

KHYBER MEDICAL UNIVERSITY

GENERIC B.SC NURSING CURRICULUM

YEAR ONE STUDY GUIDE

(SEMESTER 1)

16 Weeks Activity Planner 2021-22

CENTRAL CURRICULUM & ASSESSMENT COMMITTEE FOR NURSING, REHABILITATION SCIENCES & ALLIED HEALTH SCIENCES

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KMU VISION

Khyber Medical University will be the global leader in health sciences academics and research for efficient and compassionate health care.

KMU MISSION

Khyber Medical University aims to promote professional competence through learning and innovation for providing comprehensive quality health care to the nation.

CENTRAL CURRICULUM COMMITTEE

Opened new door, for the beginning of new era under the supervision of Prof Dr. Zia ul Haq, VC Khyber Medical University and Dr. Brekhna Jamil Director IH-PE&R the Central Curriculum & Assessment Committe has been formulated. This is first step taken to change the dynamics of Allied Health Sciences and Nursing Education in Pakistan. Committee by using a craft man approach has developed study guide which will provide pathways for other to follow and KMU will preserve the leadership in providing quality education across Pakistan and will be a reference point of quality in future. Committe has developed curricula to promote inter-professional learning, enhancing and improving the quality of life for people by discovering, teaching and applying knowledge related to Nursing, rehabilitation Sciences & Allied Health sciences.

High-quality education is relevant to patient needs and the changing patterns of skills that are demanded by modern health care and aligning assessment and providing quality training to students will definitely will be the outcome. Which will strengthen and enhance quality of Health System across Pakistan.

Dr. Brekhna Jamil	Chairperson	Director Institute of Health Professions Edu- cation & Research, KMU
Prof. Dr. Zia Ul Islam	Member	Professor ENT
Dr. Syed Hafeez Ahmad	Member	Addl. Controller of Examination Khyber Medical University
Dr. Danish Ali Khan	Member	Director/ Principal Northwest Institute of Health Sciences
Sardar Ali	Member	Assistant Professor Institute of Nursing Khyber Medical University
Muhammad Asif Zeb	Member	Lecturer Institute of ParaMedical Sciences Khyber Medical University
Nazish A Qadir	Member	Lecturer Institute of Physical Medicine & Rehabilitation Khyber Medical University
Syed Amin Ullah	Secretary	Assistant Director Academics Khyber Medical University

The Central Curriculum & Assessment Committee is as follows:

INTRODUCTION

The B.S (Generic) Nursing Programme aspires to prepare nurses in a multidisciplinary environment enabling them to work in an ever changing complex health care delivery system and to attain their true potentials in becoming competent, caring, and inquisitive members of the health care teams for improving the health status of individuals, families and the society at large.

B.S Nursing is a 4-years programme that prepares graduates to provide safe, competent and compassionate nursing care grounded in theory and professional standards. The curriculum is based on the concepts of relational practice, lead-ership, critical nursing inquiry and ethics of care. The curriculum further gives an opportunity to the students to acquire a good deal of experience to work at various levels of health organizations including basic health units, rural health centers, community clinics, specialized and tertiary health care settings.

OBJECTIVES

By the end of this program, students should be able to:.

- 1. Develop nursing graduates skilled with progressive theoretical as well as practical knowledge and skills
- 2. Educate nurses working with different capacities and various roles in health care institutions/organizations
- 3. Train nurses for giving care with leadership, management, problem solving and decision making skills
- 4. Integrate logics and reasoning in complex situations or settings while providing holistic care to patients
- 5. Prepare nurses with analytical, critical thinking and research skills to promote evidenced based care

FIRST SEMESTER SUBJECTS

S.No	Subjects	Duration
1	NU-101 FUNDAMENTALS OF NURSING-I 4(2-2)	16 weeks
2	NU-102 MICROBIOLOGY 3(2.55)	16 weeks
3	NU-103 ANATOMY AND PHYSIOLOGY-I 3(3-0)	16 weeks
4	NU-104 BIOCHEMISTRY FOR NURSES 3(2-1)	16 weeks
5	NU-105 ENGLISH 2(2-0)	16 weeks
6	NU-106 COMPUTER SKILLS 1(1-0)	16 weeks



NU-101 FUNDAMENTALS OF NURSING-I 4(2-2)

Course Description

This course introduces the student to nursing as a professional discipline. The concept of a professional nurse is addressed through a brief overview of nursing historical development, definitions of nursing, nursing education, the practice, roles of the nurse and nurse's accountability. The conceptual basis for nursing practice is presented as the relationship which exists among human needs, adoption and homeostasis, alterations in health, voluntary and involuntary processes, and nursing intervention. The position of nurses in the health care delivery system of the Country is explained through a description of its organization and administration, facilities, and personnel. International health and nursing organizations are discussed.

Cognitive Domain

By the end of this subject, students should be able to:

- 1. Describe the Early Nursing Leaders and historical development of Health care and Nursing.
- 2. Compare requirements and advantages of different Nursing Educational Programs.
- 3. Compare and contrast definitions of nursing by different Nursing Scholars.
- 4. Describe the roles of a professional Nursing.
- 5. Describe the relationship among Human needs, Adoption Homeostasis, alterations in Health, Voluntary and Involuntary Process and nursing Intervention
- 6. Explain the content and purposes of Code of Ethics, and Standards of Nursing practice.
- 7. Discuss the purposes and activities of the World Health Organization and

the International Council of Nurses.

Skills Domain

By the end of this subject, students should be able to:

- 1. Demonstrate therapeutic communication techniques while taking patient history.
- 2. Demonstrate to take pulse rate of the patient.
- 3. Perform to count and document the respiration rate of an adult client.
- 4. Demonstrate to measure the Blood Pressure of an adult patient.
- 5. Demonstrate nursing interventions to prevent decubitus ulcer.
- 6. Perform health teaching at the clinical site.
- 7. Perform the procedure of cardiopulmonary resuscitation on dummy in lab.
- 8. Perform to measure height and weight of the patient of the patient.
- 9. Demonstrate to prepare occupied and unoccupied bed making for the patient.
- 10. Demonstrate to admit a patient in the nursing unit.
- 11. Demonstrate to prepare a discharge plan for the patient.

Affective Domain

- 1. Follow the specified norms of the IL, SGD teaching & learning.
- 2. Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with human models, colleagues and teachers.
- 3. Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.

TOS -NU-101 FUNDAMENTALS OF NURSING-I 4(2-2)

CNIe	Weeks	eeks Content	Learning Outcome		Domair	۱	NALT'S	Time/	Accormont	No of	
5.110				С	Р	Α	IVITIS	Hours	Assesment	Items	
			TOPIC: HISTORY OF HEALTH CARE AND NU	JRSING							
1			Discuss the summarized form of health care concepts and sites in ancient cultures	C2							
2			Discuss the philosophical work of the founders in Nursing	C3							
3		Summary of Ancient Cul- tures. Site of Health Care in	Relate the concepts of care in Islam and nursing	C3							
4		Ancient Cultures, Islam and Nursing, The Founder of	Explain the historical perspectives regarding the founda- tion of nursing	C2				6	MCQ's		
5	Week-1	Nursing, Historical Perspec- tive, Nursing in Mogual Period, Nursing Defined by Different Scholars, Defini- tion of Nursing by WHO, Educational Programs, His- tory of Nursing Education in Pakistan Des brie Exp	Discuss the concepts of health care and nursing in Mughal era	C2			Interactive			13	
6			Compare the definitions of nursing by different nursing scholars	C4							
7			Define nursing with the perspective of World Health Organization	C1							
8			Describe the various educational programs in nursing briefly.	C2							
9			Explain the history of nursing education in Pakistan	C2							
			TOPIC: ROLES OF THE NURSE IN HEALTH	CARE							
10		Profession, Characteristics of a Profession, Role of the Professional Nurse, Description of Career Roles	Define a Profession	C1							
11			Enlist the characteristics of a profession	C1				_			
12	Week-2		Describe the role of a professional nurse	C2			Interactive	6	MCQ's	13	
13		Description of Role as	Discuss the career roles in nursing profession	C2			Lecture/SGD				
14		Communicator, A Teacher, A Counselor	Describe the role of a nurses as a communicator, teacher and as a counselor	C2							
			TOPIC: GOALS OF NURSING AND RELATED CO	ONCEPT	S						
15		Description of Human	Define basic human needs	C1							
16		Needs, Basis of Nursing	Discuss basis of nursing practice	C2							
17		Practice, World Health Organization, Model of	Define World Health Organization	C1							
18	Week-3	Conceptual Framework for Generic BSN Program,	Explain model of conceptual framework for Generic BS Nursing program.	C2			Interactive Lecture/SGD	6	MCQ's	13	
19		Nursing and Nursing Prac-	Explore nursing and nursing practices	C3							
20		cess, Historical Perspective	Define goal of nursing process	C1							
21		cess, Historical Perspective of the Nursing Process	Discuss the historical perspective of the nursing process	C2							

C No.	Weeks	Content	Learning Outcome		Domair	ı	NALT'S	Time/	Assesment	No of															
5.110				С	Р	Α	IVITIS	Hours		ltems															
	TOPIC: COMMUNICATION																								
22			Define communication, elements of communication, ways of communication	C1																					
23		Definition and Elements of Communication, Types of Communication Ways of Communication, Charac- teristics of Effective Verbal Communication, Factors and Techniques that facili- tates and interfere with the effective communication, Therapeutic and Non-Ther- apeutic Responses, Legal Aspects of Documents	Identify the characteristics of the effective verbal commu- nication	C1																					
24			Describe factors that's facilitates and interfere with the effective communication	C2			Interactive	1	MCQ's	MCQ's	2														
25	Week-4		Discuss techniques that facilitate and interfere with effec- tive communication	C2			Lecture/SGD																		
26			Define ways to respond therapeutically and non therapeutically	C1			_									-									
27			Relate the legal aspects of documentations	C3																					
28			Demonstrate therapeutic communication techniques while taking patient history		P4		Demo	F	OSDE	c															
29			Respect the patient needs and concerns while taking history of the patient			A3	Role Play	5		0															
			TOPIC: NURSING SKILLS (VITAL SIGNS)																					
30			Define vital signs and the relevant terms	C1																					
31		Define Vital Signs and the	Describe the physiological concept of temperature, respiration and blood pressure	C2																					
32		ical Concept of Tempera- ture, Respiration And Blood	Describe the principles and mechanisms for normal ther- moregulation in the body.	C2			Interactive	2	MCO's	7															
33	Week-5	Pressure, Principles and Mechanisms for Normal	Relate the ways that affect heat production and heat loss in the body.	C3			Lecture/SGD	5	IVICQ S	7															
34		of Heat Production And Heat Loss, Types of Body	Define types of body temperature according to its charac- teristics.	C1																					
35		Temperature according to	Identify the sign and symptoms of fever.	C1																					
36		Symptoms of Fever,	Perform to Measure the body temperature of the patient		P4		Demo																		
37			Follow the standard and professional norms while taking temperature of patient			A5	Role Play	3	OSPE	3															

