

KHYBER MEDICAL UNIVERSITY

GENERIC B.SC NURSING CURRICULUM

YEAR ONE STUDY GUIDE

(SEMESTER 1)

16 Weeks Activity Planner

2024-25

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

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Introduction

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 pre-serve the leadership in providing quality education across Pakis9tan 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.

The Central Curriculum & Assessment Committee is as follows:

Dr. Brekhna Jamil	Chairperson	Director Institute of Health Professions Education & 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	Deputy Dean Medical Profession- al Education Department Alliance Healthcare (PVT) LTD
Sardar Ali	Member	Assistant Professor Institute of Nursing Khyber Medical University
Muhammad Asif Zeb	Member	Lecturer Institute of ParaMedical Sciences Khyber Medical University
Syed Amin Ullah	Member	Assistant Director Academics Khyber Medical University

INTRODUCTION

The B.S (Generic) Nursing Programme aspires to prepare nurses in a multidisn-ciplinary 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 vari¬ous 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.
- 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 3(2-1)	16 weeks
2	NU-102 MICROBIOLOGY 2(1.5-0.5)	16 weeks
3	NU-103 ANATOMY & PHYSIOLOGY-I 3(2-1)	16 weeks
4	NU-104 BIOCHEMISTRY 2(1.5-0.5)	16 weeks
5	NU-105 ENGLISH –FUNCTIONAL ENGLISH 3(0-0)	16 weeks
6	NU-106 INFORMATION AND COMMUNICATION TECHNOLOGY 2(2-0)	16 weeks
7	NU-107 IDEOLOGY AND CONSTITUTION OF PAKISTAN 2(2-0)	16 weeks

1st Semester

NU-101 FUNDAMENTALS OF NURS-ING-I 3(2-1)

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 historical development of health care and nursing
- Discuss the role of national and international nursing Leaders and their contributions to the profession of nursing.
- 3. Differentiate profession and occupation.
- 4. Compare and contrast definitions of nursing by different Nursing Scholars
- 5. Describe the role of a professional nurse.
- Differentiate between the different basic concepts of theories of nursing.
- 7. Differentiate between different models of Health.
- 8. Explain the Health status, Health beliefs models, and Health practices.
- 9. Prioritize patient problems by utilizing a hierarchy of needs.
- 10. Apply the nursing process to manage human responses of clients to their actual or potential health problems.
- 11. Apply therapeutic communication and decision-making skills to involve client in decision-making regarding his/her healthcare.
- 12. Assess cultural, spiritual, and bio-psychosocial factors when arriving at

- nursing diagnoses and interventions for individual clients.
- 13. Identify the Scope of nursing practice in Pakistan.

Skills Domain

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

- 1. Demonstrate Clinical skills for assessing and managing patients.
- Demonstrate safe practice of selected fundamental nursing procedures which apply to client's comfort, hygiene, safety, mobility, physiologic functions, and psychosocial health.

Affective Domain

- Follow the specified norms of the IL, SGD teaching & learning.
- 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 3(2-1)

S.No	Weeks	Content	Learning Outcomes		Domair	1	MIT's	Hours Assesment	No of	
3.110	vveeks	Content	Learning Outcomes	С	Р	Α	IVIII 5	Hours	Assesment	Items
			TOPIC: HISTORY OF HEALTH CARE AND NU	IRSING						
1		Nursing	Define nursing.	C1						
2		Definitions by Scholars	Compare/Contrast definitions of nursing by different nursing scholars.	C2						
3		Nursing Leadars / Foundars	Discuss the summarized form of health care concepts and sites in ancient cultures.	C2				2	MCQ's	
4			Discuss the philosophical work of leaders and founders in nursing at na-tional and international levels.	C2						
5		Care in Islam	Relate the concepts of care in Islam and nursing.	C4			Interactive			5
6		Historical Perspectives	Explain the historical perspectives regarding the foundation of nursing.	C2			Lecture/SGD			
7	Week-1	Nursing in Mughal Era	Discuss the concepts of health care and nursing in Mughal era.	C3						
8		Nursing Definition by WHO	Define nursing with the perspective of World Health Organization.	C1						
9		Nursing Programs	Describe the various educational programs in nursing briefly.	C2						
10			Explain the history of nursing education in Pakistan.	C2						
11		Practical	Demonstrate reception and orientation of a patient to the hospital setting.		P4		Demo		OPSE	
12			Follow the standards and policies of hospital reception and orientation.			А	Role Play	3	Formative Assess- ment	5

			TOPIC: ROLES OF THE NURSE IN HEALTH	CARE						
13		Profession	Define a profession.	C1						
14		Profession and Occupation	Differentiate a profession and occupation.	C4						
15		Characteristics of Profession	Enlist the characteristics of a profession.	C1						
16		Roles and Functions	Identify the roles and functions of health care team members.	C1						
17		Role of Nurse in Health Care	Describe the role of a professional nurse in Health Care.	C2			Interactive Lecture/SGD	2	MCQ's	5
18	Week-2	Career Roles in Nursing	Discuss the career roles in nursing profession.	C2						
19	770011 2	Different Nurses Roles	Describe the various roles of a nurse in a health care system.	С3						
20		Health Team Members	Understand and observe the coordination of patients' care between the health team members.	C5						
21		Scope of Nursing Practice	Identify the Scope of nursing practice in Pakistan.	C1						
			Demonstrate to prepare occupied and unoccupied bed making for the patient.		P4		Demo		OPSE	
22	22	Practical	Provide morally acceptable care to the patient while making bed for pa-tients.			А	Role Play	3	Formative Assess- ment	5

			TOPIC: CONCEPTS, NEEDS AND GOALS OF N	NURSIN	G					
23		Basic Human Needs	Define basic human needs.	C1						
24		Need Theory	Discuss Maslow's Hierarchy of Needs theory.	C2						
25		Hierarchy of Needs	Prioritize patient problems by utilizing a hierarchy of needs.	C3						
26		Models of Health	Differentiate between different models of Health.	C4						
27		Basis of Nursing Practice	Explain the Health status, Health beliefs models, and Health practices.	C2			Interactive	2	MCQ's	5
28		Theories of Nursing	Differentiate between the different basic concepts of theories of nursing.	C4			Lecture/SGD		WCQ3	3
29	Week-3	Goals of Nursing	Discuss goals and application of nursing process.	C2						
30		Diagnosis and Intervention	Assess cultural, spiritual, and bio-psychosocial factors related to diagnoses and relevant interventions.	C6						
31		Nursing Process	Apply nursing process to manage human responses of clients to their actu-al/potential problems.	C3						
32		Practical	Provide hygiene care (mouth care, hand and foot care, clothing etc.) to the patient as per patient need.		P4		Demo	3	OPSE	5
33		i rocticu.	Provide safe and respectful personal hygiene care as per patients need.			А	Role Play	3	Formative Assess- ment	
			TOPIC: COMMUNICATION SKILLS							
34		Communication	Define communication, elements of communication, and ways of communication.	C1						
35		Therapeutic Communication	Discuss therapeutic communication.	C2						
36		Characteristics	Identify the characteristics of the effective verbal communication.	C1						
37		Influencing Factors	Describe factors that's facilitates and interfere with the effective communication.	C2			Interactive Lecture/SGD	2	MCQ's	5
38	Week-4	Techniques of Communication	Discuss techniques that facilitate and interfere with therapeutic communication.	C2						
39		Ways to Respond	Define ways to respond therapeutically and non-therapeutically.	C1						
40		Application of Communication	Apply therapeutic communication and decision-making skills to involve client in his or her healthcare.	C3						
41			Demonstrate therapeutic communication techniques while taking patient history.		P4		Demo		OPSE	
42	Practical	Respect the patient needs and concerns while taking history of the patient.			А	Role Play	3	Formative Assess- ment	5	

			TOPIC: NURSING SKILLS (VITAL SIGNS) TEMP	ERATUI	RE					
43		Vital Signs	Discuss vital signs and the relevant terms including pain.	C2						
44		Physiological Concept	Describe the physiological concept of body temperature.	C1						
45		Thermoregulation	Describe the principles and mechanisms for normal thermoregulation in the body.	C1			Interactive Lecture/SGD	2	MCQ's	5
46	Week-5	Heat Production and Loss	Relate the ways that affect heat production and heat loss in the body.	C3						
47		Body Temperature Types	Define types of body temperature according to its characteristics.	C1						
48		Fever	Identify the sign and symptoms of fever.	C1						
49		Practical	Perform to measure the body temperature of the patient.		P4		Demo	3	OPSE	5
50		Jetted	Follow the professional norms while taking temperature of patient.			А	Role Play		Formative Assess- ment	
			TOPIC: NURSING SKILLS (VITAL SIGNS) P	ULSE						
51		Pulse/Stroke Volume/CO	Define pulse, stroke volume and cardiac output.	C1						
52		Pulse Normal Ranges	Discuss the normal ranges for pulse rate in different age populations.	C2						
53		Factors	List the factors affecting the pulse rate.	C1			Interactive	2	MCQ's	5
54		Characteristics	Describe the characteristics of pulse.	C2			Lecture/SGD			
55	Week-6	Bradycardia and Tachy- cardia	Describe bradycardia and tachycardia.	C2						
56		Pulse Sites	Identify the different sites of assessing the pulse.	C1						
57		Demonstrate to take pulse rate of an adult patient.		P4		Demo	3	OPSE	5	
58		Practical	Respect the patient needs and concern while taking heart rate of the patient.			А	Role Play	3	Formative Assess- ment	3

