structure of human body, identify alteration in anatomical structure and normal functions of the organ systems of the human body to facilitate understanding of physiological basis of health, identify alteration in functions and provide the student with the necessary physiological knowledge to practice nursing.						

<b>Course Outcomes</b>	
<b>CO1</b>	Explain the Introduction to anatomical terms and organization of the human body and musculoskeletal system.
<b>CO2</b>	Describe the Respiratory system, digestive system & circulatory & Lymphatic system, endocrine and renal system.
<b>CO3</b>	Describe the Renal system, the Reproductive system & Nervous system & General phy3siology basic concepts.
<b>CO4</b>	Describe the Respiratory System blood & the endocrine system & sensory organs & Reproductive system.
<b>CO5</b>	Describe the Musculo-skeletal system & digestive system & circulatory and lymphatic system.

<b>Unit No.</b>	<b>Title of the Unit</b>	<b>Content of Unit</b>	<b>Contact Hrs.</b>	<b>Mapped CO</b>
1	<b>: Introduction to anatomical terms and organization of the human body &amp; The Musculoskeletal system &amp; Sensory organ:</b>	To introduce the anatomical terms, cell structure, cell division, tissue definition, types, characteristics, classification, location, Membrane, gland classification and structure, identify major surface and bony landmarks in each body region, hyaline, fibro cartilage, elastic cartilage and features of skeletal, smooth and cardiac muscle. To Explain the anatomical positions, Bones – types, structure, growth and ossification, Axial and appendicular skeleton & Joints – classification, major joints and structure, To describes Types and structure of muscles, Muscles groups – muscles of the head, neck, thorax, abdomen, pelvis, upper limb and lower limbs, Principal muscles – deltoid, biceps, triceps, respiratory, abdominal, pelvic floor, pelvic floor muscles, gluteal muscles and vastus lateralis, Major muscles involved in nursing procedures. explain the structure of kidney, ureters, bladder, and urethra & describe the structure of skin, eye, ear, nose & tongue.	10	CO1
2	<b>: The Respiratory system, digestive system &amp; circulatory &amp; Lymphatic system &amp; The Endocrine system &amp; Renal system:</b>	To describe the structure of the organs of respiration, muscles of respiration and To describes the structure of alimentary canal and accessory organs of digestion ,To describe the structure of blood component, blood vessels Arterial and venous system, position of heart relative to the associated structures, chambers of heart, layers of heart, heart valves, coronary arteries, nerve and blood supply to heart, lymphatic tissue and vein used foe IV injections. To describes the structure of hypothalamus, pineal glands, pituitary gland, thyroid, parathyroid, thymus, pancreas and adrenal glands and To describe the Function of kidney in maintaining homeostasis, GFR, Function of ureters, bladder and urethra, Micturition, Regulation of renal function.	12	CO2.
3	<b>Title of the unit: The Renal system, The Reproductive system &amp; Nervous system &amp; General physiology – basic concepts:</b>	To describe the Structure of kidney, ureters, bladder, urethra, To explain the Structure of male reproductive organs, Structure of female reproductive organs, Structure of breast & To describe the Review structure of Neurons, CNS, ANS and PNS (Central, autonomic and peripheral), Structure of brain, spinal cord, cranial nerves, spinal nerves, peripheral nerves, functional areas of cerebral cortex & Ventricular system, formation, circulation and drainage. To describe the Cell physiology including transportation across cell membrane, Body fluid compartments, Distribution of total body fluid, intracellular and extracellular compartments, major electrolytes and maintenance of homeostasis, Cell cycle, Tissue – formation, repair, Membranes and glands functions	11	.CO3
4	<b>Respiratory System blood &amp; the endocrine system &amp; sensory organs &amp; Reproductive system:</b>	To describe the Functions of respiratory organs, Physiology of respiration, Regulation of respiration, Pulmonary circulation – functional features, Pulmonary ventilation, exchange of gases, Carriage of oxygen and carbon – dioxide, exchange of gases in tissue, Hypoxia, cyanosis, dyspnea, periodic breathing, PFT, Respiratory changes during exercise. To describe the Blood functions, physical characteristics, components, Formation of blood cells, Erythropoiesis, functions of RBC, RBC life cycle, WBC types, functions, Blood groups and types, Platelets – function and production of platelets, Clotting mechanism of blood, clotting time, bleeding time, PTT, Hemostasis – role of vasoconstriction, platelet plug formation in hemostasis, coagulation factors, intrinsic and extrinsic pathways of coagulation, Functions of reticulo-endothelial system, Immunity, To explain the Functions and hormones of Pineal Glands, Pituitary gland, Thyroid, Parathyroid, Thymus, Pancreas and Adrenal glands, Other hormones. To describe the Functions of skin, Vision, hearing, taste and smell, Errors of reflection, aging changes and To describe the Female reproductive system – Menstual cycle, function and hormones of ovary, oogenesis, fertilization, implantation, functions of breast, Male reproductive system – spermatogenesis, hormones and its functions, semen.	15	CO4
5	<b>: Musculo-skeletal system &amp; digestive system &amp; circulatory and lymphatic system :</b>	To describe the Bone – Functions, movements of bones of axial and appendicular skeleton, bone healing, Joints and joint movements, Alteration of joint disease, Properties and functions of skeletal muscles – mechanism of muscles contraction & Structure and properties of cardiac muscles and smooth muscles. To explain the functions of the organs of digestive tract, Saliva – composition, regulation of secretion and functions of saliva, Movements of alimentary tract, Composition and function of gastric juice, mechanism and regulation of gastric secretion, Composition of pancreatic juice, function, regulation of pancreatic secretion, Functions of liver, gall bladder and pancreas Composition of bile and function, Secretion and function of small and large intestine, Digestion in mouth, stomach, small intestine, large intestine, absorption of food, Metabolism of CHO, fat and protein & To describe the Functions of heart, conduction system, cardiac cycle, stroke volume and cardiac output, Blood pressure and pulse, Circulation – principles, factors influencing blood pressure, pulse, Coronary circulation, pulmonary and systemic circulation, Heart rate regulation of heart rate, normal value and variations, Cardiovascular homeostasis in exercise and posture & Aging change.	12	CO5

**CO2 Reference Books:**

1. Ross & Wilson Anatomy and physiology in health and illness 13th edition
2. Atlas of human Anatomy, professional edition 7th edition
3. Gray's Anatomy for students, 14 <sup>th</sup> edition
4. BD Chaurasias handbook of General Anatomy 6 edition

