

In force from June – 2009

FY. B,Sc. (Nursing)

Placement – First Year

60 Hours

Paper No.- 01 : ENGLISH

25+75=100 Marks

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 and 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 dictionary • Class-room Conversation • Exercise on use of Grammar • Practice in public Speaking 	<ul style="list-style-type: none"> • 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"> • Short Answers • Essay Types
III	10	<ul style="list-style-type: none"> • Develop writing skills 	<ul style="list-style-type: none"> • Various forms of composition <ul style="list-style-type: none"> * Letter writing * Note taking * Precis writing * Nurses notes * Anecdotal records * Diary writing * Reports on health problems etc. * Resume/CV 	<ul style="list-style-type: none"> • Exercises on Writing <ul style="list-style-type: none"> * Letter writing * Nurses notes * Precis * Diary * Anecdote * Health problems * Story writing * Resume/CV • Essay writing <ul style="list-style-type: none"> * Discussion on written reports/ documents 	<ul style="list-style-type: none"> • Assessment of the skills based on the check list
IV	6	<ul style="list-style-type: none"> • Develop skill in Spoken English 	<ul style="list-style-type: none"> • Spoken English <ul style="list-style-type: none"> * Oral report * Discussion * Debate * Telephonic conversation 	<ul style="list-style-type: none"> • Exercise on: <ul style="list-style-type: none"> * Debating * Participating in Seminar, panel, symposium 	<ul style="list-style-type: none"> • Assessment of the skills based on the check list
V	4	<ul style="list-style-type: none"> • Develop skill in Listening comprehension 	<ul style="list-style-type: none"> • Listening comprehension <ul style="list-style-type: none"> * Media, audio, video, speeches Etc. 	<ul style="list-style-type: none"> • Exercise on: <ul style="list-style-type: none"> * Listening to audio Video, tapes and Identify the key point 	<ul style="list-style-type: none"> • Assessment of The skills based On the check list

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FY. B, Sc. (Nursing)

Placement – First Year

60 Hours

Paper No.- 02 : Anatomy

25+75=100 Marks

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, Membranes And glands. 	<p>Introduction to Anatomical terms organization of the human body</p> <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 Application and implications in Nursing 	<ul style="list-style-type: none"> Lecture discussion Explain using charts, microscopic slides, Skeleton & torso Demonstrate cells, types of tissues membranes and glands Record Book 	<ul style="list-style-type: none"> Short answer Questions Objective type
II	6	<ul style="list-style-type: none"> Describe the Structure & 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 – classification and Structure Alterations in disease Applications and implication in Nursing. 	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts, skeleton, Loose bones, and Joints Record book 	<ul style="list-style-type: none"> Short answer Questions Objective type
III	7	<ul style="list-style-type: none"> Describe the Structure & Function of Muscles 	<p>The Muscular System</p> <ul style="list-style-type: none"> Types and structure of Muscles Muscles groups Alterations in disease Applications and implication in Nursing. 	<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"> Short answer Questions Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
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"> Structure of neurologia & neurons. Somatic Nervous system <ul style="list-style-type: none"> * Structure of brain, spinal Chord,cranial nerves, Peripheral nerves Autonomic nervous system – Sympathetic, parasympathetic <ul style="list-style-type: none"> * Structure, location <p>Alterations in disease Applications and implication in Nursing.</p>	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts,models, slides,speciments Drawing book 	<ul style="list-style-type: none"> Short answer Questions Objective type