			TOPIC: NURSING SKILLS (VITAL SIGNS) RESP	IRATIO	N					
59		Respiration	Define respiration and related terms.	C1						
60		Physiological Concept	Describe the physiological concept of respiration.	C2						
61		Normal Values	Enlist the normal values of respiration in different age groups.	C1			Interactive Lecture/SGD	2	MCQ's	5
62	Week-7	Factors	Explain the factors affecting the respiration rate.	C2						
63		Braydpnea and Tachypnea	Understand Braydpnea and Tachypnea.	C2						
64		Practical	Perform to count and document the respiration rate of an adult client.		P4		Demo	2	OPSE	- 5
65		Hactical	Provide morally acceptable assistance and care while assessing respira-tory rate.			А	Role Play	3	Formative Assess- ment	
			TOPIC: NURSING SKILLS (VITAL SIGNS) BLOOD	PRESS	URE					
66		Blood Pressure	Define blood pressure.	C1						
67		Blood Pressure Physiology	Describe the physiological concept of blood pressure.	C2						
68		Normal Values	Discuss the normal values of Blood Pressure in different age populations.	C2			Interactive Lecture/SGD	2	MCQ's	5
69	Week-8	Factors	Explain the factors affecting the blood pressure.	C2						
70		Signs And Symptoms	Identify the signs and symptoms of high and low blood pressure.	C1						
71		Drocking	Identify the signs and symptoms of high and low blood pressure.		P4		Demo	3	OPSE	- 5
72		Practical	Demonstrate to measure the Blood Pressure of an adult patient.			А	Role Play	3	Formative Assess- ment	3

			TOPIC: SKIN MANAGEMENT							
73		Decubitus Ulcer	Define decubitus ulcer (bed sore).	C1						
74		Causes and Risk Factors	Relate the causes and risk factors of decubitus ulcer.	C4			Interactive Lecture/SGD	2	MCQ's	5
75	Week-9	Prevention and Manage- ment	Discuss prevention and management of pressure ulcers.	C2						
76	TTOOK 5	Dynatical	Demonstrate nursing interventions to prevent decubitus ulcer.		P4		Demo	3	OPSE	-
77		Practical	Provide morally acceptable nursing care to the patient with decubitus ulcer.			А	Role Play	3	Formative Assess- ment	5
			TOPIC: CONCEPT OF SAFETY: RISK MANAG	EMENT						
78		Safety	Define safety.	C1						
79		Characteristics	Describe the characteristics of safety.	C1						
80		Hazards	Identify physical, microbial and psychological hazards in environment.	C1						
81		Ways of Minimizing Haz- ards	Discuss various ways to minimize hazards.	C2						
82		Environment Assessment	Discuss the assessment for environmental safety.	C2			Interactive Lecture/SGD	2	MCQ's	5
83	Week-10	Hazards in Hospitals	Analyze physical and microbial hazards in hospital setting, interfere with safety.	C4						
84		Preventive Measures	Explain preventive measures for safe environment for health members and patient.	C2						
85		People at Risk	Identify people at risk for safety dysfunction based on hospital as-sessment.	C1						
86		Documentation	Understand the importance of documentation in nursing care and pa-tient safety.	C2						
87		Practical	Observe various legal forms/documents used in the admission process and patient safety.		P1		Demo	3	OPSE	5
88		Flactical	Follow the proper norms of keeping safe documentation in nursing practices.			А	Role Play	3	Formative Assess- ment	,

			TOPIC: CONCEPT OF TEACHING & LEARN	IING						
89		Teaching and Learning	Discuss the basic concepts of teaching and learning.	C2						
90		Components	Discuss the components of teaching learning plan.	C2			Interactive	2	MCQ's	5
91		Learning Needs	Assess the learning needs of the patient at the clinical site.	C6			Lecture/SGD	_		
92	Week-11	Teaching Learning Plan	Develop teaching learning plan.	C3						
93			Perform health teaching at the clinical site.		P4		Demo		OPSE	
94		Practical	Follow the professional norms while teaching the client at clinical site.			А	Role Play	3	Formative Assess- ment	5
			TOPIC:OXYGENATION: RESPIRATORY FUNCTION & CARD	OVASC	ULAR S	YSTEM				
95		Factors	Relate factors that can interfere with effective oxygenation of body tissues.	C2						
96		Manifestations	Describe manifestations of altered respiratory and cardiovascular func-tion.	C2			Interactive			
97		Lifespan Changes	Discuss lifespan changes/ problems in respiratory / cardiovascular functions	C3				2		
98		Nursing Measures	Describe nursing measures to ensure a patient airway.	C5					McO	5
99	Week-12	Nursing Process	Apply nursing process for an altered respiratory and cardiovascular system.	C2			Lecture/SGD	2	MCQ's	5
100	week-12	Emergencies	Recognize the emergencies related to respiratory and cardiovascular system.	C2						
101		Ways to Prevent Infection	Explain ways that caregivers can decrease exposure of clients to infec-tion	C2						
102		Medical/Surgical Asepsis	Differentiate between medical and surgical asepsis.	С3						
103		Practical –	Perform the procedure of cardiopulmonary resuscitation on dummy in lab.		P4		Demo	3	OPSE	5
104			Follow the professional norms and steps while performing the CPR Procedure.			А	Role Play	3	Formative Assess- ment	j

			TOPIC: ACTIVITY AND EXERCISE PATTE	RN						
105		Mobility & Body Mechanics	Define terms mobility, joint mobility, body alignments and body mechanics.	C1						
106		Benefits	Discuss the benefits of activity and exercise.	C2			Interactive	2	MCQ's	2
107	Week-13	Principles of Gravity	Identify the principles of gravity that affects balance.	C1			Lecture/SGD	2	WCQ'S	2
108	Week-13	Factors Affecting Mobility	Discuss factors affecting mobility.	C2						
109		Practical	Perform to measure height and weight of the patient of the patient.		P4		Demo	3	OPSE	5
110		Plactical	Provide the ethical support and assistance during height and weight measurement.			А	Role Play	3	Formative Assess- ment	5
			TOPIC: ACTIVITY AND EXERCISE PATTE	RN						
111		Effects of Immobility	Discuss the effects of immobility on human body	C2						
112		Normal Movement	Review Anatomy and Physiology of skeletal system and characteris-tics of normal movement.	C2			Interactive	2	MCQ's	2
113	Week-14	Impact of Immobility	Describe impact of immobility on Physiological and Psychological functions.	C1			Lecture/SGD	2	WICQ'S	2
114	vveek-14	Nursing Process	Apply nursing process while planning for altered musculoskeletal system.	C3						
115		Dractical	Perform a bath to a patient with musculoskeletal system disorder on bed.		P2		Demo	3	OPSE	- 5
116		Practical	Follow the professional norms while giving bath to the patient on bed.			А	Role Play	3	Formative Assess- ment	3

			TOPIC: PROCESS OF HOSPITALIZATION	N						
117		Admission/Transfer/Dis- charge	Define the terms admission, transfer and hospital discharge.	C1						
118		Hospital Departments	Describe the functions of the various departments in a hospital.	C1						
119		Procedure	Discuss the procedure for admission, transfer and discharge.	C2			Interactive	2	MCQ's	5
120		Nursing Responsibility	Identify nursing responsibility during admission, transfer and discharge.	C1			Lecture/SGD		IVICQ 3	3
121	Week-15	Assessment	Assess cultural, spiritual, bio psychosocial factors when arriving at nursing diagnoses and interventions	C6						
122		Patients' Care	Understand the coordination of patients' care between the health team members.	C6						
123		Practical	Demonstrate to admit a patient in the designated nursing unit.		P2		Demo	3	OPSE	5
124		Practical	Respect the patient needs or concerns while preparing patient for admission.			А	Role Play	3	Formative Assess- ment	5
			TOPIC: PROCESS OF HOSPITALIZATION	N						
125		Observation	Observe the process of admission, transfer, and discharge of a patient in a hospital.	C2						
126		Patient Orientation	Explain and orient a patient to the hospital environment.	C2						
127		Forms of Admission	Identify various legal forms/documents used in the admission pro-cess.	C1			Interactive Lecture/SGD	2	MCQ's	5
128	Week-16	Care Documentation	Identify different forms used for documentation in patients' care.	C1						
129	week-10	Nurse Role	Discuss nurse role in preparing patients and family for hospital discharge.	C2						
130		Normal Reaction	Discuss the normal reaction of patient being hospitalized.	C2						
131		Practical	Demonstrate to discharge a patient from the admitted nursing unit/ward.		P4		Demo	3	OPSE	5
132			Respect the patient needs or concerns while preparing patient for the discharge planning.			А	Role Play	5	Formative Assess- ment	J

NU-102 MICROBIOLOGY 2(1.5-0.5)

Course Description

This course is designed to furnish the learners with the knowledge of basic concepts and scientific principles of Microbiology. It will enable learners to learn application and principles of Microbiology in hospital as well as in the 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. Classify common disease-causing microorganisms.
- Differentiate between different methods of microbe detection and destruction.
- 4. Demonstrate infection control practices that prevent infection in a hospital and community environment.
- 5. Use basic principles of Microbiology in nursing practice, in a hospital and community environment.
- 6. Demonstrate the skills learnt in the laboratory to carry out simple laboratory experiments.