S No.	Mooks	Contont	Learning Outcome	Domain			NALT'S	Time/	Accormont	No of
3.110	WEEKS	Content		С	Р	Α	IVIT S	Hours	Assesment	Items
38			Discuss the normal ranges for temperature, pulse, respira- tion and blood pressure.	C2						
39			List the factors affecting temperature, pulse, respiration.	C1						
40		Normal Ranges and Factors	Describe the characteristics of pulse and respiration.	C2			Interactive		MCQ's	
41		affecting Temperature, Pulse, Respiration and Blood Pressure, Characteris- tics of Pulse and Respira- tion, Factors Responsible for Maintaining Normal Blood Pressure,	Relate factors responsible for maintaining normal blood pressure.	C3			Lecture/SGD	3		7
42	Week-6		Describe various methods and sites used to measure T.P & B.P.	C2						
43			Recognize the signs of alert while taking TPR and B.P.	C1						
44			Demonstrate to measure the Blood Pressure of an adult patient		P4		Demo	2	OCDE	2
45				Counsel the patient for any variations in the blood pres- sure readings			A5	Role Play	5	USPE
46		Various Methods and Sites	Demonstrate to take pulse rate of the patient		P4		Demo			
47	Week-7	Used to Measure T.P & B.P,	Respect the patient needs and concern while taking heart rate of the patient			A3	Role Play	6	OSPE	7
50	Week 9	Signs of Alert while Taking	Perform to count and document the respiration rate of an adult client		P4		Demo	6	OCDE	7
51	vveek-o	TPR and B.P.	Provide morally acceptable assistance and care while assessing respiratory rate			A5	Role Play	0	USPE	7
			TOPIC: SKIN MANAGEMENT							
52			Define decubitus ulcer (bed sore)	C1			Interactive	1	MCO's	2
53		Definition, Causes and Risk Factors of Decubation	Relate the causes and risk factors of decubitus ulcer	C3			Lecture/SGD	1	IVICQ S	2
54	Week-9 Ulcer (Bed Sore), Nursing Interventions to Prevent Decubetic Ulcer.	Ulcer (Bed Sore), Nursing Interventions to Prevent	Demonstrate nursing interventions to prevent decubitus ulcer.		P4		Demo	5	OSPE	6
55		Provide morally acceptable care to the patient with decubitus ulcer			A5	Role Play	5	OSPE	6	
			TOPIC: CONCEPT OF SAFETY: RISK MANAGE	EMENT						

C Mo	Weeks	Contont	Learning Outcome		Domair)	MIT's	Time/	Accormont	No of
5.110		Content		С	Р	Α	IVITIS	Hours	Assesment	Items
56			Define safety	C1						
57		Definition of Safety,	Describe the characteristics of safety	C2						
58		Physical and Microbial	Identify physical and microbial hazards in environment	C1						
59		Hazards in Environment, Ways to Minimize Hazards, Environmental Safety, Physical and Microbial Hazards in the Hospital Environment interacting with Patients, Preventive Measures for Safe Environ- ment for Health Members and Patient, People at Risk for Safety Dysfunction	Discuss various ways to minimize hazards	C2			Interactive	1	MCQ's	
60			Discuss the assessment for environmental safety	C2			Lecture/SGD			2
61	Week-10		Analyze physical and microbial hazards in hospital setting, interfere with safety	C4						
62			Identify people at risk for safety dysfunction based on hospital assessment	C1						
63			Perform preventive measures for safe environment for health members and patient independently		P4		Demo	F	OSDE	G
64			Follow the professional norms while performing different preventive measures of safe environment			A5	Role Play	Э	OSPE	0
			TOPIC: CONCEPT OF TEACHING & LEARN	IING						
65			Assess the learning needs of the patient at the clinical site	C5			Interactive	1		h
66		Learning Needs of Patient,	Develop teaching learning plan	C3			Lecture/SGD	I	IVICUS	2
67	Week-11	Teaching Learning Plan,	Perform health teaching at the clinical site		P4		Demo			
68		Health Teaching	Follow the professional norms while teaching the client at clinical site			A5	Role Play	5	OSPE	6
			TOPIC: OXYGENATION: RESPIRATORY FUNCTION & CARDI	OVASC	ULAR S	YSTEM				

CNIC	Weeks	Content	Learning Outcome		Domair	n	NALT/-	Time/	Accormont	No of
5.100	vveeks			С	Р	Α	IVITIS	Hours	Assesment	Items
69			Relate factors that can interfere with effective oxygenation of body tissues.	C3						
70			Describe manifestations of altered respiratory and cardio- vascular function.	C2						
71		Factors Interfere with Effec- tive Oxygenation, Manifes- tations Lifespan-related	Discuss lifespan changes/ problems in respiratory / cardio- vascular functions	C2						
72		 Changes and Problems of Altered Respiratory and Cardiovascular Function, Ensure a Patient Airway, Emergencies, Nursing Process and Teaching Plan to Respiratory and Cardio- vascular System, Infection Prevention, Medical and Surgical Asepsis 	Describe nursing measures to ensure a patient airway.	C2			Interactive	1	MCQ's	С
73	Week 12		Apply nursing process for a altered respiratory and cardio- vascular system	C3			Lecture/SGD			2
74	Week-12		Recognize the emergencies related to respiratory and cardiovascular system.	C1						
75			Explain ways that caregivers can decrease exposure of clients to infection	C2						
76			Differentiate between medical and surgical asepsis.	C4			_			
77			Perform the procedure of cardiopulmonary resuscitation on dummy in lab		P3		Demo Role Play	- 5	OSPE	G
78			Follow the professional norms while performing the CPR Procedure			A3				0
			TOPIC: OXYGENATION: ACTIVITY AND EXERCISI	e patte	RN					
79			Define terms mobility, joint mobility, body alignments and body mechanics	C1						
80		Definitions of Terms Mo-	Discuss the benefits of activity and exercise	C2						
81		bility, Joint Mobility, Body	Identify the principles of gravity that affects balance	C1			Interactive	1	MCO's	С
82	Wook 12	chanics, Benefits of Activity	Discuss factors affecting mobility	C2			Lecture/SGD	1	IVICQ S	2
83	Week-15	and Exercise, Principles of	Discuss the effects of immobility on human body	C2						
84		Factors Affecting Mobility, Effects of Immobility,	Review A&P of skeletal system and characteristics of nor- mal movement.	C1						
85		Effects of Immobility,	Demonstrate various Range of motion for general mobility		P4		Demo	5	OSDE	6
86		86	Follow proper norms while performing ROM			A5	Role Play	5	USPE	0

C NI-	Wooks	looks Contant	Learning Outcome		Domair	1	N 417/-	Time/	Accormont	No of
5.100	vveeks	Content		С	Р	Α	IVITIS	Hours	Assesment	ltems
87			Describe impact of immobility on Physiological and Psy- chological functions	C1			Interactive	1	MCO's	n
88			Apply nursing process while planning for altered musculo- skeletal system	C3			Lecture/SGD	I	INICQ'S	2
89	Mook 14	A&P and Movements of Musculo-Skeletal System,	Perform bath to a patient with musculoskeletal system disorder on bed		P4		Demo			
90	vveek-14	Nursing Process of Muscu- lo-Skeletal Disorders	Follow the professional norms while giving bath to the patient on bed			A5	Role Play	F	OSDE	7
91			Perform to measure height and weight of the patient of the patient		P4		Demo	5	OSPE	/
92			Provide acceptable/ethical assistance during height and weight measurement			A5	Role Play			
	TOPIC: PROCESS OF HOSPITALIZATION									
93		Definitions, Procedure and Nursing Responsibilities During Admission, Transfer and Discharge, Nurse Role in Discharge Planning,	Define the team admission, transfer and discharge	C1						
94			Discuss the procedure for admission, transfer and dis- charge	C2			Interactive Lecture/SGD	1		
95			Identify nursing responsibility during admission, transfer and discharge	C1					MCQ's	2
96	Week-15		Discuss nurse role in preparing patients and family for discharge	C2						
97			Discuss the normal reaction of patient being hospitalized	C2						
98		Normal Reaction of Patient	Demonstrate to prepare occupied and unoccupied bed making for the patient		P4		Demo	F	OSDE	G
99		being Hospitalized.	Provide morally acceptable care to the patient while mak- ing bed for patients			A5	Role Play	J	OSFE	0
100			Demonstrate to admit a patient in the nursing unit		P3		Demo			
101	Week-16	Normal Reaction of Patient	Respect patients' needs and concerns during admission of patient in the unit			A3	Role Play	6	OSDE	7
102	Week-10	being Hospitalized.	Demonstrate to prepare a discharge plan for the patient		P3		Demo	0	USFL	7
103			Respect the patient needs while preparing the patient for discharge planning			A3	Role Play			

NU-102 MICROBIOLOGY 3(2.5-.5)

Course Description

This course is designed to furnish the learners with the knowledge of basic concepts and scientific principles of Microbiology. It facilitates the learners to learn the application of principles of Microbiology in hospital and community environment.

Cognitive Domain

By the end of this subject, students should be able to:

- 1. Explain the necessity of the knowledge of Microbiology needed when providing nursing care to the clients.
- 2. Use basic principles of Microbiology in nursing practice, in a hospital and community environment.
- 3. Demonstrate the skills learnt in the laboratory to carryout simple laboratory experiments.

Skills Domain

By the end of this subject, students should be able to:

- 1. Demonstrate the safe handling of chemical and equipment's in lab
- 2. Demonstrate and make use of operating a microscope
- 3. Perform the procedure to prepare slides of culture media
- 4. Demonstrate the preventive measures during various types of isolation
- 5. Demonstrate preventive measures to control nosocomial infections in patients
- 6. Perform the procedure of staining bacteria

Affective Domain

- 1. Demonstrate punctuality. Follow the specified norms of the IL, SGD teaching & learning.
- 2. Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with human models, colleagues and teachers.
- 3. Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem or personal life.

