

ANNEXURE 1

SYLLABUS

BASIC B. Sc NURSING



**BABA GHULAM SHAH BADSHAH
UNIVERSITY
RAJOURI-(J&K)**

**Established by Government of Jammu & Kashmir
Recognized by UGC under section 2(f) and 12(B)**

Programme Outcomes:

On the completion of the four year B.Sc. Nursing program the nursing graduate will be able to:

- PO1.** Integrate comprehension of nursing standards of excellence within the context of nursing skills and practice.
- PO2.** Recognize the need for the advancement of professional practice through contributions to education, administration, health care policy, and knowledge development.
- PO3.** Demonstrate caring, culturally responsive leadership communication
- PO4.** Effectively lead interdisciplinary healthcare teams by applying knowledge of professional nursing leadership roles in the healthcare system.
- PO5.** Demonstrate effective communication using principles of disciplined writing.
- PO6.** Demonstrate cognizant knowledge of inter-professional healthcare leadership roles for quality healthcare outcomes.
- PO7.** Demonstrate nursing leadership to facilitate interpersonal collaborations, conflict resolution, and team-building in health care systems
- PO8.** Advocate policy decisions to improve healthcare that is effective, timely, efficient, and equitable for all members of society.
- PO9.** Demonstrate an understanding of competent ethical principles and values of nursing practice.
- PO10.** Work with dedication towards advancing a culture of professional excellence and achievement through lifelong learning.

Programme Specific Outcomes:

PSOs of BSc Nursing

- PSO1.** Apply knowledge from physical, biological, and behavioural sciences, medicine including alternative systems, and nursing in providing nursing care to individuals, families and communities.
- PSO2.** Demonstrate understanding of life-style and other factors, which affect health of individuals and groups.
- PSO3.** Provide nursing care based on steps of nursing process in collaboration with the individuals and groups.
- PSO4.** Demonstrate critical thinking skill in making decisions in all situations in order to provide quality care.
- PSO5.** Utilize the latest trends and technology in providing health care.
- PSO6.** Provide promotive, preventive and restorative health services in line with the national health policies and programmes.
- PSO7.** Practice within the framework of code of ethics and professional conduct, and acceptable standards of practice within the legal boundaries.
- PSO8.** Communicate effectively with individuals and groups, and members of the health team in order to promote effective interpersonal relationships and teamwork.
- PSO9.** Demonstrate skills in teaching to individuals and groups in clinical/community health settings.
- PSO10.** Participate effectively as members of the health team in health care delivery system.
- PSO11.** Demonstrate leadership and managerial skills in clinical/ community health settings.
- PSO12.** Conduct need based research studies in various settings and utilize the research findings to improve the quality of care.
- PSO13.** Demonstrate awareness, interest, and contribute towards advancement of self and of the profession.

COURSE STRUCTURE

B. Sc Nursing (2016 -2020)

First Year B. Sc Nursing

S.No	Subjects	Theory Hours	Practical/ Clinical Hours	Hours
1	English	60		
2	Anatomy	60		
3	Physiology	60		
4	Nutrition	60		
5	Biochemistry	30		
6	Nursing Foundations	265 + 200	450	
7	Psychology	60		
8	Microbiology	60		
9	Introduction to Computers	45		
10	Library work/ Self Study			65
11	Co-curricular activities			65
Total		930	450	130
Total Hours		1480 HRS		

Second Year B. Sc Nursing

S.No	Course Title	Theory Hours	Practical/ Clinical Hours	Hours
1	Sociology	60		
2	Pharmacology	45		
3	Pathology	30		
4	Genetics	15		
5	Medical Surgical Nursing I	210	720	
6	Community Health Nursing I	90	135	
7	Communication and Educational Technology	60 + 30		
8	Library work/ Self Study			50
9	Co- curricular activities			35
Total		540	855	85
Total Hours = 1480 HRS				

Scheme of Examination

First Year

Distribution of Subjects and Marks for Internal Assessment and University Examination for First Year B. Sc Nursing

Course Code	Subject	Hours	Internal Assessment	University Examination	Total
	Theory				
NUR101	1. Anatomy and Physiology	3	25	75	100
NUR102	2. Nutrition and Biochemistry	3	25	75	100
NUR103	3. Nursing Foundations	3	25	75	100
NUR104	4. Psychology	3	25	75	100
NUR105	5. Microbiology	3	25	75	100
NUR106	6. English	3	25	75	100
NUR107	7. Introduction to Computers		25	75*	100*
	Practical and VivaVoce		Internal Assessment	University Examination	Total
NUR103(Pr*)	1. Nursing Foundations		100	100	200

*Practical

**** Respective colleges/ departments will conduct examination for “Introduction to Computer” as college examination. Marks to be sent to the Examination wing of the university through Principal, Nursing College Rajouri.**

Note: All practical examinations must be held in the respective clinical areas. One internal and one external should jointly conduct practical/ clinical examination for each student.

Second Year

Distribution of Subjects and Marks for Internal Assessment and University Examination for Second Year B. Sc Nursing

Course Code	Subject	Hours	Internal Assessment	University Examination	Total
	Theory				
NUR201	8. Sociology	3	25	75	100
NUR202	9. Medical Surgical Nursing I	3	25	75	100
NUR203	10. Pharmacology, Pathology, Genetics	3	25	75	100
NUR204	11. Community Health Nursing I	3	25	75	100
NUR205	12. Communication and Educational Technology	3	25	75	100
	Practical and VivaVoce		Internal Assessment	University Examination	Total
NUR202(Pr*)	2. Medical Surgical Nursing I		100	100	200

*Practical

FIRST YEAR B. SC NURSING



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Anatomy

Placement: First Year B.Sc Nursing

Time: Theory 60 Hours

Course code: - Nur101

Course Description: The course is designed to enable students to acquire knowledge of the normal Structure of various human body systems and understand the alterations in anatomical structures in disease and practice of nursing.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	5	<ul style="list-style-type: none"> Describe the anatomical terms, organization of human body and structure of cell, tissues, and membranes of glands. 	Introduction to Anatomical terms organizations of the human body Basic Construction of human body Levels of organisation Functional categories of body systems Relationship between anatomy and physiology Anatomical positions Regional and directional terms Body planes and sections Body cavities <ul style="list-style-type: none"> Human Cell structure Tissues-Definition, Types, characteristics, classification, location, functions and formation Membranes and glands - classification and structure Alterations in disease Applications and Implications in Nursing	<ul style="list-style-type: none"> Lecture Discussion Explain using charts, microscopic slides, Skeleton and torso Demonstrate cells, types of tissues, membranes and glands Record book 	<ul style="list-style-type: none"> Essay type Short answer questions Objective type

II	6	<ul style="list-style-type: none"> Describe the structure and function of bones and joints. 	<p>The Skeletal System</p> <ul style="list-style-type: none"> Bones-types, structure, Axial & Appendicular Skeleton, Bone formation and growth. Description of bones. Joints-classifications and structure <p>Synovial joint and types</p> <p>Alterations in disease</p> <p>Applications and Implications in nursing</p> <ul style="list-style-type: none"> Functions, Classification of bone Macroscopic, microscopic structure of the bone Matrix of the bone, Bone cells Periosteum Ossification <ul style="list-style-type: none"> Ossification center Types of the ossification Laws of ossification Long bone <ul style="list-style-type: none"> Parts of the long bone Blood supply of the long bone Factors regulating the bone growth Applied aspects <ul style="list-style-type: none"> Rickets Osteomalacia Osteoporosis Trauma and Injury Achondroplasia Bone remodeling <p>Joints</p> <ul style="list-style-type: none"> Definition Types <ul style="list-style-type: none"> Synarthroses <ul style="list-style-type: none"> Fibrous Cartilaginous 	<ul style="list-style-type: none"> Lecture Discussion Explain using charts, skeleton, loose bones and joints Record book 	<ul style="list-style-type: none"> Essay type Short answer questions Objective type
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			<ul style="list-style-type: none"> ○ Diarthroses <ul style="list-style-type: none"> ▪ Synovial joint (in detail) 		
III	7	<ul style="list-style-type: none"> • Describe the structure and function of muscles 	<p>The Muscular System</p> <ul style="list-style-type: none"> • Types and structure of muscles. • Muscle groups • Muscular tissues <ul style="list-style-type: none"> • Axial skeletal and joints • Bones of the upper limb <ul style="list-style-type: none"> ○ Identification features, parts, ossification • Bones of the lower limb <ul style="list-style-type: none"> ○ Identification features, parts, ossification • Joints of <ul style="list-style-type: none"> ○ Upper limb ○ Lower limb ○ Axial skeleton • Muscles, nerves and vessels (brief outline) <ul style="list-style-type: none"> ○ Upper limb ○ Lower limb ○ Axial muscles <p>Alterations in disease Applications and implications in nursing</p> 	<ul style="list-style-type: none"> • Lecture Discussion • Explain using Charts, Models, and films. • Demonstrate muscular movements. • Record Book 	<ul style="list-style-type: none"> • Essay type • Short answer questions • Objective type
IV	6	<ul style="list-style-type: none"> • Describe the structure & function of nervous system 	<p>The Nervous System</p> <ul style="list-style-type: none"> • Somatic Nervous System <ul style="list-style-type: none"> □ Structure of <ul style="list-style-type: none"> - brain, spinal cord, - cranial nerves, Spinal nerves - peripheral nerves • Autonomic Nervous System, <ul style="list-style-type: none"> - Sympathetic, - parasympathetic 	<ul style="list-style-type: none"> • Lecture Discussion • Explain using Models, charts, Slides, Specimens • Record book. 	<ul style="list-style-type: none"> • Essay type • Short answer questions • Objective type

			<ul style="list-style-type: none"> □ Structure, location □ Structure of neurons neuroglia • Coverings of the brain with Dural venous sinuses (brief outline) • Spinal cord (general features) • Brain stem(brief outline) <ul style="list-style-type: none"> ○ Midbrain, pons, medulla oblongata • Cerebellum <ul style="list-style-type: none"> ○ External features ○ Functions • Cerebrum <ul style="list-style-type: none"> ○ External features (all the surfaces) ○ Functional areas • Subarachnoid grey matter (only external features and functions) <ul style="list-style-type: none"> ○ Basal nuclei ○ Thalamus ○ Hypothalamus • Blood supply of the brain • Autonomic Nervous System <p>Alterations in disease Applications and implication in nursing</p>		
V	6	Explain the structure & functions of sensory organs.	<p>The Sensory Organs</p> <ul style="list-style-type: none"> • Structure of skin, eye, ear nose, tongue, (Auditory and olfactory apparatus) <p>Alterations in disease Application and implications in nursing</p>	<ul style="list-style-type: none"> • Lecture Discussion. • Explain using Models, Charts, Slides, Specimens • Record book. 	<ul style="list-style-type: none"> • Essay type • Short answer questions • Objective type

VI	7	<ul style="list-style-type: none"> Describe the structure & function of circulatory and lymphatic system. 	Circulatory and lymphatic system <ul style="list-style-type: none"> The Circulatory System <ul style="list-style-type: none"> Blood - Microscopic Structure. Structure of Heart (Anatomy, location, size) Structure of blood vessels – arterial and Venous System. Circulation: systemic, pulmonary, coronary. Lymphatic system. <ul style="list-style-type: none"> Lymphatic vessels and lymph. Lymphatic tissues. <ul style="list-style-type: none"> Thymus gland. Lymph nodes. Spleen. Lymphatic nodules. <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> Lecture Discussion Explain using Models, charts, Slides, Specimens Record book. 	<ul style="list-style-type: none"> Essay type Short answer questions Objective type
VII	5	<ul style="list-style-type: none"> Describe the structure & functions of respiratory system. 	The Respiratory System <ul style="list-style-type: none"> Structure of the organs of respiration. Muscles of respiration: Intercostals and Diaphragm. <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> Lecture Discussion Explain using Models, torso, Charts, Slides, Specimens Record book. 	<ul style="list-style-type: none"> Essay type Short answer questions Objective type
VIII	6	<ul style="list-style-type: none"> Describe the structure & functions of digestive system. 	The Digestive System <ul style="list-style-type: none"> Structure of Alimentary tract and accessory organs of digestion. <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> Lecture Discussion Explain using Models, torso, Charts, Slides, Specimens Record book 	<ul style="list-style-type: none"> Essay type Short answer questions Objective type.
IX	4	<ul style="list-style-type: none"> Describe the structure & functions of 	The Excretory system (Urinary) <ul style="list-style-type: none"> Structure of organs in Urinary System: 	<ul style="list-style-type: none"> Lecture Discussion Explain using 	<ul style="list-style-type: none"> Essay type Short

		excretory system.	<ul style="list-style-type: none"> - Kidney, Ureters, Urinary bladder, Urethra. <p>Alterations in disease Applications and implications in nursing</p>	<p>Models, Charts, Slides, Specimens</p> <ul style="list-style-type: none"> • Record book. 	<p>answer questions</p> <ul style="list-style-type: none"> • Objective type
X	4	<ul style="list-style-type: none"> • Describe the structure & functions of endocrine system. 	<p>The Endocrine system</p> <ul style="list-style-type: none"> • Structure of Pituitary, Pancreas, Thyroid, Parathyroid, Thymus and Adrenal glands. <p>Alterations in disease Applications and implications in nursing.</p>	<ul style="list-style-type: none"> • Lecture Discussion • Explain using Models, torso, Charts, Slides, Specimens • Record book. 	<ul style="list-style-type: none"> • Essay type • Short answer question. • Objective type
XI	4	<ul style="list-style-type: none"> • Describe the structure & functions of reproductive system. 	<p>The Reproductive system including breast</p> <ul style="list-style-type: none"> • Structure of female reproductive organs. • Structure of male reproductive organs. • Structure of breast. <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> • Lecture Discussion • Explain using Models, Charts, Slides, Specimens • Record book. 	<ul style="list-style-type: none"> • Essay type • Short answer question. • Objective type

Physiology

Placement: First Year B.Sc Nursing

Time: Theory 60 Hours

Course code: - Nur101

Course Description: The Course is designed to assist the students to acquire knowledge of the normal Physiology of various human body systems and understand the alterations in physiology in diseases and practice of nursing.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	4	<ul style="list-style-type: none">Describe the physiology of cell, tissues, membranes and glands	Cell Physiology <ul style="list-style-type: none">Tissue-formation, repair.Membranes and glands-functions.Homeostasis Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none">Lecture Discussion	<ul style="list-style-type: none">Essay typeShort answerObjective type questions
II	4	<ul style="list-style-type: none">Describe the bone formation, growth and movements of skeletal system.	Skeletal System <ul style="list-style-type: none">Bones formations & growth.Bone –Functions and movements of bones of axial and appendicular skeleton, bone healing.Joints and joint movement. Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none">Lecture DiscussionExplain using charts, models, and films.Demonstration of joint movements.	<ul style="list-style-type: none">Essay typeShort answerObjective type questions
III	4	<ul style="list-style-type: none">Describe the muscle movements, tone and demonstrate muscle contraction	Muscular System <ul style="list-style-type: none">Muscle movements Muscle tone, Physiology of muscle contraction, levels and maintenance of posture Alterations in disease Applications and implications in nursing	<ul style="list-style-type: none">Lecture DiscussionExplain using charts, models, and films.Demonstration of muscle	<ul style="list-style-type: none">Essay typeShort answerObjective type questions

		and tone.		movements, tone, and contraction.	
IV	7	<ul style="list-style-type: none"> Describe the physiology of nerve stimulus, reflexes, brain, cranial and spinal nerves. Demonstrate reflex action and stimulus. 	Nervous System <ul style="list-style-type: none"> Functions of Neurologia & neurons. Stimulus and nerve impulse: Definitions and mechanism. Functions of brain, spinal cord, cranial and spinal nerves. Cerebrospinal fluid- Formation, Composition, circulation and function. Reflex arc, Reflex action and reflexes. Autonomic functions- <ul style="list-style-type: none"> Pain: somatic, visceral, and referred. Autonomic learning and biofeedback. <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> Lecture Discussion Explain using charts, models, and films. Demonstrate nerve stimulation, reflex action, and reflexes. 	<ul style="list-style-type: none"> Essay type Short answer Objective type questions
V	8	<ul style="list-style-type: none"> Describe the physiology of blood and functions of heart. Demonstrate blood cell count, coagulation, grouping, Hb, B.P., and pulse monitoring. 	Circulatory System <ul style="list-style-type: none"> Blood formation, composition, blood groups, blood coagulation. Haemoglobin: Structure, Synthesis & breakdown, Variation of molecules, estimations. Functions of Heart, Conduction, Cardiac cycle, circulation Principles, Control, factors influencing BP and pulse. <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> Lecture Discussion. Explain using charts, films. Demonstration of blood cell count, coagulation, grouping, Haemoglobin estimation, Heart conduction system. Measurement of B.P, Pulse. 	<ul style="list-style-type: none"> Essay type Short answer Objective type questions

VI	6	<ul style="list-style-type: none"> Describe the physiology and mechanisms of respiration. Demonstrate spirometry. 	The Respiratory System <ul style="list-style-type: none"> Functions of respiratory organs. Physiology of respiration. Pulmonary ventilation, Volume. Mechanics of respiration. Gaseous exchange in lungs. Carriage of oxygen & carbon-dioxide. Exchange of gases in tissues. Regulation of respiration. <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> Lecture Discussion. Explain using charts, films. Demonstration of spirometry. 	<ul style="list-style-type: none"> Essay type Short answer Objective type questions
VII	6	<ul style="list-style-type: none"> Describe the physiology of digestive system. Demonstrate BMR. 	The Digestive System <ul style="list-style-type: none"> Functions of organs of digestive tract, Movement of alimentary tract, Digestion in mouth, stomach, small intestines, Large intestines, Absorption of food, functions of liver, gall bladder & pancreas Metabolism of carbohydrates, protein and fat. 	<ul style="list-style-type: none"> Lecture Discussion. Explain using charts, films. Demonstration of BMR 	<ul style="list-style-type: none"> Essay type Short answer questions Objective type
VIII	5	<ul style="list-style-type: none"> Describe the physiology of excretory system. 	The Excretory System <ul style="list-style-type: none"> Function of kidneys, ureters, urinary bladder & urethra. Composition of urine. Mechanism of urine formation. Functions of skin in excretion. Regulation of body temperature. Fluid and electrolyte balance and imbalance. <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> Lecture Discussion. Explain using charts, films. 	<ul style="list-style-type: none"> Essay type Short answer questions Objective type

IX	4	<ul style="list-style-type: none"> Describe the physiology of sensory organs. 	The Sensory Organs <ul style="list-style-type: none"> Functions of skin, eye, ear, nose, tongue. <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> Lecture Discussion. Explain using charts, films. 	<ul style="list-style-type: none"> Essay type Short answer questions Objective type
X	5	<ul style="list-style-type: none"> Describe the physiology of endocrine glands. 	The Endocrine system <ul style="list-style-type: none"> Functions of Pituitary, pineal body, thymus, thyroid, parathyroid, pancreas, Suprarenal, Placenta and Ovaries & Testes, adrenal gland. <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> Lecture Discussion. Explain using charts, films. 	<ul style="list-style-type: none"> Essay type Short answer questions Objective type
XI	5	<ul style="list-style-type: none"> Describe the physiology of female and male reproductive system. 	The Reproductive system <ul style="list-style-type: none"> Reproduction of cells-DNA, Mitosis, Meiosis, spermatogenesis, oogenesis. Functions of female reproductive organs; functions of breast, female sexual cycle, Physiology of menstruation. Introduction to embryology. Functions of male reproductive organs, Male function in reproduction, Male fertility system, <p>Alterations in disease Applications and implications in nursing</p>	<ul style="list-style-type: none"> Lecture Discussion. Explain using charts, films, models, specimens 	<ul style="list-style-type: none"> Essay type Short answer questions Objective type

XII	2	Describe the physiology of Lymphatic and immunological system.	Lymphatic and Immunological System <ul style="list-style-type: none"> • Circulation of lymph • Immunity <ul style="list-style-type: none"> <input type="checkbox"/> Formation of T-cells and B cells <input type="checkbox"/> Types of Immune response <input type="checkbox"/> Antigens <input type="checkbox"/> Cytokines <input type="checkbox"/> Antibodies 	<ul style="list-style-type: none"> • Lecture Discussion. • Explain using charts, films 	<ul style="list-style-type: none"> • Essay type • Short answer questions • Objective type
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Course outcome

Through this course the students will be able to:

CO1. Define anatomy and physiology and relate them to each other.