Skills Domain

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

- I. Demonstrate and interpret science phenomenon in a pathology lab????
- 2. Demonstrate and interpret cell adaptation slides
- Demonstrate/Interpret Effect of Suspending Red Blood Cell in Different Concentration of Salt Solution.

Affective Domain

- Follow the specified norms of the IL, SGD teaching & learning.
- 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-102 MICROBIOLOGY 2(1.5-0.5)

CNI		6			Domair	า	NAUT/			No of
S.No	Weeks	Content	Learning Outcomes	С	Р	Α	MIT's	Hours	Assesment	Items
			TOPIC: INTRODUCTION TO MICROBIOLO	OGY						
1		Microbiology	Define microbiology.	C1						
2		Common Microorganisms	Classify common disease causing microorganisms.	C2						
3	Week-1	Properties of Viruses	Enlist some of the basic properties of viruses.	C1			Interactive Lecture/SGD	1.5	MCQ's	5
4		Nutritional Requirements	Explain the basic nutritional requirements of microorganisms.	C2						
5		Microbiology Scientists	Discuss the contribution of different scientists in the field of microbiology.	C2						
6		Bacteria Classification	Classify of bacteria based on nutritional requirement and morphology.	C2						
7		Eukaryotic/Prokaryotic Cell	Distinguish between eukaryotic and prokaryotic cell.	C4			Interactive	1.5	MCQ's	
8	Week-2	Protozoa and Fungi	Discuss protozoa and fungi as disease causing microorganisms	C2			Lecture/SGD	1.5	IVICQ'S	5
9	vveek-2	Microbiology Importance	Explain the importance of microbiology in nursing practice.	C2						Э
10		Dun ski sal	Demonstrate the protocols/practices of safe handling of chemical and equipments in lab.		P4		Demo	3	Formative	
11		Practical	Follow professional norms of handling the chemical and equip-ments in lab safely			А	Role Play	3	Assess- ment	
			TOPIC: CONTROL OF MICROORGANISI	М						
12		Terms Definitions	Define sterilization, antiseptic, asepsis, macrobiotic, microbiocid-al, antibiotic.	C1						
13	Week-3	Physical/Chemical Methods	Describe some physical and chemical methods to control micro-bial growth.	C2			Interactive	1.5	MCQ's	5
14	vveek-3	Microbial Growth Control	Explain importance of the control of microbial growth.	C2			Lecture/SGD	1.5	IVICQS	5
15		Antibiotics Differentiation	Differentiate between broad spectrum and narrow spec-trum antibiotics.	C4						

			TOPIC: DEFENCE MECHANISMS OF THE B	ODY						
16		Terms Definitions	Define hypersensitivity, resistance, nonspecific resistance and susceptibility.	C1						
17		Resistance and Immunity	Discuss the specific resistance, innate resistance and immunity.	C2						
18		Antigens and Antibodies	Discuss antigens and antibodies.	C2			Interactive Lecture/SGD	1.5	MCQ's	
19	Week-4	Classes of Antibodies	Explain the five classes of antibodies and their functions.	C2						5
20		Skin and Mucous Membrane	Describe the role of the skin and mucous membrane in non-specific resistance.	C2						
21		Practical	Label and name the parts of a microscope.		P4		Demo	3	Formative Assess-	
22		Pfactical	Maintain professional norms while labeling or naming the differ-ent parts of a microscope.			А	Role Play	3	ment	
23		Role of Good Health	Discuss the role of good health in protection against the microbial infection.	C2						
24	Week-5	Phagocytosis	Explain the process of Phagocytosis.	C2			Interactive	1.5	MCQ's	5
25	vveek-3	Acquired Immunity Types	Explain four types of acquired immunity.	C2			Lecture/SGD	1.3	WICQ'S	3
26		Memory/Tolerance/Speci- ficity	Explain the role of memory, tolerance and specificity in immunity.	C2						
27		Humoral/Mediated Immunity	Differentiate between humoral and cell mediated immunity.	C4						
28		Primary/Secondary Response	Distinguish between primary and secondary immune response.	C4			Interactive Lecture/SGD	1.5	MCQ's	
29	Week-6	Hypersensitivity Difference	Differentiate between delayed and immediate hypersensitivity.	C4						5
30		Practical	Demonstrate the use and operation of a microscope.		P4		Demo	3	Formative Assess-	
31		Flactical	Follow the professional attributes and norms while using a micro-scope.			А	Role Play	3	ment	
			TOPIC: MEDICAL & SURGICAL ASEPSIS	S						
32		Terms Definitions	Define the terms infection, inflammation, nosocomial infection and infection control.	C1						
33	Week-7	Asepsis	Define the term asepsis.	C1			Interactive Lecture/SGD	1.5	MCQ's	5
34		Types of Asepsis	Discuss the types of asepsis.	C2						

35		Medical/Surgical Asepsis	Differentiate between medical and surgical asepsis.	C4						
36		Hand Washing Steps	Discuss the steps of hand washing.	C2			Interactive Lecture/SGD	1.5	MCQ's	
37	Week-8	Role of Hand Washing	Explain the role of hand washing in the prevention of nosocomial infection.	C2						5
38		Practical	Perform medical hand washing to prevent the spread of microorganism.		P4		Demo	3	Formative Assess-	
39		Practical	Follow the steps of medical hand washing with required profes-sional standards.			А	Role Play	3	ment	
40		Universal Precautions	Discuss the universal precautions.	C2						
41	Week-9	Chain of Infection	Discuss the six components of chain of infection.	C2			Interactive Lecture/SGD	1.5	MCQ's	5
42		Microbe Detection/Destruction	Differentiate between different methods of microbe detection and destruction.	C4						
43		Spread of Infections	Explain the ways, methods and reasons of spread of infections with examples.	C2						
44		Infection related Factors	Describe the factors that increase the risk of infection in various settings.	C2			Interactive Lecture/SGD	1.5	MCQ's	
45	Week-10	Role of Health Personnel	Employ the role of health care personnel and health in infection control.	C3						5
46		Practical	Demonstrate surgical hand washing (scrubbing) to prevent the spread of microorganism.		P4		Demo	3	Formative Assess-	
47		Practical	Follow the steps of surgical hand washing (scrubbing) with re-quired professional standards.			А	Role Play	3	ment	
			TOPIC: CONCEPT OF ISOLATION							
48		Isolation	Define Isolation.	C1						
49	Week-11	Isolation Precautions	Explain the rationale for isolation precautions.	C2			Interactive Lecture/SGD	1.5	MCQ's	5
50		Types of Isolation	Explain the types of Isolation.	C2						
51		Examples of Isolation	Enlist the examples of different types of isolation	C1						
52		Isolation/Chain of Infection	Relate isolation to the chain of infection cycle.	C4			Interactive Lecture/SGD	1.5	MCQ's	
53	Week-12	Personal Protective Equipment	Enlist the types of personal protective equipment used in isola-tion precautions.	C1						5
54		Den etitl	Demonstrate precautionary measures during various types of isolation to control infections.		P4		Demo	2	Formative	
		Practical	Perform various nursing interventions professionally in each type of isolation.			А	Role Play	3	Assess- ment	
55			eden type or isolation.							

			TOPIC: HUMAN AND MICROBIAL INTERAC	TION						
56		Normal Flora	Define normal flora of the body.	C1						
57	Week-13	Normal Flora Beneficial Role	Enlist at least three beneficial role of normal flora.	C1			Interactive Lecture/SGD	1.5	MCQ's	5
58		Pathogenic Diseases	Discuss some pathogenic microbes and diseases i.e tetanus, ty-phoid, cholera, and diphtheria	C2						
59		Pathogenic Diseases	Discuss T.B, pertusis, mumps, measles, polio, influenza ascariasis, teaniasis, dermatomycosis	C2						
60		Resident and Transient Flo- ra	Differentiate between resident and transient normal flora.	C4			Interactive	1.5	MCO's	5
61	\\/ 1.4	Nosocomial Infections	Discuss nosocomial infections.	C2			Lecture/SGD	1.5	IVICQS	5
62	Week-14	Nursing Practice	Use basic principles of microbiology in nursing practice, in a hospital and community setting	С3						
63		Don et lead	Demonstrate precautionary measures during various types of isolation to control infections.		P4		Demo	2	Formative	F
64		Practical	Perform various nursing interventions professionally in each type of isolation.			А	Role Play	3	Assess- ment	5
			TOPIC: MICROBIOLOGY IN EVERY DAY L	IFE						
65		Role of Microbiology	Discuss the role of microbiology in medicine and nursing scienc-es.	C2						
66	Week-15	Microorganisms Uses	Discuss the medicinal uses of microorganisms.	C2			Interactive Lecture/SGD	1.5	MCQ's	5
67		Microorganism/Environ- ment	Describe how microorganisms affects environment i.e. air, water and food	C1						
68		Safety Measures	Enlist some safety measures to control water and food borne diseases.	C1						
69		Food Infection/Poisoning	Differentiate between food infection and food poisoning.	C4			Interactive Lecture/SGD	1.5	MCQ's	5
70	Week-16	Microbiology in Everyday Life	Describe the different uses of microbiology in every day life.	C1						
71		Practical	Perform the procedure to prepare slides of culture media		P4		Demo	3	Formative Assess-	5
72		Practical	Follow the professional norms to prepare slides of culture media			А	Role Play	5	ment	5

NU-103 ANATOMY & PHYSIOLO-GY-I 3(2-1)

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
- 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:

- Demonstrate the levels of organization of body structures through anatomical models or charts.
- 2. Locate the organs present in each of the nine abdomino-pelvic regions through a model.
- Draw the process of positive (childbirth) or negative (thermoregulation) feedback mechanisms.
- 4. Demonstrate the location and name the organelles of a cell through a

- structural model.
- 5. Demonstrate descriptions of the bones of axial & appendicular skeleton.
- Demonstrate to identify bones in skull, vertebral column, rib cage, extremities, pectoral/pelvic girdle.
- Locate the different immovable or slightly movable joints in a human anatomical model.
- 8. Locate and describe synovial Joints in a given anatomical model.
- 9. Demonstrate to label the major skeletal muscles in human models.
- 10. Locate the layers and Skin Structures in an Integumentary Model.
- 11. Locate and describe the anatomical chambers and structures of hear.
- 12. Draw the blood flow through different chambers and vessels of the heart.
- Identify and interpret the blood group of a patient based on its antigen and antibodies.
- 14. Locate and Name the organs of the lymphatic System.
- Demonstrate description of the organs of digestive system in abdominal cavity.
- 16. Locate and name the organs of digestive system from mouth to anus.