TOS -NU-102 MICROBIOLOGY 3(2.5-.5)

S No.	Mooks	Weeks Content	Learning Outcome		Domain		NALT'S	Time/	Assessment	No of
5.110	VVEEKS			С	Р	Α	IVITIS	Hours	Assesment	Items
			TOPIC: INTRODUCTION TO MICROBIOL	OGY						
1		Definition and Importance	Define Microbiology	C1						
2		of Microbiology, Properties	Enlist some of the basic properties of viruses	C2						
3		ganisms, Contribution of A. V. Leeunvenhork, F. Redi,	Explain the basic nutritional requirements of microorgan- isms	C2			Interactive			
4	Wicrobiology, Dibetween Eukaryo Prokaryotic Cell, Requirements of ganisms, Ulassification of based on Nutriti	L. Pasteur and R. Koch to Microbiology, Difference between Eukaryotic and Prokaryotic Cell, Nutritional Requirements of Microor- ganisms,	Discuss the contribution of different scientists in the field of microbiology	C2			Lecture/SGD	4	MCQ's	7
5		Classification of Bacteria	Classify of bacteria based on nutritional requirement and morphology	C3			Interactive	4		
6	Week-2	based on Nutritional Re- quirement/ Morphology E:	Distinguish between eukaryotic and prokaryotic cell	C4			Lecture/SGD		MCQ's	7
7			Explain the importance of microbiology in nursing practice	C2			-			
			TOPIC: SAFE USE OF LAB							
8	Mook 2	Safe Use of Chemicals and Equipments in Lab	Demonstrate the safe handling of chemical and equip- ments in lab		P3		Demo	4	OSDE	12
9	VVEEK-5		Follow professional norms of handling the chemical and equipments in lab safely			A3	Role Play	4	USPE	
			TOPIC: CONTROL OF MICROORGANIS	5M						
10		Importance, Physical and Chemical Methods of	Define sterilization, antiseptic, asepsis, macrobiotic, mi- crobiocidal, antibiotic	C1						
11		the Control of Microbial Growth, Terms Definitions (Sterilization, Anticentic	Describe some physical and chemical methods to control microbial growth	C2						
12	Wook-1	Asepsis, Aseptic, Mac-	Explain importance of the control of microbial growth	C2			Interactive	1	MCO's	7
13	Week-4	robiotic, Microbiocidal, Antibiotic etc), Difference between Broad and Narrow Spectrum antibiotics, Microbial Genetics, Gram Staining	Differentiate between broad spectrum and narrow spectrum antibiotics	C3			Lecture/SGD	4	IVICQ'S	
			TOPIC: MICROSCOPE USE							

Other Meeks Collection Control terms Control terms Control terms Product	S No.	Wooks	Contont	Learning Outcome		Domair	۱	MIT's	Time/	Accormont	No of
14 Meek-5 Indubition to Use a Microscope in Lab Demonstrate and make use of operating a microscope in lab P3 Operation to Demonstrate and make use of operating a microscope in lab A3 Role Play 4 OSFE 12 15 Week-6 Inclusion of Resistance and Susceptibility. Definitions of Resistance and Susceptibility. Definitions of Antigens and Antibodies. C2 C2<	3.110	WEEKS	Content		С	Р	Α	IVIT S	Hours	Assesment	Items
15 Week-5 in Lab Follow the professional attributes and norms while using a microscope A3 Role Play 4 OSPE 12 15 Week-5 In Lab Follow the professional attributes and norms while using a microscope A3 Role Play 4 OSPE 12 16 Interactive control of Resistance, and Susceptibility. Definitions of Resistance and Susceptibility. Definitions of Specific Resistance and susceptibility. Definitions of Specific Resistance and susceptibility. Definitions of Antigens and Antibodies, and Specific resistance and antibodies C2 Interactive Lecture/SGD 4 MCQ's 7 19 Week-6 Role of the Skin and Mucous Membrane in Non Specific Resistance, and susceptibility C2	14		How to Use a Microscope	Demonstrate and make use of operating a microscope		P3		Demo			
IOPIC: DEFENCE MECHANISMS OF THE BODY 16 Non-Specific Resistance, Non-Specific Resistance, and Susceptibility, Defini- tions of Specific Resistance, mumulty, Definitions of Antigens and Antibodies, Define resistance and susceptibility C1 Le 19 Week-6 Interactive functionate Resistance and Immunity. Discuss the specific resistance, immunity. C2 Lecture/SGD 4 MCQ's 7 20 Role of the Skin and Mucous Membrane in Non-Specific resistance, and their functions, Role of Memory. Explain the five classes of antibodies and their functions Specific resistance. C2 Lecture/SGD 4 MCQ's 7 21 Week-7 Role of Memory. Explain the five classes of antibodies and their functions, Role of Memory. C2 Lecture/SGD 4 MCQ's 7 23 Protection against the Microbial Infection, Process of Phagocytosis, Profection against the role of good health in protection against the microbial infection. C2 Lecture/SGD 4 MCQ's 7 24 Week-8 Difference between Humoral and Cell Medi- ated Immunity. Difference between primary and secondary immune tesponse C2 Lecture/SGD 4 MCQ's 7 26 Difference between Humoral and Cell Medi- ated Immunity. Difference between Deleyed and Immediate	15	Week-5	in Lab	Follow the professional attributes and norms while using a microscope			A3	Role Play	4	OSPE	12
16 17 17 18 18 19 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10				TOPIC: DEFENCE MECHANISMS OF THE E	BODY						
17 Mon-Specific Resistance, and Susceptibility, Definitions of Acquired Innumity, Types of Acquired Innumulty, Types of Acquired Innumulty, Definitions of Antigens and Antibodies, and their functions, Specific Resistance, and Mucous Membrane in Non-Specific Resistance, and Susceptibility, Definitions of Antigens and Antibodies, and their functions, Specific Resistance, and Susceptibility, Definitions of Antigens and Antibodies, and their functions, Specific Resistance, in Net Prive Classes of Antibodies, and their functions, Specific Resistance, in Net Prive Classes of Antibodies, and their of the Skin and Mucous Membrane in Non-Specific Resistance, in Net Prive Classes of Antibodies, and their functions, Role of Memory, Role of Memory, Role of Memory, Role of Good Health in protection against the Protectin against the Protection againthe Protection against the	16		Definitions of Resistance,	Define resistance and susceptibility	C1						
18 Week-6 tions of Specific Resistance, innate resistance and immunity. Definitions of Antigens and Antibodies. Discuss the specific resistance, innate resistance and immunity. Definitions of Antigens and Antibodies. C2 Interactive Lecture/SGD 4 MCQ's 7 20 Antigens and Antibodies. C2 C2 Interactive Lecture/SGD 4 MCQ's 7 21 Week-7 Role of the Skin and Mucous Membrane in Non Specific Resistance, Five Classes of Antibodies, and their functions, Role of Memory, Describe the role of the skin and mucous membrane in non specific resistance C2 Interactive Lecture/SGD 4 MCQ's 7 23 Protection agains the Microbial Infection, Process of Phagocytosis C2 Interactive Lecture/SGD 4 MCQ's 7 24 Week-8 Difference between humoral and cell mediated immunity C2 Interactive Lecture/SGD 4 MCQ's 7 26 Difference between Primary and Secondary immune Response, Trianguard Secondary immunity. Uniference between primary and Secondary immune Response, Trivity. Uniference between primary and Secondary immune Response, Trivity. Uniference between delayed and immediate hypersensitivity. C2 Interactive Lecture/SGD 4 MCQ's 7 28 Week-9 Difference between primary and Secondary immune Re	17		Non-Specific Resistance	Explain nonspecific resistance	C2						
19 munity, Types of Acquired Immunity, Definitions Antigens and Antibodies, Antigens and Antibodies, Antigens and Antibodies, 20 Discuss antigens and antibodies C2 C3 C2 C3 C2 C3 C2 C3 C2 C2 C2 C2 C2 C2 C2 C2 C2 C3 C3 C3	18	Week-6	tions of Specific Resistance, Innate Resistance and Im-	Discuss the specific resistance, innate resistance and immunity	C2			Interactive Lecture/SGD	4	MCQ's	7
20 Role of the Skin and Mucous Membrane in Non Specific Resistance, Five Classes of Antibodies and their Functions, Role of Memory, Explain the five classes of antibodies and their functions C2 Interactive Lecture/SGD 4 MCQ's 7 23 Role of Good Health in Protection against the Microbial Infection. Discuss the role of good health in protection against the microbial infection. C2 C2 Interactive Lecture/SGD 4 MCQ's 7 24 Week-8 Role of Good Health in Protection against the Microbial infection. Discuss the role of good health in protection against the microbial infection. C2 C2 Interactive Lecture/SGD 4 MCQ's 7 26 Week-8 Difference between Humoral and Cell Medi- ated Mmunity, Difference between Primary and Sec- ondary Immune Response, Orleance and Specificity in Immunity, Hypersensi- tivity, Difference between Delayed and Immediate Differentiate between delayed and immediate hypersen- sitivity C4 4 MCQ's 7	19		munity, Types of Acquired Immunity, Definitions of Antigens and Antibodies,	Discuss antigens and antibodies	C2						
21 Week-7 Mucous Membrane in Non Specific Resistance, Five Classes of Antibodies and their Functions, Role of Memory, Bole of Memory, Bole of Good Health in protection against the Microbial Infection, Protection against the Immunity C2 Interactive Lecture/SGD 4 MCQ's 7 26 Week-8 Difference between Microbial Infection, Process of Phagocytosis C2 Interactive Lecture/SGD 4 MCQ's 7 26 Difference between Pimary and Secondary immune Versponse C2 Interactive Lecture/SGD 4 MCQ's 7 27 Difference between Pimary and Secondary immune Versponse C4 C4 2 2 1 4 MCQ's 7 28 Week-9 Difference between Primary and Secondary immune Topy and Secondary immune Prosponse C4 2 2 4 MCQ's 7 29 Week-9 Differentiate between delayed and immediate hypersentivity. C4 2 2 4 MCQ's 7	20		Role of the Skin and	Explain the five classes of antibodies and their functions	C2						
22 Week-7 Specific resistance, and their Functions, Role of Memory, Role of Memory, Role of Memory, Role of Good Health in protection against the Microbial Infection, Protection against the Protection against the Interactive Explain four types of acquired immunity C2 Interactive Lecture/SGD 4 MCQ's 7 26 Week-8 Point Protection against the Microbial Infection, Process of Phagocytosis C2 Interactive Lecture/SGD 4 MCQ's 7 26 Difference between Humoral and Cell Mediated Immunity C2 Interactive Lecture/SGD 4 MCQ's 7 27 Difference between Response, Tolerance and Specificity In Immunity, Difference between primary and Secondary Immune Response, Tolerance and Specificity, In Immunity, Hypersensi-Tolerance and Specificity, Inference between belayed and Immediate hypersensitivity. C4 Interactive Lecture/SGD 4 MCQ's 7	21		Mucous Membrane in Non	Discuss hypersensitivity	C2			Interactive			
23 24 25Week-8Role of Good Health in Protection against the Microbial Infection, Process of Phagocytosis,Discuss the role of good health in protection against the microbial infection.C2Interactive Lecture/SGD4MCQ's72627Difference between Humoral and Cell Medi- ated Immunity, Difference between Primary and Sec- ondary Immune Response, Tolerance and Specificity in Immunity, Hypersensitivity.Differentiate between delayed and immediate hypersen- sitivityC44MCQ's729Week-9Difference between Hypersensitivity.Differentiate between delayed and immediate hypersen- sitivityC44MCQ's7	22	Week-7	Five Classes of Antibodies and their Functions, Role of Memory,	Describe the role of the skin and mucous membrane in non specific resistance	C2			Lecture/SGD	4	MCQ's	7
24 Week-8 Microbial Infection, Process of Phagocytosis, Explain the process of Phagocytosis C2 Interactive Lecture/SGD 4 MCQ's 7 26 Difference between Humoral and Cell Medi- ated Immunity, Difference between Primary and Sec- ondary Immune Response, Tolerance and Specificity in Immunity, Hypersensi- tivity, Difference between Hupersensitivity. Differentiate between humoral and cell mediated immu- nity C4 Enteractive Lecture/SGD 4 MCQ's 7	23		Role of Good Health in Protection against the	Discuss the role of good health in protection against the microbial infection.	C2						
25 Week-8 of Hindgelytosis, and the role of memory, tolerance and specificity in immunity C2 Lecture/SGD 4 MCQ's 7 26 Difference between Humoral and Cell Mediated Immunity C2	24	Maak 0	Microbial Infection, Process	Explain the process of Phagocytosis	C2			Interactive	4	MCO	7
26	25	vveeк-о	of finagocytosis,	Explain four types of acquired immunity	C2			Lecture/SGD	4	IVICQS	1
27Difference between Humoral and Cell Medi- ated Immunity, Difference between Primary and Sec- ondary Immune Response, Tolerance and Specificity in Immunity, Hypersensi- tivity, Difference between delayed and ImmediateDifferentiate between humoral and cell mediated immu- nityC4C4Image: Amplity <t< td=""><td>26</td><td></td><td></td><td>Explain the role of memory, tolerance and specificity in immunity</td><td>C2</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	26			Explain the role of memory, tolerance and specificity in immunity	C2						
28 Week-9 ated Immunity, Difference between Primary and Secondary immune condary Immune Response, Tolerance and Specificity in Immunity, Hypersensitivity, Difference between delayed and immediate hypersensitivity. C4 Interactive Lecture/SGD 4 MCQ's 7	27		Difference between Humoral and Cell Medi-	Differentiate between humoral and cell mediated immu- nity	C4						
Week-9 Orloary minute response, Tolerance and Specificity in Immunity, Hypersensi- tivity, Difference between Delayed and Immediate Hypersensitivity. Differentiate between delayed and immediate hypersen- sitivity C4 Lecture/SGD 4 MCQ's 7	28		ated Immunity, Difference between Primary and Sec- ondary Immune Response	Distinguish between primary and secondary immune response	C4			Interactive			
	29	Week-9	Tolerance and Specificity in Immunity, Hypersensi- tivity, Difference between Delayed and Immediate Hypersensitivity.	Differentiate between delayed and immediate hypersen- sitivity	C4			Lecture/SGD	4	MCQ's	7