CO2. Discuss clinical significance of anatomical variations among humans.

CO3. Identify the major levels of organization in living beings.

CO4. Illustrate correct directional terms and relationships among body parts.

CO5. Explains the location and interaction of the muscles which facilitates bodily movements.

CO6. Identify major events in skeletal muscle contraction.

CO7. Describe the circulation and conduction of heart.

CO8. Describe structure of alimentary tract and organs of digestive tract.

Scheme of University Examination for Anatomy and Physiology

There shall be one theory paper of three hours duration for Anatomy and Physiology, carrying 75 marks. Section A- shall be Anatomy Carrying 37 marks and Section B- Physiology carrying 38 marks. Distribution of type of questions and marks for Anatomy and Physiology shall be as given under. There shall be no practical examination.

Distribution of type of questions and marks for Anatomy (Section A)

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	1	10	10
Short Essay (SE)	3	5	15
Short Answer (SA)	6	2	12
Total Marks			37

Distribution of type of questions and marks for Physiology (Section B)

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	1	10	10
Short Essay (SE)	4	5	20
Short Answer (SA)	4	2	8
Total Marks			38

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

Nutrition

Placement: First Year B.Sc Nursing

Time: Theory 60 Hours

Course code: - Nur102

Course Description: The course is designed to assist the students to acquire knowledge of nutrition for maintenance of optimum health at different stages of life and its application for practice of nursing.

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment method
	Th.	Pr.				
I	4		<ul style="list-style-type: none">Describe the relationship between nutrition & health	Introduction <ul style="list-style-type: none">Nutrition :HistoryConceptsRole of nutrition in maintaining health.Nutritional problems in India.National nutritional policy.Factors affecting food and nutrition: socio-economic, cultural, tradition, production, system of distribution, life style and food habits etc.Role of food and its medicinal value.Classification of foods.Food standards.Elements of nutrition: macro and micro.Calorie, BMR.	<ul style="list-style-type: none">Lecture discussionExplaining using chartsPanel discussion	<ul style="list-style-type: none">Essay typeShort answersObjective type
II	6		<ul style="list-style-type: none">Describe the classification, functions, sources and	Macro nutrients: Carbohydrates, Proteins, Fats <ul style="list-style-type: none">Classification	<ul style="list-style-type: none">Lecture cum discussionExplaining using charts	<ul style="list-style-type: none">Essay typeShort answers

			recommended daily allowances (RDA) of carbohydrates, fats and proteins.	<ul style="list-style-type: none"> • Calorie Value • Recommended daily allowances • Dietary sources • Functions • Digestion, absorption and storage, metabolism. • Malnutrition: Deficiencies and Over consumption. 		<ul style="list-style-type: none"> • Objective type
III	3		<ul style="list-style-type: none"> • Describe the daily calorie requirement for different categories of people. 	Energy <ul style="list-style-type: none"> • Unit of Energy-Kcal. • Energy requirements of different categories of people. • Measurements of energy. • Body Mass Index (BMI) and basic metabolism. • Basal Metabolic Rate (BMR)-determination and factors affecting it. 	<ul style="list-style-type: none"> • Lecture cum discussion • Explaining using charts • Exercise • Demonstration 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type
IV	8		<ul style="list-style-type: none"> • Describe the classification, functions, sources and recommended daily allowances (RDA) of Vitamins and Minerals. 	Micro nutrients : Vitamins, Minerals <ul style="list-style-type: none"> • Classification • Recommended daily allowances • Dietary sources • Functions • Absorption, synthesis, metabolism storage and excretion • Deficiencies Over consumption and toxicity <ul style="list-style-type: none"> • Hypervitaminosis 	<ul style="list-style-type: none"> • Lecture cum discussion • Explaining using charts 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type

V	3		<ul style="list-style-type: none"> Describe the sources, functions and requirements of Water & electrolytes. 	Water & electrolytes <ul style="list-style-type: none"> Water: Daily requirement, regulation of water metabolism, distribution of body water. Electrolytes: Types, sources, composition of body fluids. Maintenance of fluid & electrolyte balance. Over hydration, dehydration and water intoxication. Electrolyte imbalances. 	<ul style="list-style-type: none"> Lecture cum discussion Explaining using charts 	<ul style="list-style-type: none"> Essay type Short answers Objective type
VI	5	15	<ul style="list-style-type: none"> Describe the Cookery rules and preservation of nutrients. Prepare and serve simple beverages and different types of foods. 	Cookery rules and preservation of nutrients <ul style="list-style-type: none"> Principles, methods of cooking and serving. Preservation of nutrients. Safe Food handling-toxicity. Storage and preservation of food. Food fortification. Food additives and its principles. Prevention of Food Adulteration Act (PFA). Food Standards. Preparation of simple beverages and different types of food. 	<ul style="list-style-type: none"> Lecture cum discussion Demonstration Practice Session 	<ul style="list-style-type: none"> Essay type Short answers Objective type Assessment of practice sessions
VII	7	5	<ul style="list-style-type: none"> Describe and plan balanced diet for different categories of 	Balanced diet <ul style="list-style-type: none"> Elements. Food groups. Recommended Daily Allowances for different age 	<ul style="list-style-type: none"> Practice Session Meal planning 	<ul style="list-style-type: none"> Exercise on menu planning

			people.	groups. <ul style="list-style-type: none"> • Nutritive value of foods. • Calculation of balanced diet for different categories of people. • Planning menu. • Budgeting of food. • Introduction to therapeutic diets: Naturopathy - Diet. 		
VIII	4		<ul style="list-style-type: none"> • Describe the various national programmes related to nutrition. • Describe the role of nurse in assessment of nutritional status and nutrition education. 	Role of nurse in nutritional programmes <ul style="list-style-type: none"> • National programmes related to nutrition. • Vitamin A deficiency programme. • National Iodine deficiency disorder (IDD) programme. • Mid-day meal programme. • Integrated child development scheme (ICDS). • National and International agencies working towards food/nutrition. <ul style="list-style-type: none"> • NIPCCD, CARE, FAO, NIN, CFTRI (Central food technology and research institute) etc. • Assessment of nutritional status. • Nutrition education and role of nurse. 	<ul style="list-style-type: none"> • Lecture cum discussion • Explaining with Slide/Film shows • Demonstration of Assessment of nutritional status 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type

Biochemistry**Placement: First Year B.Sc Nursing**

Time: Theory 30 Hours

Course code: - Nur102

Course Description: The Course is designed to assist the students to acquire knowledge of the normal biochemical composition and functioning of human body and understand the alterations in biochemistry in diseases for practice of nursing.

Unit	Time (Hrs)	Learning Objectives	Content and	Teaching Learning Activities	Assessment Methods
I	3	<ul style="list-style-type: none">• Describe the structure Composition and functions of cell• Differentiate between Prokaryote & Eukaryote cell• Identify techniques of Microscopy	Introduction <ul style="list-style-type: none">• Definition and significance in nursing• Review of structure, Composition and functions of cell• Prokaryote and Eukaryote cell organization• Microscopy	<ul style="list-style-type: none">• Lecture discussion using charts, slides• Demonstrate use of microscope	<ul style="list-style-type: none">• Short answer questions• Objective type.
II	6	<ul style="list-style-type: none">• Describe the structure and functions of cell membrane	Structure and functions of Cell membrane <ul style="list-style-type: none">• Fluid mosaic model tight junction, Cytoskeleton• Transport mechanism: diffusion osmosis, filtration, active channel, sodium pump• Acid base balance-maintenance & diagnostic tests	<ul style="list-style-type: none">• Lecture discussion	<ul style="list-style-type: none">• Short answer questions• Objective type.

			<ul style="list-style-type: none"> • PH buffers 		
III	6	<ul style="list-style-type: none"> • Explain the metabolism of carbohydrates 	<p>Composition and metabolism of Carbohydrates</p> <ul style="list-style-type: none"> • Types, structure, composition and uses • Monosaccharides, Disaccharides, Polysaccharides, Oligosaccharides • Metabolism • Pathways of glucose: <ul style="list-style-type: none"> • Glycolysis • Gluconeogenesis: Cori's cycle, Tricarboxylic acid (TCA) cycle • Glycogenolysis • Pentose phosphate Pathways (Hexose mono phosphate) • Regulation of blood glucose level <p>Investigations and their interpretations</p>	<ul style="list-style-type: none"> • Lecture discussion using charts • Demonstration of laboratory tests 	<ul style="list-style-type: none"> • Short answer questions • Objective type.
IV	4	<ul style="list-style-type: none"> • Explain the metabolism of Lipids 	<p>Composition and metabolism of Lipids</p> <ul style="list-style-type: none"> • Types, Structure, composition and uses of fatty acids • Nomenclature, Roles and Prostaglandins 	<ul style="list-style-type: none"> • Lecture discussion using charts • Demonstration of laboratory tests 	<ul style="list-style-type: none"> • Short answer questions • Objective type.

			<ul style="list-style-type: none"> • Metabolism of fatty acid • Breakdown • Synthesis • Metabolism of triacylglycerols <ul style="list-style-type: none"> • Cholesterol metabolism • Biosynthesis and its Regulation • Bile salts and bilirubin • Vitamin D • Steroid hormones • Lipoproteins and their functions • VLDLs- IDLs, LDLs and HDLs • Transport of lipids • Atherosclerosis, Investigations and their interpretations 		
V	6	<ul style="list-style-type: none"> • Explain the metabolism of Amino acids and Proteins 	Composition and metabolism of Amino acids and Proteins <ul style="list-style-type: none"> • Types, structure, composition and uses of Amino acids and Proteins • Metabolism of Amino acids and Proteins <ul style="list-style-type: none"> • Protein synthesis, targeting and Glycosylation • Chromatography • Electrophoresis • Sequencing 	<ul style="list-style-type: none"> • Lecture discussion using charts • Demonstration of laboratory tests 	<ul style="list-style-type: none"> • Short answer questions • Objective type.

			<ul style="list-style-type: none"> Metabolism of Nitrogen <ul style="list-style-type: none"> Fixation and Assimilation Urea Cycle Hemes and chlorophylls Enzymes and co-enzymes <ul style="list-style-type: none"> Classification Properties Kinetics and inhibition Control <p>Investigations and their interpretations</p>		
VI	2	<ul style="list-style-type: none"> Describe types, composition and utilization of Vitamins & minerals 	Composition of Vitamins and minerals <ul style="list-style-type: none"> Vitamins and minerals: Structure, Classification, Properties, Absorption Storage & transportation Normal concentration Investigations and their interpretation 	<ul style="list-style-type: none"> Lecture discussion using charts Demonstration of laboratory tests 	<ul style="list-style-type: none"> Short answer questions Objective type.
VII	3	<ul style="list-style-type: none"> Describe Immuno-chemistry 	Immunochemistry <ul style="list-style-type: none"> Immune response, Structure and classification of immunoglobins Mechanism of antibody production Antigens: HLA typing Free radical and 	<ul style="list-style-type: none"> Lecture discussion using charts Demonstration of laboratory tests 	<ul style="list-style-type: none"> Lecture discussion using charts Demonstration of laboratory tests

			Antioxidants <ul style="list-style-type: none"> • Specialized Protein: Collagen, Elastin, Keratin, Myosin, Lens Protein. • Electrophoretic and Quantitative determination of immunoglobins – ELISA etc. • Investigations and their interpretations 		
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Course Outcomes

Through this course the students will be able to:

CO1. Identify the common nutritional problems and rectify them.

CO2. Develop and expand cooking skills through controlled and guided activities.

CO3. Provide an advanced understanding of the core principles and topics of biochemistry.

CO4. Learn about the normal biochemical reactions in human body.

CO5. Utilize knowledge from the physical and biological sciences as a basis for understanding the role of food and nutrients in health and disease process.

CO6. Provide nutrition counseling and education to individuals, groups, and communities throughout the life span using a variety of communication strategies.

CO7. Introduce the nutrition and factors affecting food and nutrition, socio-economic, cultural, traditional production system of distribution of style and food habits etc.

CO8. Explain about carbohydrates, their classification and malnutrition deficiencies and over compensation related problems of CHO.

Scheme of University Examination for Nutrition and Biochemistry

There shall be one theory paper of three hours duration for Nutrition and Biochemistry, carrying 75 marks. Section A- shall be Nutrition Carrying 45 marks and Section B- Biochemistry carrying 30 marks. Distribution of type of questions and marks for Anatomy and Physiology shall be as given under. There shall be no practical examination.

Distribution of type of questions and marks for Nutrition (Section A)

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	2	10	20
Short Essay (SE)	3	5	15
Short Answer (SA)	5	2	10
Total Marks			45

Distribution of type of questions and marks for Biochemistry (Section B)

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	1	10	10
Short Essay (SE)	2	5	10
Short Answer (SA)	5	2	10
Total Marks			30

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

Nursing Foundations

Placement: First Year B.Sc Nursing

Time: Theory 265Hours

Course code: - Nur103

Course Description: The course is designed to help the students to develop an understanding of the philosophy, objective, theories and process of nursing in various Supervised Clinical settings. It is aimed at helping the students to acquire knowledge, understanding and skills in techniques of nursing and practice them in Supervised Clinical settings.

Unit	Time (Hrs)	Learning Objective	Content	Teaching Learning Activities	Assessment Methods
I.	10	<ul style="list-style-type: none">Describe the concept of health, illness and health care agencies	Introduction <ul style="list-style-type: none">Concept of Health: Health – illness continuum.Factors influencing health.Causes and risk factors for developing illness.Body defenses: Immunity and immunization.Illness and illness Behavior.Impact of illness on patient and family.Health Care Service: Health Promotion and Prevention Primary Care, Diagnosis, Treatment, Rehabilitation and Continuing Care.Health care teams.Type of health care agencies.Hospitals: Types, Organization and Functions.Health Promotion and Levels of Disease Prevention.Primary health care and its delivery: Role of nurse.	<ul style="list-style-type: none">Lecture DiscussionVisit to health care agencies	<ul style="list-style-type: none">Essay typeShort answersObjective typeAssessment of skills with check list
II	16	<ul style="list-style-type: none">Explain concept and scope of nursingDescribe value,	Nursing as a profession <ul style="list-style-type: none">Definition and Characteristics of a profession.Nursing:	<ul style="list-style-type: none">Lecture Discussion,Case Discussion,	<ul style="list-style-type: none">Essay typeShort answers

		code of ethics and professional conduct for nurses of India	<ul style="list-style-type: none"> <input type="checkbox"/> Definition, Concepts, philosophy, objectives. <input type="checkbox"/> Characteristics, nature and scope of nursing practice. <input type="checkbox"/> Functions of nurse <input type="checkbox"/> Qualities of a nurse. <input type="checkbox"/> Categories of nursing personnel. <input type="checkbox"/> Nursing as a profession. <input type="checkbox"/> History of Nursing in India. • Principles that guide nursing action. • Values: Definition, Types, Values Clarification and values in professional Nursing: Caring and Advocacy. • Ethics: <ul style="list-style-type: none"> <input type="checkbox"/> Definition and Ethical Principles. <input type="checkbox"/> Code of ethics and professional conduct for nurses 	<ul style="list-style-type: none"> • Role plays. 	<ul style="list-style-type: none"> • Objective type • Assessment of skills with check list
III	4	<ul style="list-style-type: none"> • Explain the admission and discharge procedure • Performs admission and discharge procedure 	Hospital admission and discharge <ul style="list-style-type: none"> • Admission to the hospital. <ul style="list-style-type: none"> <input type="checkbox"/> Unit and its preparation - admission bed. <input type="checkbox"/> Admission procedure. <input type="checkbox"/> Special considerations. <input type="checkbox"/> Medico-legal issues. <input type="checkbox"/> Roles and Responsibilities of the nurse. • Discharge from the hospital. <ul style="list-style-type: none"> <input type="checkbox"/> Types: Planned discharge, LAMA and abscond, Referrals and transfers. <input type="checkbox"/> Discharge Planning. 	Lecture, Discussion, Demonstration, Lab Practice, Supervised Clinical Practice	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type • Assessment of skills with check list