Affective Domain

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

TOS -NU-103 ANATOMY & PHYSIOLOGY-I 3(2-1)

S.No	Weeks	Content	Learning Outcomes		Domair	ı	MIT's	Haves	Assessment	No of
5.110	vveeks	Content	Learning Outcomes	С	Р	Α	IVIII S	Hours	Assesment	Items
			TOPIC: INTRODUCTION TO HUMAN BO	DY						
1		Anatomy and Physiology	Define the term anatomy and physiology.	C1						
2		Importance	Describe the importance of learning and anatomy and physiology.	C1			Interactive	2	MCQ's	5
3		Relationship	Discuss the relationship between anatomy and physiology.	C2			Lecture/SGD	2	IVICQ'S	,
4	Week-1	Nursing Care	Relate the basic anatomy & physiology concepts to the nursing care of clients.	C3						
5			Demonstrate the levels of organization of body structures through anatomical models or charts.		P4		Demo		OPSE	
6		Practical	Listen to teacher attentively and courteously while observing and learning the levels of organization.			А	Role Play	3	Formative Assess- ment	5
7		Anatomical Positions/ Planes	Explain the anatomical positions and body planes.	C2						
8		Body Cavity	Define the term body cavity.	C1			Interactive	2	MCQ's	5
9		Organs	Discuss body cavities and list the organs lying within each cavity.	C2			Lecture/SGD	2	IVICQS	Э
10	Week-2	Purpose	Describe the purpose of knowing the body cavities.	C1						
			Locate the organs present in each of the nine abdomino pelvic regions through a model.		P4		Demo		OPSE	
11		Practical	Handle the models safely to locate the organs present in each of the nine abdomino pelvic regions.			А	Role Play	3	Formative Assess- ment	5

			TOPIC: HOMEOSTASIS AND ADAPTATION	NC						
12		Homeostasis	Define the term homeostasis.	C1						
13		Factors	Discuss the factors which effect homeostasis.	C2			Interactive	2	MCQ's	5
14		Feedback Mechanism	Explain the feedback mechanism and its components.	C2			Lecture/SGD	_		
15	Week-3	Role of Feedback Process	Interpret the role of feedback process in homeostasis maintenance with examples.	C4						
16		Practical	Draw the process of positive (childbirth) or negative (thermoregulation) feedback mechanisms.		P4		Demo	3	OPSE	5
17		Flactical	Maintain the professional norms during the instructions of sketching of feedback mechanism process.			А	Role Play	3	Formative Assess- ment	3
			TOPIC: CELL, TISSUES AND MEMBRAN	IE						
18		Cell/Tissue/Membrane	Define the terms cell, tissue and membrane.	C1						
19		Organelles	Describe the organelles inside the cell.	C1						
20		Cell Division	Discuss the process of cell division i.e. mitosis and meiosis.	C2			Interactive	2	MCO's	5
21	Week-4	Importance of Cell Division	Explain and evaluate the importance of the process of mitosis & meio-sis	C2			Lecture/SGD	2	MCQS	5
22	vveek-4	Types of Membranes	Discuss the types of membranes.	C2						
23		Tissues Types	Discuss epithelial, connective, muscle & nervous tissues based on their structures/locations/ functions	C2						
24		Practical	Demonstrate the location and name the organelles of a cell through a structural model.		P4		Demo	3	OPSE	5
25		FIACUCAL	Locate and name organelles of a cell through a structural model with proper norms and handling.			А	Role Play	3	Formative Assess- ment	3

			TOPIC: SKELETAL SYSTEM							
26		Skeletal System	Define the skeletal system.	C1						
27		Structure/Types/Functions	Discuss the structure, types and functions of bone.	C2			Interactive		1.50	_
28	\\\ \ 5	Functions	Enlist the functions of the skeletal system.	C1			Lecture/SGD	2	MCQ's	5
29	Week-5	Markings	Discuss the various markings on the surface of bones.	C2						
30		Dua stire I	Demonstrate descriptions of the bones of axial & appendicular skeleton.		P4		Demo	2	OPSE	F
31		Practical	Describe the bones of axial & appendicular skeleton with proper pro-fessional norms and attributes.			А	Role Play	3	Formative Assess- ment	5
32		Skull Bones	Describe the bones in skull.	C2						
33		Vertebral Column	Describe the bones in vertebral column.	C2						
34		Rib Cage	Identify the bones in rib cage.	C1			Interactive	2	MCQ's	5
35	Mark C	Pectoral Girdle/Upper Extremity	Describe the bones in pectoral girdle and upper extremity.	C2			Lecture/SGD	2	MCQ S	5
36	Week-6	Pelvic Girdle/Lower Ex- tremity	Describe the bones in pelvic girdle and lower extremity.	C2						
37		Male and Female Pelvis	Discuss the difference between male and female pelvis.	C2						
38		Dractical	Demonstrate to identify bones in skull, vertebral column, rib cage, extremities, pectoral/pelvic girdle.		P4		Demo	2	OPSE	E
39		Practical	Handle bones in skull, vertebral column, rib-cage, extremities, and pectoral/pelvic girdle dexterously			А	Role Play	3	Formative Assess- ment	5

			TOPIC: JOINTS							
40		Joint	Define the term joint.	C1						
41		Types of Joints	Describe the types of joints including fibrous, cartilaginous and syno-vial joints.	C2			Interactive Lecture/SGD	2	MCQ's	5
42	Week-7	Synovial Joints	Enlist the types of synovial joints.	C1						
43			Locate the different immovable or slightly movable joints in a human anatomical model.		P4		Demo		OPSE	_
44		Practical	Follow the professional norms to handle the models for joints location.			А	Role Play	3	Formative Assess- ment	5
45		Classification	Classify immovable, slightly movable and freely movable joints.	C2						
46		Common Characteristics	Describe the common characteristic or features of a synovial joint.	C2			Interactive Lecture/SGD	2	MCQ's	5
47	Week-8	Types of Movements	Discuss the types of movements possible at synovial joints.	C2						
48		Practical	Locate and describe synovial Joints in a given anatomical model.		P4		Demo	3	OPSE	5
49		Practical	Maintain the professional norms during handling the models.			А	Role Play	3	Formative Assess- ment	5

			TOPIC: MUSCULAR SYSTEM							
50		Terms Definition	Define the terms fascia, epimysium perimysium, endomysium, ten-dons, and aponeurosis.	C1						
51		Types of Muscles	Classify the main types of muscles.	C2			Interactive Lecture/SGD	2	MCQ's	5
52	Week-9	Location	Discuss location and function of major muscles of neck, face, back, arms, and legs.	C2						
53		Practical	Demonstrate to label the major skeletal muscles in human models.		P4		Demo	3	OPSE	5
54		Practical	Follow the professional norms to label the models cautiously.			А	Role Play	3	Formative Assess- ment	5
			TOPIC: INTEGUMENTARY SYSTEM							
55		Skin Layers	Describe the structure of the two main layers of skin including epider-mis and dermis.	C1						
56		Skin Derivatives	Discuss the structure & function of sweat gland, sebaceous gland, hairs and nails as skin derivatives.	C1			Interactive Lecture/SGD	2	MCQ's	5
57	Week-10	Skin Functions	Discuss Protection, Thermoregulation, Sensation, Absorption and Excretion as skin main functions.	C1						
58			Locate the layers and Skin Structures in an Integumentary Model.		P1		Demo		OPSE	_
59		Practical	Follow the proper norms of keeping safe handling of the models.			А	Role Play	3	Formative Assess- ment	5
			TOPIC: CARDIOVASCULAR/CIRCULATORY S	SYSTEM						
60		Heart Anatomy/Physiology	Describe the location, structure and functions of the heart and its great blood vessels.	C2						
61		Conduction System	Describe the structure and functional features of the conducting system of the heart.	C2			Interactive	2	MCQ's	5
62		Blood Circulation	Discuss the pulmonary, systematic, coronary and portal circulation.	C2			Lecture/SGD			
63	Week-11	Cardiac Cycle	Explain the principle events of a cardiac cycle.	C2						
64			Locate and describe the anatomical chambers and structures of heart.		P4		Demo		OPSE	
65	27	Practical	Maintain the ethical integrity in handle the heart models and structure properly.			А	Role Play	3	Formative Assess- ment	5