S.No Weeks	Contont	t Learning Outcome C P A		MIT's	Time/	Accormont	No of			
5.110	Weeks	Content		С	Р	Α	IVIT S	Hours	Assesment	Items
30		Six Components of Chain of Infection, Examples of	Define the terms infection, infection control and inflam- mation	C1						
31		Ways that Infection may	Discuss the six components of chain of infection	C2						
32		the Risk of Infection in Vari- ous Settings, Role of Health	Explain the ways, methods and reasons of spread of in- fections with examples	C2			Interactive	2	MCQ's	4
33	Week-10	Care Personnel and Health in Infection Control	Describe the factors that increase the risk of infection in various settings	C2						
34			Employ the role of health care personnel and health in infection control	C3						
35			Demonstrate the role of Healthcare personal in infection control inedependently		P4		Demo	2	OSPE	6
36			Follow the protocols of infection control propoerly			A5	Role Play			
			TOPIC: CULTURE MEDIA SLIDES							
37		Culture Media and Slides	Perform the procedure to prepare slides of culture media		P3		Demo			
38	Week-11	Preparation	Follow the professional norms to prepare slides of culture media			A3	Role Play	4	OSPE	12
			TOPIC: CONCEPT OF ISOLATION							
39		Definition and Types of	Define Isolation	C1						
40		Isolation, Relationship of Isolation to the Chain of	Explain the types of Isolation.	C2			Interactive Lecture/SGD	2	MCQ's	4
41		Infection Cycle, Nursing	Relate isolation to the chain of infection cycle	C3						
42	Week-12	Responsibilities in Each Type of Isolation.	Demonstrate the preventive measures during various types of isolation		Р3		Demo	2	OSDE	6
43			Perform various nursing interventions professionally in each type of isolation			A4	Role Play	2	USFE	0
			TOPIC: HUMAN AND MICROBIAL INTERAC	TION						
44		Definition of Normal Flora,	Define normal flora of the body	C1						
45		Three Beneficial Role of Normal Flora, Descrip-	Enlist at least three beneficial role of normal flora	C1						
46	Week-13	tion of Some Pathogenic Microbes and Diseases i.e. Tetanus, Typhoid, Cholera, Diphtheria, Tuberculosis, Pertusis, Mumps, Measles, Polio, Influenza Ascariasis, Teaniasis and Dermatomy- cosis.	Discuss some pathogenic microbes and diseases (tetanus,- typhoid,cholera, diphtheria, tuberculosis, pertusis, mumps, measles, polio, influenza ascariasis, and teaniasis and dermatomycosis	C2			Interactive Lecture/SGD	4	MCQ's	7

C NI-	14/1	Contract	Learning Outcome		Domair	า	N 417/-	Time/	A t	No of
5.100	vveeks	Content		С	Р	Α	IVITIS	Hours	Assesment	Items
47		Difference between Resi-	Differentiate between resident and transient normal flora	C4			Interactive	2	MCO	4
48		dent and Transient Normal	Discuss nosocomial infections	C2			Lecture/SGD	2	INICQ S	4
49	Week-14	mial Infections, Three Meas- ures to Control Nosocomial	Demonstrate preventive measures to control nosocomial infections in patients		P3		Demo	2	OSDE	6
50		Infections.	Counsel the patient properly to prevent the nosocomial infections			A4	Role Play	2	USPE	0
			TOPIC: STAINING OF BACTERIA							9
51		Bacteria Staining Proce-	Perform the procedure of staining bacteria		P3		Demo			
52	Week-15	dures	Execute the staining of bacteria with the proper profes- sional standards			A3	Role Play	4	OSPE	12
			TOPIC: MICROBIOLOGY IN EVERY DAY LIFE							
53		How Microorganisms affects Environment i.e. Air,	Describe how microorganisms affects environment i.e. air, water and food	C2						
54		Water and Food, Safety Measures to Control Water and Food Borne Diseas-	List some safety measures to control water and food borne diseases.	C1			Interactive Lecture/SGD	2	MCQ's	4
55	Week-16	es, Difference between Food Infection and Food	Differentiate between food infection and food poisoning.	C4						
56		Poisoning.	Demonstrate safety measure to prevent spread of micro- organisms		P4		Demo	2	OSPE	6
57			Follow the protocols while performing safety measures			A3	Role Play	2	O Jr L	0

NU-103 ANATOMY AND PHYSIOL-OGY-I 3(3-0)

Course Description

This course introduces learners to the structures and functions of the human body. Knowledge of Anatomy & Physiology will provide a better understanding, comprehension and integration to theoretical & clinical practice in nursing care situations.

Cognitive Domain

By the end of this subject, students should be able to:

- 1. Discuss the basic concepts and terms used in anatomy and physiology
- 2. Explain the level of organization of human body
- 3. Describe the structure and function of various systems of the human body
- 4. Discuss the role of homeostasis in maintaining normal body functioning
- 5. Relate the basic anatomy & physiology concepts to the nursing care of clients.

Skills Domain

By the end of this subject, students should be able to:

- 1. Observe levels of organization of body through different anatomical structures
- 2. Demonstrate to locate abdominal pelvic regions and quadrants through a model
- 3. Demonstrate how to locate the organs present in nine abdomino pelvic regions.
- 4. Locate and name the organelles of a cell through a structural model
- 5. Perform to give descriptions of the bones of axial & appendicular skeleton

- 6. Perform to describe skull, vertebral column, rib cage, pelvic girdle & pelvic girdle
- 7. Demonstrate to explain the blood flow through the heart via heart model or chart
- 8. Demonstrate how to name the various organs of digestive system in a model.

Affective Domain

- 1. Demonstrate punctuality. Follow the specified norms of the IL, SGD teaching & learning.
- 2. Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with human models, colleagues and teachers.
- 3. Make ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.

TOS -NU-103 ANATOMY AND PHYSIOLOGY-I 3(3-0)

CNIe	Maaka	Contont			Domair	า	NALT'S	Llaura	Assessment	No of
5.110	vveeks	Content		С	Р	Α	IVITIS	Hours	Assesment	Items
			TOPIC: INTRODUCTION TO HUMAN BC	DDY						
1			Define the term anatomy and physiology	C1						
2			Discuss the relationship between anatomy and physiology	C2			Interactive	3	MCQ's	4
3		A Physiology, Relationship,	Explain the anatomical positions and body planes	C2			20000.0,000			
4	Week-1	Anatomical Positions, Body Planes.	Identify levels of organization of body through different anatomical structures		P3		Demo	1	OSDE	Л
6			Listen & Respond to the teacher attentively and courte- ously			A3	Role Play	I	USFE	4
7			Define the term body cavity	C1						
8			Discuss body cavities and list the organs lying within each cavity	C2			Interactive	3	MCQ's	4
9			Relate the importance of abdomino pelvic quadrants and regions.		C3					
10	Week-2	Cavities, Abdominopelivic	Demonstrate to locate abdominal pelvic regions and quadrants through a model		P3		Demo			
11			Give value to locate the abdominal pelvic regions and quadrants through a model			A3	Role Play		OCDE	
12			Demonstrate how to locate the organs present in nine abdomino pelvic regions.		P3		Demo		USPE	4
13			Give value to locate the organs present in nine abdomino pelvic regions.			A3	Role Play	-		
			TOPIC: HOMEOSTASIS AND ADAPTATIO	ON						
14			Define the term homeostasis	C1						
15		Definition Factors of	Discuss the factors which effect homeostasis	C2			Intoractivo			
16		Homeostasis , Feedback	Explain the feedback mechanism and its components.	C2			Lecture/SGD	3	MCQ's	4
17	Week-3	Mechanism and its Com- ponents , Role of feedback	Interpret the role of feedback process in homeostasis maintenance with examples	C3						
18		mechanism in nomeostasis	Identify statges/type of homeostasis through chatrs		P3		Demo	1	OSDE	4
19			Adopt how to care and handle Models and charts			A3	Role Play		USPE	4
			TOPIC: TISSUES AND MEMBRANE							

S No.	Wooke	Content	Learning Outcomes		Domair	1	MIT's	Hours	Accormont	No of
-5.100	weeks	Content		С	Р	Α		Hours	Assesment	Items
20			Discuss the process of cell division i.e. mitosis and meiosis.	C2			Interactive			
21		Structure and Function of	Explain and evaluate the importance of the process of mitosis & meiosis	C3			Lecture/SGD	3	MCQ's	4
22	Week-4	and Meiosis) Its Process and Importance	Locate and name the organelles of a cell through a struc- tural model		P3		Demo	1	OSDE	Α
23			Locate and name organelles of a cell through a structural model with proper norms			A3	Role Play	I	USFE	4
24		Classification, Structure, Location and Functions, of	Discuss the epithelial, connective, muscle and nervous tis- sues of the body on the basis of their structures, locations and functions	C2			Interactive Lecture/SGD	3	MCQ's	4
25	Week-5	Tissues (Epithelial Tissue, Connective Tissue, Muscle Tissue and Nervous Tissue)	Identify location & type of tissue through Models and charts		P4		Demo	1	OSPE	4
26			Adopt how to care and handle Models and charts			A4	Role Play			
			TOPIC: SKELETAL SYSTEM							
27			Define the skeletal system	C1						
28			Discuss the structure, types and functions of bone	C2			Interactive			
29		Definition, Structure, Types	List the functions of the skeletal system	C1			Lecture/SGD	3	MCQ's	4
30	Week-6	Physiology of Skeletal	Discuss the various markings on the surface of bones	C2						
31		System,	Perform to give descriptions of the bones of axial & appendicular skeleton		P3		Demo	1	OSDE	Λ
32			Describe the bones of axial & appendicular skeleton with proper professional norms			A3	Role Play		USPE	4
33		Axial and Appendicular Skeleton, Bone Description	Discuss the difference between male and female pelvis	C2			Interactive Lecture/SGD	3	MCQ's	4
34	Week-7	(Skull, Vertebral column, The Rib Cage, Pectoral Girdle and Upper Extremity	Perform to describe skull, vertebral column, rib cage, pelvic girdle & pelvic girdle		P3		Demo			
35		Pelvic Girdle and Lower Extremity, Male and Female Pelvis	Give value to describe skull, vertebral column, rib cage, pelvic girdle & pelvic girdle			A3	Role Play	1	OSPE	4