			<input type="checkbox"/> Discharge procedure. <input type="checkbox"/> Special considerations, adjusting the environment to the needs of the patient. <input type="checkbox"/> Medico-legal issue. <input type="checkbox"/> Roles and Responsibilities of the nurse. <input type="checkbox"/> Care of the Unit after discharge		
IV	10	<ul style="list-style-type: none"> Communicate effectively with patient, families and team members and maintain effective human relations (projecting professional image) Appreciate the importance of patient teaching in nursing 	Communication and Nurse patient relationship <ul style="list-style-type: none"> Communication: Levels, Elements, Types, Modes, Process, Factors influencing Communication. Principles of communications. <input type="checkbox"/> Methods of Effective Communication. <input type="checkbox"/> Attending skills <input type="checkbox"/> Rapport building skills. <input type="checkbox"/> Empathy skills. <input type="checkbox"/> Barriers to effective communication. Helping Relationships (NPR) : Dimensions of Helping Relationships, Phases of a helping relationship Communication effectively with patient, families and team members and maintain effective human relations with special reference to communicating with vulnerable group (children women, physically and mentally challenged and elderly). Patient Teaching: Importance, Purpose, Process, role of nurse 	<ul style="list-style-type: none"> Lecture, Discussion, Role play and Video film on the nurses interacting with the patient, Practice session on patient teaching, Supervised Clinical Practice 	<ul style="list-style-type: none"> Essay type Short answers Objective type Assessment of skills with check list

			and Integrating teaching in Nursing Process.		
V	15	<ul style="list-style-type: none"> • Explain the concept, uses, format and steps of nursing process • Documents nursing process as per the format. 	The Nursing Process <ul style="list-style-type: none"> • Critical Thinking and Nursing judgment. <ul style="list-style-type: none"> <input type="checkbox"/> Critical Thinking : Thinking and learning , <input type="checkbox"/> Competencies, Attitudes for Critical Thinking, Level of critical thinking in Nursing. • Nursing Process Overview: Application in practice. <ul style="list-style-type: none"> <input type="checkbox"/> Nursing process format: INC, current format. <input type="checkbox"/> Assessment. <ul style="list-style-type: none"> ▪ Collection of Data: Types, Sources, Methods. ▪ Formulating Nursing judgment: Data interpretation. <input type="checkbox"/> Nursing diagnosis. <ul style="list-style-type: none"> ▪ Identification of client problems. ▪ Nursing diagnosis statement. ▪ Difference between medical and nursing diagnosis. <input type="checkbox"/> Planning. <ul style="list-style-type: none"> ▪ Establishing Priorities. ▪ Establishing Goals and expected Outcomes, ▪ Selection of interventions: Protocols and standing orders. ▪ Writing the Nursing Care plan. <input type="checkbox"/> Implementing <ul style="list-style-type: none"> - Implementing the plan of care. <input type="checkbox"/> Evaluation. 	<ul style="list-style-type: none"> • Lecture, discussion, • Demonstration exercise, supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type • Assessment of skills with check list

			<ul style="list-style-type: none"> - Outcome of care. - Review and Modify. <input type="checkbox"/> Documentation and Reporting. 		
VI	4	<ul style="list-style-type: none"> • Describe the purposes, types and techniques of recording and reporting 	Documentation and Reporting <ul style="list-style-type: none"> • Documentation: Purposes of Recording and reporting. • Communication within the Health Care Team, • Types of records; ward records, medical / nursing records, • Common Record-keeping forms, computerized documentation. • Guidelines for Reporting: Factual Basis, Accuracy, Completeness, current issue, Organization, confidentiality. • Methods of Recording. • Reporting Change of shift reports: Transfer reports, Incident reports. <ul style="list-style-type: none"> • Minimizing legal Liability through effective record keeping. 	<ul style="list-style-type: none"> • Lecture discussion • Demonstration • Practice session, • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type • Assessment of skills with check list
VII	15	<ul style="list-style-type: none"> • Describe principles and techniques of monitoring and maintaining vital signs • Monitor and maintain vital signs 	Vital signs <ul style="list-style-type: none"> • Guidelines for taking vital signs: • Body temperature : <ul style="list-style-type: none"> <input type="checkbox"/> Physiology, Regulation, Factors affecting body temperature, <input type="checkbox"/> Assessment of body temperature: sites, equipments and technique, special considerations. <input type="checkbox"/> Temperature alterations: Hyperthermia, Heatstroke, Hypothermia. <input type="checkbox"/> Hot and cold applications. 	<ul style="list-style-type: none"> • Lecture discussion • Demonstration • Practice session, • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type • Assessment of skills with check list

			<ul style="list-style-type: none"> • Pulse : <ul style="list-style-type: none"> □ Physiology and Regulation, Characteristics of the pulse, Factors affecting pulse. □ Assessment of pulse: site, location, equipments and technique, special considerations. □ Alterations in pulse: • Respiration : <ul style="list-style-type: none"> □ Physiology and Regulation Characteristics of the respiration, factors affecting respiration. □ Assessment of respirations: technique, special considerations. □ Alterations in respiration. • Blood Pressure: <ul style="list-style-type: none"> □ Physiology and Regulation, Characteristics of the blood pressure, Factors affecting blood pressure. □ Assessment of blood pressure sites, equipments and technique, special considerations. □ Alterations in blood pressure. • Recording of vital signs. 		
VIII	30	<ul style="list-style-type: none"> • Describe purpose and process of health assessment • Describe the health assessment of each body 	Health assessment <ul style="list-style-type: none"> • Purposes. • Process of Health assessment. <ul style="list-style-type: none"> □ Health History □ Physical examination <ul style="list-style-type: none"> - Methods- Inspection, Palpation, Percussion, Auscultation, Olfaction. - Preparation for examination: 	<ul style="list-style-type: none"> • Lecture discussion • Demonstration • Practice session, • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type • Assessment of skills with

		system <ul style="list-style-type: none"> Perform health assessment of each body system 	patient and Unit. <ul style="list-style-type: none"> General assessment. Recording of health assessment. Assessment of each body system. 		check list
IX	5	<ul style="list-style-type: none"> Identify the various machinery equipment and linen and their care 	Machinery, Equipment and lines <ul style="list-style-type: none"> Type: Disposables and reusable's- Linen, rubber goods, glass ware, metal, plastics, Introduction: <ul style="list-style-type: none"> <input type="checkbox"/> Indent <input type="checkbox"/> Maintenance <input type="checkbox"/> Inventory 	<ul style="list-style-type: none"> Lecture discussion, Demonstration, 	<ul style="list-style-type: none"> Essay type Short answers Objective type Assessment of skills with check list
X	60	<ul style="list-style-type: none"> Describe the basic psychological needs of patient Describe the principles and techniques for meeting basic physiological needs of patient Perform nursing assessment, plan implement and evaluate the care for meeting basic physiological and psychological 	Meeting needs of patient <ul style="list-style-type: none"> Basic needs (Activities of daily living). <ul style="list-style-type: none"> <input type="checkbox"/> Providing safe and clean environment: <ul style="list-style-type: none"> Physical environment: <ul style="list-style-type: none"> Temperature, Humidity, Noise, Ventilation, light, Odors, pests control. Reduction of Physical hazards: fire, accident. Safety devices: Restraints, side rails, airways, trapeze, etc. Role of nurse in providing safe and clean environment. <input type="checkbox"/> Hygiene:- 	<ul style="list-style-type: none"> Lecture discussion Demonstration Practice session, Supervised clinical practice 	<ul style="list-style-type: none"> Essay type Short answers Objective type Assessment of skills with check list

		needs of patient	<ul style="list-style-type: none"> - Factors Influencing. - Hygienic Practice. - Hygienic care: Care of the Skin-Bath and pressure points, feet and nail, Oral cavity, Hair Care, Eyes, Ears, and Nose. ○ Assessment, Principles, Types, Equipments, Procedure, Special Considerations. - Patient environment: Room Equipment and linen, making patient beds. ○ Types of beds and bed making. □ Comfort:- <ul style="list-style-type: none"> - Factors including Comfort. - Comfort devices. ● Physiological needs: <ul style="list-style-type: none"> □ Sleep and Rest: <ul style="list-style-type: none"> - Physiology of sleep. - Factors affecting sleep. - Promoting Rest and sleep. - Sleep Disorders. □ Nutrition:- <ul style="list-style-type: none"> - Importance. - Factors affecting nutritional needs. - Assessment of nutritional needs: Variables. - Meeting Nutritional needs: Principles, equipments, Procedure and special considerations ○ Oral ○ Enteral: Naso/Orogastric, gastrostomy ○ Parenteral: □ Urinary Elimination 		
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			<ul style="list-style-type: none"> - Review of Physiology of urine Elimination, composition and characteristics of urine. - Factors Influencing Urination. - Alteration in Urinary Elimination. - Types and collection of urine specimen: Observation, urine testing. - Facilitating urine elimination: assessment, types, equipments, procedures and special considerations. <ul style="list-style-type: none"> ○ Providing urinal/bed pan. ○ Condom drainage. ○ Perineal care. ○ Catheterization. ○ Care of urinary drainage. ○ Care of urinary diversions. ○ Bladder irrigation. □ Bowel Elimination. <ul style="list-style-type: none"> - Review of Physiology of Bowel elimination, Composition and characteristics of faces. - Factors affecting Bowel elimination. - Alteration in Bowel Elimination. - -Types and Collection of specimen of faces: Observation. - -Facilitating bowel elimination, procedures and special considerations. <ul style="list-style-type: none"> ○ Passing of Flatus tube. ○ Enemas. 		
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			<ul style="list-style-type: none"> ○ Suppository. ○ Sitz bath. ○ Bowel wash. ○ Care of Ostomies. □ Mobility and immobility. <ul style="list-style-type: none"> - Principles of Body Mechanics. - Maintenance of normal body. - Alignment and mobility. - Factors affecting body Alignment and mobility. - Hazards associated with immobility. - Alteration in body alignment and mobility. - Nursing interventions for impaired Body Alignment and, Mobility: assessment, types, devices used, method and Special considerations rehabilitation aspects. ○ Range of motion exercises. ○ Maintaining body alignment: Positions, ○ Moving. ○ Lifting. ○ Transferring. ○ Walking. ○ Restraints. □ Oxygenation <ul style="list-style-type: none"> - Review of Cardiovascular and respiratory Physiology. - Factors Affecting Oxygenation. - Alterations in Oxygenation. - Nursing interventions in oxygenation: assessment, Types of equipment used, procedure and special 		
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			<p>considerations.</p> <ul style="list-style-type: none"> ○ Maintenance of patent airway. ○ Oxygen administration. ○ Suction. ○ Inhalations: dry and moist postural drainage. ○ Care of Chest drainage. ○ Pulse-oximetry. ○ CPR-Basic life support. <p>□ Fluid, Electrolyte, and Acid-Base Balances.</p> <ul style="list-style-type: none"> - Review of Physiological. - Regulation of Fluid, Electrolyte, and Acid-Base Balances. - Factors Affecting Fluid, Electrolyte, and Acid Base balances. - Alterations in Fluid, Electrolyte, and Acid-Base Balances. - Nursing interventions in fluid, Electrolyte, and Acid. - Base Imbalances: assessment, types, and equipment, procedure and special considerations. <ul style="list-style-type: none"> ○ Measuring fluid intake and output. ○ Correcting fluid, Electrolyte Imbalance: <p>✓ Replacement of fluids: Oral and Parenteral - Venipuncture, regulating IV Flow rates, changing IV solutions and tubing, Changing IV dressing.</p> <p>✓ Administering Blood transfusion.</p>		
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			<ul style="list-style-type: none"> ✓ Restriction of fluids. • Psychosocial Needs. <ul style="list-style-type: none"> □ Concepts of Cultural Diversity, Stress and Adaptation, Self –concept, Sexuality, Spiritual Health, Coping with loss, death and grieving. □ Assessment of psychosocial needs. □ Nursing intervention for Psychosocial needs. <ul style="list-style-type: none"> - Assist with coping and adaptation. - Creating therapeutic environment. □ Recreational and diversional therapies. 		
XI	20	<ul style="list-style-type: none"> • Describe principles and techniques for infection control and biomedical waste management in supervised clinical settings 	Infection control in Clinical settings <ul style="list-style-type: none"> • Infection control. <ul style="list-style-type: none"> □ Nature of infection. □ Chain of infection transmission. □ Defenses against infection: natural and acquired. □ Hospital acquired infection (Nosocomial infection). • Concept of asepsis: medical asepsis, and surgical asepsis. • Isolation precautions (Barrier nursing): <ul style="list-style-type: none"> □ Hand washing: simple, hand antisepsis (scrub). □ Isolation: Source and protective. □ Personal protecting equipments: types, uses and technique of wearing 	<ul style="list-style-type: none"> • Lecture discussion • Demonstration • Practice session, • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type • Assessment of skills with check list

			<p>and removing.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Decontamination of equipment and Unit. <input type="checkbox"/> Transportation of infected patients. <input type="checkbox"/> Standard safety precautions (Universal precautions). <input type="checkbox"/> Transmission based precautions. • Biomedical waste management: <ul style="list-style-type: none"> <input type="checkbox"/> Importance. <input type="checkbox"/> Types of hospital waste. <input type="checkbox"/> Hazards associated with waste. <input type="checkbox"/> Decontamination of hospital waste. <input type="checkbox"/> Segregation and Transportation and disposal. 		
XII	40	<ul style="list-style-type: none"> • Explain the principles, routes, effects of administration of medications • Calculate conversions of drugs and dosages within and between systems of measurements • Administer drugs by the following routes – oral, intradermal, subcutaneous, intramuscular, intravenous, 	<p>Administration of Medications</p> <ul style="list-style-type: none"> • General Principles/Considerations. <ul style="list-style-type: none"> <input type="checkbox"/> Purpose of Medication. <input type="checkbox"/> Principles: 5 rights, Special Considerations, Prescriptions, Safety in Administering Medications and Medication Errors. <input type="checkbox"/> Drugs forms. <input type="checkbox"/> Routes of administration. <input type="checkbox"/> Storage and maintenance of drugs and Nurses. Responsibility. <input type="checkbox"/> Broad classification of drugs. <input type="checkbox"/> Therapeutic Effect, Side 	<ul style="list-style-type: none"> • Lecture discussion • Demonstration • Practice session, • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type • Assessment of skills with check list

		topical, inhalation	<p>Effects, Toxic Effects, Idiosyncratic Reactions, Idiosyncratic Reactions, Allergic, Reactions, Drug Tolerance, Drug Interactions,</p> <ul style="list-style-type: none"> <input type="checkbox"/> Factors influencing drug Actions, <input type="checkbox"/> Systems of Drug Measurement: Metric System, Apothecary System, Household Measurements, Solutions. <input type="checkbox"/> Converting Measurements, Units: Conversion within one system, Conversion between system, Dosage Calculation, <input type="checkbox"/> Terminologies and abbreviations used in prescriptions of medication. <ul style="list-style-type: none"> • Oral Drugs Administration: Oral, Sublingual and Buccal: Equipment, procedure. • Parenteral <ul style="list-style-type: none"> <input type="checkbox"/> General principles: decontamination and disposal of syringes, needles, <input type="checkbox"/> Types of parenteral therapies. <input type="checkbox"/> Types of syringes, needles, Canula, and infusion sets. <input type="checkbox"/> Protection from Needlestick injuries: Giving Medications with a safety syringes. <input type="checkbox"/> Routes of parenteral therapies. <ul style="list-style-type: none"> - Intradermal: purpose, site, equipment, procedure, special considerations. 		
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			<ul style="list-style-type: none"> - Subcutaneous: purpose, site, equipment, procedure, special considerations. - Intramuscular: purpose, site, equipment, procedure, special considerations. - Intra Venous: purpose, site, equipment, site, equipment procedure, special considerations. - Advanced techniques: epidural, intrathecal, intraosseous, intraperitoneal, intraplural, intraarterial. <p>Role of nurses.</p> <ul style="list-style-type: none"> • Topical Administration: Purposes, site, equipment, procedure, special considerations for: <ul style="list-style-type: none"> <input type="checkbox"/> Application to Skin. <input type="checkbox"/> Application to mucous membrane. - Direct application of liquids- Gargle and swabbing the throat. - Insertion of Drug into body cavity: Suppository/ medicated packing in rectum/vagina. - Instillations:, Ear, Eye, Nasal, Bladder, Vaginal and Rectal. - Irrigations: Eye, Ear, Bladder, Vaginal and Rectal. - Spraying: Nose and throat. • Inhalation, Nasal, Oral, endotracheal / tracheal (steam, 		
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			<p>oxygen and medications) - purposes, types, equipment, procedure, special considerations.</p> <p><input type="checkbox"/> Recording and reporting of medications administered.</p>		
XIII	10	<ul style="list-style-type: none"> • Describe the pre and post operative care of patients • Explain the process of wound healing • Explain the principles and techniques of wound care • Perform care of wounds 	<p>Meeting needs of perioperative patients</p> <ul style="list-style-type: none"> • Definition and concept of perioperative Nursing. • Preoperative Phase. <ul style="list-style-type: none"> <input type="checkbox"/> Preparation of patient for surgery. • Intraoperative. <ul style="list-style-type: none"> <input type="checkbox"/> Operation theatre Set up and environment. <input type="checkbox"/> Role of nurse. • Postoperative phase. <ul style="list-style-type: none"> <input type="checkbox"/> Recovery Unit. <input type="checkbox"/> Post operative Unit. <input type="checkbox"/> Postoperative care, • Wounds: types, Classifications, wound Healing Process, Factors affecting Wound, Complications of Wound Healing. • Surgical asepsis. • Care of the wound: types, equipment, procedure and special considerations. <ul style="list-style-type: none"> <input type="checkbox"/> Dressing, Suture Care, <input type="checkbox"/> Care of Drawings. <input type="checkbox"/> Application of Bandages, Binders, Splints & Slings Heat and Cold Therapy. 	<ul style="list-style-type: none"> • Lecture discussion • Demonstration • Practice session, • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type • Assessment of skills with check list
XIV	15	<ul style="list-style-type: none"> • Explain care of 	Meeting special needs of the	Lecture,	<ul style="list-style-type: none"> • Essay

		<p>patients having alterations in body functioning</p>	<p>patient</p> <ul style="list-style-type: none"> • Care of patients having alteration in: <ul style="list-style-type: none"> □ Temperature (hyper and hypothermia): Types, Assessment, and Management. □ Sensorium (Unconsciousness): Assessment, Management. □ Urinary Elimination (retention and incontinence) Assessment, Management. □ Functioning of sensory organs: (Visual & hearing impairment). □ Assessment of Self-Care ability. □ Communication Methods and special considerations. □ Mobility (physically challenged, cast), assessment of Self-Care ability: Communication methods □ and special considerations. □ Mental state (mentally challenged), assessment of Self-Care ability ; □ Communication Methods and special considerations. □ Respiration (distress): types, Assessment. □ Comfort-(Pain)-Nature, Types, factors influencing Pain, coping Assessment management. • Treatments related to gastrointestinal system; naso-gastric suction, gastric irrigation, gastric analysis. 	<p>discussion, case discussions, supervised clinical practice</p>	<p>type</p> <ul style="list-style-type: none"> • Short answers • Objective type • Assessment of skills with check list
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XV	5	Explain care of terminally ill patient	Care of terminally ill patient <ul style="list-style-type: none"> <input type="checkbox"/> Concepts of Loss, Grief, grieving Process. <input type="checkbox"/> Signs of clinical death. <input type="checkbox"/> Care of dying patient: special considerations. - Advance directives: euthanasia, will dying declaration, organ donation etc. <input type="checkbox"/> Medico-legal issues. <input type="checkbox"/> Care of dead body: equipment, procedure and care of Unit. <input type="checkbox"/> Autopsy. <input type="checkbox"/> Embalming. 	<ul style="list-style-type: none"> • Lecture discussion, • Demonstration, case discussion/ Role play, • Practice session, • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type • Assessment of skills with check list
XVI	6	<ul style="list-style-type: none"> • Explain the basic concepts of conceptual and theoretical models of nursing 	Professional Nursing concepts and practices <ul style="list-style-type: none"> • Conceptual and theoretical models of nursing practice. Introduction to models, health belief model, health promotion model etc. • Introduction to Theories in Nursing; Peplau's Henderson's, Orem's Neuman's, Rogar's and Roy's. • Linking theories with nursing process. 	<ul style="list-style-type: none"> • Lecture, discussion, 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type • Assessment of skills with check list

Course Outcomes

Through this course the students will be able to:

CO1. Identify theoretical principles and critical behaviors of fundamental nursing.