<b>e-Learning Source:</b>
<a href="http://library.iul.ac.in/ELibrary.aspx">http://library.iul.ac.in/ELibrary.aspx</a>
<a href="https://india.oup.com/">https://india.oup.com/</a>
<a href="https://www.doabooks.org/">https://www.doabooks.org/</a>
<a href="http://library.iul.ac.in/ELibrary.aspx">http://library.iul.ac.in/ELibrary.aspx</a>

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)																	
PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO4	PSO5	PSO6	PSO7
CO1	2	2	2	1	2	2	1	1	1	2	2	2	2	2	1	3	2	2
CO2	2	2	1	1	1	1	2	2	2	2	2	2	1	2	2	3	2	2
CO3	1	2	2	2	2	1	2	2	2	1	1	3	2	1	3	2	1	2
CO4	2	2	2	2	2	2	2	2	2	3	2	2	1	2	1	1	2	3
CO5	1	2	1	2	2	2	2	2	2	1	2	2	2	1	2	2	1	2

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

<p>Ms. Shahnaj Qumer</p> <p>Name &amp; Sign of Program Coordinator</p>	<p>Mr. Farzand Ali</p> <p>Sign &amp; Seal of HoD</p>
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**Integral University, Lucknow**

**Effective from Session:** 2022-2023

<b>Course Code</b>	NR103	<b>Title of the Course</b>	Applied Sociology and Applied Psychology	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	1	<b>Semester</b>	1st	<b>4</b>	<b>1</b>	<b>0</b>	<b>5</b>
<b>Pre-Requisite</b>		<b>Co-requisite</b>					
<b>Course Objectives</b>	The course is designed to assist students to acquire the knowledge about the course is designed to enable the students to develop understanding about basic concepts of sociology and psychology and its application in personal and community life, health, illness and nursing.						

**Course Outcomes**

<b>CO1</b>	Describe INTRODUCTION, SOCIAL STRUCTURE & CULTURE.
<b>CO2</b>	Describe FAMILY AND MARRIAGE, SOCIAL STRATIFICATION, SOCIAL ORGANIZATION AND DISORGANIZATION & CLINICAL SOCIOLOGY.
<b>CO3</b>	Describe the INTRODUCTION, BIOLOGICAL BASIS OF BEHAVIOUR, MENTAL HEALTH AND MENTAL HYGIENE, DEVELOPMENT OF PSYCHOLOGY, PERSONALITY & COGNITIVE PROCESS.
<b>CO4</b>	Describe the DEVELOPMENT OF PSYCHOLOGY, PERSONALITY & COGNITIVE PROCESS.
<b>CO5</b>	Describe the MOTIVATION AND EMOTIONAL PROCESSES PSYCHOLOGICAL ASSESSMENT AND TESTS-INTRODUCTION, APPLICATION OF SOFT SKILL & SELF – EMPOWERMENT.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Introduction, social structure & culture:	To introduce the Definition, nature and scope of sociology, Significance of sociology in nursing Basic concept of society, community, association and institution, Individual society, Personal disorganization, Social group meaning, characteristics and classification Social processes – definition and forms, Co-operation, competition, conflict, accommodation, assimilation, isolation, Socialization – characteristics, process, agencies of socialization, Social change – nature, process and role of nurse. Structure and characteristics of urban, rural and tribal community, Major health problems in urban, rural and tribal communities, Importance of social structure in nursing profession, <b>CULTURE:</b> Nature, characteristics and evolution of culture, Diversity and uniformity of culture, Difference between culture and civilization, Culture and socialization, Trans-cultural society. Culture, modernization and its impact on health and disease.	60	CO1
2	the describe family and marriage, social stratification, social organization and disorganization & clinical sociology.	To describe the Family – characteristics, basic needs, types and functions of family. Marriage – forms of marriage, social custom relating to marriage and importance of marriage. Legislation on Indian Marriage and family. Influence of marriage and family on health and health practices. Introduction – characteristics & forms of stratification, Function of stratification, Indian caste system – origin and characteristics, Positive and negative impact of caste in society, Class system and status, Social mobility – meaning and types Race – concept, criteria of racial classification Influence of class, caste and race system on health, Social organization – meaning, elements and types, Voluntary associations Social system – definition, types, role and status as structural element of social system, Interrelationship of institutions, Social control – meaning, aims and process of social control, Social norms, moral and values, Social disorganization – definition, causes, control and planning Major social problems – poverty, housing, food supplies, illiteracy, prostitution, dowry, child labour, child abuse, delinquency, crime, substance abuse, HIV/Vulnerable group – elderly, handicapped, minority and other marginal group Fundamental rights of individual, women and children, Role of nurse in reducing social problem and enhance coping, Social welfare programmes in India.	12	.CO2
3	Describe the introduction, biological basis of behaviour, mental health and mental hygiene, development of psychology, personality & cognitive process.	To describe the Meaning of psychology. Development of psychology – scope, branches and methods of psychology Relationship with other subjects Significance of psychology in nursing, Applies psychology to solve everyday issues. Body mind relationship Genetics and behavior, Inheritance of behavior Brain and behavior Psychology and sensation – sensory process – normal and abnormal Concept of mental health and mental hygiene, Characteristics of mentally healthy person, Warning signs of poor mental health. Promotive and preventive mental health strategies and services Defense mechanism and its implication. Frustration and conflict – types of conflicts and measurement to overcome Role of nurse in reducing frustration and conflict and enhancing coping	11	CO3
4	Development of psychology, personality & cognitive process	To describe the Psychological needs of various groups in health and sickness – infancy, childhood, adolescence, adulthood and old age Introduction to child psychology and role of nurse in meeting the psychological needs of children. Psychology of vulnerable individuals – challenged, women, sick etc. Role of nurse with vulnerable group, Meaning, definition of personality. Classification of personality Measurement and evaluation of personality – Introduction Alteration in personality Role of nurse in identification of individual personality and improvement in altered personality. <b>Attention</b> – definition, types, determinants, duration, degree and alteration in attention <b>Perception</b> – meaning of perception, principles, factor affecting perception. <b>Intelligence</b> – meaning of intelligence – Effect of heredity and environment in intelligence, classification, introduction to measurement of intelligence tests – Mental deficiencies <b>Learning</b> – Definition of learning, types of learning, factors influencing learning – learning process, habit formation <b>Memory</b> – meaning and nature of memory, factors influencing memory, method to improve memory, forgetting <b>Thinking</b> – types, level, reasoning and problem solving <b>Aptitude</b> – concept, types, individual differences and variability Psychometric assessment of cognitive processes – Introduction Alteration in cognitive processes.	12	CO4.
5	Motivation and emotional processes psychological assessment and tests-introduction, application of soft skill & self – empowerment	To describe the Bone – Functions, movements of bones of axial and appendicular skeleton, bone healing, Joints and joint movements, Alteration of joint disease, Properties and functions of skeletal muscles – mechanism of muscles contraction & Structure and properties of cardiac muscles and smooth muscles. To explain the functions of the organs of digestive tract, Saliva – composition, regulation of secretion and functions of saliva, Movements of alimentary tract, Composition and function of gastric juice, mechanism and regulation of gastric secretion, Composition of pancreatic juice, function, regulation of pancreatic secretion, Functions of liver, gall bladder and pancreas Composition of bile and function, Secretion and function of small and large intestine, Digestion in mouth, stomach, small intestine, large intestine, absorption of food, Metabolism of CHO, fat and protein & To describe the Functions of heart, conduction system, cardiac cycle, stroke volume and cardiac output, Blood pressure and pulse, Circulation – principles, factors influencing blood pressure, pulse, Coronary circulation, pulmonary and systemic circulation, Heart rate regulation of heart rate, normal value and variations,	15	CO5.