S No	Wooks	Contont	Loorning Outcomes		Domair	۱	MIT's	Hours	Accormont	No of
3.110	Weeks	Content		С	Р	Α	IVIT S	Hours	Assesment	Items
		Definition, Types of Joints	Define the term joint	C1						
36		(Fibrous, Cartilaginous, Synovial)	Describe the types of joints including fibrous, cartilagi- nous and synovial joints	C2			Interactive Lecture/SGD	3	MCQ's	4
	Week-8		List the types of synovial joints	C1						
37			Identify types of joints through Models and charts		P4		Demo	1	OSDE	А
38			Adopt how to care and handle Models and charts			A4	Role Play	1	USPE	4
39		Synovial Joints Types, Fea- tures and Movements)	Describe the common characteristic features of a synovial joint.	C2			Interactive	3	MCQ's	4
40	Week 0		Discuss the types of movements possible at synovial joints	C2			Lecture/SGD			
41	VVEEK-9		Identify Anatomical and Physiological movements of joints		P4		Demo	1	OSPE	4
42			Adopt how to care and handle Models and charts			A4	Role Play			
			TOPIC: MUSCULAR SYSTEM							
43		Terms Definitions (Fascia, Epimysium Perimysium,	Define the terms fascia, epimysium perimysium, endomy- sium, tendons, aponeurosis	C1			Interactive	2	MCO'c	4
44	Week-10	Endomysium, Tendons And Aponeurosis), Location and	Discuss location and function of major muscles of neck, face, back, arms, and legs	C2			Lecture/SGD	5	IVICQ S	4
45		(Neck, Face, Back, Arms,	Identify major muscles of upper and lower limb		P4		Demo	1	OSDE	Л
46		Legs)	Adopt how to care and handle Models and charts			A4	Role Play	I	USFL	4
			TOPIC: INTEGUMENTARY SYSTEM							
47		Structure and Functions (Epidermis and Dermis),	Describe the structure of two layers of skin epidermis and dermis	C2			Interactive	2	MCO's	4
48	Week-11	Structure and Functions of Sweat gland, Sebaceous	Discuss the structure & function of sweat gland, sebaceous gland, hairs and nails	C2			Lecture/SGD	3	IVICQ S	4
49	WEEK-11	ogy of Skin (Protec-tion,	Identify layers of skin		P4		Demo			
50		Regulation of body temperature, Sensation, Absorption And Excre-tion)	Adopt how to care and handle Models and charts			A4	Role Play	1	OSPE	4
			TOPIC: CARDIOVASCULAR SYSTEM							

C Mo	Mooks	Contont	Learning Outcomer		Domair	1	MIT's	Hours	Accormont	No of
3.110	WEEKS	Content		С	Р	Α	IVIT S	Hours	Assesment	Items
51			Define blood and list its functions	C1						
52		Placed (Definition Structure	Describe composition, sites of production ,functions of cellular parts of blood/plasma	C2			Interactive	2	MCO's	4
53	Week-12	Components, Composition, Production and Functions),	Explain the structure and function of arteries, veins and capillaries	C2			Lecture/SGD	3	IVICQ S	4
54		ABO Blood Group & Rh	Relate and explain the ABO blood groups & Rh factor	C3			-			
55		Factor.	Demonstrate difference between arteries, veins and capillaries on charts/ models		P4		Role Play	1	OSPE	4
56			Adopt how to care and handle human Models and charts			A5	Demo			
57		Structure and Euroctions of	Describe the location, structure and functions of the heart and its great blood vessels.	C2						
58		Arteries, Veins & Capillar- ies), Heart (Location, Struc-	Describe the structure and functional features of the con- ducting system of the heart.	C2			Interactive	3	MCQ's	4
59	Week-13	ture, Valves, Vessels, Blood Flow), Conduction System	Discuss the pulmonary, systematic, coronary and portal circulation	C2			Lecture/SGD			
60		(Anatomy & Physiology), Cardiac Cycle, Types of	Explain the principle events of a cardiac cycle	C2			-			
61		Blood Circulation (Pulmo- nary, Coronary, Systematic,	Demonstrate to explain the blood flow through the heart via heart model or chart		P4		Role Play	1	OCDE	4
62		Hepatic)	Follow the professional norms to explain the blood flow through heart via heart			A5	Demo	I	USPE	4
			TOPIC: LYMPHATIC SYSTEM							
63			Define lymph & the lymphatic system	C1						
64			Enlist the organs of lymphatic system	C1						
65		Definitions (Lymph & Lym-	Discuss the general functions of the lymphatic system	C2						
66		and Functions of Lym- phatic Organs, Production	Explain the lymph vessels & how lymph is returned to the blood vessels	C2			Interactive Lecture/SGD	3	MCQ's	4
67	Week-14	and Formation of Lymph, Lymph Vessels and Flow to	Discuss structure and functions of lymph nodes, nodules, spleen and thymus gland	C2						
68		tion of Nodes, Nodules, Thymus Gland and Spleen	Interpret composition and formation of lymph in relation pathological conditions	C3						
69			Draw lymphatic flow on chart		P4		Role Play	1	OSDE	4
70			Adopt how to care and handle human Models and charts			A5	Demo		USPE	4
			TOPIC: DIGESTIVE SYSTEM							

C No	Weeks	Contont	Learning Outcomes		Domair	า	MIT's	Hours	Accormont	No of
3.100	VVEEKS	Content		С	Р	Α	IVITIS	Hours	Assesment	Items
71			Define the digestive system and list its functions	C1						
72		Definition, Structure and	Describe the anatomy & physiology of digestive organs	C2			Interactive	3	MCQ's	4
73		Functions of Digestive System, Anatomy and	Discuss the role of accessory organs in digestion	C2			20000.0,000			
74	Week-15	Physiology of Digestive Organ, Accessory Organs	Demonstrate how to name the various organs of digestive system in a model		P3		Demo	1	OSDE	4
75		of Digestive System	Name various organs of digestive system in a model with proper professional norms			A3	Role Play	I	USPE	4
76		Process of Digestion in	Explain digestion of food in mouth, stomach, small intes- tines & large intestines with the chemical processes of enzymes	C2			Interactive			_
77	Week-16	Mouth, Stomach, Small & Large Intestines), Process	Explain the absorption of various nutrients in the digestive system	C2			Lecture/SGD	3	MCQ's	4
78		of Nutrients Absorption, Process of Defecation	Discuss the process of defecation.	C2						
79			Identify digestive organs from human Models and charts		P4		Demo	1	OSDE	Л
80			Adopt how to care and handle human Models and charts			A4	Role Play	1	USPE	4

NU-104 BIOCHEMISTRY FOR NURSES 3(2-1)

Course Description

This course is intended to provide the health professional with an understanding of the major organic substances of living organisms, proteins, carbohydrates and lipids, their structure analyses and biochemical functions. It also provides an introduction to the chemistry of bioenergetics, metabolism, biosynthesis and molecular biology.

Cognitive Domain

By the end of this subject, students should be able to:

- 1. Describe the basics of organic chemistry with emphasis on the biomolecules and reactions encountered in biochemistry of proteins, carbohydrates, lipids, enzymes and hormones.
- 2. Describe chemical & physical properties of biomolecules.
- 3. Relate the basic knowledge of biochemistry for better understanding of the physiological functions of the human body.

Skills Domain

By the end of this subject, students should be able to:

- 1. Demonstrate the safe handling of chemical and equipment's in lab
- 2. Assess the chemical properties of organic compounds in lab
- 3. Demonstrate to calculate the BMR of a patient
- 4. Perform Benedict's Test for reducing the sugars
- 5. Demonstrate to explain the Michalis Menten's Equation
- 6. Perform the Emulsion Test in Lab
- 7. Demonstrate the Ninhydrin Test

8. Perform to calculate the total body density of the cell

Affective Domain

- 1. Demonstrate punctuality. Follow the specified norms of the IL, SGD teaching & learning.
- 2. Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with human models, colleagues and teachers.
- 3. Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.

TOS -NU-104 BIOCHEMISTRY FOR NURSES 3(2-1)

S No	Wooks	Content	Learning Outcome		Domair	า	MIT's	Time/	Accormont	No of
5.110	WEEKS	Content		С	Р	A	WIT 5	Hours	Assesment	Items
			TOPIC: CONCEPTS OF CHEMISTRY							
1		Importance of Chemistry in Nursing, Matter, Elements	Review concepts of matter, element, mixture, compound, reaction, equation, bonding	C1			Interactive	1	MCQ's	2
2		Mixtures & Compound, Structure of Atom (Periodic	Discuss acid base and redox reactions	C2			Lecture/SGD			
3	Week-1	Table), Chemical formu- la, Chemical Reactions,	Demonstrate the safe handling of chemical and equip- ments in lab		P3		Demo			
4		Equations, Bonding, Redox Reaction and Acid Base, Safe Handling of Chemical and Equipments, Environ- ment	Follow the professional standards of handling of chemical and equipments in lab			A3	Role Play	3	OSPE	7
			TOPIC: BASIC CONCEPTS OF ORGANIC CHE	MISTRY						
5			Recognize the importance of organic compounds	C1						
6		Definition of Organic	Compare properties of organic and inorganic compounds	C4			Interactive Lecture/SGD	1	MCQ's	2
7	Week-2	Classification of Organic	Describe the classification of organic compounds	C2			200000,000			
8		compound, Properties of	Perform to classify the organic compounds through charts		P3		Demo			
9		Organic compound	Follow professional norms to classify the organic com- punds through charts in lab			A3	Role Play	3	OSPE	7
10		Molecular composition	Differentiate the type of saturated and unsaturated hydro- carbons	C4						
11	March 2	and type of hydrocar- bons, International Union	Describe the molecular composition of carbohydrates, Fats, Proteins and nucleic acid	C2			Interactive Lecture/SGD	1	MCQ's	2
12	vveeк-3	Nomenclature of Alpha Compounds (IUPAC), Hydro	List groups of alcohol, ethers aldehyde, ketones, acids, esters, amines, a.acids, amides.	C1						
13		Carbons, Alkanes, Alkenes	Draw equations of alkanes, aldehydes, ketones, acids, esters, amines & amide		P3		Demo	3	OSPE	7