CO2. Demonstrate professional standards of moral, ethical, and legal conduct.

CO3. Utilize the nursing process in the care of all clients.

CO4. Monitor client outcomes to evaluate the effectiveness of interventions

CO5. Distinguish the concept of health and illness and their influencing factors, body defenses, health Care Services and Role of nurse in health care agencies.

CO6. Understand definition, concepts, scope, categories of nursing practice and personnel and the Principles that guide nursing action.

CO7. Explain guidelines for taking vital signs such as body temperature, Pulse, respiration, blood Pressure by following principles and techniques of monitoring and maintaining vital signs.

CO8. Develops knowledge regarding health assessment by using various Methods such as Inspection, Palpation, Percussion, Auscultation, and Olfaction in performing health assessment of each body system

Scheme of University Examination for Nursing Foundations Theory

There shall be one theory paper of three hours duration carrying 75 marks.

Distribution of type of questions and marks for Nursing Foundations shall be as given under.

There shall be no practical examination.

.Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	2	10	20
Short Essay (SE)	7	5	35
Short Answer (SA)	10	2	20
Total Marks			75

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

Nursing Foundations – Practical

Placement: First Year B.Sc Nursing

Time: Practical - 650Hours (200 Lab + 450 Clinical)

Course code: - Nur103 (Pr*)

Course Description: The course is designed to help the students to develop an understanding of the philosophy, objective, theories and process of nursing in various Supervised Clinical settings. It is aimed at helping the students to acquire knowledge, understanding and skills in techniques of nursing and practice them in Supervised Clinical settings.

Areas	Time (Hrs)	Objectives	Skills	Assignments	Assessment method
Demonstration, lab, general Medical and Surgery ward	200 450 minimum practice time in clinical area:	<ul style="list-style-type: none">• Performs admissions and discharge procedure.• Prepares nursing care plans as per the nursing process	<ul style="list-style-type: none">• Hospital admission and discharge (III)• Admission• Prepare unit for new patient• Prepare admission bed• Perform admission procedure• New patient• Transfer in• Prepare patient records• Discharge/Transfer out• Give discharge counseling• Perform discharge procedure (Planned discharge, LAMA, Abscond, Referrals and Transfer)• Prepare records of discharge/transfer• Dismantle, and disinfect unit and equipment after discharge/transfer.• Perform assessment:• History taking, Nursing diagnoses, Problem list, Prioritization, Goals and	<ul style="list-style-type: none">• Practice in unit/hospital• Write nursing process records of patients	<ul style="list-style-type: none">• Evaluate with checklist• Assessment of clinical performance with rating scale• Completion of practical record• Assessment of nursing process records with checklist

		<p>format</p> <ul style="list-style-type: none"> • Communicate effectively with patient families and team members. • Maintain effective human relations • Develops plan for patient teaching • Prepare patient reports • Presents reports • Monitor vital signs • Perform health assessment of each body 	<p>Expected outcomes, Section of interventions</p> <ul style="list-style-type: none"> • Write Nursing Care Plan • Give care as per the plan • Communication • Use verbal and non verbal communication techniques. • Prepare a plan for patient teaching session • Write patient report • Change of shift reports, transfer reports, incident reports etc. • Presents patient report • Vital signs • Measure, records and interpret alterations in body temperature, pulse, respiration and blood pressure • Health assessment • Health history taking • Perform assessment : • General 	<ul style="list-style-type: none"> • Simulated - 1 • actual - 1 • Role-plays in simulated situations on communication techniques – 1 • health talk – 1 • Write nurses notes and present the patient report of 2-3 assigned patients • Lab practice • Measure vital signs of assigned patient 	<ul style="list-style-type: none"> • Assessment of actual care given with rating scale • Assess role plays with the checklist on communication techniques • Assess health talk with the checklist • Assessment of communication techniques by rating scale • Assessment of performance with rating scale • Assessment of each skill with checklist
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		<ul style="list-style-type: none"> • Provide basic nursing care to the patients 	<ul style="list-style-type: none"> • Body system • Use various methods o physical examination • Inspection, palpation, percussion, auscultation, olfaction • Identification of system wise deviations • Prepare patient's unit: • Prepare beds: • Open, closed, occupied, operation, amputation • Cardiac, fracture, burn, divided and fowlers bed. • Pain assessment and provision for comfort • Use comfortable devices , hygienic care • Oral hygiene: • Baths and care of pressure points • Hair wash,pediculosis treatment • Feeding: • Oral, enteral, naso/orogastric, gastrostomy, and parenteral feeding • Naso-gastricinsertion, suction and irrigation • Assisting patient in urinary elimination • provides urinary/ bedpan • condom drainage • perineal care 	<ul style="list-style-type: none"> • Practice in lab and hospital • Simulated exercise on • CPR manikin • Observati on study - 2 	<ul style="list-style-type: none"> • Completion of activity record.
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			<ul style="list-style-type: none"> • catheterization • care of urinary drainage • Bladder irrigation • Assisting bowel elimination: • insertion of flatus tube • enemas • insertion of suppository • Bowel wash body alignment and mobility: • Range of motion exercises • Positioning: • Recumbent, lateral,(rt/lt), fowlers, sims, lithotomy, prone, trendelenburg position • Assist patient in moving, lifting, transferring, walking • Restraints • Oxygen administration • Suctioning: Oro pharyngeal, Naso pharyngeal • Chest physiotherapy and postural drainage • Case of chest drainage • CPR: Basic life support • Intra venous therapy • Blood and blood component therapy • Collect/assist for 		
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		<ul style="list-style-type: none"> • Perform infection control procedures 	<p>collection of specimens, for investigations Urine, sputum, feces, vomitus, blood and other body fluids</p> <ul style="list-style-type: none"> • Perform lab tests: • Urine: Sugar, Albumin, Acetone • Blood: Sugar (with strip/Gluco-meter) • Hot and Cold applications: • Local and general Sitz bath • Communicating and assisting with self – care of visually and hearing impaired patients • Communicating and assisting with self care of mentally challenged/disturbed patients Recreational and Diversional therapies • Caring of patients with alterations in sensorium • Infection control • Perform following procedures : • Hand washing techniques • (Simple, hand antisepsis and surgical antisepsis (scrub) 		
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		<ul style="list-style-type: none"> • Provide care to pre and post operative patients • Perform procedures for care of wounds 	<ul style="list-style-type: none"> • Prepare isolation unit in lab/ward • Practice technique of wearing and removing personal protective equipment (PPE)⁴⁵ • Practice Standard Safety precautions (Universal precautions) • Decontamination of equipment and unit: <ul style="list-style-type: none"> • Surgical asepsis : • Sterilization • Handling sterilized equipment • Calculate strengths of lotions • Prepare lotions • Care of articles • Pre and post operative care: <ul style="list-style-type: none"> • Skin preparations for surgery : Local • Preparation of post operative unit • Pre and post operative teaching and counseling • Pre and post operative monitoring • Care of the wound : • Dressings, Suture care, Care of drainage, Application of Bandages, <ul style="list-style-type: none"> ○ Binders, Splints and Slings • Bandaging of various body parts 		
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		<ul style="list-style-type: none"> • Administer drugs 	Administration of medications <ul style="list-style-type: none"> • Administer medications indifferent forms and routes • Oral, Sublingual and Buccal • Parenteral : Intra dermal, Sub cutaneous, Intra muscular, etc., • Assist with Intra venous medications • Drug measurements and dose calculations • Preparation of lotions and solutions • Administer topical applications • Insertion of drug into body cavity : Suppository and medicated packing etc., • Instillation of medicines and spray into Ear, Eye, Nose and Throat • Irrigations : Eye, Ear, Bladder, Vagina and Rectum • Inhalations : Dry and Moist • Care of dying patient • Caring and packing of dead body • Counseling and supporting grieving relatives • Terminal care of the unit 		
		<ul style="list-style-type: none"> • Provide care to dying and dead • counsel and support relatives. 			

Course Outcomes

At the completion of the course, the successful student will be prepared to:

CO1 Provide care to dying and dead and deliver counsel and support to respective relatives.

CO2: Administer care to pre and post operative patients and perform procedures for care of wounds

CO3: Apply the knowledge of infection control in clinical and community settings

CO4: Perform various procedure to treat, cure, alleviate various kind of patients admitted in clinical areas

Scheme of University Examination for Nursing Foundations (Practical and Viva- Voce)

There shall be practical and viva- voce examination carrying 100 marks for Internal and 100 marks for External. The practical examinations must be held in the respective clinical areas. One internal and one external examiner should jointly conduct practical/clinical examination for each student. Assessment methods are given in column 6 under course description.

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

Psychology

Placement: First Year B.Sc Nursing

Time: Theory 60 Hours

Course code: - Nur104

Course Description: This course is designed to assist the students to acquire knowledge of fundamentals of psychology and develop an insight into behavior of self and others. Further it is aimed at helping them to practice the principles of mental hygiene for promoting mental health in nursing practice.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activity	Assessment method
I	2	<ul style="list-style-type: none">Describe the history, scope and methods of psychology	Introduction: <ul style="list-style-type: none">History and origin of Science of Psychology.Definitions & Scope of Psychology.Relevance to Nursing.Methods of Psychology	<ul style="list-style-type: none">LectureDiscussionPower point slide	<ul style="list-style-type: none">Essay typeShort answerObjective typeQuizAssignments
II	4	<ul style="list-style-type: none">Explain the Biology of Human behavior	Biology of Behaviour <ul style="list-style-type: none">Body mind relationship-modulation process in health and illness.Genetics and behavior: Heredity and environment.Brain and behavior: Nervous system, Neurons and synapse.Association cortex, Right and Left Hemispheres.Psychology of Sensations.Muscular and glandular controls of behaviour.Nature of behaviour of an organism / integrated responses.	<ul style="list-style-type: none">LectureDiscussionVideoDemonstrationModelsMind maps	<ul style="list-style-type: none">Essay typeShort answerObjective type
III	20	<ul style="list-style-type: none">Describe various cognitive processes	Cognitive processes <ul style="list-style-type: none">Attention: Types, determinants duration & degree, alterations.	<ul style="list-style-type: none">LectureDiscussionPsychometric assessment	<ul style="list-style-type: none">Essay typeShort answerObjective typeDemonstration

		and their applications	<ul style="list-style-type: none"> • Perception : Meaning Principles, factors affecting, errors. • Learning : Nature, Types, learner and learning, Factors influencing, laws and theories, process, transfer, study habits. • Memory: Meaning, types, nature, factors influencing, development theories and methods of memorizing and forgetting. • Thinking: Types and levels, stages of development, relationship with language and communication. • Intelligence: Meaning classification, uses, theories. • Aptitude: Concepts, types, individual differences and variability. • Psychometric assessments of cognitive processes. • Alterations in cognitive processes. • Applications of cognitive process in nursing 	<ul style="list-style-type: none"> • Practice sessions • Role play 	
IV	8	<ul style="list-style-type: none"> • Describe motivation, emotions, stress, attitudes and their influence on behaviour 	Motivation and Emotional Processes: <ul style="list-style-type: none"> • Motivation: Meaning, Concepts, Types, Theories, Motives and behavior, Conflicts and frustration, conflict resolution. • Emotions & stress 	<ul style="list-style-type: none"> • Lecture Discussion • Role plays • Case Discussion • Demonstration • Panel Discussion 	<ul style="list-style-type: none"> • Essay type • Short answer • Objective type • Vignettes and case analysis

			<ul style="list-style-type: none"> □ Emotions : Definition components, Changes in emotions, theories, emotional adjustments, emotions in health and illness. □ Stress: stressors, cycle, effect, adaptation & coping. • Attitude: Meaning, nature, development, factors affecting, <ul style="list-style-type: none"> □ Behavior and attitudes. □ Attitudinal change. • Psychometric assessments of emotions and attitudes. • Alterations in emotions. • Applications. 		
V	7	<ul style="list-style-type: none"> • Explain the concepts of personality and its influence on behavior 	Personality <ul style="list-style-type: none"> • Definitions, Topography, Types, Theories. • Psychometric assessments of personality. • Alterations in personality. • Applications 	<ul style="list-style-type: none"> • Lecture Discussion • Demonstration • Video demonstration 	<ul style="list-style-type: none"> • Essay type • Short answer • Objective type
VI	7	<ul style="list-style-type: none"> • Describe psychology of people during the life cycle 	Developmental Psychology <ul style="list-style-type: none"> • Psychology of people at different ages from infancy to old age. • Psychology of vulnerable individuals- challenged, women, sick, etc. • Psychology of groups. 	<ul style="list-style-type: none"> • Lecture Discussion • Case Discussion • Role play 	<ul style="list-style-type: none"> • Essay type • Short answer • Objective type
VII	8	<ul style="list-style-type: none"> • Describe the characteristics of Mentally 	Mental hygiene and mental Health <ul style="list-style-type: none"> • Concepts of mental hygiene and mental 	<ul style="list-style-type: none"> • Lecture Discussion • Case Discussion 	<ul style="list-style-type: none"> • Essay type • Short answer • Objective type

		healthy person • Explain ego defence mechanisms	health. • Characteristics of mentally healthy person. • Warning signs of poor mental health. • Promotive and preventive mental health-strategies and services. • Ego Defence mechanisms and implications. • Personal and social adjustments. • Guidance and counseling. • Role of nurse	• Role-play • Demonstration • Seminar	
VIII	4	• Explain the psychological assessments and role of nurse	Psychological assessment & tests • Types, Developments, Characteristics, Principles, Uses, Interpretations and Role of nurse in Psychological assessment.	• Lecture Discussion • Demonstration • Practice sessions	• Essay type • Short answer • Objective type • Assessment of practice

Course Outcomes

Through this course the students will be able to:

- CO1. Develop a core knowledge regarding the fundamentals of psychology and its application in nursing
- CO2. Get an insight into self in order to assess the patient during health and illness
- CO3. Learn to manage the patients with individual differences while performing therapeutic measures
- CO4. Build up information regarding mental hygiene and mental health
- CO5. Portray motivation and emotional process among the individuals
- CO6. Describe psychology of people during different stages of life
- CO7. Explain the psychological assessment and role of nurse in assessment
- CO8. Explain the concept of personality and its influence on behavior

Scheme of University Examination for Psychology Theory

There shall be one theory paper of three hours duration carrying 75 marks.
Distribution of type of questions and marks for Psychology shall be as given under. There shall be no practical examination.

.Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	2	10	20
Short Essay (SE)	7	5	35
Short Answer (SA)	10	2	20
Total Marks			75

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

Microbiology

Placement: First Year B.Sc Nursing

Time: Theory 60 Hours (Theory 45 + Lab 15)

Course code: - Nur105

Course Description: This course is designed to enable students to acquire understanding of fundamentals of Microbiology and identification of various micro-organisms. It also provides opportunities for practicing infection control measures in hospital and community settings.

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment methods
	Th.	Pr.				
I	5		<ul style="list-style-type: none">• Explain concepts and principles of microbiology and their importance in nursing	Introduction <ul style="list-style-type: none">• Importance and relevance to nursing• Historical perspective• Concepts and terminology• Principles of microbiology	<ul style="list-style-type: none">• Lecture• Discussion	<ul style="list-style-type: none">• Essay type• Short answers• Objective type
II	10	5	<ul style="list-style-type: none">• Describe structure, classification morphology and growth of bacteria• Identify micro-organisms	General characteristics of Microbes <ul style="list-style-type: none">• Structure and classification of microbes• Morphological types• Size and form of bacteria• Motility• Colonization• Growth and nutrition of microbes<ul style="list-style-type: none"><input type="checkbox"/> Temperature<input type="checkbox"/> Moisture<input type="checkbox"/> Blood and body fluids• Laboratory methods for identification of Micro-organisms• Staining techniques, Gram staining, Acid fast staining,	<ul style="list-style-type: none">• Lecture• Discussion• Demonstration	<ul style="list-style-type: none">• Essay type• Short answers• Objective type

				Hanging drop preparation <ul style="list-style-type: none"> • Culture; various medias 		
III	10	2	<ul style="list-style-type: none"> • Describe the methods of infection control • Identify the role of nurse in hospital infection control programme 	Infection control <ul style="list-style-type: none"> • Infection : Sources, portals of entry and exit, transmission • Asepsis • Disinfection : Types and methods • Sterilization : Types and methods • Chemotherapy and antibiotics • Standard safety measures • Biomedical waste management • Role of Nurse • Hospital acquired infection • Hospital infection control programme <ul style="list-style-type: none"> □ Protocols, collection of samples, preparation of reports and status of rate of infection in the unit/hospital, nurses accountability, continuing education etc. 	<ul style="list-style-type: none"> • Lecture Discussion • Demonstration • Visits to CSSD • Clinical Practice 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type
IV	12	4	<ul style="list-style-type: none"> • Describe the different 	Pathogenic organization	<ul style="list-style-type: none"> • Lecture Discussion 	<ul style="list-style-type: none"> • Essay type

			disease producing organisms	<ul style="list-style-type: none"> • Micro-organisms • Cocci-gram positive and gram negative • Bacilli – gram positive and gram negative • Spirochaete • Mycoplasma • Rickettsiae • Chlamydiae • Viruses • Fungi- Superficial and Deep mycoses • Parasites <p>Rodents & vectors</p> <p>Characteristics, Sources, portal of entry, transmission of infection, identification of disease producing micro-organisms collection, handling and transportation of various specimens</p>	<ul style="list-style-type: none"> • Demonstration • Clinical Practice 	<ul style="list-style-type: none"> • Short answers • Objective type
V	8	4	<ul style="list-style-type: none"> • Explain the concepts of immunity, hypersensitivity and immunization 	<p>Immunity</p> <ul style="list-style-type: none"> • Immunity- Types, classification • Antigen and antibody reaction • Hypersensitivity- skin test • Serological tests • Immunoprophylaxis <ul style="list-style-type: none"> □ Vaccines & sera- Types & classification, storage and handling, cold chain □ Immunization of various diseases □ Immunization schedule 	<ul style="list-style-type: none"> • Lecture Discussion • Demonstration • Clinical Practice 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type

Course Outcomes

Through this course the students will be able to:

- CO1. To illustrate the characteristic features of microorganisms and the disease they cause.
- CO2. To explore mechanism by which microorganisms cause disease.
- CO3. To show how the human immune system counteracts infection by specific and non specific mechanisms.
- CO4. To explore the routes of transmission of infection in hospital, communities and populations and the methods used to control the spread of infection.
- CO5. To demonstrates the principles of vaccine preparation and the use of vaccine in immunization.
- CO6. To shows the methods for sterilization of equipments.
- CO7. To shows the antimicrobial activity of disinfectants.
- CO8. To demonstrates the contribution of the microbiologists and the microbiology laboratory to the diagnosis of infection including specimen collection and the role of nurse in carrying this out.