66		Blood	Define blood and list its functions.	C1						
67		Composition	Describe composition, sites of production, and functions of cellular parts of blood/plasma.	C2			Interactive Lecture/SGD	2	MCQ's	5
68	Week-12	Vessels Structure/Functions	Explain the structure and function of arteries, veins and capillaries.	C2						
69		Practical	Draw the blood flow through different chambers and vessels of the heart.		P4		Demo	3	OPSE	F
70		Practical	Follow the professional norms to explain the blood flow through heart via heart			А	Role Play	3	Formative Assess- ment	5
71		Blood Groups	Enlist the types of blood groups.	C1						
72		ABO System	Explain the ABO system of blood grouping & Rh factor.	C2			Interactive Lecture/SGD	2	MCQ's	2
73	Week-13	Importance	Discuss the importance of knowing the blood grouping.	C2						
74		Dynatical	Identify and interpret the blood group of a patient based on its antigen and antibodies.		P4		Demo	2	OPSE	
75		Practical	Maintain the ethical norms during identification and interpretation of blood groups of a patient.			А	Role Play	3	Formative Assess- ment	5

TOPIC: LYMPHATIC SYSTEM										
76		Lymphatic System	Define lymph & the lymphatic system.	C1						
77		Lymphatic System Organs	Enlist the organs of lymphatic system.	C1						
78		General Functions	Discuss the general functions of the lymphatic system.	C2			Interactive	2	MCO's	_
79	Week-14	Lymph Vessels	Explain the lymph vessels & how lymph is returned to the blood vessels.	C2			Lecture/SGD	2	MCQ's	5
80		Lymph Nodes	Discuss structure and functions of lymph nodes, nodules, and spleen and thymus gland.	C2						
81		Lymph Composition	Interpret composition and formation of lymph in relation pathological conditions.	C4						
82		Practical	Locate and Name the organs of the lymphatic System.		P4		Demo Role Play	- 3	OPSE	- 5
83			Follow the professional norms while handling the models for describing the lymphatic system organs.			А			Formative Assess- ment	
TOPIC: DIGESTIVE SYSTEM										
84		Digestion	Define digestion and its related terms	C1			Interactive Lecture/SGD	2	MCQ's	5
85		Anatomy and Physiology	Describe the anatomy and physiology of digestive system in-cluding its organs	C2						
86	Week-15	Accessory Organs	Discuss the role of accessory organs in digestion.	C2						
87		Practical	Demonstrate description of the organs of digestive system in abdominal cavity.		P2		Demo Role Play	3	OPSE	- 5
88			Name various organs of digestive system in a model with proper professional norms.			А			Formative Assess- ment	

89		Digestion Process	Explain digestion in mouth, stomach, small intestines & large intes-tines with chemical processes of enzymes	C2			Interactive Lecture/SGD	2		
90		Absorption	Explain the absorption of various nutrients in the digestive system	C2					MCQ's	5
91	Week-16	Defecation	Discuss the process of defecation.	C2						
92		Practical –	Locate and name the organs of digestive system from mouth to anus.		P4		Demo	3	OPSE	5
93			Maintain proper professional attributes in handling the diges-tives organs or the anatomical models.			А	Role Play		Formative Assess- ment	

NU-104 BIOCHEMISTRY 2(2-0)

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:

- Differentiate between the biochemical basis of proteins, carbohydrates, lipids, enzymes, hormones.
- 2. Explain the role of proteins, carbohydrates, lipids, enzymes, hormones in metabolism.
- 3. Relate basic knowledge of biochemistry for a better understanding of the physiological functions of the human body.
- 4. Interpret basic biochemical test reports in relation to the physiological function of the human body.

Skills Domain

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

- I. Demonstrate and interpret science phenomenon in a pathology lab????
- 2. Demonstrate and interpret cell adaptation slides
- 3. Demonstrate/Interpret Effect of Suspending Red Blood Cell in Different Concentration of Salt Solution.

Affective Domain

- 1. Follow the specified norms of the IL, SGD teaching & learning.
- 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 2(1.5-0.5)

CNI-	\A/	Combant	Learning Outcomes		Domair	ı	NAIT'-		^	No of
S.No	Weeks	Content	Learning Outcomes	С	Р	Α	MIT's	Hours	Assesment	Items
			TOPIC: INTRODUCTION TO BIOCHEMIS	TRY						
1		Biochemistry	Define biochemistry	C1						
2	Week-1	Basic Terms	Discuss the basic terms used in biochemistry.	C2			Interactive Lecture/SGD	1.5	MCQ's	5
3		Role of Biochemistry	Explain the role of biochemistry in medicine and nursing sciences.	C2						
4		Structure and Function	Discuss the structure and function of cells and organelles.	C2						
5		Biochemical Processes	Understand the chemical and biochemical processes at molecular level associated with living cells.	C2			Interactive Lecture/SGD	1.5	MCQ's	5
6	Week-2	Biochemistry Knowledge	Relate basic knowledge of biochemistry for better understanding of physiological functions of human body	C3						
7		Described	Demonstrate the safe handling of chemical and equipments in biochemistry lab.		P4		Demo	3	Formative	5
8		Practical	Follow the professional standards of handling of chemical and equipments in lab.			А	Role Play	3	Assess- ment	5
			TOPIC: BASIC CONCEPTS OF ORGANIC CHE	MISTRY						
9		Basic Concepts Review	Review concepts of matter, element, mixture, compound, reaction, equation, bonding, acid and base.	C1						
10	Week-3	Organic Compounds	Recognize the role and importance of organic compounds in understanding the subject of biochemistry.	C2			Interactive Lecture/SGD	1.5	MCQ's	5
11		Organic and Inorganic	Compare properties of organic and inorganic compounds.	C4						
12		Classification	Describe the classification of organic compounds.	C1						
13		Saturated/Unsaturated	Differentiate the type of saturated and unsaturated hydrocarbons.	C4			Interactive Lecture/SGD	1.5	MCQ's	5
14	Week-4	Molecular Composition	Describe the molecular composition of carbohydrates, fats, proteins and nucleic acid.	C1						
15		Practical	Assess the chemical properties of organic compounds in lab.		Р3		Demo	3	Formative Assess-	5
16		Flactical	Follow professional norms to assess chemical properties of organic compounds in lab.			А	Role Play	3	ment	5

			TOPIC: METABOLISM							
17		Metabolism	Define metabolism, anabolism and catabolism.	C1						
18		Role and Pathway	Understand the role and pathway of metabolism.	C2						
19	Week-5	Bioenergetics	Discuss bioenergetics and the basic concept of free energy.	C2			Interactive Lecture/SGD	1.5	MCQ's	5
20		Role of ATP	Explain the role of ATP in Linking Catabolism and anabolism.	C2						
21		Biological Reaction	Discuss the biological oxidation, reduction reaction and oxidative phosphorylation.	C2						
22		Catabolism/Anabolism	Discuss Adenosine Triphosphalic relationship with catabolism and anabolism.	C2						
23		Glycolysis/Krebs/ETC	Briefly discuss the role of Glycolysis, Krebs Cycle, Electron Transport chain in metab-olism.	C2			Interactive	1.5	MCQ's	5
24	Week-6	Proteins/Carbs/Lipids/Hor.	Explain the role of proteins, carbohydrates, lipids, enzymes, hormones in metabolism.	C2			Lecture/SGD	1.5	IVICQ'S	5
25	week-6	Basic Concepts/Processes	Discuss the basic concepts and processes of carbohydrate, protein and fats metabolism.	C2						
26		Practical	Calculate the BMR (Basal Metabolic Rate) of a patient.		P4		Demo	2	Formative	5
27		Practical	Provide acceptable assistance and explanation to patient during the calculation of BMR.			А	Role Play	3	Assess- ment	5
			TOPIC: CARBOHYDRATES							
28		Carbohydrates	Define carbohydrates.	C1						
29		Carbohydrates Properties	Discuss properties of carbohydrates.	C2						
30	Week-7	Structure & Classification	Describe the general structure and classification of carbohydrates.	C1			Interactive Lecture/SGD	1.5	MCQ's	5
31		Classes of Carbohydrates	Compare three classes of carbohydrates; monosaccharide, disaccharide & polysac-charide	C4						
32		Biological Significance	Discuss the biological significance of carbohydrates	C2						