		Cardiovascular homeostasis in exercise and posture & Aging change.		
<b>Reference Books:</b>				
1. Sociology in nursing kp neerja japee publication				
2. Sociology in nursing jyoti srivastava, srnancy psychology in nursing				
<b>e-Learning Source:</b>				
<a href="http://library.iul.ac.in/ELibrary.aspx">http://library.iul.ac.in/ELibrary.aspx</a>				
<a href="https://india.oup.com/">https://india.oup.com/</a>				
<a href="https://www.doabooks.org/">https://www.doabooks.org/</a>				
<a href="http://library.iul.ac.in/ELibrary.aspx">http://library.iul.ac.in/ELibrary.aspx</a>				

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)																	
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO4	PSO5	PSO6	PSO7
CO1	2	2	2	3	2	2	3	3	3	2	2	2	1	1	1	3	2	2
CO2	2	2	3	3	1	1	2	2	3	2	2	2	1	2	1	2	2	2
CO3	1	2	2	2	2	1	2	2	2	3	1	3	2	1	3	2	1	2
CO4	2	2	2	2	2	2	2	2	2	3	2	2	1	2	1	1	2	3
CO5	3	2	1	2	2	2	2	2	2	1	2	2	2	1	2	2	1	2

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

<p><b>Mrs. Pragya Awasthi</b>  <b>Name &amp; Sign of Program Coordinator</b></p>	<p><b>Mr. Farzand Ali</b>  <b>Sign &amp; Seal of HoD</b></p>
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**Integral University, Lucknow**

<b>Effective from Session:</b> 2022-2023							
<b>Course Code</b>	NR104	<b>Title of the Course</b>	Nursing foundation – I	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	1	<b>Semester</b>	1st	<b>5</b>	<b>1</b>	<b>0</b>	<b>6</b>
<b>Pre-Requisite</b>		<b>Co-requisite</b>					
<b>Course Objectives</b>	This course is designed to help novice nursing students develop knowledge and competencies required to provide evidence-based, comprehensive basic nursing care for adult patients, using nursing process approach						

<b>Course Outcomes</b>	
<b>CO1</b>	Develop understanding about the concept of health, illness and scope of nursing within health care services
<b>CO2</b>	Communication and nurse patient relationship, documentation and reporting & vital signs:
<b>CO3</b>	Health assessment, equipment and linen & introduction to infection control in clinical setting infection health assessment
<b>CO4</b>	Comfort, rest & sleep and pain, promoting safety in health care environment & hospital admission and discharge
<b>CO5</b>	Mobility and immobility Elements of dormant movement, alignment & posture, joint mobility, balance, coordinated movement Principles of body mechanics, Factors affecting body alignment and activity, Maintenance of normal body alignment and activity

<b>Unit No.</b>	<b>Title of the Unit</b>	<b>Content of Unit</b>	<b>Contact Hrs.</b>	<b>Mapped CO</b>
1	Introduction to health and illness	Concept of health: Definitions (WHO), Dimensions Maslow's hierarchy of needs Health – Illness continuum, Factors influencing health Causes and risk factors for developing illnesses Illness Types, Illness behavior, health care delivery systems: introduction of basic concepts and meaning history of nursing and nursing as a profession	22	CO1
2	Communication and nurse patient relationship, documentation and reporting & vital signs	Communication and nurse patient relationship communication: levels, elements and process, types, modes, factors influencing communication, methods of effective communication / therapeutic communication techniques. documentation and reporting vital sign guidelines for taking vital signs, body temperature: definition, physiology, regulation, factors affecting body temperature, assessment of body temperature: sites, equipment and technique, temperature alterations: hyperthermia, heat cramps, heat exhaustion, heatstroke, hypothermia, fever/pyrexia -definition, causes, stages, types, nursing management: hot and cold applications	27	CO2
3	Health assessment, equipment and linen & introduction to infection control in clinical setting infection	Introduction to infection control in clinical setting infection: health assessment interview techniques, observation techniques, purposes of health assessment, process of health assessment ,health history, physical examination: ,methods – inspection, palpation, percussion, auscultation, olfaction ,preparation for examination: patient and unit ,general assessment ,assessment of each body system ,documenting health assessment findings equipment and linen, types: disposables and reusable, linen, rubber goods, glassware, metal, plastics, furniture, introduction: indent, maintenance, inventory introduction to infection control in clinical setting infection biomedical waste management	38	CO3
4	Comfort, rest & sleep and pain, promoting safety in health care environment & hospital admission and discharge	Comfort – factors influencing comfort, types of beds & bed making, therapeutic positions, comfort devices, sleep and rest – physiology of sleep, factors affecting sleep, promoting rest and sleep, sleep disorders, pain (discomfort) – physiology, common cause of pain, types, assessment, pharmacological and non-pharmacological pain relieving measures, invasive techniques of pain management, cam (complementary & alternative healing modalities), promoting safety in health care environment ,hospital admission and discharge.	21	CO4
5	Mobility and immobility	Mobility and immobility elements of normal movement, alignment & posture, joint mobility, balance, coordinated movement principles of body mechanics, factors affecting body alignment and activity, maintenance of normal body alignment and activity, alteration in body alignment and mobility, exercise – types and benefits, effects of immobility ,nursing interventions for impaired body alignment and mobility: assessment, types, devices used, method, moving, lifting, transferring, walking, assisting clients with ambulation, care of patients with immobility using nursing process approach, care of patients with casts and splints	12	CO5