Scheme of University Examination for Microbiology

There shall be one theory paper of three hours duration carrying 75 marks.

Distribution of type of questions and marks for Microbiology shall be as given under. There shall be no practical examination.

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	2	10	20
Short Essay (SE)	7	5	35
Short Answer (SA)	10	2	20
Total Marks			75

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

English

Placement: First Year B.Sc Nursing

Time: Theory 60 Hours

Course code: - Nur106

Course Description: The course is designed to enable students to enhance ability to comprehend spoken and written English (and use English) required for effective communication in their professional work. Students will practice their skills in verbal and written English during clinical and classroom experiences.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I.	10	<ul style="list-style-type: none"> • Speak & write grammatically correct English 	<ul style="list-style-type: none"> • Review of Grammar • Remedial study of Grammar • Building Vocabulary • Phonetics • Public Speaking 	<ul style="list-style-type: none"> • Demonstrate use of grammar Dictionary • Class room conversion • Exercise on use of Grammar • Practice in public speaking 	<ul style="list-style-type: none"> • Essay type • Objective type • Fill in the blanks • Para phrasing
II.	30	<ul style="list-style-type: none"> • Develop ability to read, understand and express meaningfully the prescribed text 	<ul style="list-style-type: none"> • Read and comprehend prescribed course books 	<ul style="list-style-type: none"> • Exercise on <ul style="list-style-type: none"> ➤ Reading ➤ Summarizing ➤ Comprehension 	<ul style="list-style-type: none"> • Essay type • Short answers
III.	10	Develop writing Skills	<ul style="list-style-type: none"> • Various forms of composition <ul style="list-style-type: none"> <input type="checkbox"/> Letter writing <input type="checkbox"/> Note takings <input type="checkbox"/> Précis writings <input type="checkbox"/> Nurses Notes <input type="checkbox"/> Anecdotal records <input type="checkbox"/> Diary writing <input type="checkbox"/> Reports on health problem <input type="checkbox"/> Resume /CV 	<ul style="list-style-type: none"> • Exercise on writing <ul style="list-style-type: none"> <input type="checkbox"/> Letter writing <input type="checkbox"/> Nurses Notes <input type="checkbox"/> Précise <input type="checkbox"/> Diary <input type="checkbox"/> Anecdote <input type="checkbox"/> Health problems <input type="checkbox"/> Story writing <input type="checkbox"/> Resume /CV *Essay Writing <ul style="list-style-type: none"> <input type="checkbox"/> Discussion on written reports / documents 	<ul style="list-style-type: none"> • Essay type • Assessment of the skills based on the checklist.
IV.	6	<ul style="list-style-type: none"> • Develop skill in spoken 	<ul style="list-style-type: none"> • Spoken English <ul style="list-style-type: none"> <input type="checkbox"/> Oral report 	<ul style="list-style-type: none"> • Exercise on: <ul style="list-style-type: none"> <input type="checkbox"/> Debating 	<ul style="list-style-type: none"> • Assessment of the skills

		English	<input type="checkbox"/> Discussion <input type="checkbox"/> Debate <input type="checkbox"/> Telephonic conversation	<input type="checkbox"/> Participating in Seminar, Panel, Symposium <input type="checkbox"/> Telephonic Conversion	based on the checklist.
V.	4	<ul style="list-style-type: none"> Develop skill in listening comprehension 	<ul style="list-style-type: none"> Learning Comprehension Media, audio, video, speeches etc. 	Exercise on: <ul style="list-style-type: none"> Listening to audio, video tapes and identify the key points 	<ul style="list-style-type: none"> Assessment of skills based on the check list

Course Outcomes

Through this course the students will be able to:

CO1. Speak and write grammatically correct English.

CO2. Develop an ability to read, understand, and express meaningfully.

CO3. Improve writing skills

CO4. Converse meaningfully, fluently, and confidently in their profession and everyday situations.

CO5. Develop skills in listening comprehension.

CO6. Participate effectively in critical conversations and demonstrate the ability to prepare and deliver their work to the public.

CO7. Understand the process of communication and its effect on giving and receiving information.

CO8. Communicate effectively in English in their nursing profession and everyday situations.

Scheme of University Examination for English

There shall be one theory paper of three hours duration carrying 75 marks.

Distribution of type of questions and marks for English shall be as given under. There shall be no practical examination.

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	2	10	20
Short Essay (SE)	7	5	35
Short Answer (SA)	10	2	20
Total Marks			75

Note:-

1. Minimum pass marks shall be 40% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

Introduction to Computers**Placement: First Year B.Sc Nursing**

Time: Theory 45 Hours

Course code: - Nur107**Course Description:** This course is designed for students to develop basic understanding of uses of computer and its applications in Nursing.

Unit	Time (Hrs)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th	Pr				
I.	3		<ul style="list-style-type: none">Identify & define various concepts used in computerIdentify application of computer in nursing.	Introduction : <ul style="list-style-type: none">Concepts of computersHardware and software trends and technologyApplication of computers in nursing	<ul style="list-style-type: none">Lecture Discussion.Demonstration	<ul style="list-style-type: none">Short answersObjective type
II.	6	20	<ul style="list-style-type: none">Describe and use the Disk Operating SystemDemonstrate skill in the use of MS Office	<ul style="list-style-type: none">Introduction to disk operating system<ul style="list-style-type: none"><input type="checkbox"/> DOS<input type="checkbox"/> Windows (all version)Introduction<ul style="list-style-type: none"><input type="checkbox"/> MS Word<input type="checkbox"/> MS- Excel with pictorial presentation<input type="checkbox"/> MS-Access<input type="checkbox"/> MS-PowerPoint	<ul style="list-style-type: none">Lecture Discussion.DemonstrationPractice session	<ul style="list-style-type: none">Short answersObjective typePractical Exam
III.	2	3	<ul style="list-style-type: none">Demonstrate skill in using multi-mediaIdentify features of computer aided teaching and testing	<ul style="list-style-type: none">Multimedia; types & usesComputer aided teaching & testing	Lecture Discussion. Demonstration	<ul style="list-style-type: none">Short answersObjective typePractical exam and Viva Voce

IV.	1	3	<ul style="list-style-type: none"> • Demonstrate use of internet and Email 	<ul style="list-style-type: none"> • Use of internet and email 	Lecture Discussion. Demonstration Practice session	<ul style="list-style-type: none"> • Short answers • Objective type • Practical exam and Viva Voce
V.	2	2	<ul style="list-style-type: none"> • Describe and Use the statistical packages 	<ul style="list-style-type: none"> • Statistical packages : types and their features 	<ul style="list-style-type: none"> • Lecture Discussion. • Demonstration • Practice session 	<ul style="list-style-type: none"> • Short answers • Objective type • Practical exam and Viva Voce
VI.	1	2	<ul style="list-style-type: none"> • Describe the use of Hospital Management System 	<ul style="list-style-type: none"> • Hospital management system : Types and uses 	<ul style="list-style-type: none"> • Lecture Discussion. • Demonstration 	<ul style="list-style-type: none"> • Short answers • Objective type • Practical exam and Viva Voce

Scheme of University Examination for Introduction to Computers

There shall be one theory paper of three hours duration carrying 75 marks.
 Distribution of type of questions and marks for Introduction to Computers shall be as given under. There shall be no practical examination.

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	2	10	20
Short Essay (SE)	7	5	35
Short Answer (SA)	10	2	20
Total Marks			75

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

Sociology**Placement: Second Year B.Sc Nursing**

Time: Theory 60 Hours

Course code: - Nur201**Course Description:** This course is designed to introduce the concepts of sociology related to community and social institutions in India and its relationship with health, illness and nursing.

Unit	Time (Hours)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	1	State the importance of sociology in Nursing	Introduction <ul style="list-style-type: none">• Definition of Sociology• Nature and Scope of the discipline• Importance and application of Sociology in Nursing.	Lecture Discussion	<ul style="list-style-type: none">• Essay type• Short answers.
II	3	Describe the inter relationship of individual in society and community	Individual & Society <ul style="list-style-type: none">• Society and Community• Nature of Society• Difference between Society and Community.• Process of Socialization and individualization.• Personal disorganization.	Lecture Discussion	<ul style="list-style-type: none">• Essay type• Short answers.
III	3	Describe the influence of culture and on health and	Culture <ul style="list-style-type: none">• Nature of culture• Evolution of culture• Diversity and uniformity of	<ul style="list-style-type: none">• Lecture Discussion <ul style="list-style-type: none">• Panel Discussion	<ul style="list-style-type: none">• Essay type• Short answers.

		disease.	culture <ul style="list-style-type: none"> • Culture and socialization • Trans-cultural society • Influence on health and disease. 		
IV	4	Identify various social groups and their interactions	Social groups and Processes <ul style="list-style-type: none"> • The meaning and classification of groups. • Primary & Secondary Group • In-group V/s. Out-group, Class Tribe, Caste. • Economic, Political, Religious groups, Mob, Crowd, Public and Audience Interaction & Social Processes. • Co-operation, Competition, Conflict. • Accommodation, Assimilation & Isolation. 	<ul style="list-style-type: none"> • Lecture Discussion	<ul style="list-style-type: none"> • Essay type • Short answers.
V	6	Explain the growth of population in India and its impact on health	Population <ul style="list-style-type: none"> • Society and population • Population distribution in India- Demographic characteristics. • Malthusian theory of populations • Population explosion in India and its impact on health status. • Family welfare programmes. 	<ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Community Identification 	<ul style="list-style-type: none"> • Essay type • Short answers • Assessment of report on Community identification
VI	5	Describe the institutions of family and marriage in	Family and Marriage <ul style="list-style-type: none"> *Family – Functions *Types – Joint, Nuclear, Blended and extended family 	<ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Family care study 	<ul style="list-style-type: none"> *Essay type *Short answers. *Assessment

		India	<p>Characteristics.</p> <p>*The Modern Family – Changes, Problems – Dowry etc., Welfare Services.</p> <p>*Changes & legislations on family and marriage in India – marriage acts.</p> <p>*Marriage: Forms and functions of marriage,</p> <p>*Marriage and family problems in India.</p> <p>*Family, marriage and their influence on health and health practices.</p>		of family Case study.
VII	7	Describe the class and caste system and their influence on health and health practices.	<p>Social Stratification</p> <p>*Meaning & types of social Stratification.</p> <p>*The Indian Caste System – origin & features.</p> <p>*Features of Caste in India Today</p> <p>*Social Class system and status.</p> <p>*Social Mobility – Meaning &Types.</p> <p>*Race as a biological concept, criteria of racial classification.</p> <p>*Salient features of Primary races Racism.</p> <p>*Influence of Class, Caste and Race on health and health practices.</p>	*Lecture Discussion	<p>*Essay type</p> <p>*Short answers.</p> <p>*Assessment of report on community Survey.</p>
VIII	6	Describe the types of communities in	<p>Types of Communities in India (Rural, Urban and Regional)</p> <p>*Features of village community & Characteristics of Indian</p>	<p>*Lecture Discussion</p> <p>* Visits to rural and urban</p>	<p>*Essay type</p> <p>*Short Answers.</p> <p>*Assessment</p>

		India, their practices and the impact on health.	<p>Villages Panchayat System, Social dynamics.</p> <p>*Community Development project & Planning.</p> <p>*Changes in Indian Rural Life.</p> <p>*Availability of health facilities in rural and its impact on health and health practices.</p> <p>*Urban – Community – Features.</p> <p>*The growth of cities:</p> <p>*Urbanisation and its impact on health and health practices.</p> <p>*Major Urban problems – Urban Slums</p> <p>*Regions: Problems and impact on Health.</p>	community * Community Survey	of report on community Survey.
IX	4	Explain the process of Social Change	<p>Social Change</p> <p>*Nature and process of Social Change.</p> <p>*Factors influencing Social change: Cultural change, Cultural lag.</p> <p>*Introduction to Theories of social change: Linear, Cyclical, Marxian, Functional</p> <p>Role of nurse – Change agents.</p>	*Lecture Discussion	*Essay type *Short Answers.
X	4	Describe the Social system and inter relationship of	<p>Social organization and social system</p> <p>*Social organization: elements, types.</p>	*Lecture Discussion * Observation visits	*Essay type *Short Answers.

		social Organizations .	*Democratic and authoritarian modes of participation, *Voluntary associations *Social System: Definition and Types of social system. *Role and Status as structural elements of social system. *Inter – relationship of institution		*Assessment of visit reports.
XI	2	Explain the nature and process of social control.	Social Control *Nature and process of social control. *Political, Legal, Religious, Educational, Economic, Industrial and Technological systems, Norms & Values- Folkways & Mores Customs, Laws and fashion. *Role of nurse.	*Lecture Discussion *Community survey	*Essay type *Short answers. *Assessment of report on community survey.
XII	15	Describe the role of the nurse in dealing with social problems in India.	Social Problems *Social disorganization *Control & planning; poverty, housing, illiteracy, food supplies, prostitution, rights of women & children, vulnerable groups: Eldery, handicapped, minority groups and other marginalized groups, child labour, child abuse, delinquency and crime, substance abuse, HIV/AIDS. *Social Welfare programmes in India.*Role of nurse.	*Lecture Discussion *Institutional visits	*Essay type *Short answers. *Assessment of visit reports.

Course Outcomes

Through this course the students will be able to:

CO1. Apply key social theories to current social problems and issues.

CO2. Demonstrate and communicate knowledge of sociology in nursing.

CO3. Develop positive attitudes towards individual, family and community

CO4. Understand the usefulness of the main sociological theories.

CO5. Understand real social issues such as gender, social deviance, and health from the sociological perspective.

CO6. Explain how culture and social structure shape individual experiences and opportunities.

CO7. Effectively communicate sociological concepts and empirical findings.

CO8. Create new knowledge about social reality and become future leaders of communities and the nation that is agents of change.

Scheme of University Examination for Sociology

There shall be one theory paper of three hours duration carrying 75 marks. Distribution of type of questions and marks for Sociology shall be as given under

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	2	10	20
Short Essay (SE)	7	5	35
Short Answer (SA)	10	2	20
Total Marks			75

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

SECOND YEAR B. Sc NNURSING

Medical Surgical Nursing (Adult Including Geriatrics)-I (Theory)

Placement: Second year

Time:- Theory - 210 Hours, Practical - 720 hours

Course Code:- Nur202

Course Description:

The purpose of this course is to acquire knowledge and develop proficiency in caring for patients with medical and surgical disorders in varieties of health care settings and at home.

Unit	Time in hours		Learning Objectives	Content	Teaching – Learning Activities	Assessment Methods
	Th.	Pr.				
I	15		<ul style="list-style-type: none">-Appreciate the trends in medical and surgical nursing.-Describe the role of a nurse in caring for adult patient in hospital and community.-Describe the concepts of Medical Surgical asepsis	<p>Introduction:</p> <ul style="list-style-type: none">• Introduction to medical surgical nursing- Evolution and trends of medical and surgical nursing• Review of Concepts of Health and illness Disease-concepts, causations, classification- International Classification Diseases (ICD- 10 or later version), Acute illness Chronic illness & Terminal illness, stages of illness• Review of concepts of Comprehensive nursing care in medical surgical conditions based on nursing process.• Role of Nurse, patient and	<ul style="list-style-type: none">• Lecture discussion• Demonstration• Practice session• Supervised clinical practice	<ul style="list-style-type: none">• Short answers• Objective Type• Assessment of skills with checklist

			<p>family in care of adult patient</p> <ul style="list-style-type: none"> • Role and responsibilities of a nurse in medical surgical settings: - Outpatient department. - In-patient unit - Intensive care unit. - Home and Community settings <p>Introduction to Medical Surgical asepsis</p> <ul style="list-style-type: none"> - Inflammation and Infection - Immunity - Wound healing <p>Care of Surgical Patient</p> <ul style="list-style-type: none"> -Pre-operative -Intra operative -Post Operative 		
II	15	Describe the common signs, symptoms, problems and their Specific nursing interventions	<p>Common signs and symptoms and management</p> <ul style="list-style-type: none"> • Fluid and electrolyte imbalance. • Vomiting • Dyspnea and cough, respiratory obstruction • Fever • Shock • Unconsciousness, 	<ul style="list-style-type: none"> • Lecture discussion • Seminar • Case discussion 	<ul style="list-style-type: none"> • Short answers • Objective Type

				<ul style="list-style-type: none"> • Syncope • Pain • Incontinence • Edema • Age related problems-geriatric 		
III	20		Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of respiratory systems	Nursing management of patients (adults including elderly) with respiratory problems <ul style="list-style-type: none"> • Review of anatomy and physiology of respiratory system, • Nursing Assessment- History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of adults including elderly with – Upper Respiratory tract infection Bronchitis Asthma Emphysema Empyema Atelectasis 	<ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs Models, films, slides • Demonstration • Practice session • Case discussions/Seminar • Health education • Supervised clinical practice • Drug book /presentation 	<ul style="list-style-type: none"> • Objective type • Assessment of skills with check list • Assessment of patient management problem • Essay type • Short answers