33		Importance of Glucose	Describe the importance of glucose in blood.	C1						
34		Gluconeogenesis	Discuss the gluconeogenesis, glycogenesis and glycogenolysis.	C2						
35		Glucose Catabolism	Describe the role of oxidative glucose catabolism in the citric acid cycle.	C1			Interactive Lecture/SGD	1.5	MCQ's	5
36	Week-8	Ketosis and Ketogenesis	Describe the ketosis and Ketogenesis.	C1						
37		Carbohydrate Metabolism	Discuss the overall scheme of carbohydrate metabolism	C2						
38		Practical	Perform Benedict's Test for checking the presence of reducing the sugar levels in a given sample.		P4		Demo	3	Formative Assess-	5
39		Pfactical	Follow professional norms while performing the Benedict's Test for checking and reducing the sugars.			А	Role Play	3	ment	5
			TOPIC: LIPIDS							
40		Lipids and Fatty Acids	Describes the structure and general properties of lipids and fatty acids.	C1						
41		Classification of Lipids	Discuss the classification of lipids that is simple, compound & derived lipids.	C2						
42	Week-9	Saturated/Unsaturated Fats	Distinguish between saturated and unsaturated fats.	C4			Interactive Lecture/SGD	1.5	MCQ's	5
43		Fatty Acids, Fats and Oil	Distinguish between fatty acids, fats and oil.	C4						
44		Role of Phospholipids	Discuss the role of phospholipids in cell membranes.	C2						
45		Role of Steroids	Explain the role of steroids and cholesterol.	C2						
46		Fatty Acid Oxidation	Describe the mechanism of fatty acid oxidation.	C1			Interactive	1.5	MCO's	_
47	Week-10	Fat Oxidation and Energy	Discuss the amount of energy produced during the oxidation of a fat.	C2			Lecture/SGD	1.5	MCQ's	5
48	week-10	Role of Ketones Bodies	Explain the significance of the role of ketones bodies.	C2						
49		Practical	Perform the Emulsion Test in Lab.		P4		Demo	3	Formative	5
50		Practical	Maintain the required professional standards when performing the Emulsion Test in Lab.			А	Role Play	3	Assess- ment	3

			TOPIC: PROTEINS								
51		Amino Acids	Discuss the general structure of amino acids and protein.	C2							
52		Essential/Non-Essential	Discuss essential and non-essential amino acid.	C2							
53	\\/ . 11	Proteins Classification	Classify proteins according to solubility, composition, function and shape.	C2			Interactive	1.5	MCO/-	_	
54	Week-11	Protein Denaturation	Explain the significance of protein Denaturation.	C2			Lecture/SGD	1.5	MCQ's	5	
55		Terms Definition	Define the term nucleic acid, nucleotide, trans and deamination.	C1							
56		Features of Nucleotide	Describe the main structural features of nucleotide.	C1							
57		RNA & DNA Differences	Explain the structure and main differences of RNA & DNA.	C2							
58		Nucleotides	Discuss the biological importance of nucleotides.	C2							
59		Absorption of Protein	Review the digestion and absorption of protein.	C2							
60		Nitrogen Balance	Explain the significance of nitrogen balance.	C2			Interactive Lecture/SGD	1.5	MCQ's	5	
61	Week-12	Protein Synthesis	Describe the synthesis of protein.	C1							
62		Transamina-tion/deamina-tion	Differentiate the transamination, deamination and decarboxylation.	C4							
63		Urea/Ammonia Disposal	Discuss the formation of urea and ammonia disposal.	C2							
64		Dun etilent	Perform the Ninhydrin Test for the presence of amino acid, amine and protein groups.		P4		Demo	2	Formative	_	
65		Practical	Follow the professional and ethical norms while performing Ninhydrin Test.			А	Role Play	3	Assess- ment	5	
			TOPIC: ENZYMOLOGY								
66		Enzymes/Apo/Co En-zyme	Distinguish between enzymes, apoenzymes, coenzymes & co factors	C4							
67		Importance of Enzymes	Discuss the properties and importance of enzymes.	C2							
68	Week-13	Enzyme Action	Explain the mode or mechanism of an enzyme action.	C2			Interactive Lecture/SGD	1.5	MCQ's	5	,
69		Activators and Inhibitors	Distinguish between activators and inhibitors.	C4							
70		Inhibition of Enzyme	Understand inhibition of enzyme activity in competitive, non & un competitive states.	C2							

71		Classification of En-zymes	Describe with the classification of enzymes.	C2						
72		Factors Affecting En-zyme	Explain the factors affecting the enzyme activity.	C2			Interactive	1.5	MCO/-	_
73	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Application of Enzymes	Discuss the role and application of enzymes understanding in clinical medicines.	C2			Lecture/SGD	1.5	MCQ's	5
74	Week-14	Michalis Menten's Equa- tion	Explain Michalis Menten's Equation	C2						
75		D 11 1	Interpret basic biochemical test reports in relation to the physiological function of the human body.		P4		Demo	2	Formative	_
76		Practical	Follow the professional norms when having interpretation of different biochemical test reports.			А	Role Play	3	Assess- ment	5
			TOPIC: HORMONES COMMUNICATION CELLS	S/TISSU	E					
77		Hormone	Define Hormone.	C1						
78	Week-15	Communication Chan-nel	Discuss the hormones as communication channel among cells and tissues.	C2			Interactive Lecture/SGD	1.5	MCQ's	5
79		Classification of Hor-mone	Describes the classification of hormone (Steroid Hormone, Amino Hormone and Peptide Hormone).	C1						
80		Steroid Mode of Ac-tion	Discuss the mode of action of steroid & peptides hormones.	C2						
81		Hormones Interpreta-tion	Interpret to become familiar with cardiac, pineal and gastrointestinal hormones.	C4			Interactive Lecture/SGD	1.5	MCQ's	5
82	Week-16	Biochemical Basis	Differentiate between the biochemical basis of proteins, carbohydrates, lipids, enzymes, and hormone.	C2						
83		Duration	Perform to calculate the total body density of the cell.		P4		Demo	2	Formative	г
84		Practical	Follow the professional norms while calculating the total body density of the cell.			А	Role Play	3	Assess- ment	5

NU-105 ENGLISH –FUNCTIONAL ENGLISH 3(3-0)

This course has been designed to enhance students' aptitude in English and enable them to the practical skills in oral communication reading, writing, listening, and speaking in their academic and professional settings. The course also intends to improve the grammar and vocabulary of the students in order to have better utilization in their communication skills and professional writings.

Cognitive Domain

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

- 1. Discuss the Oral Communication and its type.
- 2. Explain the Oral Presentations requirements.
- 3. Understand the Vocabulary used in nursing professional writing.
- 4. Understand the basic concepts of Grammar.
- 5. Discuss the Reading Comprehension and process involved.
- 6. Explain the essentials of Report Writing.

Affective Domain

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

- 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.
- Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.



TOS - NU-105 ENGLISH -FUNCTIONAL ENGLISH 3(3-0)

S.No	Weeks	Content	Learning Outcomes		Domair	1	MIT's	Hours	Assesment	No of
3.110	Weeks	Content	Learning Outcomes	С	Р	А	1411.1.2	riours	Assesment	Items
			TOPIC: ORAL COMMUNICATION		ı					
1		Greetings	Understand an effective approach of greeting.	C2						
2	Week-1	Start and Finish Conversation	Discuss how to start and finish a conversation.	C2			Interactive	3	MCO's	5
3	WEEK 1	Telephonic Conversation	Engage in a telephonic conversation.	C3			Lecture/SGD	3	IVICQ 3	3
4		Compliments Words	Choose proper wording for complements.	C3						
5		Congratulation and Sympathy	Extend congratulation and sympathy.	C2						
6	Week-2	Feelings Expression	Express the feelings.	C2			Interactive Lecture/SGD	3	MCQ's	5
7		Information or Explanation	Analyze and ask for an information or explanation.	C4						
8		Opinions and Ideas	Express opinions and ideas.	C2						
9		Suggestion, Advise, Persuade	Understand to give suggestion, advise, persuade and insist etc.	C2			Interactive Lecture/SGD		MCQ's	
10	Week-3		Listen teacher attentively when learn that how to give suggestion, and advise.	C2				3		5
11		Listening for Suggestions	Listen teacher attentively when learn that how to give suggestion, and advise.			А	Role Play		Formative Assess- ment	
			TOPIC: ORAL PRESENTATIONS							
12	Maak 4	Elements Good Presentation	Identify elements of a good presentation.	C1			Interactive	2	MCO's	г
13	Week-4	Topics of Common Interest	Select topics of common interest and share useful information.	C2			Lecture/SGD	3	MCQ's	5
14		Presentation Preparation	Prepare a good presentation using variety of strategies/modes to convey ideas.			А	Polo Play		Formative	
15	Week-5	Professional Norms	Follow the standard and professional norms to have a good presenta-tion.			А	Role Play	3	Assess- ment	5
16		Handling Questions	Express thoughts while handling questions directed from the audience.	C2			Interactive Lecture/SGD		MCQ's	

CENTRAL CURRICULUM & ASSESSMENT COMMITTEE

17	Week-6	Thought-Provoking Discussions	Extend thought-provoking discussions.	C2	Interactive	3	MCO's	5
18	vveek-0	Key Points Conclusion	Conclude and wrap up convincingly, restating the key points.	C5	Lecture/SGD	3	WCQ S	3
			TOPIC: VOCABULARY					
19		Dictionary Use	Learn the use the dictionary.	C1				
20	Week-7	Parts of Speech	Identify various parts of speech.	C1	Interactive Lecture/SGD	3	MCQ's	5
21		Root Words	Discuss how to enhance the knowledge of root words.	C2				
22		Common Suffixes and Pre- fixes	Understand the common suffixes and prefixes used in medical terminology.	C2				
23	Week-8	Idiomatic Phrases	Discuss uses of idiomatic phrases used to describe physical ailments.	C2	Interactive Lecture/SGD	3	MCQ's	5
24		Idioms and Phrasal Verbs	Discuss how to extend the knowledge of idioms and phrasal verbs in general.	C2				
			TOPIC: GRAMMAR					
25		Appropriate Sentences/ Tenses	Use sentences and paragraphs using appropriate form of present and past tense	C3				
26	Week-9	Tenses Differentiation	Differentiate between present perfect and past simple tenses.	C4	Interactive Lecture/SGD	3	MCQ's	5
27		Subject Verb Agreement	Understand the subject verb agreement in sentences.	C2				
28		Correct Word Order	Write sentences using the correct word order.	C3				
29	Week-10	Active and Passive Voice	Convert active sentences into passive and vice versa.	С3	Interactive Lecture/SGD	3	MCQ's	5
30		Direct and Indirect Speech	Explain that how to change direct speech into indirect speech and vice versa.	C2				
31	Week-11	Definite and Indefinite Articles	Use the definite and indefinite articles correctly.	C3	Interactive	3	MCO's	5
32	vveek-11	Correct Prepositions	Insert correct prepositions of time and place in sentences.	C4	Lecture/SGD	5	IVICQS	Э