C No.	Mooks	Contont	Learning Outcome		Domair	1	MIT's	Time/	Accormont	No of
3.110	WEEKS	Content		С	Р	Α		Hours	Assesment	Items
14			Discuss the biologic importance of aldehydes, ketones, acids, esters, amines, amides	C2						
15		Amines, Alkenes & Alkynes Isomerism, Functional	Distinguish between primary, secondary and tertiary amines	C4			Interactive Lecture/SGD	1	MCQ's	2
16	Week-4	Groups, Macromolecule of	Relate isomerism with at least two examples	C3						
17		Human Body	Assess the chemical properties of organic compounds in lab		P3		Demo	С	OSDE	7
18			Follow professional norms to assess chemical properties of organic compounds in lab			A3	Role Play	5	USPE	/
			TOPIC: METABOLISM							
19		Definitions of Metabolism,	Define metabolism, anabolism, catabolism	C1						
20		Anabolism, Catabolism, Adeno-Tri-Phosphatase	Define Adenosine Triphosphalic (ATP)	C1						
21		(ATP) Adenosine Triphos- phalic relationship with	Discuss Adenosine Triphosphalic relationship with catabo- lism and anabolism	C2			Interactive	1	MCO's	2
22	Wook 5	Catabolism and Anabolism, Definitions of Glucone-	Define gluconeogenesis/glycogenesis/glycogenolysis/trans & de-amination, ketosis	C1			Lecture/SGD		moqu	_
23	Week-J	Glycogenolysis, Transam- ination, Deamination &	Discuss carbohydrate, protein & fats in terms of Glycolysis, Krebs Cycle, Electron Trans.	C2						
24		Ketosis, Carbohydrate,	Demonstrate to calculate the BMR of a patient		P4		Demo			
25		of Glycolysis, Krebs Cycle, Electron Transport and BMR Calculation.	Provide acceptable assistance and explanation to patient during the calculation of BMR			A5	Role Play	3	OSPE	7
			TOPIC: CHEMISTRY OF CARBOHYDRAT	ES						
26		Structure of Carbohydrates.	Define carbohydrates	C1						
27		Classification of Carbohy-	Describe the general structure of carbohydrates	C2						
28		drates, Properties of Car- bohydrates, Biological sig-	Explain the classification of carbohydrate.	C2			Interactive	1	MCO's	2
29	Week-6	nificance of Carbohydrates, Major Classes; Monosac-	Compare three classes of carbohydrates; monosaccharide, disaccharide & polysaccharide	C3			Lecture/SGD		moqu	_
30		charide, Disaccharide & Polysaccharide, Significance	Discuss the biological significance of carbohydrates	C2						
31		of Carbohydrates.	Perform Benedict's Test for reducing the sugars		P3		Demo			
32		Perform Benedict's Test for Reducing the Sugars	Follow professional norms while performing the Benedict's Test for reducing the sugars			A3	Role Play	3	OSPE	7
			TOPIC: CHEMISTRY OF LIPIDS							

C No.	Mooks	Contont	Learning Outcome		Domair	า	MIT's	Time/	Accormont	No of
3.100	vveeks	Content		С	Р	Α	IVITS	Hours	Assesment	Items
33		Structure of Lipids, Prop- erties of Lipids, Biolog-	Describes the structure and general properties of lipids and fatty acids	C2			Interactive	2	MCO's	F
34	Week-7	ical Significance of Lipid Classification, Simple and	Discuss the classification of lipids that is simple, compound & derived lipids	C2			Lecture/SGD	2	IVICQ S	Э
35		Lipids, Fatty Acids, Fats & Oil, Saturated and Unsatu-	Draw the difference between saturated and unsaturated fats through charts		P3		Demo	2	OSPE	5
36		rated Fatty Acids, Uses of	Distinguish between soap and detergents	C4						
37	Week-8	and Chemical Properties	Discuss the role of phospholipids in cell membranes	C2			Interactive	4	MCQ's	9
38		of Fats.	Explain the role of steroids (cholesterol)	C2			20000.0,000			
			TOPIC: CHEMISTRY OF PROTEINS							
39		General Chemistry Compo-	Discuss the general structure of amino acids	C2						
40		Sition, Amphoteric Nature, Dipeptides of Amino Acids	Discuss essential, non-essential amino acid, polar, non-po- lar amino acid-Zwitter ion	C2						
41		Secondary and Tertiary Proteins, Quaternary, Func-	Classify proteins according to solubility, composition, function and shape	C3						
42	Week-9	tions of Proteins, Biological	Explain the significance of protein Denaturation	C2			Interactive	4	MCQ's	9
43		Classification of Proteins	Discuss the structure of dipeptides and tripeptides	C2			Lecture/SGD			
44		on the basis of Solubility, Composition, Biological Functions, Properties of Proteins (Colloidal Nature, Denaturation of Protein)	Describe the primary, secondary, tertiary and quaternary structure of protein	C2						
			TOPIC: NUCLEIC ACID & NUCLEOTIDE	Ξ						
45		Review of the Cell,	Describe the main structural features of nucleotide.	C2						
46		Structure of Nucleic Acid, Chemistry of Nucleic Acid,	Explain the structure of RNA & DNA	C2			_			
47	Week-10	Nucle-osides and Nucleo-	Construct the main differences between DNA & RNA	C3			Interactive	4	MCO's	9
48		tides, Structure of DNA & RNA, Functions of Nucleic Acid, Biological importance of Nucleotides	Discuss the biological importance of nucleotides	C2			Lecture/SGD		ince 3	
			TOPIC: ENZYMOLOGY							

S.No Weeks	Maaka	Contont	Learning Outcome	Learning Outcome	Domair	า	NALT'S	Time/	Accorrect	No of
5.110	VVEEKS	Content		С	Р	Α	IVITS	Hours	Assesment	Items
49		Importance of Enzymes,	Discuss the importance of enzymes.	C2						
50		Enzyme as Protein Prop-	Explain the mode of enzyme activity.	C2						
51		Specificity, Mechanism of	Distinguish between apoenzymes, coenzymes & co factors	C4						
52		Enzyme Action, Acti-	Distinguish between activators and inhibitors	C4			Interactive	1	MCO's	2
53	Week-11	vators and Inhibitors, Factors affecting Enzymes Activity (Concentration	Understand inhibition of enzyme activity in competitive, non & un competitive states	C1			Lecture/SGD			_
54		Ph, Temperature, Time),	Describe the classification of enzymes	C2						
55		Co-Enzymes & its Classifi-	Explain the factors affecting the enzyme activity.	C2						
56		Medicines, Perform and	Demonstrate to explain the Michalis Menten's Equation		P3		Demo			
57		Explain Michalis Menten's Equation	Follow the professional and ethical norms to explain the Michalis Menten's Equation			A3	Role Play	3	OSPE	7
			TOPIC: BIO-ENERGETIC AND METABOLI	SM						
58		Definition of Bioenergetics,	Define Bioenergetics	C1						
59		Biogenetic Metabolism,	Briefly discuss the concept of free energy	C2						
60	Week-12	Biological Oxidation, Oxi- da-tion Electron Transport Chain	Explain the role of ATP in Linking Catabolism and anabo- lism	C2			Interactive	4	MCQ's	9
61		Electron Carriers, Biological	Discuss the biological oxidation and reduction reaction	C2						
62		Redox Reaction	Differentiate electron transport chain and oxidative phos- phorylation	C3						
			TOPIC: METABOLISM OF CARBOHYDRA	TES						
63		Metabolism of Carbohy- drates, Importance of Glu-	Describe the importance of glucose in blood and its de- pendency by various	C2						
64		cose in Blood, Glycogensis	Discuss the glycogenesis and glycogenolysis	C2						
65	Week-13	Oxidative Glucose Catabo- lism in the Citric Acid Cycle,	Describe the role of oxidative glucose catabolism in the citric acid cycle.	C2			Interactive Lecture/SGD	4	MCQ's	9
66		Role of Gluconeogenesis,	Describe the role of Gluconeogenesis	C2						
67		Metabolism.	Discuss the overall scheme of carbohydrate metabolism	C2						
			TOPIC: METABOLISM OF FATS							

S No We	Maaka	Contont	Learning Outcome	Domain			NALT'S	Time/	Accormont	No of
5.110	vveeks	Content		С	Р	Α	IVITS	Hours	Assesment	Items
68		Mechanism of Fatty Acid	Describe the mechanism of fatty acid oxidation	C2						
69		Oxidation, Energy Pro- duced during the Oxidation	Discuss the amount of energy produced during the oxida- tion of a fat.	C2			Interactive Lecture/SGD	1	MCQ's	2
70	Week-14	of a Fat, Significance of the Role of	Explain the significance of the role of ketones bodies	C2						
71		Ketones Bodies.	Perform the Emulsion Test in Lab		P3		Demo		OSPE	
72		Perform Emulsion Test in Lab	Give value to the professional norms while performing the Emulsion Test in Lab			A3	Role Play	3		7
			TOPIC: METABOLISM OF PROTEIN							
73		Review the Digestion and	Review the digestion and absorption of protein.	C1						
74		Absorption of Proteins, General Pathway of Protein Metabolism, De-Amination, Significance of Nitrogen Balance, Synthesis of Pro-	Explain the significance of nitrogen balance	C2						
75			Describe the synthesis of protein	C2			Interactive	1	MCO's	2
76	Week-15		Differentiate the transamination, deamination and decar- boxylation	C3			Lecture/SGD			_
77		tein, Transamination and Decaboxylation Formation	Discuss the formation of urea and ammonia disposal	C2						
78		of Urea and Ammonia	Demonstrate the Ninhydrin Test		P3		Demo			
79		Disposal Perform Ninhydrin Test	Give value to professional and ethical norms while per- forming Ninhydrin Test			A3	Role Play	3	OSPE	7
			TOPIC: HORMONES COMMUNICATION CELL	S/TISSU	E					
80			Describes the classification of hormone	C2						
81		Classification of Hormone,	Discuss the mode function of steroid & peptides hor- mones.	C2			Interactive	1	MCQ's	2
82	Week-16	ek-16 Function of Steroid & Pep- tides Hormones, Cardiac,	Interpret to become familiar with cardiac, pineal and gas- trointestinal hormones	C3			Lecture/SGD			
83		Hormones.	Perform to calculate the total body density of the cell		P3		Demo			
84		F b	Follow the professional norms while calculating the total body density of the cell			A3	Role Play	3	OSPE	7

NU-105 ENGLISH-I 2(2-0)

Course Description

This course is designed to acquaint students to build students' conversation confidence. It provides them with speaking models that will help them in exchange of greetings, ideas, thought and feelings. it focuses on building students' confidence to speak fluently and persuasively before an audience. It also aims at establishing the importance of presentation skills in clinical context. it build students verbal skills by making them aware of different categories of lexical items and enabling students to make appropriate use of specified grammatical items.

This course enabling students to read and comprehend fairly complex, unfamiliar, nursing and non-nursing, authentic texts with appropriate speed and adequate understanding. Help students with an evaluation criterion for writing correct and informative field visit reports.