				<p>Chronic Obstructive Pulmonary Diseases (COPD)</p> <p>Bronchiectasis</p> <p>Pneumonia</p> <ul style="list-style-type: none"> • Pulmonary tuberculosis • Lung abscess • Pleural effusion • Cysts and Tumours • Chest injuries • Respiratory arrest and insufficiency • Pulmonary embolism <p>special therapies, alternative therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of respiratory disorders</p>		
IV	30		<p>Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of digestive</p>	<p>Nursing management of patient (adults including elderly) with disorders of digestive system</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of digestive system • Nursing Assessment- History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment 	<ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs <p>Models, films, slides</p> <ul style="list-style-type: none"> • Demonstration • Practice session • Case discussions/Seminar • Health education • Supervised 	<ul style="list-style-type: none"> • Essay type • Short answers • Objective type • Assessment of skills with check list • Assessment of patient management

			systems	<p>modalities and medical, surgical, dietetics & nursing management</p> <ul style="list-style-type: none"> • Disorders of • Oral cavity- lips, gums, and teeth • Oesophagus — inflammation? stricture, obstruction, bleeding and tumours • Stomach and duodenum hiatus hernia, gastritis, peptic and duodenal ulcer, bleeding, tumours, pyloric stenosis • Small intestinal disorders inflammation and infection, enteritis, malabsorption, obstruction, tumour and perforation • Large intestinal disorders- Colitis, inflammation and infection, obstruction and tumour and lump • Hernias • Appendix — Inflammation, mass, abscess, rupture • Anal and Rectum- hemorrhoids, fissures, 	<p>clinical practice</p> <ul style="list-style-type: none"> • Drug book /presentation 	problem
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				<p>fistulas.</p> <ul style="list-style-type: none"> • Peritonitis/acute abdomen <p>Pancreas; inflammation, cyst, abscess and tumours</p> <ul style="list-style-type: none"> • Liver; inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours <p>Gall Bladder; inflammation, obstruction, stones and tumours</p> <p>Special therapies, alternative therapies</p> <p>Nursing procedures Drugs used in treatment of disorders of digestive system</p>		
V	30		Describe the etiology, patho physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with blood and cardiovascular problems	<p>Nursing management of patient (adults including elderly) with blood and cardio vascular problems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of blood and cardio vascular system, • Nursing Assessment- History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment 	<ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions / Seminar • Health education • Supervised clinical practice 	<p>Essay type</p> <p>Short answers</p> <p>Objective type</p> <p>Assessment of skills with check list</p> <p>Assessment of patient management problem</p>

			<p>Describes the vascular conditions and its nursing management</p>	<p>modalities and medical, surgical, dietetics & nursing management of-</p> <ul style="list-style-type: none"> • Vascular system -Hypertension, Hypotension - Artherio sclerosis - Raynaud's disease - Aneurism and Peripheral vascular disorders <p>Heart</p> <ul style="list-style-type: none"> • Coronary artery diseases • Ischemic Heart Disease • Cornory atherosclerosis • Angina pectoris • Myocardial infarction • Valvular disorders of the heart - Congenital and acquired - Rheumatic Heart diseases • Endocarditis, Pericarditis <p>Myocarditis</p> <ul style="list-style-type: none"> • Cardio Myopathies • Cardiac dysrhythmias, Heart Block • Congestive cardiac failure <p>Cor-pulmonale, pulmonary edema, cardiogenic shock, cardiac tamponade</p> <ul style="list-style-type: none"> • Cardiac emergencies and 	<ul style="list-style-type: none"> • Drug book /presentation • Visit to blood bank • Participation in blood donation camps • Counseling 	
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				<p>arrest</p> <ul style="list-style-type: none"> • Cardio Pulmonary Resuscitation (CPR) • Blood • Anaemias • Polycythemia • Bleeding disorders; clotting factor defects and platelets defects • Thalassemia • Leukaemias • Leukopenias and agranulocytosis • Lymphomas • Myelomas • Special therapies • Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reactions:, records for blood Transfusion. • Management and counseling of blood donors, phlebotomy procedure, and post donation management. Blood bank functioning and hospital transfusion committee. Bio-safety and waste management in 		
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				<p>relation to blood transfusion</p> <ul style="list-style-type: none"> • Role of a nurse in Organ donation, retrieval and banking <p>Alternative therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of blood and cardio vascular disorders</p>		
VI	10		<p>Describe the etiology, patho physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of genito-urinary system</p>	<p>Nursing management of patient (adults including elderly) with genito-urinary problems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of genito-urinary system • Nursing Assessment- History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of- • Nephritis • Nephrotic syndrome • Nephrosis • Renal calculus 	<ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs • Models, films, Slides • Demonstration • Practice session • Case discussions/Seminar • Health education • Supervised clinical practice • Drug book /presentation 	<p>Essay type</p> <p>Short answers</p> <p>Objective type</p> <p>Assessment of skills with check list</p> <p>Assessment of patient management problem</p>

				<ul style="list-style-type: none"> • Tumours • Acute renal failure • Chronic renal failure • End stage renal disease • Dialysis, renal transplant • Congenital disorders, urinary infections • Benign prostate hypertrophy. • Disorders of ureter, urinary bladder and urethra inflammation, infection, stricture, obstruction, tumour, prostate Special therapies, alternative therapies <p>Nursing procedures</p> <p>Drugs used in treatment of genitourinary disorders.</p>		
VII	5		Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of	<p>Nursing Management of disorders of male(adults including elderly) reproductive system</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of male reproductive system • Nursing Assessment- History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, 	<ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/Seminar 	<p>Essay type</p> <p>Short answers</p> <p>Objective type</p> <p>Assessment of skills with check list</p> <p>Assessment of patient management problem</p>

			<p>male reproductive system</p> <p>diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of male reproductive system</p> <ul style="list-style-type: none"> • Congenital malformations; Cryptorchidism, Hypospadiasis, Epispadiasis • Infections • Testis and adjacent structures <p>Penis</p> <ul style="list-style-type: none"> • Prostate: inflammation, infection, hypertrophy, tumour • Sexual Dysfunction <p>Infertility</p> <ul style="list-style-type: none"> • Contraception • Breast; gynecomastia, tumour • Climacteric changes <p>Special therapies, alternative therapies</p> <p>Nursing procedures Drugs used in treatment of disorders of male reproductive system.</p>	<ul style="list-style-type: none"> • Health education • Supervised clinical practice • Drug book / presentation 	
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VIII	10		Describe the etiology, patho physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of endocrine system	Nursing management of patient(adults including elderly) with disorders of endocrine system <ul style="list-style-type: none"> • Review of anatomy and physiology of endocrine system • Nursing Assessment- History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of- • Disorders of Thyroid and Parathyroid • Diabetes mellitus • Diabetes insipidus • Adrenal tumour • Pituitary disorders. Special therapies, alternative' therapies Nursing procedures Drugs used in treatment of disorders of endocrine system.	<ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions / Seminar • Health education • Supervised clinical practice • Drug book presentation 	Essay type Short answers Objective type Assessment of skills with check list Assessment of patient management problem
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IX	10		Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of Skin	Nursing management of patient (adults including elderly) with disorders of Integumentary system <ul style="list-style-type: none"> • Review of anatomy and physiology of Skin and its appendages • Nursing Assessment- History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of skin and its appendages – <ul style="list-style-type: none"> • Lesions and abrasions • Infection and infestations; Dermatitis • Dermatoses; infectious and Non infectious “inflammatory dermatoses” • Acne Vulgaris • Allergies and Eczema • Psoriasis • Malignant melanoma • Alopecia Special therapies, alternative therapies 	<ul style="list-style-type: none"> • Lecture discussion • Explain using Charts. Graphs • Models, films, slides • Demonstration • Practice session • Case discussions / Seminar • Health education • Supervised clinical practice • Drug book / presentation 	Essay type Short answers Objective type Assessment of skills with check list Assessment of patient management problem
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				Nursing procedures Drugs used in treatment of disorders of Integumentary system.		
X	15		Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of musculoskeletal system	Nursing management of patient (adults including elderly) with musculoskeletal problems <ul style="list-style-type: none"> • Review of anatomy and physiology of musculoskeletal system, • Nursing Assessment- History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of - • Disorders of: <ul style="list-style-type: none"> • Muscles, Ligaments and Joints - inflammation, infection, trauma • Bones-inflammation, infection, dislocation, fracture, tumour and trauma • Osteomalacia and osteoporosis • Arthritis 	<ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/Seminar • Health education • Supervised clinical practice • Drug book /presentation 	Essay type Short answers Objective type Assessment of skills with check list Assessment of patient management problem

				<ul style="list-style-type: none"> • Congenital deformities • Spinal column- defects and deformities, Tumor, Prolapsed inter vertebral disc, pott's spine <p>Paget's disease</p> <p>Amputation</p> <p>Prosthesis</p> <ul style="list-style-type: none"> • Transplant & replacement surgeries <p>Rehabilitation.</p> <p>Special therapies, alternative therapies</p> <p>Nursing procedures Drugs used in treatment of disorders of musculoskeletal system.</p>		
XI	10		Describe the etiology, patho physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of Immunological system	<p>Nursing management of patient (adults including elderly) with Immunological problems</p> <ul style="list-style-type: none"> • Review of Immune system, • Nursing Assessment- History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, Diagnosis, treatment modalities and medical, surgical, dietetics & 	<ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs • Models, films, slides • Demonstration • Practice session • Case Discussions/Seminar • Health education • Supervised clinical practice 	<p>Essay type</p> <p>Short answers</p> <p>Objective type</p> <p>Assessment of skills with check list</p> <p>Assessment of patient management problem</p>

				<p>nursing management of-</p> <ul style="list-style-type: none"> •Immunodeficiency disorder. •Primary immuno deficiency. • Phagocytic dysfunction B-cell and T-cell deficiencies •Secondary immunodeficiencies <p>Acquired immunodeficiency syndrome (AIDS)</p> <ul style="list-style-type: none"> • Incidence of HIV & AIDS <p>Epidemiology</p> <p>Transmission-Prevention of Transmission</p> <ul style="list-style-type: none"> •Standard Safety precautions • Role of Nurse; Counseling • Health education and home care consideration. • National AIDS Control Program - NACO, various national and international agencies • Infection control program • Rehabilitation. Special therapies, alternative therapies <p>Nursing procedures Drugs</p>	<ul style="list-style-type: none"> • Drug book /presentation • Orientation visit to Hospital <p>Control system</p>	
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				used in treatment of disorders of immune logical system.		
XII	20		Describe the etiology, patho physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with Communicable Diseases.	Nursing management of patient (adults including elderly) with Communicable Diseases <ul style="list-style-type: none"> • Overview of infectious disease, the infectious process • Nursing Assessment- History and Physical assessment • Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention and dietics. Control and eradication of common Communicable Diseases • Tuberculosis • diarrhoeal diseases hepatitis A - E • herpes • chickenpox • smallpox • typhoid • meningitis • gas gangrene • leprosy. • Dengue 	<ul style="list-style-type: none"> • Lecture Discussion • Explain using Charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/Seminar • Health education Supervised clinical practice • Drug book Presentation 	Essay type Short answers Objective type Assessment of skills with check list Assessment of patient Management Problem

				<ul style="list-style-type: none"> • Plague • Malaria • Diphtheria • Pertussis • Poliomyelitis • Measles • Mumps • Influenza • Tetanus • Yellow fever • Filariasis • HIV, AIDS • Reproductive Tract Infections • Special infection control measures: Notification, Isolation, Quarantine, Immunization, Infectious Disease Hospitals Special therapies, alternative therapies Nursing procedures Drugs used in treatment of Communicable diseases. 		
XIII	25		<p>Describe the Organization and physical set up of operation theatre</p> <p>Identify the various</p>	<p>Peri operative nursing:</p> <ul style="list-style-type: none"> • Organization and Physical set up of the Operation Theatre (OT): - Classifications - O.T. DESIGN 	<ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs • Models, films, slides • Demonstration 	<p>Essay type</p> <p>Short answers</p> <p>Objective type</p> <p>Assessment of skills with check list</p>

		<p>instruments and equipments used for used for common surgical procedures</p> <p>Describe the infection control measures in the Operation theatre</p> <p>Describe the role of the nurse in the Pen Operative nursing care</p>	<ul style="list-style-type: none"> - Staffing - Members of the OT team. - Duties and responsibilities of nurse in O.T. - Principles of Health and operating room attire. • Instruments, • Sutures and suture materials • Equipments • O.T. tables and sets for common surgical procedures • Positions and draping for common surgical procedures • Scrubbing procedures • Gowning and gloving • Preparation of O.T. Sets • Monitoring the patient during surgical procedures • Maintenance of therapeutic environment in O.T. • Standard Safety measures <p>Infection control; fumigation, disinfection and sterilization</p> <p>Biomedical waste management</p> <ul style="list-style-type: none"> • Prevention of accidents 	<ul style="list-style-type: none"> • Practice session • Supervised clinical practice • Drug book /presentation 	
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				and hazards in O.T • Anaesthesia • Types • Methods of administration Effects and Stages • Equipments • Drugs • Cardio Pulmonary Resuscitation (CPR) •Pain management techniques • Legal Aspects		
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Course Outcomes

At the completion of the course, the successful student will be prepared to:

CO1. Examine nursing situations using standards of care, critical thinking, clinical reasoning, and evidence-based practice and aware regarding the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of various body systems

CO2. Apply a range of knowledge to promote health and well-being and prevent complications in adults experiencing illness and disease.

CO3. Appreciate and describe various concepts and trends in medical and surgical nursing and identifies the various role of a nurse in caring for adult patient in hospital and community and apply the nursing process to patient learning needs.

CO4. Demonstrate professional, empathetic and therapeutic communication skills in all learning situations.

CO5. Understand the common signs, symptoms, problems and their Specific nursing interventions related to adult patient in clinical and community settings and apply the nursing process as a basis for clinical decision-making.

CO6. Construct and implement safe, effective, patient-centered nursing care using nursing knowledge, information technologies and research evidence.

CO7. Explore principles of collaboration and advocacy to safely provide and manage patient care.

CO8. Examine ethical and legal principles and professional standards that are foundations to nursing practice and Emulate professional behavior in all learning situations.

Scheme of University Examination for Medical Surgical Nursing I

There shall be one theory paper of three hours duration carrying 75 marks.
Distribution of type of questions and marks for Medical Surgical Nursing I shall be as given under

.Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	2	10	20
Short Essay (SE)	7	5	35
Short Answer (SA)	10	2	20
Total Marks			75

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

Medical Surgical Nursing (Adult Including Geriatrics) – I (Practical)

Placement: Second Year

Time: 720 Hours

Course Code: - Nur202

Areas	Duration (in weeks)	Objectives	Skills	Assignments	Assessment Methods
General Medical ward (*Respiratory, GI, Endocrine, Renal, Hematology)	6	<ul style="list-style-type: none"> • Provide nursing care to adult patients with medical disorders. • Counsel and educate patients and families. 	<ul style="list-style-type: none"> • Assessment of the patient <ul style="list-style-type: none"> <input type="checkbox"/> Taking history <input type="checkbox"/> Perform general and specific physical examination. <input type="checkbox"/> Identify alterations and deviations • Practice medical surgical asepsis- Standard safety measures • Administer medications <ul style="list-style-type: none"> <input type="checkbox"/> Oral, IV, IM, Subcutaneous • IV therapy <ul style="list-style-type: none"> <input type="checkbox"/> IV cannulation <input type="checkbox"/> Maintenance and monitoring • Oxygen therapy by various methods • Nebulization • Chest physio therapy • Naso gastric feeding • Assist in common diagnostic procedures. • Perform /Assist in the therapeutic procedures • Blood and component therapy • Throat Suctioning • Collection of 	<ul style="list-style-type: none"> • Plan and give care to 3-4 assigned patients • Nursing care plan-2 • Nursing case/study presentation-1 • Drug presentation-1 • Maintain drug book. • Maintain practical record book 	<ul style="list-style-type: none"> • Assess performance with rating scale • Assess each skill with checklist • Evaluation of case study/ presentation. • Completion of practical record

			specimens for common investigations <ul style="list-style-type: none"> • Maintain elimination <ul style="list-style-type: none"> <input type="checkbox"/> Catheterisation <input type="checkbox"/> Bowel wash <input type="checkbox"/> Enema <input type="checkbox"/> Urinary drainage • Maintain Intake and Output documentation • Counsel and teach related to specific disease conditions 		
General Surgical Ward (GI, Urinary, CTVS)	6	<ul style="list-style-type: none"> • Provide pre and post operative nursing care to adult patients with surgical disorders • Counsel and educate patients and families 	<ul style="list-style-type: none"> • Practice medical surgical asepsis- Standard safety measures • Pre operative preparation of patients • Post operative care- Receiving patient, assessment, monitoring, care • Care of wounds and drainage • Suture removal • Ambulation and exercise • Naso gastric aspiration • Care of chest drainage • Ostomy care <ul style="list-style-type: none"> <input type="checkbox"/> Gastrostomy <input type="checkbox"/> Colostomy <input type="checkbox"/> Enterostomy • Blood and component therapy • Practice universal precautions 	<ul style="list-style-type: none"> • Plan and give care to - 3-4 assigned patients. • Nursing care plan-2 • Nursing case study/ presentation - 1 • Maintain drug book. 	<ul style="list-style-type: none"> • Assess performance with rating scale • Assess each skill with checklist • Evaluation of case study/ presentation. • Completion of activity record
Cardiology ward	2	<ul style="list-style-type: none"> • Provide nursing care 	<ul style="list-style-type: none"> • Physical examination of the cardio vascular 	<ul style="list-style-type: none"> • Plan and give care to 	<ul style="list-style-type: none"> • Assess performance

		<p>to patients with cardiac disorders.</p> <ul style="list-style-type: none"> • Counsel and educate patients and families 	<p>system</p> <ul style="list-style-type: none"> • Recording and interpreting ECG • Monitoring of patients • Preparation and assisting in non-invasive and invasive diagnostic procedures • Administer cardiac drugs • Cardio pulmonary resuscitation • Teach patients and families • Practice medical and surgical asepsis- Standard safety measures 	<p>2-3 assigned patients</p> <ul style="list-style-type: none"> • Nursing care plan-1 • Nursing case study/ presentation/ Health Talk - 1 • Maintain drug book. 	<p>e with rating scale</p> <ul style="list-style-type: none"> • Assess each skill with checklist • Evaluation of case study/ presentation/ health talk • Completion of activity record
Skin and Communicable diseases ward	1	<ul style="list-style-type: none"> • Identify skin problems • Provide nursing care to patients with skin disorders and communicable diseases. • Counsel and educate patients and families. 	<ul style="list-style-type: none"> • Assessment of patients with skin disorders • Assist in diagnostic and therapeutic procedures • Administer topical medication Practice medical surgical asepsis-Standard safety measures • Use of personal protective equipment (PPE) • Give medicated baths • Counseling HIV positive patients • Teach prevention of infectious diseases 	<ul style="list-style-type: none"> • Plan and give care to 2-3 assigned patients. • Health Talk/ Counseling HIV positive patients and families - 1 • Maintain drug book. 	<ul style="list-style-type: none"> • Assess performance with rating scale. • Evaluation of health talk/ counseling session • Completion of activity record.
Orthopaedic ward	2	<ul style="list-style-type: none"> • Provide nursing care to patients with musculoskel 	<ul style="list-style-type: none"> • Assessment of orthopaedic patients • Assist in application of plaster cast and 	<ul style="list-style-type: none"> • Plan and give care to - 3 assigned patients • Nursing care 	<ul style="list-style-type: none"> • Assess performance with rating scale • Assess