V	6	<ul style="list-style-type: none"> Explain the Structure & Function of Sensory organs 	<p>The Sensory Organs</p> <ul style="list-style-type: none"> Structure of skin, eye, ear, Noes,tongue, (Auditory and Olfactory apparatus) <p>Alterations in disease Applications and implication in Nursing.</p>	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts,models, slides,speciments Record book 	<ul style="list-style-type: none"> Short answer Questions Objective type
VI	7	<ul style="list-style-type: none"> Describe the Structure & Function of Circulatory And lymphatic system 	<p>Circulatory and lymphatic System</p> <ul style="list-style-type: none"> The Circulatory system <ul style="list-style-type: none"> * Blood – Microscopic structure * Structure of Heart * Structure of blood vessels- Arterial & 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 implication in Nursing.</p>	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts,models, slides,speciments Record book 	<ul style="list-style-type: none"> Short answer Questions Objective type
VII	5	<ul style="list-style-type: none"> Describe the Structure & Function of Respiratory System 	<p>The Respiratory System</p> <ul style="list-style-type: none"> Structure of the organs of Respiration Muscles of respiration : Intercostais and diaphragm <p>Alterations in disease Applications and implication in Nursing.</p>	<ul style="list-style-type: none"> Lecture Discussion Explain using torso,models, charts,slides, speciments Record book 	<ul style="list-style-type: none"> Short answer Questions Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
VIII	6	<ul style="list-style-type: none"> Describe the Structure & Function of Digestive System 	The Digestive System <ul style="list-style-type: none"> Structure of Alimentary tract And accessory organs of Digestion Alterations in disease Applications and implication in Nursing. 	<ul style="list-style-type: none"> Lecture Discussion Explain using torso,models, charts,slides, specimens Record book 	<ul style="list-style-type: none"> Short answer Questions Objective type
IX	4	<ul style="list-style-type: none"> Describe the Structure & Function of Excretory System 	The Excretory System(Urinary) <ul style="list-style-type: none"> Structure of organs of urinary System: Kidney, structure of Skin Alterations in disease Applications and implication in Nursing. 	<ul style="list-style-type: none"> Lecture Discussion Explain using torso,models, charts,slides, specimens Record book 	<ul style="list-style-type: none"> Short answer Questions Objective type
X	4	<ul style="list-style-type: none"> Describe the Structure & Function of Endocrine System 	The Endocrine System <ul style="list-style-type: none"> Structure of Pituitary, Pancreas,thyroid,Parathyroid, Thymus and adrenal glands Alterations in disease Applications and implication in Nursing. 	<ul style="list-style-type: none"> Lecture Discussion Explain using torso,models, charts,slides, specimens Record book 	<ul style="list-style-type: none"> Short answer Questions Objective type
XI	4	<ul style="list-style-type: none"> Describe the Structure & Function of reproductive System 	The Reproductive including System <ul style="list-style-type: none"> Structure of female Reproductive organs Structure of male Reproductive organs Structure of breast Alterations in disease Applications and implication in Nursing. 	<ul style="list-style-type: none"> Lecture Discussion Explain using torso,models, charts,slides, specimens Record book 	<ul style="list-style-type: none"> Short answer Questions Objective type