**Reference Books:**

Potter & Perry 4th edition

Sister Nancy

BT Basavanthappa 2nd edition

Clinical nursing procedure book 2nd edition

**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)**

<b>PO-PSO</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO4</b>	<b>PSO5</b>	<b>PSO6</b>	<b>PSO7</b>
<b>CO1</b>	2	2	2	3	2	2	3	3	3	2	2	2	2	2	1	3	2	2
<b>CO2</b>	2	2	3	3	1	1	2	2	3	2	2	2	1	2	2	3	2	2

CO3	1	2	2	2	2	1	2	2	2	3	1	3	2	1	3	2	1	2
CO4	2	2	2	2	2	2	2	2	2	3	2	2	1	2	1	1	2	3
CO5	3	2	1	2	2	2	2	2	2	1	2	2	2	1	2	2	1	2

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

<div>Mrs. Anjali Shukla</div> <div>Name &amp; Sign of Program Coordinator</div>	<div>Mr. Farzand Ali</div> <div>Sign &amp; Seal of HoD</div>
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**Integral University, Lucknow**

Effective from Session: 2022-23							
Course Code	NR105	Title of the Course	Nursing foundation – I Lab	L	T	P	C
Year	2022	Semester	I	0	0	2	1
Pre-Requisite		Co-requisite					
Course Objectives	On completing of the course, the students will be able to, Demonstrate skills in caring for patients with restricted mobility, Plan and provide appropriate health teaching following the principles.						

Course Outcomes	
CO1	Maintain effective human relations (projecting professional image)
CO2	Communicate effectively with patient, families and team members
CO3	Demonstrate skills in techniques of recording and reporting
CO4	Demonstrate skills in monitoring vital sign

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
1.	Therapeutic communication	Therapeutic communication and documentation	2	1
2.	Vital signs	Vital signs- Temperature , pulse, blood pressure , respiration	2	1
3.	Physical Examination	Physical Examination	2	1
4.	Medical and Surgical Asepsis	Medical and Surgical Asepsis – hand washing	2	2
5.	Pain Assessment	Pain Assessment	2	2
6.	Comfort Devices	Comfort Devices	2	2
7.	Therapeutic Position	Therapeutic Position	2	3
8.	Physical Restraint	Physical Restraint and Side Rails	2	3
9.	ROM Exercises	ROM Exercises	2	4
10.	Ambulation	Ambulation	2	4
11.	Moving patients in bed	Moving and turning patients in bed	2	2

**Reference Books:**

Lippincott Manual Of Nursing Practice , 10<sup>th</sup> Edition, Wolters Kluwer, Lippincott Williams & Wikins

Principles & Practice, Sr Nancy, Volume 1 & 6<sup>th</sup> Edition

Stephanie's Principles & Practice Of Nursing , Volume 2<sup>nd</sup> , Sr Nancy

Fundamental Of Nursing , 7<sup>th</sup> Edition , Potter Perry

**e-Learning Source:**

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

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

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

PO- PSO CO	Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO1	1	1	2	3	3	2	3	2	2	3	2	2	2	3	3	2
CO2	2	3	2	3	3	2	2	2	3	3	2	2	3	2	3	2
CO3	3	3	2	3	3	3	3	2	3	3	3	2	2	2	3	2
CO4	2	2	3	2	2	3	2	2	2	2	2	1	3	3	2	2

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

<b>Ms. Supriya</b> Name & Sign of Program Coordinator	<b>Mr. Farzand Ali</b> Sign & Seal of HoD
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**Integral University, Lucknow**

Effective from Session: 2022-23							
Course Code	NR106	Title of the Course	Clinical Posting	L	T	P	C
Year	1st	Semester	I	0	0	0	0
Pre-Requisite		Co-requisite					
Course Objectives	On completing of the course, the students will be able to, Demonstrate skills in caring for patients with restricted mobility, Plan and provide appropriate health teaching following the principles.						

Course Outcomes	
CO1	Maintaining communication with patient and family and interpersonal relationship
CO2	Vital Signs
CO3	Comfort, Rest & Sleep, Pain And Promoting Safety In Health Care Environment
CO4	Hospital Admission And Discharge, Mobility And Immobility And Patient Education

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
12.	Communication And Nurse Patient Relationship	Maintaining communication with patient and family and interpersonal relationship, Documentation and reporting Documenting patient care and procedures , Verbal report, Written report	30	1
13.	Vital Signs	Monitor/ measure and document vital signs in a graphic sheet, Temperature (oral, tympanic, axillary), Pulse (apical and peripheral pulses), Respiration  Blood pressure , Pulse oximetry , Interpret and report alteration, Cold applications – cold compress, ice cap, tepid sponging , Care of equipment – thermometer, BP apparatus, stethoscope, pulse oximeter , Infection control Clinical settings , Hand Hygiene, Use of PPE	30	2
14.	Comfort, Rest & Sleep, Pain And Promoting Safety In Health Care Environment	<i>Comfort, Rest Sleep</i> , Bedmaking, Open, Closed, Occupied, Post-operative, Cardiac bed, Fracture bed  Comfort Devices Pillows, Over bed table/ cardiac table, Back rest , Bed cradle Therapeutic Positions Supine, Fowlers (low, semi, high), Lateral, Prone, Sims, Trendelenburg , Dorsal recumbent, Lithotomy, Knee chest Pain assessment and provision for comfort <i>Promoting Safety in Health Care Environment</i> Care of patient's unit, Use of safety devices: , Side Rails Restraints (physical), Fall risk assessment and post fall assessment	30	3
15.	Hospital Admission And Discharge, Mobility And Immobility And Patient Education	<i>Hospital Admission and discharge</i> Perform & Document: Admission, Transfer, Planned Discharge <i>Mobility and Immobility</i> Range of motion exercises , Assist patient in: Moving , Turning, Logrolling . Changing positions of helpless patient, Transferring (bed to and from chair/ wheelchair/ stretcher), Patient education First aid and Emergencies , Bandaging Techniques, Basic Bandages : Circular, Spiral, Reverse – Spiral, Recurrent, Figure of Eight, Special Bandages: , Special Bandages : Caplin, Eye / Ear Bandage, Jaw Bandage , Shoulder Spica Triangular Bandage / Sling, Head & limbs, Binders	30	4