		<p>etal disorders</p> <ul style="list-style-type: none"> • Counsel and educate patients and families 	<p>removal of cast</p> <ul style="list-style-type: none"> • Apply skin traction Buck's extension traction. • Assist in application and removal of prosthesis • Physiotherapy-Range of motion exercise (ROM), muscle strengthening exercises • Crutch maneuvering technique • Activities of daily living • Ambulation • Teach and counsel patients and families 	<p>plan-1</p> <ul style="list-style-type: none"> • Nursing case study/ presentation-1 • Maintain drug book. 	<p>each skill with checklist</p> <ul style="list-style-type: none"> • Evaluation of case study/ presentation. • Completion of activity record
Operation Theatre	6	<ul style="list-style-type: none"> • Identify instruments used in common operations • Participate in infection control practices in the operation theatre • Set – up the table/ trolley for common operative procedures • Assist in giving Anesthesia • Assist in the operative procedures 	<ul style="list-style-type: none"> • Scrubbing, gowning, gloving • Identify instruments, suturing materials for common operations • Disinfection, carbolization, fumigation • Preparation of instrument sets for common operations • Sterilization of sharps and other instruments • Prepare the OT table depending upon the operation • Positioning and monitoring of patients • Endotracheal intubation • Assisting in minor and major operations. 	<ul style="list-style-type: none"> • Assist as a circulatory nurse in: <ul style="list-style-type: none"> <input type="checkbox"/> major cases – 10 <input type="checkbox"/> Minor cases – 5 • Assist as scrub nurse in: <ul style="list-style-type: none"> <input type="checkbox"/> major cases -10 <input type="checkbox"/> minor cases- 5 • Maintain drug book 	<ul style="list-style-type: none"> • Assess performance with rating scale. Completion of activity record

		<ul style="list-style-type: none"> • Provide perioperative nursing care 	<ul style="list-style-type: none"> • Handling specimens • Disposal of waste as per the guidelines 		
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Internship

Time:260 hours (9 weeks)

Areas	Duration (in week)	Objectives	Skills	Assignments	Assessment Methods
ICU, CCU, CARDIAC OT	2	<ul style="list-style-type: none"> • To gain proficiency in ICU nursing • Develop advance skill in special procedures used in critical care unit • Identify potential problems and provide care accordingly • Skill in setting and handling ventilator • Administer injection in infusion pump • Record accurately findings and medications • Develop IPR with family members • Acquaint with OT technique 	<ul style="list-style-type: none"> • Assist in arterial puncture for blood gas analysis • Perform ECG and interpret accordingly • Conduct and analysis pulse oximetry • Care with artificial airway • Assist in endotracheal intubation. • Setting up ventilator • Giving care in ventilator • Drug sheet • Observation of special procedure in OT 	<ul style="list-style-type: none"> • Arterial puncture – 5 • Taking out ECG stripe- 5 • Tracheal suction- 5 • For all assigned patients • Oxygen administration by CPAP mask and use Ambu bag • Assessment and care for all assigned patients • Nursing care of patient on ventilator • Drug sheet 	<ul style="list-style-type: none"> • Record book • Checking with supervisor
Neuro ICU, ITU, OT	2	<ul style="list-style-type: none"> • Develop skill in neurological assessment • Give care to the 	<ul style="list-style-type: none"> • Assess neurological status. • Implement care 	<ul style="list-style-type: none"> • Assessment for all assigned patients 	<ul style="list-style-type: none"> • Record book • Observation checklist

		patient with head injury and spinal injury <ul style="list-style-type: none"> Care with chest surgery and cranial surgery 	to head injury and spinal injury patients <ul style="list-style-type: none"> Drug sheet Pre and post operative care of neuro surgery patients. 	<ul style="list-style-type: none"> Nursing care plan-2 Drug sheet 	
Burns and plastic Reconstructive surgery	2	<ul style="list-style-type: none"> Assess the severity of burns Administer rehydration therapy Observe reconstructive surgery 	<ul style="list-style-type: none"> Nursing care 		
OT, Laproscopic, Orthopaedic, Eye, ENT	3	<ul style="list-style-type: none"> Identify instruments Assist in OT set up Supervise sterilization Assist in OT table lay out. Observe immediately after operation. Supervise infection control 		<ul style="list-style-type: none"> Assist-5 cases 	<ul style="list-style-type: none"> Record book.

Course Outcomes

At the completion of the course, the successful student will be prepared to:

CO1: Provide pre and post operative nursing care to adult patients with surgical disorders, counsel and educate patients and families

CO2: Identify and render nursing care to adult patients with medical disorders and apply counseling techniques

CO3: Identify, assist and supervise in OT during peri operative session

CO4: Observe and take precautions in infection control

Scheme of University Examination for Medical Surgical Nursing I (Practical and Viva- Voce)

There shall be practical and viva- voce examination carrying 100 marks for Internal and 100 marks for External. The practical examinations must be held in the respective clinical areas. One internal and one external examiner should jointly conduct practical/clinical examination for each student. Assessment methods are given in column 7 under course description.

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

PHARMACOLOGY, PATHOLOGY, GENETICS

Pharmacology

Placement: Second year

Time: Theory – 45 hours

Course Code:- Nur203

Course Description: This course is designed to enable students to acquire understanding of pharmaco-dynamic, pharmacokinetics, principles of therapeutics and nursing implications.

Unit	Time Hours	Learning Objectives	Content	Teaching – Learning Activities	Assessment Methods
I	3	Describe pharmacodynamics, pharmacokinetics, classification and the principles of drug administration	Introduction to Pharmacology -Definitions -Sources -Terminology used -Types: Classification -Pharmacodynamics: Actions therapeutic -Adverse, toxic -Pharmacokinetics: absorption, distribution, metabolism, interaction, excretion. - Review : Routes and principles of administration of drugs - Indian Pharmacopoeia: Legal issues - Rational use of drugs - Principles of therapeutics.	-Lecture Discussion	-Short answers -Objective type
II	6	Explain	Chemotherapy	- Lecture	- Short

		chemotherapy of specific infections and infestations and nurse's responsibilities	- Pharmacology of commonly used: Pencillin Cephalosporins Aminoglycosides Macrolide & Broad Spectrum Antibiotics Sulfonamides Quinolones Antiamoebic Antimalarials Anthelmintics Antiscabies agents Antiviral & anti fungal agents Antitubercular drugs Anti leprosy drugs Anticancer drugs Immuno suppressants Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects toxicity and role of nurse.	Discussion - Drug study or presentation	answers - Objective type
III	2	Describe Antiseptics, disinfectants, insecticides and nurse's responsibilities	Pharmacology of commonly used antiseptics, disinfectants and insecticides - Antiseptics; Composition, action, dosage, route, indications, contraindications,	- Lecture Discussion -Drug study or presentation	- Short answers - Objective Type

			<p>drug interactions, side effects, adverse effects, toxicity and role of nurse.</p> <ul style="list-style-type: none"> - Disinfectants - insecticides. 		
IV	2	Describe Drugs acting on Gastro Intestinal system and nurse's responsibilities	<p>Drugs acting on G.I.System</p> <ul style="list-style-type: none"> - Pharmacology of commonly used - •Antiemetics, • Emetics • Purgatives • Antacids • Cholinergic • Anticholinergics • Fluid and electrolyte therapy • Anti diarrhoeals • Histamines <p>Composition, action, dosage, route indications, contraindications, drug interactions, side effects, adverse effects toxicity and role of nurse.</p>	<ul style="list-style-type: none"> - Lecture Discussion - Drug study or presentation 	<ul style="list-style-type: none"> - Short answers - Objective Type
V	2	Describe Drugs used on Respiratory systems and nurse's responsibilities	<p>Drugs used on Respiratory Systems</p> <ul style="list-style-type: none"> - Pharmacology of commonly used. • Antiasthmatics • Mucolytics • Decongestants 	<ul style="list-style-type: none"> - Lecture Discussion - Drug Study or presentation 	<ul style="list-style-type: none"> - Short Answers - Objective type

			<ul style="list-style-type: none"> • Expectorants • Antitussives • Bronchodilators • Broncho constrictors • Antihistamines <p>Composition, action, dosage , route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.</p>		
VI	2	Describe Drugs used on Urinary System and nurse's responsibilities	Drugs used on Urinary system <ul style="list-style-type: none"> - Pharmacology of commonly used. • Diuretics and antidiuretics • Urinary antiseptics • Cholinergic and anticholinergics • Acidifiers and alkalanizers <p>Composition, action, dosage , route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.</p>	- Lecture Discussion - Drug Study or presentation	- Short answers - Objective type
VII	4	Describe Drugs used in Deaddiction, emergency,	Miscellaneous <ul style="list-style-type: none"> • Drugs used in de-addiction • Drugs used in CPR and emergency 	- Lecture Discussion - Drug Study or	- Short answers - Objective type

		deficiency of vitamins & minerals, poisoning for immunization and immunosuppression and nurse's responsibilities	<ul style="list-style-type: none"> • Vitamins and minerals • Immunosuppressants • Antidotes • Antivenom • Vaccines and sera 	presentation	
VIII	1	Describe Drugs used on skin mucous membranes and nurse's responsibilities	Drugs used on skin and mucous membranes <ul style="list-style-type: none"> - Topical applications for skin, eye, ear, nose and buccal cavity Antipruritics <ul style="list-style-type: none"> - Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse. 	- Lecture Discussion - Drug Study or presentation	- Short answers - Objective type
IX	8	Describe Drugs used on Nervous System and nurse's responsibilities	Drugs acting on Nervous System <ul style="list-style-type: none"> - Basic & applied pharmacology of commonly used: - Analgesics and Anaesthetics <ul style="list-style-type: none"> • Analgesics - Non steroidal anti-inflammatory (NSAID) drugs <ul style="list-style-type: none"> • Antipyretics 	-Lecture Discussion - Drug Study or presentation	- Short Answers - Objective Type

			<ul style="list-style-type: none"> • Hypnotics and Sedatives <ul style="list-style-type: none"> - Opioids - Non-Opioids - Tranquilizers - General & local anesthetics - Gases: oxygen, nitrous oxide, carbon-dioxide • Cholinergic and anticholinergics: <ul style="list-style-type: none"> - Muscle relaxants - Major tranquilizers - Anti-psychotics - Antidepressants - Anticonvulsants - Adrenergics - Noradrenergics' - Mood stabilizers - Acetylcholine - Stimulants <p>Composition, action, dosage , route indications, contraindications, drug interactions, side effects, adverse effects. toxicity and role of nurse.</p>		
X	5	Describe Drugs used on Cardiovascular System and nurse's	Cardio vascular drugs <ul style="list-style-type: none"> • Haematinics • Cardiotonics • Anti anginals • Anti-hypertensives & 	- Lecture Discussion - Observational Visits	- Short Answers - Objective type

		responsibilities	<p>Vasodilators</p> <ul style="list-style-type: none"> • Anti-arrhythmics • Plasma expanders • Coagulants & anticoagulants • Antiplatelets & thrombolytics • Hypolipidemics <p>Composition, action, dosage , route indications, contraindications, drug interactions, side effects, adverse effects toxicity and role of nurse.</p>		
XI	4	Describe drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities	<p>Drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy</p> <ul style="list-style-type: none"> • Insulins & oral hypoglycemics • Thyroid supplements and suppressants • Steroids, Anabolics • Uterine stimulants and relaxants • Oral contraceptives • Other estrogen-progestrone preparations • Corticotrophine & Gonadotropines • Adrenaline 	<p>- Lecture Discussion - Drug Study or presentation</p>	<p>- Short Answers - Objective Type</p>

			<ul style="list-style-type: none"> • Prostaglandins • Calcitonins • Calcium salts. • Calcium regulators <p>Composition, action, dosage , route indications, contraindications, drug interactions, side effects, adverse effects toxicity and role of nurse.</p>		
XII	6	Demonstrate awareness of the common drugs used in alternative system of medicine	<p>Introduction to Drugs used in alternative systems of medicine:</p> <ul style="list-style-type: none"> • Ayurveda, Homeopathy, Unani And Sidha etc. 	<p>- Lecture Discussion - Observational Visits</p>	<p>- Short Answers - Objective Type</p>

Pathology

Placement: Second Year B.Sc Nursing

Time: - 30 hours

Course Code: - Nur203**Course Description: -** This course is designed to enable students to acquire knowledge of pathology of various disease conditions and apply this knowledge in practice of nursing.

Unit	Time		Learning Objectives	Content	Teaching – Learning Activities	Assessment Methods
	Th. Hours	Pr. Hours				
I	3	-	<ul style="list-style-type: none">Define the common terms used in pathologyAppreciate the deviations from normal to abnormal structure and functions of the body system.	Introduction <ul style="list-style-type: none">Importance of the study of pathologyDefinition of termsMethods and techniquesCellular and Tissue changesInfiltration and regenerationInflammations and InfectionsWound healingVascular changes- Cellular growth, NeoplasmsNormal and Cancer cellBenign and Malignant growthsIn situ carcinoma	<ul style="list-style-type: none">Lecture Discussion <ul style="list-style-type: none">Explain using charts	<ul style="list-style-type: none">Short answersObjective type

				- Disturbances of fluid and electrolyte Imbalance.		
II	10	5	Explain Pathological changes in disease conditions of various system	Special pathology <ul style="list-style-type: none"> • Pathological changes in conditions of various systems: • <u>Respiratory tract</u> <ul style="list-style-type: none"> - Tuberculosis, Bronchitis. Pleural effusion and pneumonia - Lung abscess, emphysema, bronchiectasis - Bronchial asthma, Chronic obstructive Pulmonary disease & tumours. • <u>Cardio-vascular system</u> <ul style="list-style-type: none"> - Pericardial effusion - Rheumatic heart disease - Infective endocarditis atherosclerosis - Ischemia, infarction & aneurysm • <u>Gastro Intestinal Tract</u> <ul style="list-style-type: none"> - Peptic ulcer, typhoid - Carcinoma of GI tract, 	<ul style="list-style-type: none"> • Lecture Discussion • Explain using charts, slides specimen, X-rays and Scans • Visit to Pathology lab, endoscopy unit and OT 	<ul style="list-style-type: none"> • Short answers • Objective type

				buccal, Esophageal, - Gastric & intestinal • <u>Liver, Gall bladder & pancreas</u> - Hepatitis, Chronic liver, abscess, cirrhosis - Tumours of liver, gall bladder and pancreas - Cholecystitis • <u>Kidney & Urinary tract</u> - Glomerulonephritis - Pyelonephritis - Calculi - Renal Failure - Renal Carcinoma - Cystitis • <u>Male genital systems.</u> - Cryptorchidism, testicular atrophy - Prostatic hyperplasia, carcinoma Penis & prostate • <u>Female genital system</u> - Fibroids - Carcinoma cervix and Endometrium - Vesicular mole, choriocarcinoma		
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				<ul style="list-style-type: none"> - Ectopic gestation - Ovarian cyst & tumors - Breast Cancer • <u>Central Nervous system</u> - Hydrocephalus, Meningitis, encephalitis, - Vascular disorders - thrombosis, embolism - Stroke, paraplegia, quadriplegia - Tumours, Meningiomas - gliomas • Metastatic tumour • <u>Skeletal system</u> - Bone healing, osteoporosis osteomyelitis • Arthritis & tumours 		
III	4	3	Describe various laboratory tests in assessment and monitoring of disease conditions.	<u>Clinical Pathology</u> <ul style="list-style-type: none"> • Various blood and bone marrow tests in assessment and monitoring of disease conditions. - Hemoglobin - RBC, White cell & platelet counts - Bleeding time, clotting time and 	<ul style="list-style-type: none"> • Lecture Discussion • Demonstration • Visits to Clinical pathology & Bio-chemistry lab and Blood bank 	Short answers - Objective Type

				prothrombine time - Blood grouping and cross matching - Blood chemistry - Blood culture - Serological and immunological tests - Other blood tests - Examination of Bone marrow - Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values.		
IV	2	1	Describe the laboratory tests for examination of body cavity fluids, transudates and exudates	Examination of body cavity fluids, transudates and exudates <ul style="list-style-type: none"> • The laboratories tests used in CSF analysis • Examination of other body cavity fluids, transudates and exudates - sputum, wound discharge etc. 	-Lecture Discussion Demonstration	-Short answers - Objective type

				<ul style="list-style-type: none"> • Analysis of gastric and duodenal contents • Analysis of semensperm count, motility and morphology and their importance in infertility • Methods of collection of CSF and other cavity fluids specimen for various clinical pathology, biochemistry microbiology tests, inference and normal values. 		
V	1	1	Describe the laboratory tests for examination of Urine and faeces.	Urine and faeces <ul style="list-style-type: none"> • Urine <ul style="list-style-type: none"> - Physical characteristics - Analysis - Culture and sensitivity • Faeces <ul style="list-style-type: none"> - Characteristics - Stool examination: occult blood, ova, parasite and cyst, reducing substance etc. • Methods of collection for various, tests, inference and normal values. 	Lecture Discussion - Demonstration	Short answers - Objective Type

Genetics

Placement - Second year B.Sc Nursing

Time: Theory – 15 Hours

Course Code: - Nur203

Course Description: This course is designed to enable students to acquire understanding of genetics, its role in causation and management of defects and diseases.