Reference Books:

1. Anatomy & physiology for nurses : Evelyn pears
2. Anatomy & physiology in health and illness : Rose & Wilson
3. Anatomy & physiology : Jackson
4. Anatomy & physiology : Winwood
5. Anatomy & physiology : Tortora

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FY. B, Sc. (Nursing)

Placement – First Year

60 Hours

Paper No.- 03 : Physiology

25+75=100 Marks

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 anatomical structures in disease 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 & glands-function Alterations in disease Application and implications in Nursing	<ul style="list-style-type: none"> Lecture discussion 	<ul style="list-style-type: none"> Short answer Questions Objective type
II	4	<ul style="list-style-type: none"> Describe the Bone Formation And growth And Movements Of skeleton System 	Skeletal system <ul style="list-style-type: none"> Bone formation & growth Bones-functions and Movements of bones of axial And appendicular skeleton, Bone healing Joints and joint movement Application and implications in Nursing	<ul style="list-style-type: none"> Lecture discussion Explain using charts, models and films Demonstration Of joint movements 	<ul style="list-style-type: none"> Short answer Questions Objective type
III	4	<ul style="list-style-type: none"> Describe the Muscle Movements And tone and Demonstrate Muscle Contraction And tone 	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 implication in Nursing.	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts,models, Slides, specimen And films Demonstration Of muscle Movements, tone And contraction 	<ul style="list-style-type: none"> Short answer Questions Objective type
IV	7	<ul style="list-style-type: none"> Describe the Physiology of Nerve stimulus Reflexes, brain Cranial nerves Demonstrate Reflex action And stimulus 	Nervous System <ul style="list-style-type: none"> Functions of Neurologia & Neurons Stimulus & nerve-impulse- Definitions and mechanism Functions of brain, spinal Cord, cranial and spinal nerves Cerebrospinal fluid- Composition, circulation and Function Reflex arc, reflex action and 	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts,models, Slides, films Demonstration Nerve stimulus, Reflex action, reflexes 	<ul style="list-style-type: none"> Short answer Questions Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			Reflexes.		
			<ul style="list-style-type: none"> • Autonomic functions – * Pain: somatic, visceral, and Referred * Autonomic learning and Biofeedback Alterations in disease Applications and implication in Nursing.		
V	8	<ul style="list-style-type: none"> • Describe the Physiology of Blood and Functions of Heart • Demonstrate Blood cell Count, Coagulation, Hb: BP and Pulse Monitoring 	Circulatory System <ul style="list-style-type: none"> • Blood formation, composition Blood groups, blood coagulation • Hemoglobin: Structure, Synthesis and breakdown, Variation of molecules, Estimation • Functions of heart, conduction, Cardiac cycle, circulation Principles, control, factors Influencing BP and pulse Alterations in disease Applications and implication in Nursing.	<ul style="list-style-type: none"> • Lecture Discussion • Explain using Charts, films • Demonstration Of blood cell Count, Coagulation, Grouping, Hemoglobin Estimation, Heart Conduction System • measurement of Pulse, BP 	<ul style="list-style-type: none"> • Short answer Questions • Objective type
VI	6	<ul style="list-style-type: none"> • Describe the Physiology And Mechanisms Of respiration • Demonstrates 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 disease Alterations in disease Applications and implication in Nursing.	<ul style="list-style-type: none"> • Lecture Discussion • Explain using Charts, films • Demonstration Of spirometry 	<ul style="list-style-type: none"> • Short answer Questions • Objective type
VII	6	<ul style="list-style-type: none"> • Describe the Physiology Of digestive system • Demonstrates 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 	<ul style="list-style-type: none"> • Short answer Questions • Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
VIII	5	<ul style="list-style-type: none"> Describe the Physiology Of excretory system 	The Excretory System <ul style="list-style-type: none"> Functions of kidneys, ureters, Urinary bladder & urethra Composition of urine Mechanism of urine formation function of skin regulation of body Temperature Fluid and electrolyte balance. Alterations in disease Applications and implication in Nursing.	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts, films 	<ul style="list-style-type: none"> Short answer Questions Objective type
IX	4	<ul style="list-style-type: none"> Describe the Physiology Of sensory system 	The Sensory System <ul style="list-style-type: none"> Functions of skin, eye, ear, Nose, tongue Alterations in disease Applications and implication in Nursing.	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts, films 	<ul style="list-style-type: none"> 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 Alterations in disease Applications and implication in Nursing.	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts, films Demonstration of BMR 	<ul style="list-style-type: none"> Short answer Questions Objective type
XI	5	<ul style="list-style-type: none"> Describe the Physiology Of male and female reproductive system 	The Reproductive System <ul style="list-style-type: none"> Reproduction of cell – DNA, Mitosis, Meiosis, Spermatogenesis, oogenesis. Functions of female Reproductive organs: Functions of breast, Female Sexual cycle. Introduction to embryology Functions of male Reproductive organs, male Function in reproduction, Male fertility system, Alterations in disease Applications and implication in Nursing.	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts, films Models Specimens 	<ul style="list-style-type: none"> Short answer Questions Objective type
XII	2	<ul style="list-style-type: none"> Describe the Physiology Lymphology & Immunological System 	Lymphatic and Immunological System <ul style="list-style-type: none"> Circulation of lymph Immunity * Formation of t-cells and b-cells 	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts, films 	<ul style="list-style-type: none"> Short answer Questions Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> * Types of Immunological System * Antigens * Cytokines * Antibodies 		

Reference Books:

1. Anatomy & physiology for nurses : Evelyn pears
2. Anatomy & physiology in health and illness : Rose & Wilson
3. Anatomy & physiology : Jackson
4. Anatomy & physiology : Winwood
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FY. B, Sc. (Nursing)