Reference Books:	
Oster & Perry 4th edition	
Sister Nancy	
BT Basavanthappa 2 <sup>nd</sup> edition	
Clinical nursing procedure book 2 <sup>nd</sup> edition	
e-Learning Source:	
<a href="http://library.iul.ac.in/ELibrary.aspx">http://library.iul.ac.in/ELibrary.aspx</a>	
<a href="https://www.doabooks.org/">https://www.doabooks.org/</a>	

Course Articulation Matrix: (Mapping of COs with POs and PSOs)																
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO1	1	1	2	3	3	2	3	2	2	3	2	2	2	3	3	2
CO2	2	3	2	3	3	2	2	2	3	3	2	2	3	2	3	2
CO3	3	3	2	3	3	3	3	2	3	3	3	2	2	2	3	2
CO4	2	2	3	2	2	3	2	2	2	2	2	1	3	3	2	2

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

<div>Ms. Anjali Shukla</div> <div>Name &amp; Sign of Program Coordinator</div>	<div>Mr. Farzand Ali</div> <div>Sign &amp; Seal of HoD</div>
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## Integral University, Lucknow

<b>Effective from Session:</b> 2022-2023							
<b>Course Code</b>	NR107	<b>Title of the Course</b>	Applied biochemistry and applied nutrition & dietetics	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	1	<b>Semester</b>	II Sem	<b>4</b>	<b>1</b>	<b>0</b>	<b>5</b>
<b>Pre-Requisite</b>		<b>Co-requisite</b>					
<b>Course Objectives</b>	The course is designed to assist the students to acquire knowledge of the normal biochemical composition and functioning of human body, its alterations in disease conditions and acquire basic knowledge and understanding of the principles of Nutrition and Dietetics and apply this knowledge in the practice of nursing.						

Course Outcomes	
<b>CO1</b>	Describe the metabolism of carbohydrates and its alterations & the metabolism of lipids and its alterations& metabolism of proteins and amino acids and its alterations.
<b>CO2</b>	Explain clinical enzymology in various disease conditions & acid base balance, imbalance and its clinical significance & Describe the metabolism of hemoglobin and its clinical significance& different function tests and interpret the finding & Illustrate the immunochemistry.
<b>CO3</b>	Describes the importance of nutrition in health and wellness & Apply nutrient and dietary modifications in caring patients & Explain the principles and practices of Nutrition and Dietetics .
<b>CO4</b>	Identify nutritional needs of different age groups and plan a balanced diet for them & Identify the dietary principles for different diseases.
<b>CO5</b>	Describes the Plan of therapeutic diet for patients suffering from various disease conditions & Prepare meals using different methods and cookery rules.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Carbohydrates, Lipids & Proteins:	Digestion, absorption and metabolism of carbohydrates and related disorders, Regulation of blood glucose, Diabetes Mellitus – type 1 & type 2, symptoms, complications & management in brief: Investigations of diabetes mellitus, OGTT: indications, procedure, interpretation and types of GTT curve ,Mini GTT, extended GTT, GCT, IV GTT,HbA1c (only definition) & Hypoglycemia – definition & causes & Fatty acids: definition, classification, Definition & clinical significance of MUFA & PUFA, essential fatty acids, trans fatty acids, Digestion, absorption & metabolism of lipids & related disorders, Compounds formed from cholesterol, Ketone bodies (name, types & significance only),Lipoprotein – types & functions (metabolism not required), Lipid profile, Atherosclerosis (in brief) & Classification of amino acids based on nutrition, metabolic rate with examples: Digestion, absorption & metabolism of protein & related disorders, Biologically important compounds synthesized from various amino acids (only names), In born errors of amino acid metabolism – only aromatic amino acids (in brief),Plasma protein – types, function & normal values, Causes of proteinuria, hypoproteinemia, hyper-gamma globinemia & Principle of electrophoresis, normal & abnormal electrophoresis pattern (in brief).	25	CO1
2	Clinical Enzymology & Acid Base Maintenance, Heme,Catabolism, Organ Function Tests, Biochemical Parameters & Normal Values Only & Immunochemistry:	Isoenzymes – definition & properties, Enzymes of diagnostic importance in, Liver disease – ALT, AST, ALP, GGT,Myocardial infarction-CK, cardiac troponins, AST, LDH, Muscle diseases-CK, Aldolase,Bone diseases-ALP, Prostate cancer-PSA, ACP,pH – definition, normal value, Regulation of blood pH – blood buffer, respiratory & renal,ABG – normal values, Acid base disorders – types, definition & causes,Heme degradation pathway, Jaundice – type, causes, urine & blood investigations (van den berg test),Renal Liver, Thyroid &Structure & function of immunoglobulin & Investigations & interpretation-ELISA.	15	CO2
3	Introduction To Nutrition, Carbohydrates & Proteins, Fats & Vitamins:	Concepts: Definition of Nutrition & Health, Malnutrition – under nutrition & over nutrition, Role of nutrition in maintaining health, Factors affecting food and nutrition, Nutrients Classification, Macro and micronutrients, Organic & inorganic,Energy yielding & non-energy yielding Food, Classification – food groups, Origin, Composition – starches, sugar and cellulose, Recommended Daily Allowance (RDA),Dietary sources & Functions, Unit of energy-Kcal, Basal Metabolic Rate (BMR),Factors affecting BMR, Composition, Eight essential amino acids,Functions,Dietary sources &Protein requirement-RDA,Classification-saturated & unsaturated,Calorie value, Functions, Dietary sources of fats and fatty acids, Fat requirements-RDA,Classification-fat soluble & water soluble,Fat soluble-vitamin A, D, E and K,Water soluble-Thiamine (vitamin B1), Riboflavin (vitamin B2), Nicotinic Acid,Pyridoxine (vitamin B6), Pantothenic Acid, Folic Acid, vitamin B12, Ascorbic Acid (vitamin C) & Functions, Dietary Sources & Requirement-RDA of every vitamin.	15	CO3
4	Minerals,Balanced Diet, &Nutritional Deficiency Disorders:	Classification – major minerals (calcium, phosphorus, sodium, potassium and magnesium) and trace elements & Functions, Dietary sources, Requirement-RDA,Definition, principles, steps, Food guide – basic four food groups, RDA – definition, limitation, uses, Food exchange system, Calculation of nutritive values of food & Dietary fiber &Meal planning / menu planning – definition, principles, steps, Infant and Young Child Feeding (IYCF) guidelines – breast feeding, infant foods, Diet plan for different age groups – children, adolescents and elderly, Diet in pregnancy – nutritional requirements and balanced diet plan, Anemia in pregnancy-diagnosis, diet for anemic pregnant women, iron & folic acid supplementation and counseling, Nutrition in lactation-nutritional requirements, diet for lactating mothers, complementary feeding / weaning,Protein energy malnutrition – magnitude of the problem, causes, classification, signs & symptoms, severe acute malnutrition (SAM), management & prevention, nurses' role, Childhood obesity-signs & symptoms, assessment, management & prevention and nurses' role, Vitamin deficiency disorders – vitamin A, B, C & D deficiency disorders: causes, signs & symptoms, management & prevention and nurses' role, Mineral deficiency diseases-iron, iodine and calcium deficiencies: causes, signs & symptoms, management & prevention and nurses' role.	16	CO4
5	Therapeutic Diets & Cookery Rules And	Definition, objectives, principles, Modifications – consistency, nutrients, Feeding techniques, Diet in diseases – obesity, diabetes mellitus, CVD, underweight, renal diseases, hepatic disorders,	16	