Cognitive Domain

By the end of this subject, students should be able to:

- 1. Describe basic concept of basic grammar
- 2. Explain Parts of Speech its types and discuss that how same words use as different parts of speech.
- 3. Explain Parts of Speech its types and discuss that how same words use as different parts of speech.
- 4. justify critical thinking and conversational skills
- 5. Understand the Do's and Don'ts in Presentation
- 6. Distinguish Descriptive, narrative, expository and Narrative Paragraphs

Skills Domain

By the end of this subject, students should be able to:

- 1. Practice on general topics and every-day conversation with questions answers sessions.
- 2. Give presentations individually and in groups to showcase the latent talent
- 3. Organize the procedure to improve their communication skills

Affective Domain

- 1. punctuality. Follow the specified norms of the IL, SGD teaching & learning.
- 2. Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with human models, colleagues and teachers.
- 3. Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.

TOS -NU-105 ENGIISH-I 2(2-0)

S No	Weeks	Content	Learning Outcome		Domair	า	MIT's	Time/	Assessment	No of	
3.110				С	Р	Α	IVIT S	Hours	Assesment	Items	
	TOPIC: ORAL COMMUNICATION										
1			Discuss an effective greeting approach	C2							
2	Wook 1		Start and finish a conversation	C2			Interactive	2	MCO's	5	
3	VVEEK-1	Greet People, Telephone	Relate how to engage in a telephonic conversation	C3			Lecture/SGD	2	IVICQ S	5	
4		conversation, Giving Com- pliments, Congratula-tions/	Choose proper wording for complements	C3							
5		Sympathy, Express feeling,	Learn how to extend congratulation and sympathy	C1					MCQ's		
6	Week-2	Ask for Information/Expla-	Discuss how to express the feelings	C2			Interactive	2		5	
7		and Ideas, Suggest/Advise/	Learn how to ask for an information or explanation	C1			200000,000				
8		Persuade/Insist Etc.	Learn that how to express opinions and ideas	C1			Interactive		MCQ's		
9	Week-3		Learn that how to give suggestion, advise, persuade and insist etc,	C1			Lecture/SGD	2		5	
	TOPIC: ORAL PRESENTATIONS										
11			Identify elements of a good presentation.	C1			Intoractivo	2			
12	Week-4	Elements of a Good	Enlist and Select topics of common interest and share useful information	C1			Lecture/SGD		MCQ's	5	
13		Presentation, Topics Of Common Interest, Prepare	Prepare a good presentation using a variety of strategies/ modes to convey ideas		P4		Demo				
14	Week-5	and Organize a Good Presentation With Multiple Strategies, Handle Ques-	Follow the standard and professional norms to have a good presentation			А	Role Play	2	MCQ's	5	
15		tions , Thought-Provoking Discussions, Key Points	Discuss that how to express thoughts while handling ques- tions directed from the audience	C2			Interactive Lecture/SGD				
16	Week 6		Discuss how to extend thought-provoking discussions.	C2			Interactive	2	MCO's	5	
17	ллеек-о	6 D	Discuss to wrap up convincingly, restating the key points.	C2			Lecture/SGD	2	MCQ's		
			TOPIC: VOCABULARY								

S No.	Mooks	Contont	Learning Outcome	Domain			NALT'S	Time/	Assessment	No of
5.INO	vveeks	Content		С	Р	Α	IVITIS	Hours	Assesment	ltems
18			Learn that how to use the dictionary	C1						
19	Week-7	Use of Dictionary, Parts	Identify various parts of speech	C1			Interactive	2	MCQ's	5
20		Common Suffixes and	Discuss how to enhance the knowledge of root words	C2			200000,000			
21		Prefixes Used in Medi- cal Terminology, Use Of	Learn some of the common suffixes and prefixes used in medical terminology	C1					MCQ's	
22	Week-8	Describe Physical Ailments, Idioms and Phrasal Verbs in	Discuss uses of idiomatic phrases used to describe physical ailments	C2			Interactive Lecture/SGD	2		5
23		General	Discuss how to extend the knowledge of idioms and phrasal verbs in general.	C2			-			
			TOPIC: GRAMMAR							
24			Learn to use sentences and paragraphs using appropriate form of present and past tense	C1						
25	Week-9		Differentiate between present perfect and past simple tenses	C4			Lecture/SGD	2	MCQ's	5
26		Tenses, Sentences and	Understand the subject verb agreement in sentences	C1						
27		Order, Active & Passive, Direct and Indirect Speech, Use of Definite and Indefi- nite Article, Prepositions	Write sentences using the correct word order	C2						
28	Week-10		Learn to convert active sentences into passive and vice versa	C1			Interactive Lecture/SGD	2	MCQ's	5
29			Explain that how to change direct speech into indirect speech and vice versa	C2						
30	M/2 - 1. 11		Use the definite and indefinite articles correctly	C3			Interactive	2	NICOL	F
31	vveek-11		Insert correct prepositions of time and place in sentences.	C4			Lecture/SGD	2	IVICQ S	5
			TOPIC: READING COMPREHENSION							
32	Week-12	Content, Text Through	Discuss how to predict content of text through titles, subtitles, non-linguistic devices	C3			Interactive	2	MCQ's	5
33		Titles, Subtitles, Non-Lin-	Interpret the main idea through skimming	C3			Lecture/SGD			
34		Information Through Scan- ning, Inferring Meaning of	Explain how to locate specific points of information through scanning	C2						
35	Week-13	Words, Cohesive Devic- es, Questions of Literal	Develop the skill of inferring meaning of a word by considering its context	C3			Interactive Lecture/SGD	2	MCQ's	5
36		comprehension, Respond to Questions Involvina	Recognize cohesive devices.	C1						
37		Re-Interpretation, Respond	Discuss questions of literal comprehension	C2						
38	Week-14	to Questions Of Personal Response	Explain questions involving re-interpretation and inference	C2				2	MCQ's	5
39		Response	Explain questions of personal response.	C2						

S No.	Weeks	Content	Learning Outcome	Domain				MIT's	Time/	Assesment	No of
3.110				С	Р		А	IVIT S	Hours	Assesment	Items
	TOPIC: REPORT WRITING										
40	Wook 1E	eek-15 Provide Biographical Infor- mation, Document Obser- vations Critically, Establish Purpose and Functions,	Enlist biographical information of the field	C1				Interactive Lecture/SGD Interactive Lecture/SGD	2	MCQ's	E
41	Week-15		Illustrate observations critically	C4							5
42			Establish purpose and function of the visit	C5							
43	Week-16	Writing Legible and Logical Report	Write a legible report with ideas following logically from one point to another	C1					2	MCQ's	5

NU-106 COMPUTER SKILLS 1(1-0)

Course Description

The purpose of this course is to give the learners a basic understanding of computers and describe the use of information technology in the modern world. Learners will learn how to use the software programmes which include Word, Excel, Access, PowerPoint, and Outlook. The course is intended to augment the computer skills required in clinical and scholastic settings. Learners will study computer applications in nursing education and practice. A large focus will be on utilizing these technologies are shaping today's health care information system.

Cognitive Domain

By the end of this subject, students should be able to:

- 1. Discuss computer skills, application and how it affects nursing practice, and education.
- 2. Discuss skills in the use of a word processor (Microsoft Word), spreadsheet/data base (Microsoft Excel).
- 3. Describe skills in preparing materials for presentation by slide, overhead, or computer projection (multimedia) using presentation software (PowerPoint).
- 4. Discuss skills in accessing national/international networks, engines and databases using a virtual private network.
- 5. Verbalize understanding of Internet and its use, value, and efficacy in communicating nursing knowledge.
- 6. Identify the use of computers in our own area of nursing practice
- 7. Illustrate the effective use of computer and its software's in nursing where necessary.

Skills Domain

By the end of this subject, students should be able to:

- 1. Demonstrate step by step antivirus installation and up gradation.
- 2. Perform to use internet and email.
- 3. Demonstrate how to use search engines.
- 4. Demonstrate to use office button, save, save as and quick access toolbar.
- 5. Perform how to cut, copy, paste, bold, italic, font type and size the text.
- 6. Observe text alignment, bullets, borders, shading and sorting.
- 7. Prepare tables, pictures, clip arts, shapes, headers & footers, smart art charts.
- 8. Perform to make text box, word art, drop cap and symbols.
- 9. Perform water mark, page color and page boarders on a document.
- 10. Prepare MS Power Point and its Interface.
- 11. Prepare tables, pictures, clip arts, shapes, smart art and charts.
- 12. Prepare background styles and hide background graphics.
- 13. Demonstrate slide show tab its groups and commands.
- 14. Observe how to merge cell, conditional formatting as table.
- 15. Observe automatic series generation, automatic calculations.

Affective Domain

- 1. Demonstrate punctuality. Follow the specified norms of the IL, SGD teaching & learning.
- 2. Demonstrate the humbleness and use the socially acceptable language during academic and social interactions with human models, colleagues and teachers.
- 3. Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.

TOS -NU-106 COMPUTER SKILLS 1(1-0)

S No W	Mooks	Contont	Learning Outcome		Domair	า	MIT's	Time/	Assessment	No of
3.110	VVEEKS	Content		С	Р	Α	IVITIS	Hours	Assesment	Items
			TOPIC: INTRODUCTION TO COMPUT	ER						
1		Definitions of Computer	Define Computer	C1						
2	Wook-1	and related Terms, Defi-	Define Data	C1			Interactive	1	MCO's	5
3	WEEKT	Data (Numerical, Alphabet- ic and Alpha Numeric Data)	Explain numerical, alphabetic, and alpha numeric data	C2			Lecture/SGD		MCQ 3	5
			TOPIC: DATA AND INFORMATION							
4		eek-1 Inition and Description of Data (Numerical, Alphabet-ic and Alpha Numeric Data) ic and Alpha Numeric Data) eek-2 Definition of Information, Difference between Data and Information, Data Processing in Computer. ieek-3 Definitions of Input and Output Unit, Computer Memory, Arithmetic Logic Unit – ALU, Control Unit ieek-4 Characteristics of Computer, The Number System. ieek-5 Definition of Software and its Types, Types of System Software Including Operating System and Translators, Application Software Including Comparison of Software Including Comparison Software Including Comparison Software Including Co	Define Information	C1					MCQ's	5
5	Week-2 Week-3 Week-4 Week-4 E		Distinguish between data and information	C4			Interactive	1		
6		cessing in Computer.	Explain data processing	C2			Lecture/JGD			
			TOPIC: BASIC UNITS OF COMPUTER							
7		eek-3 Definitions of Input and Output Unit, Computer Memory, Arithmetic Logic Unit – ALU, Control Unit	Distinguish among input, output unit and memory	C4				1		
8	Week-3		Explain Arithmetic Logic Unit – ALU	C2			Interactive		MCQ's	5
9		Unit – ALU, Control Unit	Discuss control unit	C2			Lecture/SGD			
	TOPIC: LANGUAGE AND NUMBER SYSTEM									
10		Characteristics of Comput-	Enlist characteristics of computer	C1			Interactive	1		5
11	Week-4	er, Languages in Computer,	Define Languages in computer	C2					MCQ's	
12		The Number System.	Discuss the number system	C2		Interacti				
			TOPIC: SYSTEM AND APPLICATION SOFT	WARE						
13		Definition of Software and its Types, Types of System	Discuss software and its types including operating system & translators	C2						
14	Week-5	Software Including Oper- ating System and Transla- tors, Application Software i.e. General and Specific Purpose Softwares	Employ the application software i.e. general and specific purpose softwares	C3			Interactive Lecture/SGD	1	MCQ's	5
			TOPIC: INTERNET AND SECURITY							
15		Computer Virus and	Explain computer virus and its types	C2						
16		its Types, Step by Step Antivirus Installation and	Discuss step by step antivirus installation and up gradation	C2						
17	Week-6	Up Gradation, Computer	Define computer network and its types	C2			Interactive	1	MCQ's	5
18		Network and Its Types, Use	Discuss use internet and email	C2			Lecture/SGD			
19		Search Engines.	Discuss how to use search engines	C2						