Unit	Time (Hours)	Learning Objectives	Content	Teaching – Learning Activities	Assessment Methods
I	3	Explain nature , principles and perspectives of heredity	Introduction <ul style="list-style-type: none">• Practical application of genetics in nursing• Impact of genetic condition on families• Review of cellular division mitosis and meiosis• Characteristics and structure of genes• Chromosomes – sex determination• Chromosomal aberrations• Patterns of inheritance<ul style="list-style-type: none">❖ Mendalian theory of inheritance❖ Multiple allots and blood groups❖ Sex linked inheritance❖ Mechanism of inheritance❖ Errors in transmission (mutation)	*Lecture Discussion *Explain using charts, slides	*Short answers *Objective type

II	3	Explain maternal, prenatal and genetic influences on development of defects and diseases.	Maternal, prenatal and genetic influences on development of defects and diseases <ul style="list-style-type: none"> • Conditions affecting the mother: genetics and infections. • Consanguinity atopy • Prenatal nutrition and food allergies • Maternal age • Maternal drug therapy • Prenatal testing and diagnosis • Effect of radiation, drugs and chemicals • Infertility • Spontaneous abortion • Neural tube defects and role of folic acid in lowering the risk • Down syndrome (Trisomy 21) 	*Lecture Discussion *Explain using charts, slides	*Short answers *Objective type
III	2	Explain the screening methods for genetic defects and diseases in neonates and	Genetic testing in neonates and children <ul style="list-style-type: none"> • Screening for Congenital abnormalities <p>*Development delay</p> <p>*Dysmorphism</p>	*Lecture Discussion *Explain using charts, slides	*Short answers *Objective type

		children			
IV	2	Identify genetic disorders in adolescents and adults.	Genetic condition of adolescents and adults <ul style="list-style-type: none"> • Cancer genetics – familial cancer • Inborn errors of metabolism • Blood group alleles and hematological disorder • Genetic haemochromatosis • Huntington's disease • Mental illness 	*Lecture Discussion *Explain using charts, slides	*Short answers *Objective type
V	5	Describe the role of nurse in genetic services and counseling	Services related to Genetics <ul style="list-style-type: none"> • Genetic testing • Human genome project • Gene therapy • The Eugenics movements • Genetic counseling • Legal and ethical issues role of nurse. 	*Lecture Discussion	*Short answers *Objective type

Course Outcomes

Through this course the students will be able to:

CO1. Explain how the fundamental pharmacological properties of pharmacokinetics and pharmacodynamics influence routes of administration

CO2. Describe the process by which new drugs are discovered, developed, tested, and finally approved by the federal drug administration for use in the clinic.

CO3. Apply principles of normal anatomy and physiology of human body systems to the patho-physiological processes and common health problems

CO4. Explain how a patients' family history or pedigree can help nurses identify a disease trend such as breast cancer and blood clotting disorders.

CO5. Describe four essential activities related to genetics and genomics related to health care.

CO6. Students would have studied the composition, action, dosage, indications, contra-indications, side-effects, and root of drugs used in respiratory system, urinary system, gastro-intestinal system, nervous system, skin, and mucus membrane.

CO7. Students would have studied conditions, affecting the mother, baby, and their genetic influence on development.

CO8. Describe four essential activities related to genetics and genomics related to health care.

Scheme of University Examination for Pharmacology

There shall be one paper of three hours duration for pharmacology, pathology and genetics, carrying 75 marks. Section A- shall be Pharmacology carrying 38 marks and section B- of Pathology of 25 and Genetics with 12 marks. The distribution of type of questions and marks shall be as under. There shall be no practical examination.

Distribution of Type of Questions and Marks for Pharmacology (Section A)

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	1	10	10
Short Essay (SE)	4	5	20
Short Answer (SA)	4	2	8
Total Marks			38

Distribution of Type of Questions and Marks for Pathology and Genetics (Section B)

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	1	10	10
Short Essay (SE)	3	5	15
Short Answer (SA)	6	2	12
Total Marks			37

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

Community Health Nursing – I

Placement: Second year

Time: Theory: 90 Hours, Practical: 135 Hours

Course code: - Nur204**Course description:** This course is designed for students to appreciate the principles of promotion and maintenance of health.

Unit	Time (Hours)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	2	Describe Concept and dimensions of health	Introduction * Community health nursing *Definition, concept and dimensions of health *Promotion of health * Maintenance of health	*Lecture discussion	*Short answers
II	20	Describe determinants of health	Determinants of health * Eugenics * Environment * Physical: Air, light, Ventilation, Water, Housing, Sanitation; disposal of waste, disposal of dead bodies, Forestation, Noise, Climate, Communication: - infrastructure facilities and Linkages □ Acts regulating the environment. National Pollution control board Bacterial & viral : Agents, Host carriers and immunity	*Lecture discussion * Explain using Charts, graphs, Models, films, slides *Visits to water supply, sewage disposal, milk plants, slaughter house etc.	*Essay type .*Short answers *Objective type

			<p>*Food hygiene: Production, Preservation, Purchase, Preparation, consumption</p> <p>*Acts regulating food hygiene prevention of food adulteration act, Drugs and cosmetic act</p> <p>*Socio- cultural</p> <p>-Customs, taboos</p> <p>-Marriage system</p> <p>-Family structure</p> <p>Status of special groups; females, children, elderly, challenged groups and sick persons</p> <p>*Life style</p> <p>*Hygiene</p> <p>*Physical activity</p> <p>- Recreation and sleep</p> <p>-sexual life</p> <p>Spiritual life philosophy</p> <p>Self reliance</p> <p>-Dietary pattern</p> <p>Education</p> <p>Occupation</p> <p>*Financial management</p> <p>*Income</p> <p>*Budget</p> <p>* Purchasing power</p> <p>*Security</p>		
III	10	Describe	Epidemiology	*Lecture	*Essay type

		concept, scope, uses methods and approaches of epidemiology	<p>*Definition, concept, aims, scope, uses and terminology used in epidemiology</p> <p>*Dynamics of disease transmission: epidemiological triad</p> <p>*Morbidity and mortality: measurements</p> <p>*Levels of prevention</p> <p>*Methods of epidemiology of Descriptive,</p> <ul style="list-style-type: none"> ▪ Analytical: Epidemic Investigation ▪ Experimental 	<p>discussion</p> <p>*Explain Using Charts, graphs</p> <p>*Models, films, slides</p>	*Short answers
IV	25	Describe Epidemiology and nursing management of common Communicable diseases	<p>Epidemiology and nursing management of common Communicable Diseases</p> <p>❖ Respiratory infections</p> <ul style="list-style-type: none"> · Small Pox · Chicken Pox · Measles · Influenza · Rubella · ARI & Pneumonia · Mumps · Diphtheria · Whooping cough • Meningococcal meningitis • Tuberculosis • SARS • Intestinal Infections 	<p>*Lecture discussion</p> <p>*Explain using Charts, graphs</p> <p>*Models, films, slides</p> <p>*Seminar</p> <p>*Supervised field Practice health centers, clinics and homes</p>	<p>*Essay type</p> <p>*Short answers</p> <p>*Objective type</p>

			<ul style="list-style-type: none"> • Poliomyelitis • Viral Hepatitis • Cholera • Diarrhoeal diseases • Typhoid Fever • Food poisoning • Amoebiasis • Hook worm infection • Ascariasis • Dracunculiasis • Arthropod infections • Dengue • Malaria • Filariasis • Zoonoses <p>Viral</p> <ul style="list-style-type: none"> • Rabies • Yellow fever • Japanese encephalitis • Kyasnur Forest Disease <p>Bacterial</p> <ul style="list-style-type: none"> • Brucellosis • Plague • Human Salmonellosis • Anthrax • Leptospirosis <p>Rickettsial diseases</p> <ul style="list-style-type: none"> • Rickettsial Zoonoses • Scrub typhus • Murine typhus 	*Group projects/ Health education	
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			<ul style="list-style-type: none"> • Tick typhus • Q fever Parasitic zoonoses <ul style="list-style-type: none"> • Taeniasis • Hydatid disease • Leishmaniasis Surface infection <ul style="list-style-type: none"> • Trachoma • Tetanus • Leprosy • STD & RTI • Yaws • HIV/AIDS • Any other 		
V	10	Describe Epidemiology And nursing management of common Non-communicable diseases	Epidemiology and Nursing management of Non communicable diseases Malnutrition: under nutrition, over nutrition, nutritional deficiencies *Obesity * Anaemia *Hypertension * Stroke * Rheumatic Heart Disease * Coronary Heart Disease * Cancer * Diabetes mellitus *Blindness *Accidents	*Lecture discussion * Explain using Charts, graphs *Models, films, slides *Seminar *Supervised field practice health centers, clinics and homes * Group projects/	*Essay type *Short answers *Objective type

			<ul style="list-style-type: none"> * Mental illness * Iodine Deficiency *Flurosis *Epilepsy 	Health education	
VI	6	<ul style="list-style-type: none"> *Describe the Concepts and scope of demography * Describe methods of data collection, analysis and interpretation of demographic data 	Demography <ul style="list-style-type: none"> • Definition, concept and scope • Methods of collection, analysis and interpretation of demographic data • Demographic rates and ratios 	<ul style="list-style-type: none"> *Lecture discussion *Community identification survey 	<ul style="list-style-type: none"> *Essay type *Short answers *Objective type *Assessment of Survey report
VII	17	<ul style="list-style-type: none"> • Identify the impact of population explosion in India • Describe methods of population control 	Population and its Control <ul style="list-style-type: none"> • Population explosion and its impact on social, economic development of individual, society and country • Population control <p>Overall development: women empowerment, social, economic and educational development</p> <ul style="list-style-type: none"> • Limiting family size: <ul style="list-style-type: none"> * Promotion of small family norm * Methods: spacing (natural, biological, chemical, mechanical methods etc.) 	<ul style="list-style-type: none"> *Lecture discussion * Population survey * Counseling *Demonstration * Practice session *Supervised field practice 	<ul style="list-style-type: none"> *Essay type *Short answers *Objective type *Assessment of Survey report

			* Terminal: surgical methods * Emergency contraception		
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Course Outcomes

Through this course the students will be able to:

CO1. Understand the concepts of community health and community health nursing

CO2. Understand the various factors influencing health in the community

CO3. Understand the concept, scope, uses and methods of epidemiology

CO4. Understand the epidemiology and nursing management of common communicable diseases.

CO5. Understand the concept and scope of demography

CO6. Understand the impact of population explosion and population control

CO7. Differentiate between levels of prevention and uses and scope of epidemiology

CO8. Get to know about determinants of health and understand the different environmental factors affect the health of an individual

Scheme of University Examination for Community Health Nursing I

There shall be one theory paper of three hours duration carrying 75 marks.

Distribution of type of questions and marks for Community Health Nursing I shall be as given under.

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	2	10	20
Short Essay (SE)	7	5	35
Short Answer (SA)	10	2	20
Total Marks			75

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).
6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.

Community Health Nursing I – Practical

Placement: Second Year

Time: Practical – 135 hours

Course code: Nur204 (Pr)

Areas	Duration (in week)	Objectives	Skills	Assignments	Assessment methods
Community health nursing	2 wks urban and 2 wks rural	<ul style="list-style-type: none">• Build and Maintain rapport• Identify demographic characteristics, health determinants & community health resources• Diagnose health needs of individual and families• Provide primary care in health centre• Counsel & educate individual, family & community	<ul style="list-style-type: none">• Use techniques of inter-personal relationship• Identification of health determinants of community• History taking• Physical examination• Collect specimens- sputum, malaria smear• Perform simple lab tests at centre - blood for Haemoglobin and sugar, urine for albumin and sugar• Administer vaccines and medications to adults• Counsel and teach individual, family and community<ul style="list-style-type: none">□ Nutrition□ Hygiene□ Self health monitoring□ Seeking health services□ Healthy life style□ Family welfare methods□ Health promotion	<ul style="list-style-type: none">• To work with 2 assigned families each in urban & rural• Family study –1• Observation report of community – 1• Health talks 2 (1 in urban & in rural)	<ul style="list-style-type: none">• Assess clinical performance with rating scale• Assess each skill with checklist• Evaluation of family study, observation report and health talk• Completion of activity record

Course Outcomes

Through this course the students will be able to:

CO1. Build and Maintain rapport by using the techniques of inter-personal relationship

CO2. Identify demographic characteristics, health determinants & community health resources for the identification

CO3. Diagnose health needs of individual and families to provide primary care in health centre

CO4. Counsel & educate individual, family & community regarding diet, hygiene and self health monitoring

Communication & Educational Technology

Placement: Second year

Time – 90 hrs (Theory: 60 Hours, Practical: 30 Hours)

Course Code:-Nur205

Course Description: This course is designed to help the students acquire an understanding of the principles and methods of communication and teaching. It helps to develop skill in communicating effectively, maintaining effective interpersonal relations, teaching individuals and groups in clinical, community health and educational settings.

Unit	Time		Learning objectives	Content	Teaching – learning activities	Assessment Methods
	th. Hours	Pr. Hours				
I	5		Describe the communication process identify techniques of effective communication	<u>Review of Communication Process</u> <ul style="list-style-type: none">• Process; elements And channel• Facilitators• Barriers and methods of overcoming• Techniques.	<ul style="list-style-type: none">• Lecture Discussion• Role plays• Exercises with audio/video tapes	<ul style="list-style-type: none">• Respond to critical incidents• Short answers• Objective type
II	5		Establish effective inter-personal relations with patients, families & co-workers	<u>Interpersonal relations</u> <ul style="list-style-type: none">• Purpose & types• Phases• Barriers & methods of overcoming• Johari Window	<ul style="list-style-type: none">• Lecture Discussion• Role Plays• Exercises with audio/video tapes• Process recording	<ul style="list-style-type: none">• Short Answer• Objective type
III	5		Develop effective human	Human relations <ul style="list-style-type: none">• Understanding self• Social behaviour,	<ul style="list-style-type: none">• Lecture Discussion• Sociometry	<ul style="list-style-type: none">• Short Answer• Objective

			relations in context of nursing	motivation, social attitudes • Individual and groups • Groups & individual • Human relations in context of nursing • Group dynamics Team work	• Group games • Psychometric exercise followed by discussion	type • Respond to test based on critical incidents
IV	10	5	Develop basic skill of counseling and guidance	Guidance & counseling • Definition • Purpose, scope and need • Basic principles • Organization of counseling services • Types of counseling approaches • Role and preparation of counselor • Issues for counseling in nursing: students and practitioners • Counseling process — steps & techniques, tools of counselor • Managing disciplinary problems • Management of crisis & referral	• Lecture Discussion • Role play on counseling in different situations followed by discussion	• Short Answer • Objective type • Assess performance in role play situations

V	5		Describe the philosophy & principles of Education Explain the teaching learning process	Principles of education & teaching learning process <ul style="list-style-type: none"> • Education: meaning, philosophy, aims, functions & principles • Nature and Characteristics of learning • Principles and maxims of teaching, • Formulating objectives; general and specific • Lesson planning • Classroom management 	<ul style="list-style-type: none"> • Lecture. Discussion • Prepare lesson plan • Micro teaching • Exercise on writing Objectives 	<ul style="list-style-type: none"> • Short Answer • Objective type • Assess lesson plans & teaching sessions
VI	10	10	Demonstrate teaching skill using various teaching methods in clinical, classroom and community settings	Methods of teaching <ul style="list-style-type: none"> • Lecture, demonstration, group discussion, seminar symposium, panel discussion, role play, project, field trip, workshop, exhibition, programmed instruction, computer assisted learning, micro teaching problem based learning, Self instructional module and simulation etc. • Clinical teaching methods: Case method, nursing round & reports, bedside clinic, conference (individual & 	<ul style="list-style-type: none"> • Lecture Discussion • Conduct 5 teaching sessions using different methods & media 	<ul style="list-style-type: none"> • Short Answer • Objective type • Assess teaching sessions

				group) process recording.		
VII	10	8	Prepare and use different type of educational media effectively	Educational Media <ul style="list-style-type: none"> Purposes and types of A.V. Aids, Principles & Sources etc., Graphic aids: chalk board, chart, graphs, posters, flash cards, flannel graph, bulletin, cartoon. Three Dimensional Aids: Objects, Specimens, Models, Puppets Printed Aids: Pamphlets & leaflets. Projected Aids: Slides, OHP, Films, TV, VCR/ VCD, Camera, Microscope, LCD. Audio Aids: Tape recorder, public address system. Computer 	<ul style="list-style-type: none"> Lecture, discussions , Demonstration Prepare different teaching aids- Projected and non-projected. 	<ul style="list-style-type: none"> Short answers Objective Type Assess the teaching aids prepared.
VIII	5	7	Prepare different types of	Assessment: <ul style="list-style-type: none"> Purpose and scope of evaluation and 	<ul style="list-style-type: none"> Lecture, Discussion s, 	<ul style="list-style-type: none"> Short answers Objective

			<p>questions for assessment of knowledge, skills and attitudes</p>	<p>assessment</p> <ul style="list-style-type: none"> Criteria for selection of assessment techniques and methods Assessment of knowledge: Essay type questions Short answer questions (SAQ). Multiple Choice Questions (MCQ). Assessment of skills: Observation Check List, Practical Exam, Viva, Objective Structured clinical examination (OSCE) Assessment of attitude: Attitude scales. 	<ul style="list-style-type: none"> Exercise on writing different types of assessment tools. 	<p>types</p> <ul style="list-style-type: none"> Assess the strategies used in practice teaching sessions and exercise sessions
IX	5		<p>Teach individuals, groups and communities about health with their active participation</p>	<p>Information, Education & communication for health (IEC)</p> <ul style="list-style-type: none"> Health behaviour & health education Planning for health education Health education with individuals, groups & communities Communicating health messages 	<ul style="list-style-type: none"> Lecture Discussion Plan & conduct health education, sessions for individuals, group & communities 	<ul style="list-style-type: none"> Short Answer Objective type Assess the planning & conduct of the educational session

				<ul style="list-style-type: none"> • Methods & media for communicating health messages • Using mass media 		
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Course Outcomes

Through this course the students will be able to:

CO1. Identify the common error and rectify them.

CO2. To develop standard and accreditation process in nursing education program.

CO3. To develop basic skills in guidance and counseling

CO4. To develop effective human relation in context to nursing

CO5. To develop teaching skills by using various teaching methods.

CO6. Establish the effective interpersonal relations with patients, families and co-workers.

CO7. Acquire knowledge and develop skills regarding teaching by using various teaching methods in clinical, classroom and community settings.

CO8. Explore the different types of questions for assessment of knowledge, skills and attitudes.

Scheme of University Examination for Communication and Educational Technology

There shall be one theory paper of three hours duration carrying 75 marks.

Distribution of type of questions and marks for Communication and Educational Technology shall be as given under

Type of Questions	No. of Questions	Marks	Sub – total
Long Essay (LE)	2	10	20
Short Essay (SE)	7	5	35
Short Answer (SA)	10	2	20
Total Marks			75

Note:-

1. Minimum pass marks shall be 50% in each of the Internal and External papers separately.
2. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award degree

4. A candidate has to pass in theory and practical exam separately in each of the paper.
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6. Maximum number of attempts permitted for each paper is 3 including first attempt.
7. A candidate failing in more than two subjects will not be promoted to the next year.