	Prevention Of Nutrients, Nutrition Assessment And Nutrition Education & National Nutritional Programmes And Role Of Nurse & Food Safety:	constipation, diarrhea, pre and post operative period, Cooking – Methods, advantages and disadvantages, Preservation of nutrients, Measures to prevent loss of nutrients during preparation, Safe food handling and storage of foods, Food preservation, Food additives and food adulteration, Prevention of Food Adulteration Act (PFA), Food standards & Objectives of nutritional assessment, Methods of assessment-clinical examination, anthropometry, laboratory & biochemical assessment, assessment of dietary intake including Food Frequency Questionnaire (FFQ) method, Nutrition education education purposes, principles and methods & Nutritional problems in India, National nutritional policy, National nutritional programmes: Vitamin Supplementation, Anemia Mukh Bharat, Programme, Integrated Child Development Services (ICDS), Mid-day Meal Scheme (MDMS), National Iodine Deficiency Disorders Control Programme (NIDDCP), Weekly Iron Folic Acid Supplementation (WIFS) and others as introduced, Role of nurse in every programme & Definition Food safety considerations & measures, Food safety regulatory measures in India – Relevant Acts, Five keys to safer food, Food storage, food handling and cooking, General Principles of food storage of food item (ex milk meat), Role of food handlers in food borne disease & Essential steps in safe cooking practice.		CO5
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#### Reference Books:

5. Textbook of Medical Biochemistry, Jaypee, 8th Edition MN Chatterjee Rana Shinde
6. Textbook of Biochemistry for Medical Students, Jaypee 8th Edition DM Vasudevan
7. 3. Biochemistry for Nurses, Jaypee 2nd Edition Jacob Anthikad
8. Nursing Manual of Nutrition & Therapeutic Diet, Jaypee, T.K. Indrani, 2nd Edition
9. Essential of Food & Nutrition for Nurses, Lotus Publisher, 2nd Edition Shabnam Masih VK Malhotra 12th edition
10. A Textbook of Nutrition For Nurses, Jaypee, Molly Sam, N, Geetha.

#### 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 CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO4	PSO5	PSO6	PSO7
CO1	2	2	2	3	2	2	3	3	3	3	2	2	2	3	1	3	2	2
CO2	2	2	3	2	1	2	2	1	3	4	2	2	1	2	1	3	2	2
CO3	1	2	2	2	2	1	2	2	2	3	1	3	1	1	3	2	1	2
CO4	2	2	2	2	2	2	2	2	2	3	2	2	1	2	1	1	2	1
CO5	3	2	1	2	2	2	2	2	2	1	2	2	2	1	2	2	1	2

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

Ms. Shahnaj Qumer  
Name & Sign of Program Coordinator

Mr. Farzand Ali  
Sign & Seal of HoD



## Integral University, Lucknow

<b>Effective from Session:</b> 2022-2023							
<b>Course Code</b>	NR108	<b>Title of the Course</b>	Nursing foundation – I	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Year</b>	1	<b>Semester</b>	II Sem	<b>5</b>	<b>1</b>	<b>0</b>	<b>6</b>
<b>Pre-Requisite</b>		<b>Co-requisite</b>					
<b>Course Objectives</b>	This course is designed to help novice nursing students develop knowledge and competencies required to provide evidence-based, comprehensive basic nursing care for adult patients, using nursing process approach						

Course Outcomes	
<b>CO1</b>	Develop Understanding About The Health Assess The Nursing Process
<b>CO2</b>	Nutritional Needs, Hygiene; Elimination Needs & Diagnostic Testing
<b>CO3</b>	Oxygenation Needs, Fluid, Electrolyte And Acid -Base Balances
<b>CO4</b>	Administration Of Medications, Sensory needs& ;Care Of terminally Ill, Death And Dying
<b>CO5</b>	Psychosocial Needs (A-D):Self Concept, Sexuality, Stress And Adaptation – Introductory Concepts, Concepts Of Cultural Diversity And Spirituality, Nursing Theories: Introduction