S No	Wooks	Content	Learning Outcome		Domain		MIT's	Time/	Assesment	No of
3.110	WEEKS			С	Р	Α		Hours	Assesment	Items
			TOPIC: MS WORD	1						
20		MC Word and its Interface	Define MS word and its interface	C1						
21		Ribbon and its Parts, Use	Discuss ribbon and its parts	C2						
22	Week-7	Office Button, Save, Save as and Quick Access Toolbar, Home Tab. Its Groups and	Discuss to use office button, save, save as and quick access toolbar	C2			Interactive	1	MCQ's	5
23		Commands, How to Cut,	Describe home tab, its groups and commands	C2						
24		Font Type and Size the Text, Size	Discuss how to cut, copy, paste, bold, italic, font type and size the text	C2						
25		Text Highlighting, Text Color and Text Formatting,	Understand text highlighting, text color and text format- ting	C1					MCQ's	
26		Text Alignment, Bullets, Borders, Shading and Sorting, The Insert Tab, Its Groups and Commands, Make (Cover Page Blank	Discuss text alignment, bullets, borders, shading and sorting	C2				1		5
27	Week-8		Discuss text alignment, bullets, borders, shading and sort- ing professionally	C2			Interactive			
28		Page, Page Break, Page	Understand how to insert tab, its groups and commands	C1			Lecture/SGD			
29		Numbers), Preparation (Tables, Pictures, Clip Arts,	Learn that how to make cover page, blank page, page break, page numbers	C1						
30		ers, Smart Art And Charts),	Explain and Prepare tables, pictures, clip arts, shapes, headers & footers, smart art charts	C2						
31		How to Make Text Box, Word Art, Drop Cap and	Discuss how to make text box, word art, drop cap and symbols	C2						
32		Symbols, How to Make	Explain page layout tab its groups and commands	C2						
33	Week-9	and Commands, Make (Themes, Colors,	Understand that how to make theme, colors, fonts, effects margins, columns	C1			Interactive Lecture/SGD	1	MCO's	5
34	34 Week-9	Fonts and Effects Margins, Orientations, Size and Columns) and How to Put Water Mark, Page Color and Page Boarders on a Document.	Discuss how to water mark, page color and page boarders on a document	c2					MCQ's	5
			TOPIC: MS POWER POINT							

S No Weeks	Mooke	Content	Learning Outcome	Domain			NALT'S	Time/	Assesment	No of
5.110	VVEEKS			С	Р	Α	IVITS	Hours	Assesment	Items
35		Preparation of MS Power	Discuss MS Power Point and its Interface	C2						
36	Week-10	Point and its Interface, Home Tab, Its Groups and	Discuss MS PowerPoint and Its Interface with acceptable standards	C2			Interactive	1	MCO's	5
37		Slide, Reset and Delete	Describe home tab, its groups and commands	C2			Lecture/SGD			
38		Slide.	Learn to prepare new slide, reset and delete slide	C1						
39		Putting Tables, Pictures,	Prepare tables, pictures, clip arts, shapes, smart art and charts		P3		Demo			
40	Week-11	Clip Arts, Shapes, Smart Art and Charts, Insert Text Box,	Follow professional standards while making the tables, clip art or charts			A3	Role Play	1	MCQ's	5
41		Header, Footer, Word Art, Movie and Sound, Tab Its Groups and Command,	Learn how to Insert text box, header, footer, word art, movie and sound	C1			Interactive			
42		· · ·	Discuss tab its groups and command	C2			Lecture/SGD			
43		Page Setup, Slide Ori-	Distinguish that how to insert page setup, slide orienta- tions and themes	C4			Interactive Lecture/SGD		MCQ's	
44		entations and Themes, Background Styles and Hide Background Graphics, Animation Tab Its Groups and Commands.	Prepare background styles and hide background graphics		P3		Demo			5
45	Week-12		Follow standard to prepare background styles and hide background graphics			A3	Role Play	1		
46			Learn to insert animation tab its groups and commands	C1			Interactive Lecture/SGD			
47		Cutom Animations and	Discuss custom animations and transitions	C2			Interactive			
48		Transitions, Put Transition's	Comprehend to put transition's sound and speed	C2			Lecture/SGD			
49	Week-13	Sound and Speed, Slide	Demonstrate slide show tab its groups and commands		P4		Demo	1	MCQ's	5
50		Commands.	Follow the instructions to demonstrate the show on power- point slides			A5	Role Play			
51	Week-11	Slide Show from Begin- ning, From Current Slide	Learn the slide show from beginning, from current slide & custom show	C1			Interactive	1	MCO's	F
52	WEEK 14	and Custom Slide Show, Slide Show and Hide Slides.	Understand the setup of slide show and hide slides	C1			Lecture/SGD		MCQ 3	5
			TOPIC: MS EXCEL							
53			Define cell, rows, columns and sheets	C1			Interactive			
54		Definitions of Cell, Rows,	Explain formula	C2			Lecture/SGD			
55	Week-15	mula, How to Merge Cells, Conditional Formatting,	Observe how to merge cells, conditional formatting, for- mat as table		P1		Demo 1 Role Play	1	MCQ's	4
56		Format as Table.	Observe process of merging cells and conditional format as table properly			A1				

C No.	Weeks	Content	Learning Outcome	Domain			MIT'c	Time/	Accormont	No of
5.110				С	Р	Α	IVIT S	Hours	Assesment	Items
57	Cell Styles	Cell Styles, Sort and Filter	Discuss cell styles, sort and filter, find and select	C2			Interactive Lecture/SGD		MCO/a	
58	Wook 16	Find and Select, Auto- matic Series Generation,	Observe automatic series generation, automatic calcula- tions		P1		Demo	1		F
59	Week-16 Automatic Calculations, How to Create DMCs and Merit Lists	Properly follow the instruction while observing automatic series genera-tion			A1	Role Play		INICQ S	5	
60		Discuss how to create DMCs and merit lists	C2			Interactive Lecture/SGD				

Recommended Text Books

FUNDAMENTALS OF NURSING-I

- Carpinito L. J. (2009). Nursing Care Plans & Documentation: Nursing Diagnosis and Collaborative Problem (5th Ed.) Philadelphia: Lippincott
- Craven, R. F., & Hirnle, C. J. (2013). Fundamentals of Nursing: Human Health and Function. (7th Ed.). New York: Lippincott.
- Delaune, S. C., & Ladner, P. K. (2011). Fundamentals of Nursing: Standards and Practice.
- Erb, G. K., B. (2000). Fundamentals of Nursing: Concepts, Process and Practice (5th Ed.) Addison: Wesley.
- Potter, P. A & Perry, A. G. (2007). Basic Nursing: Essentials for Practice (6th ed.) St. Louis: Mosby.

MICROBIOLOGY

- Atlas, M, R. (1989). Microbiology. New York: McMillan Publishing.
- Bocock, J. E. (1972). Microbiology for Nurses. London: Bailliere Tindall.
- Colee, J. G. (1981). Applied Medical Microbiology. New York: Blackwell Scientific.
- Gladwin, M. (2019). Clinical Microbiology made ridiculously simple. 7th ed Singapore: Med Master.
- Gupte, S. (1990). Practice Microbiology. New Delhi: Jaypee Brothers Medical.
- Hare, R. (1980). Bacteriology and Immunity for Nurses. London: Longman Group.
- Inglis, J. J. T. (2007). Microbiology and Infection.3rd ed, New York: Churchill Livingstone.
- Jawetz, R. Medical Microbiology. London: Appleton and Lange 28th Ed.
- Parker, M. J. (1991). Microbiology for Nurses. 6th Ed London: Bailliere Tindall.
- Stucke, A. V. (1993). Microbiology for Nurses. London: Bailliere Tindal.

ANATOMY AND PHYSIOLOGY-I

- Ross & Wilson.(2018) Anatomy and Physiology in Health & Illness; Edinburgh: Churchill, 13th Edition
- Guyton, A. C. (2021). Medical Physiology (14th ed) Washington: Kirokawa.
- Tortora, G. J. (2019). Principles of Human Anatomy and Physiology (14th ed). New York: Happer & Row

BIOCHEMISTRY FOR NURSES 3(2-1)

- Jacob A. (2008). Biochemistry for Nurses, 2nd Ed. New-Delhi: Jaypee Brothers.
- Chatterjea MN. (2009) Textbook of Biochemistry for Dental /Nursing / Pharmacy Students 3rd Ed, New Delhi Jaypee.
- Sackhiem, G. I. (1994).In Chemistry for the Health Science, 7th Ed, New York: Macmillan.
- Tortora, G. J. (2019). Principles of Human Anatomy and Physiology (14th ed). New York: Happer & RowYork: Harper & Row.
- Lehninger N. I (1997) Principles of Biochemistry, 2nd Ed, New York: Worth.

ENGLISH

- Barnet, S., & Bedan, H. (1996). Current issues and enduring questions: A guide to critical thinking argument with reading (4th ed.). Boston: Bedford.
- Davidson, G. (2005). Get your message across: Improve your spelling. London: Penguin.
- Eastwood, J. (2004). Oxford practice grammar. Karachi: Oxford University Press. .
- Howe, D. H., Kirkpatrick, T. A., & Kirkpatrick, D. L. (2004). English for undergraduates. Karachi: Oxford University Press.
- Maker, J., & Lenie, M. (1996). Academic reading with active critical thinking. Cambridge: Wadsworth.
- Murphy, R. (2004). Murphy's English Grammar (3rd ed.). New Delhi: Cambridge University Press.
- Kirkpatrick, B. (2004). English for social interaction: Social expressions. Singapore: Learners Publishing.

• Seaton, A. (2004). Understanding spelling: Making sense of the rules, exceptions, and word formation. Singapore: Learners Publishing.

COMPUTER SKILLS 1

- Arnold, J. M., & Pearson, G. A. (1992). Computer Applications in Nursing Education and Practice. New York: National League of Nursing.
- Saba, V. K., & McCormick, K. A. (1995). Essentials of Computers for Nurses. New York: McGraw Hill.
- Thede. L. Q. (1999). Computers in Nursing: Bridges to the Future. Philadelphia: Lippincott.



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