	TOPIC: READING COMPREHENSION Prodict content of toyt through titles subtitles non-linguistic											
37	Week-12	Content Prediction	Predict content of text through titles, subtitles, non-linguistic devices.	СЗ			Interactive	3	MCQ's	5		
38	week-12	Skimming Main Ideas	Interpret the main idea through skimming.	C4			Lecture/SGD	3	MCQS	5		
40		Specific Points through Scanning	Explain how to locate specific points of information through scanning.	C3								
41	Week-13	Skill of Inferring	Develop the skill of inferring meaning of a word by considering its context.	C3			Interactive Lecture/SGD	3	MCQ's	5		
42		Cohesive Devices	Recognize cohesive devices.	C1								
43		Literal Comprehension Questions	Discuss questions of literal comprehension.	C2								
44	Week-14	Re-Interpretation and Inference	Explain questions involving re-interpretation and inference.	C2			Interactive Lecture/SGD	3	MCQ's	5		
45		Personal Response Questions	Explain questions of personal response.	C2								
			TOPIC: REPORT WRITING									
46	Week-15	Biographical Information	Enlist biographical information of the field.	C1			Interactive	3	MCQ's	5		
47	week-15	Critical Observations	Illustrate observations critically.	C4			Lecture/SGD	5	WICQ'S	5		
48		Purpose and Function Of Visit	Establish purpose and function of the visit.	C5								
49	Week-16	Report Writing	Write a legible report with ideas following logically from one point to another.	C3			Interactive Lecture/SGD	3	MCQ's	5		
50		application	Exhibit to convince and persuade the recipient of an application	C3								

NU-106 INFORMATION AND COM-MUNICATION TECHNOLOGY 2(2-0)

The purpose of this course is to prepare the learners towards the basic understanding of information technology and computer skills. The learners will be able to reflect the use of information technology in the modern world. Learners will learn how to use the software and programs which include Word, Excel, Access, Power-Point, Outlook, Internet Surfing, and computer based nursing related programs and software's. The course is further 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 in shaping today's health care information system.

Cognitive Domain

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

- Discuss the role and importance of Information and technology in academia.
- 2. Discuss computer skills, application and how it affects nursing practice, and education.
- 3. Demonstrate skills in the use of a word processor (Microsoft Word), spreadsheet/data base (Microsoft Excel).
- 4. Demonstrate skills in preparing materials for presentation by slide, overhead, or computer projection (multimedia) using presentation software (PowerPoint)
- Demonstrate skills in accessing national/international networks, engines and databases using a virtual private network.
- Verbalize understanding of Internet and its use, value, and efficacy in communicating nursing knowledge.
- 7. Identify the use of computers in our own area of nursing practice.
- 8. Illustrate the effective use of computer and its software's in nursing where necessary
- Incorporate cognitive, interpersonal and technical skill derived from the humanities, natural and behavioral sciences when administrating medi-

cation to clients, keeping in mind principles of different drugs.

Affective Domain

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

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

TOS - NU-106 INFORMATION AND COMMUNICATION TECHNOLOGY 2(2-0)

CNL	NV. II.	6.1.1	1		Domair	ı	NAIT/			No of
S.No	Weeks	Content	Learning Outcomes	С	Р	Α	MIT's	Hours	Assesment	Items
			TOPIC: INTRODUCTION TO INFORMATION & COMMUNICA	NOITA	TECHNO	DLOGY				
1		ICT Definition	Define Information and communication technology.	C1						
2	Week-1	Importance of ICT	Discuss importance of using information and communication tech-nology in academics.	C2			Interactive Lecture/SGD	2	MCQ's	5
3		Computer Skills	Explain the role of computer skills in nursing education.	C2						
4		Computer and Related Terms	Discuss computer and its related terms.	C2						
5	\\\\\\-	Data	Discuss data and its types.	C1			Interactive	2	MCO/-	F
6	Week-2	Data Types	Explain numerical, alphabetic, and alpha numeric data.	C2			Lecture/SGD	2	MCQ's	5
7		Components of CBIS	Describe the components of computer based information systems.	C1						
			TOPIC: DATA AND INFORMATION							
8		Information	Define information.	C1						
9		Data and Information	Distinguish between data and information.	C4						
10	Week-3	Data Processing	Explain data processing.	C2			Interactive	2	MCQ's	5
11	vveek-3	Search Engine	Define search engine.	C1			Lecture/SGD	2	IVICQ S	
12		Online Resources	Use online resources and databases for searching information.	C3						
13		Online Information Means	Discuss the means of online information communication.	C2						

			TOPIC: BASIC UNITS OF COMPUTER					
14		prevent/treat infections	Define the commonly used antibiotics drug categories that is used to prevent /treat infections	C1				
15		action and effects	Briefly discuss action and effects of different commonly used antibiotics drugs	C2				
16	Week-4	antibiotics	Enlist some of the most commonly used antibiotics of each category	C1	Interactive Lecture/SGD	2	MCQ's	5
17		nursing measures/patient education	Discuss the nursing measures/patient education which can be taken if patient is using to treat and prevent infections with the use of antibiotics	C2				
			TOPIC: LANGUAGE & NUMBER SYSTEM	Л				
18		Input/Output/Memory	Distinguish among input, output unit and memory.	C4				
19	Week-5	ALU	Explain arithmetic logic unit – ALU	C2	Interactive	2	MCQ's	5
20	vveek-5	Control Unit	Discuss control unit.	C2	Lecture/SGD	2	IVICQS	5
21		Network Components	Discuss components of a computer network (Devices, Links, Protocol, and Defense).	C2				
			TOPIC: SYSTEM APPLICATION/ SOFTWA	RE				
22		Softwares	Discuss software and its types including operating system & translators.	C2				
23	Week-6	Application	Employ the application software i.e. general and specific purpose softwares.	C3	Interactive Lecture/SGD	2	MCQ's	5
24		Common Softwares	Enlist the commonly used softwares.	C1				
			TOPIC: INTERNET AND SECURITY					
25		Computer Virus	Explain computer virus and its types.	C2				
26		Antivirus Installation	Demonstrate step by step antivirus installation and up gradation.	C3				
27	Week-7	Computer Networking	Define computer network and its types.	C1	Interactive	2	MCO's	5
28	vveek-/	Internet and Email	Demonstrate to use internet and email applications.	C3	Lecture/SGD	2	IVICQ'S	3
29		Search Engines	Demonstrate how to use search engines for data searching and retrieval.	C3				
30		Online Databases	Use the online databases for searching information, articles and published studies	C3	CENTEDIC B			

			TOPIC: MS WORD						
31		MS Word	Define MS word and its interface.	C1					
32		Ribbon Types	Discuss ribbon and its parts.	C2					
33	Week-8	Button/Save/Save As/Quick Access	Use office button, save, save as and quick access toolbar.	С3		Interactive Lecture/SGD	2	MCQ's	5
34		Home Tab/Group/Commands	Describe home tab, its groups and commands.	C2					
35		Cut/Copy/Paste/Bold/Ital- ics/Font	Use to cut, copy, paste, bold, italic, font type and size the text.	С3					
36		Text Highlighting/Colors/ Formatting	Understand text highlighting, text color and text formatting.	C2					
37		Text Alignment/Bullets/ Shading	Discuss text alignment, bullets, and borders, shading and sort-ing.	C2					
38	Week-9	Tab Insertion	Understand inserting tab, its groups and commands.	C2		Interactive Lecture/SGD	2	MCQ's	5
39		Page Formatting/Numbers	Make cover page, blank page, page break, and page numbers.	С3					
40		Tables/Arts/Clips/Headers/ Footers	Prepare tables, pictures, clip arts, shapes, headers & footers, smart art charts.	С3					
41		Text Box/Art/Symbols	Construct text box, word art, drop cap and symbols.	C3					
42	W 1 10	Page Layout	Explain page layout tab its groups and commands.	C2		Interactive	2	MCO	-
43	Week-10	Themes/Colors/Effects/Columns	Construct theme, colors, fonts, effects margins, and columns.	С3		Lecture/SGD	2	MCQ's	5
44		Water Mark/Boarder/Colors	Put water mark, page color and page boarders on a document.	С3					
			TOPIC: MS POWER POINT						
46		MS PowerPoint	Discuss MS Power Point and its Interface.	C2					
47	Week-11	PowerPoint Presentation	Prepare MS PowerPoint with acceptable standards.	C3		Interactive	2	MCO's	5
48	vveek-11	Home Tab	Describe home tab, its groups and commands.	C2		Lecture/SGD	2	wicq's	3
49		New/Reset/Delete Slide	Learn to prepare new slide, reset and delete slide.	C1					