Placement – First Year

60 Hours

Paper No.- 04 : Nutrition

25+75=100 Marks

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 Methods
I	4	<ul style="list-style-type: none"> Describe the Relationship Between Nutrition & Health. 	<p>Introduction</p> <ul style="list-style-type: none"> Nutrition: <ul style="list-style-type: none"> * history * Concepts Role 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 discussion Explaining using Charts Panel discussion 	<ul style="list-style-type: none"> Short answer Objective type
II	2	<ul style="list-style-type: none"> Describe the Classification, Functions, Sources and Recommended Daily Allowances (RDA) of Carbohydrates 	<p>Carbohydrates</p> <ul style="list-style-type: none"> Classification Caloric value Recommended daily Allowances Dietary sources. Functions Digestion, absorption and Storage, metabolism of Carbohydrates Malnutrition: Deficiencies And Over consumption 	<ul style="list-style-type: none"> Lecture discussion Explain using charts, 	<ul style="list-style-type: none"> Short answer Objective type
III	2	<ul style="list-style-type: none"> Describe the Classification, Functions, Sources and Recommended 	<p>Fats</p> <ul style="list-style-type: none"> Classification Caloric value Recommended daily Allowances 	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts, 	<ul style="list-style-type: none"> Short answer Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		Daily Allowances (RDA) of fats	<ul style="list-style-type: none"> • Dietary sources. • Functions • Digestion, absorption and Storage, metabolism of Carbohydrates • Malnutrition: Deficiencies And Over consumption 		
IV	2	<ul style="list-style-type: none"> • Describe the Classification, Functions, Sources and Recommended Daily Allowances (RDA) of Proteins 	Proteins <ul style="list-style-type: none"> • Classification • Caloric value • Recommended daily Allowances • Dietary sources. • Functions • Digestion, absorption and Storage, metabolism of Carbohydrates • Malnutrition: Deficiencies And Over consumption 	<ul style="list-style-type: none"> • Lecture discussion • Explain using charts, 	<ul style="list-style-type: none"> • Short answer • Objective type
V	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 	<ul style="list-style-type: none"> • Lecture discussion • Explain using charts, • Exercise • Demonstration 	<ul style="list-style-type: none"> • Short answer • Objective type
VI	4	<ul style="list-style-type: none"> • Describe the Classification, Functions, Sources and Recommended Daily Allowances (RDA) of Vitamins 	Vitamins <ul style="list-style-type: none"> • Classification • Recommended daily Allowances • Dietary sources. • Functions • Absorption, synthesis, Metabolism storage and Excretion • Deficiencies • Hypervitaminosis 	<ul style="list-style-type: none"> • Lecture discussion • Explain using charts, 	<ul style="list-style-type: none"> • Short answer • Objective type
VII	4	<ul style="list-style-type: none"> • Describe the Classification, Functions, Sources and Recommended Daily Allowances (RDA) of Minerals 	Minerals <ul style="list-style-type: none"> • Classification • Recommended daily Allowances • Dietary sources. • Functions • Absorption, synthesis, Metabolism storage and Excretion 	<ul style="list-style-type: none"> • Lecture discussion • Explain using charts, 	<ul style="list-style-type: none"> • Short answer • Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> Over consumption and toxicity 		
VIII	3	<ul style="list-style-type: none"> Describe the Sources, Functions, and Requirements Of water & electrolytes 	<p>Water & electrolytes</p> <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 discussion Explain using charts, 	<ul style="list-style-type: none"> Short answer Objective type
IX	5 p-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 	<p>Cookery rules and Preservation of nutrients</p> <ul style="list-style-type: none"> Principles, methods of cooking And serving * Preservation of nutrients Safe food handling-toxicity Storage of food Food preservation, food Additives and its principles Prevention of food Adulteration Act (PFA) Food standards Preparation of simple Bevarages and different types Of food 	<ul style="list-style-type: none"> Lecture Discussion Demonstration Practice session 	<ul style="list-style-type: none"> Short answer Objective Type Assessment Of practice Sessions
X	7 p-5	<ul style="list-style-type: none"> Describe and Plan blanced Diet for Different Categories of People 	<p>Balanced diet</p> <ul style="list-style-type: none"> Elements Food groups Recommended Daily Allowance Nutritive value of foods Calculation of balanced diet For different categories of People Planning menu Budgeting of food Introduction to therapeutic Diets: Naturopathy - Diet 	<ul style="list-style-type: none"> Lecture Discussion Explaining using Charts Practice session Meal planning 	<ul style="list-style-type: none"> Short answers objective Type Exercise on Menu planning
XI	4	<ul style="list-style-type: none"> Describe Various National Programmes Related to Nutrition Describe the Role of nurse 	<p>Role of nurse in nutritional Programmes</p> <ul style="list-style-type: none"> National programmes related To nutrition * Vitamin A deficiency Programme * National iodine deficiency Disorders(IDD) programme 	<ul style="list-style-type: none"> Lecture Discussion Explaining with Slide/Film shows Demonstration Of Assessment Of nutritional Status 	<ul style="list-style-type: none"> Short answers Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		In Assessment Of nutritional Status and Nutrition education	<ul style="list-style-type: none"> * Mid-day meal programme * Integrated child development Scheme (ICDS) • National and international Agencies working towards Food/nutrition * NIPCCD,CARE,FAQ,NIN,CFTRI, (Central food technology and Research institute) etc. • Assessment of nutritional • Nutrition education and Role of nurse. 		