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	:Health Assessm:The Nursing Process	Interview techniques, Observation techniques, Purposes of health assessment, Process of health assessment.Health histor3. Physical examination:a. Methods – inspection, palpation, percussion, auscultation, olfaction Preparation for examination: patient and unit c. General assessmentd. Assessment of each body system.d.Documenting health assessment findings	22	CO1
2	: NUTRITIONAL NEEDS, HYGIENE; ELIMINATION NEEDS &DIAGNOSTIC TESTING	NUTRITIONAL NEEDS: <b>Importance</b> , Factors affecting nutritional needs Assessment of nutritional statusReview: special diets – solid, liquid, soft Review on therapeutic diets Care of patient with Dysphagia , Anorexia, Nausea, VomitingMeeting nutritional needs: principles, equipment, procedure, indications Oral Enteral: Nasogastric / Orogastri Introduction to other enteral feeds – types, indications, Gastrostomy,Jejunostomy. Parenteral-TPN <b>OXYGENATION</b> Needs, Fluid, Electrolyte And Acid –Base Balances	27	CO2
3	<b>Oxygenation Needs, Fluid, Electrolyte And Acid –Base Balances</b>	<b>OXYGENATION NEEDS:</b> Review of cardiovascular and respiratory physiology Factors affecting respiratory functioning Alteration in respiratory functioning Conditions affecting Airway Movement of air Diffusion Oxygen transport Alterations in oxygenation Nursing interventions to promote oxygenation: assessment, types, equipment used & procedure Maintenance of patient airway Oxygen administration Suctioning – oral, tracheal	38	CO3
4	ADMINISTRATIO N OF MEDICATIONS, SENSORYNEEDS &CAREOFT ERMINALLILL,D EATH AND DYING	<b>Administration Of Medications: Introduction</b> – Definition Of Medication, Administration Of Medication, Drugnomenclature, Effects Of Drugs, Forms Of Medications, Purposes,Pharmacodynamics And Pharmacokineticsfactors Influencing Medication Action Medication Orders And Prescriptions systems Of Measurement Medication Dose Calculation Principles, 10 Rights Of Medication Administratioerrors In Medication Administration ,Routes Of Administration Storage And Maintenance Of Drugs And Nurses Responsibility terminologies And Abbreviations Used In Prescriptions And Medications Orders developmental Considerations Oral, Sublingual And Buccal Routes: Equipment, Introduction To Parenteral Administration Of Drugs – Intramuscular, In subcutaneous, Intradermal: Location Of Site, Advantages And Disadvantages Of The specific Sites, Indication And Contraindications For The Different Routes And Sites	21	CO4
5	Psychosocial Needs (A-D):Self Concept, Sexuality, Stress And Adaptation – Introductoryconcept s, Concepts Of Cultural Diversity And Spirituality,Nursing Theoris: Introduction	<b>Self Concept:</b> Introduction Components (Personal Identify, Body Image, Role Performance, Self Esteem)Factors Affecting Self Concept, Nursing Management. <b>Sexuality:</b> Sexual Development Throughout Life Sexual Health, Sexual Orientation Factors Affecting Sexuality Prevention Of Sty's Unwanted Pregnancy, Avoiding Sexual Harassment And Abuse Dealing With Inappropriate Sexual Behavior, Stress And Adaptation – Introductory Concepts: Introduction Source, Effects, Indicators & Types Of Stress Types Of Stressors Stress Adaption – General Adaption Syndrome (Gas), Local Adaption Syndrome(Las), Manifestation Of Stress – Physical & Psychological. Coping Strategies Mechanism Stress Management Assist With Coping And Adaption Creating Therapeutic Environment Recreational And Diversion Therapies D.Concepts Of Cultural Diversity And Spirituality	12	CO5

### Reference Books:

otter& perry 4 th edition

Sister nancy

BT Basavanthapa 2<sup>nd</sup> edition

Clinical nursing procedure book 2<sup>nd</sup> edition

<b>e-Learning Source:</b>
<a href="http://library.iul.ac.in/ELibrary.aspx">http://library.iul.ac.in/ELibrary.aspx</a>
<a href="https://india.oup.com/">https://india.oup.com/</a>
<a href="https://www.doabooks.org/">https://www.doabooks.org/</a>

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)																	
PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO4	PSO5	PSO6	PSO7
CO1	2	2	2	3	2	2	3	3	3	2	2	2	2	2	1	3	4	5
CO2	2	2	3	3	1	1	2	2	3	4	2	2	1	2	2	3	2	2
CO3	1	2	2	2	2	1	2	2	2	3	1	3	2	1	3	2	1	2
CO4	2	2	2	2	2	2	2	2	2	3	2	2	1	2	1	1	2	3
CO5	3	2	1	2	2	2	2	2	2	1	2	2	2	1	2	2	1	2

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

<p><b>Ms. Achsah Babu</b> Name &amp; Sign of Program Coordinator</p>	<p><b>Mr.Farzand Ali</b> Sign &amp; Seal of HoD</p>
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Course Outcomes	
<b>CO1</b>	Describe the importance computer and technology in patient care and nursing practice, and Demonstrate the use of computer and technology in patient care, nursing education, practice, administration and research.
<b>CO2</b>	Describe the principles of health informatics, Describe and Demonstrate the concepts of information system in health
<b>CO3</b>	Explain the use of electronic health records in nursing practice Describe the latest trend in electronic health records standards and interoperability, Describe the advantages and limitations of health informatics in maintaining patient safety and risk management
<b>CO4</b>	Explain the importance of knowledge management Describe the standardized languages used in health informatics, Explain the use of information and communication technology in patient care Explain the application of public health informatics, Describe the functions of nursing information system Explain the use of healthcare data in management of health care organization
<b>CO5</b>	Describe the ethical and legal issues in healthcare informatics, Explains the ethical and legal issues related to nursing informatics and Explain the relevance of evidence-based practices in providing quality healthcare

<b>Reference Books:</b>
<ol style="list-style-type: none"><li>11. Computer Applications In Management</li><li>12. Computer Data-base Organization</li><li>13. Computer Network</li><li>14. The Fourth Edition of Handbook of Informatics for Nursing &amp; Healthcare Professional</li></ol>
<b>e-Learning Source:</b>
<p><a href="http://library.iul.ac.in/ELibrary.aspx">http://library.iul.ac.in/ELibrary.aspx</a> <a href="https://india.oup.com/">https://india.oup.com/</a> <a href="https://www.doabooks.org/">https://www.doabooks.org/</a></p>

[illegible]

CO1	3	2	2	3	2	2	3	3	3	3	2	2	2	3	1	3	3	2
CO2	2	2	3	2	1	2	2	2	3	3	2	2	1	2	1	3	2	2
CO3	1	4	2	2	2	1	2	2	2	3	1	3	1	1	3	2	1	2
CO4	2	2	2	2	2	2	2	2	2	3	2	2	1	2	1	1	2	1
CO5	3	2	1	2	2	2	2	2	2	1	2	2	2	1	2	2	1	2

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

<div>Ms.Aparna</div> <div>Name &amp; Sign of Program Coordinator</div>	<div>Mr. Farzand Ali</div> <div>Sign &amp; Seal of HoD</div>
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**Integral University, Lucknow**

Effective from Session: 2022-23							
Course Code	NR110	Title of the Course	Nursing Foundation Lab II	L	0	T	0
Year	1st	Semester	I	P	2	C	1
Pre-Requisite		Co-requisite					
Course Objectives	On completing of the course, the students will be able to, Demonstrate skills in caring for patients with restricted mobility, Plan and provide appropriate health teaching following the principles.						