50		Tables/Charts/Pictures/Arts	Prepare tables, pictures, clip arts, shapes, smart art & charts in PowerPoint presentation	C3					
51	\\\\. 10	Box/Headers/Footers/Movie/Sounds	Insert text box, header, footer, word art, movie and sound.	C3		Interactive	2	MCO/-	F
52	Week-12	Tabs and Commands	Discuss tab its groups and command in PowerPoint presentation.	C2		Lecture/SGD	2	MCQ's	5
53		Slide Orientation	Insert page setup, slide orientations and themes in PowerPoint presentation.	С3					
54		Background Styles/Graphics	Prepare background styles and hide background graphics.	C3					
55	Week-13	Animation Tabs	Insert animation tab its groups and commands.	C3		Interactive	2	MCO's	5
56	week-13	Animation and Transition	Discuss custom animations and transitions.	C2		Lecture/SGD	۷	IVICQ'S	3
57		Transition Sound and Speed	Put transition's sound and speed in PowerPoint presentation.	C3					
58		Slide Show Tab	Demonstrate slide show tab its groups and commands.	C3					
59	Week-14	Slide Show	Learn the slide show from beginning, from current slide and custom show.	C1		Interactive	2	MCO's	5
60	vveek-14	Slide Show Setup	Understand the setup of slide show and hide slides.	C2		Lecture/SGD	2	IVICQS	5
61		Techniques	Understand the techniques to manage the slide show.	C2					
			TOPIC: MS EXCEL						
62		Cell/Rows/Columns	Define cell, rows, columns and sheets.	C1					
63	Week-15	Formula	Explain formula and putting values in excel sheet.	C2		Interactive Lecture/SGD	2	MCQ's	5
64		Cell Merging and Format- ting	Learn to merge cells, conditional formatting, and format tables.	C1					
65		Cell Styles/Filter/Find/Select	Discuss cell styles, sort and filter, find and select.	C2					
66	Week-16	Automatic Series Generation	Understand automatic series generation, automatic calculations.	C2		Interactive Lecture/SGD	2	MCQ's	5
67		DMCs/Merit List	Discuss how to create DMCs and merit lists.	C2					

NU-107 IDEOLOGY AND CONSTITU-TION OF PAKISTAN 2(2-0)

This course has been designed to enable the students to learn about the historical and ideological perspectives of Pakistan. The course is also intended to put light on the government, politics, ideological background and constitutional phases of the country. Furthermore; the learners would be able to understand the process of governance, national development, issues arising in the modern age and posing challenges to Pakistan.

Cognitive Domain

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

- 1. To develop vision of historical perspective, government, politics, and ideological background of Pakistan.
- 2. To study the process of governance, national development, issues arising in the modern age and posing challenges to Pakistan.

Affective Domain

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

- 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.
- Demonstrate ethically competent decisions when confronted with an ethical, social or moral problem related to professional or personal life.

TOS - NU-2? IDEOLOGY AND CONSTITUTION OF PAKISTAN 2(2-0)

CNo	Weeks	Content	Learning Outcomes	Domain			MIT's	Hauma	Accomment	No of
S.No				С	Р	Α	IVIIIS	Hours	Assesment	Items
TOPIC: HISTORICAL AND IDEOLOGICAL PERSPECTIVES OF PAKISTAN										
1		History and Ideology	Discuss the historical and ideological rationales with the special reference to Sir Syed Ahmed Khan.	C2			Interactive Lecture/SGD	2	MCQ's	
2	Week-1		Discuss the historical and ideological rationales with the special reference to Allama Muhammad Iqbal.	C2						5
3			Discuss the historical and ideological rationales with reference to Quaid-e-Azam Muhammad Ali Jin-nah.	C2						
4	Week-2	Muslims Separation	Determine the factors leading to Muslim separatism.	C4			Interactive Lecture/SGD	2	MCQ's	5
5	Week-3	People	Discuss about the people of the Indus Civilization and Muslim advent.	C2			Interactive Lecture/SGD	2	MCQ's	5
6	vveek-5	Land	Discuss about the land of the Indus Civilization and Muslim advent.	C2						5
7	Week-4	Location/Geo-Physical Features	Explain about the location and geo-physical features of Indus and Muslim civilizations.	C2			Interactive Lecture/SGD	2	MCQ's	5
TOPIC: GOVERNMENT, POLITICAL SYSTEM AND CONSTITUTION IN PAKISTAN										
8	Week-5	Government & Political System	Discuss the political and constitutional phase of Pakistan from 1947 to 1958.	C2			Interactive Lecture/SGD	2	MCQ's	5
9	Week-6	Political & Constitutional Phases	Understand the political and constitutional phase of Pakistan from 1958 to 1971.	C2			Interactive Lecture/SGD	2	MCQ's	5
10	Week-7 Week-8 Week-9		Discuss the political and constitutional phase of Pakistan from 1971 to 1977.	C2			Interactive Lecture/SGD	2	MCQ's	5
11			Analyze the political and constitutional phase of Pakistan from 1977 to 1988.	C2			Interactive Lecture/SGD	2	MCQ's	5
12			Evaluate the political and constitutional phase of Pakistan from 1988 to 1999.	C4			Interactive Lecture/SGD	2	MCQ's	5
13	Week-10		Conclude the political and constitutional phase of Pakistan from 1999 onward.	C5			Interactive Lecture/SGD	2	MCQ's	5

TOPIC: CONTEMPORARY PAKISTAN										
14		Economic Status	Explain the economy and economic status of Pakistan.	C2						
15	Week-11	Institutions	Discuss the hierarchy and role of key institutions in Pakistan.	C2			Interactive Lecture/SGD	2	MCQ's	5
16		Issues	Explain the key issues currently faced by Pakistan.	C2			_			
17	Week-12	Society and Societal Structure	Discuss the society and social structure in Pakistan.	C2			Interactive Lecture/SGD	2	MCQ's	5
18	Week-13	Ethnicity	Discuss about ethnicity and its importance in the social structure of Pakistan.	C2			Interactive Lecture/SGD	2	MCQ's	5
19	Week-14	Foreign Policy	Discuss about the foreign policy of Pakistan.	C2			Interactive Lecture/SGD	2	MCQ's	5
20	Week-15	Challenges	Explain the challenges in relation to the foreign policy of Pakistan.	C2			Interactive Lecture/SGD	2	MCQ's	5
21	Week-16	Futuristic Outlook	Relate the futuristic outlook of Pakistan.	C3			Interactive Lecture/SGD	2	MCQ's	5

Recommended Text Books

NU-101 FUNDAMENTALS OF NURSING-I 3(2-1)

- Carpinito L. J. (1998). Nursing Care Plans & Documentation: Nursing Diagnosis And Collaborative Problem (3rd Ed.) Philadelphia: Lippincott
- Craven, R. F., & Hirnle, C. J. (2000). Fundamentals of Nursing: Human Health and Function. (3rd Ed.). New York: Lippincott.
- Delaune, S. C., & Ladner, P. K. (2002). Fundamentals of Nursing: Standards and Practice. (2nd Ed.) Canada: Delmar.
- Erb, G. K., B. (2000). Fundamentals of Nursing: Concepts, Process and Practice (5th Ed.) Addison: Wesley.
- Potter, P. A & Perry, A. G. (2003). Basic Nursing: Essentials for Practice (5th Ed.) St. Louis: Mosby.

NU-102 MICROBIOLOGY 2(1.5-0.5)

- 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. (1997). Clinical Microbiology made ridiculously simple. 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. (1996). Microbiology and Infection. New York: Churchill Livingstone.
- Jawetz, R. (1992). Medical Microbiology. London: Appleton and Lange.
- Parker, M. J. (1978). Microbiology for Nurses. London: Bailliere Tindall.
- Stucke, A. V. (1993). Microbiology for Nurses. London: Bailliere Tindal

NU-103 ANATOMY & PHYSIOLOGY-I 3(2-1)

- Ross & Wilson. (2000) Anatomy and Physiology in Health & Illness; Edinburgh: Churchill, 8th Edition
- Guyton, A. C. (2001). Medical Physiology (10th Ed) Washington: Kirokawa.
- Tortora, G. J. (2000). Principles of Human Anatomy and Physiology (3rd Ed). New York: Happer & Row.

NU-104 BIOCHEMISTRY 2(2-0)

- Jacob A. (2004). Biochemistry for Nurses, 2nd Ed. New-Delhi: Jaypee Brothers.
- Chatterjea MN. (2004) Textbook of Biochemistry for Dental /Nursing / Pharmacy Students 2nd Ed, New Delhi Jaypee.
- Sackhiem, G. I. (1994).In Chemistry for the Health Science, 7th Ed, New York: Macmillan.
- Tortora, F. J., & Anagnostakos, N.P. (2000). Principles of Anatomy & Physiology, New York: Harper & Row.
- Lehninger N. I (1997) Principles of Biochemistry, 2nd Ed, New York: Worth.

NU-105 ENGLISH -FUNCTIONAL ENGLISH 3(0-0)

- 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: Penquin.
- 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.

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