Course Outcomes	
<b>CO1</b>	Develop skills in assessment, planning, implementation and evaluation of nursing care using nursing process approach
<b>CO2</b>	Perform simple lab tests and analyze & interpret common diagnostic values
<b>CO3</b>	Identify and meet the Nutritional needs of patients
<b>CO4</b>	Plan and implement care to meet the elimination needs of patient

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
16.		Sponge bath, oral hygiene, Perineal care	2	1
17.		Nutritional assessment	2	1
18.		Nasogastric tube feeding	2	1
19.		Providing bed pan & urinal	2	2
20.		Catheter care	2	2
21.		Bowel wash, enema, insertion of suppository	2	2
22.		Oxygen administration – face mask, venture mask, nasal prongs	2	3
23.		Administration of medication through parenteral route – IM, SC, ID, IV	2	3
24.		Last office	2	4
25.		CPR	2	4
26.		I.V Care	2	2

Reference Books:	
Kozeeer & Erab's Fundamental Of Nursing, Audrey J Berman, Shirlee Synder, 9 <sup>th</sup> Edition Pearson Publication	
Principles & Practice, Sr Nancy, Volume 1 & 6 <sup>th</sup> Edition	
upeStephanie's Principles & Practice Of Nursing , Volume 2 <sup>nd</sup> , Sr Nancy	
Fundamental Of Nursing , 7 <sup>th</sup> Edition , Potter Perry	
e-Learning Source:	
<a href="http://library.iul.ac.in/ELibrary.aspx">http://library.iul.ac.in/ELibrary.aspx</a>	
<a href="https://india.oup.com/">https://india.oup.com/</a>	
<a href="https://www.doabooks.org/">https://www.doabooks.org/</a>	

Course Articulation Matrix: (Mapping of COs with POs and PSOs)																
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
<b>CO1</b>	1	1	2	3	3	2	3	2	2	3	2	2	2	3	3	2
<b>CO2</b>	2	3	2	3	3	2	2	2	3	3	2	2	3	2	3	2
<b>CO3</b>	3	3	2	3	3	3	3	2	3	3	3	2	2	2	3	2
<b>CO4</b>	2	2	3	2	2	3	2	2	2	2	2	1	3	3	2	2

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

<div>Ms.Shreya</div> <div>Name &amp; Sign of Program Coordinator</div>	<div>Mr. Farzand Ali</div> <div>Sign &amp; Seal of HoD</div>
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**Integral University, Lucknow**

Effective from Session: 2022-23							
Course Code	NR111	Title of the Course	Clinical Posting	L	T	P	C
Year	1	Semester	II	0	0	0	0
Pre-Requisite		Co-requisite					
Course Objectives	On completing of the course, the students will be able to, Demonstrate skills in caring for patients with restricted mobility, Plan and provide appropriate health teaching following the principles.						

Course Outcomes	
CO1	Health Assessment Nursing Process
CO2	Nutritional Needs
CO3	Oxygenation Needs, Fluids, Electrolyte And Acid-Base Balances
CO4	Sensory Needs And Care Of Unconscious Patients, Care Of Terminally Ill, Death And Dying

Unit No.	Title of the Unit	Content of Experiment	Contact Hrs.	Mapped CO
27.	Health Assessment Nursing Process	Nursing / health history taking ,Perform physical examination: General,Body systems  Use various methods of physical examination – inspection, palpation, percussion, auscultation, olfaction  Identification of system wise deviations ,Documentation of findings	30	CO1
28.	Nutritional Needs	<b>Elimination needs</b> Providing urinal bed pan Insertion of suppository ,Enema,Urinary catheter care  Care of urinary drainage <b>Diagnostic testing</b> ,Specimen Collection ,Urine routine and culture	30	CO2
29.	Oxygenation Needs, Fluids, Electrolyte And Acid-Base	<i>Oxygenation needs</i> Oxygen administration methods ,Nasal Prongs,Face Mask/ Venturi Mask  Steam inhalation ,Chest physiotherapy Deep breathing & coughing exercises  Oral suctioning <b>Fluid, Electrolyte and acid-base balances</b>  Maintaining intake output chart,Identify & report complication of IV therapy  Observe blood & blood component therapy Identify & report complications of blood & blood component therapy,Calculate Drug Dosages  Preparation of lotions & solutions Administer Medications Oral Topical,Inhalations ,Parenteral  Intradermal,Subcutaneous ,Intramuscular ,Instillations . Eye, ear, nose instillation of medicated drops, nasal	30	CO3
30.	NeedOf Unconscious Patients,	Sensory Needs and Care of Unconscious Patients  Assessment of level of Consciousness using Glasgow Coma Scale <i>Terminally ill, death and dying</i> Death Care	30	CO4

Reference Books:	
Fundamental Of Nursing , 7 <sup>th</sup> Edition , Potter Perry	
Textbook Of Nursing Book, 2 <sup>nd</sup> Edition , I Clement	
Lippincott Manual Of Nursing Practice , 10 <sup>th</sup> Edition, Wolters Kluwer, Lippincott Williams & Wikins	
E-Learning resources	
<a href="http://library.iul.ac.in/ELibrary.aspx">http://library.iul.ac.in/ELibrary.aspx</a>	
<a href="https://india.oup.com/">https://india.oup.com/</a>	
<a href="https://www.doabooks.org/">https://www.doabooks.org/</a>	

Course Articulation Matrix: (Mapping of COs with POs and PSOs)																
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO1	1	1	2	3	3	2	3	2	2	3	2	2	2	3	3	2

CO2	2	3	2	3	3	2	2	2	3	3	2	2	3	2	3	2
CO3	3	3	2	3	3	3	3	2	3	3	3	2	2	2	3	2
CO4	2	2	3	2	2	3	2	2	2	2	2	1	3	3	2	2

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

<div>Ms. Sandhya</div> <div>Name &amp; Sign of Program Coordinator</div>	<div>Mr. Farzand Ali</div> <div>Sign &amp; Seal of HoD</div>
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