Reference Books:

1. Normal Therapeutic & Nutrition : Robinson
2. Handbook for Food & Nutrition : Swaminathan
3. Basic principals & nutrition : Sushma Raja
4. Diet in health & Disease : Patel
5. Clinical dietetics & nutrition : Antia

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FY. B, Sc. (Nursing)

Placement – First Year

30 Hours

Paper No.- 05 : Bio-Chemistry

25+75=100 Marks

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	Teaching Learning Activities	Assessment Methods
I	3	<ul style="list-style-type: none"> Describe the Structure Composition And functions Of cell Differentiate Between Prokaryote And 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 Question Objective type
II	6	<ul style="list-style-type: none"> Describe the Structure Composition And functions Of cell membrane 	Structure and function 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 * PH buffers 	<ul style="list-style-type: none"> Lecture Discussion 	<ul style="list-style-type: none"> Short answer Question Objective type
III	6	<ul style="list-style-type: none"> Explain the Metabolism of Carbohydrates 	Composition and metabolism of Carbohydrates <ul style="list-style-type: none"> Types, structure, composition And uses * Monosaccharide's Disaccharides Polysaccharides Oligosaccharides Metabolism * Pathways of glucose: -Glycolysis -Gluconeogenesis: Cori's 	<ul style="list-style-type: none"> Lecture Discussion Explain using Charts, 	<ul style="list-style-type: none"> Short answer Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			Cycle, Tricarboxylic Acid (TCA) cycle -glycogenolysis -Pentose phosphate Pathways (Hexose mono Phosphate) * Regulation of blood glucose Level Investigations and their Interpretations		
IV	4	<ul style="list-style-type: none"> • Explain the Metabolism of Lipids 	Composition and metabolism of Lipids <ul style="list-style-type: none"> • Types, structure, composition And uses of fatty acids * Nomenclature, Roles and Prostaglandins • Metabolism of fatty acid * Breakdown * Synthesis • Metabolism of triacylglycerols • 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. 	<ul style="list-style-type: none"> • Lecture discussion using Charts • Demonstration of laboratory tests 	<ul style="list-style-type: none"> • Short answer Question • Objective type
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 * Proteins synthesis, targeting And glycosylation * chromatography * Electrophoresis * Sequencing • Enzymes and chlorophylls * Classification 	<ul style="list-style-type: none"> • Lecture discussion using Charts • Demonstration of laboratory tests 	<ul style="list-style-type: none"> • Short answer Question • Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> * Properties * Kinetics and inhibition * Control Investigations and their interpretations		
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: <ul style="list-style-type: none"> * Structure * Classification * Properties * Absorption * Storage & transportation * Normal concentration Investigations and their Interpretations	<ul style="list-style-type: none"> • Lecture discussion using Charts • Demonstration of laboratory tests 	<ul style="list-style-type: none"> • Short answer Question • Objective type
VII	3	<ul style="list-style-type: none"> • Describe Immunochemistry 	Immunochemistry <ul style="list-style-type: none"> • Immune response, • Structure and classification of Immunoglobins • Mechanism of antibody Production • Antigens: HLA typing. • Free radical and Antioxidants. • Specialised Protein: Collagen, Elastin, Keratin, Myosin, Lens Protein. • Electrophoretic and Quantitative determination of Immunoglobins – ELISA etc. Investigations and their Interpretations	<ul style="list-style-type: none"> • Lecture discussion using Charts • Demonstration of laboratory tests 	<ul style="list-style-type: none"> • Short answer Question • Objective type

Reference Books:

1. Bio-Chemistry

In force from June – 2009

FY. B, Sc. (Nursing)

Placement – First Year

Th.-256 Hours

Paper No.- 06 : Nursing Foundations

25+75=100 Marks

Course Description: The course is designed to help the students to develop an understanding of the philosophy, objectives, 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 Objectives	Content	Teaching Learning Activities	Assessment Methods
I	10	<ul style="list-style-type: none"> Describe the concept of health, illness care agencies 	Introduction <ul style="list-style-type: none"> Concept of Health: Health Illness continuum Factors influencing health developing illness Body defenses: Immunity and immunization Illness and illness Behavior: Impact of illness on patient and family Health Care Services: Health Promotion and Prevention, Primary Care, Diagnosis, Treatment, Rehabilitation and Continuing Care Health care teams Types 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 discussion Visit to health care agencies 	<ul style="list-style-type: none"> Essay type Short answer Objective type
II	16	<ul style="list-style-type: none"> Explain concept and scope of nursing Describe Value, code of ethics and professional conduct for nursing in India 	Nursing as a profession <ul style="list-style-type: none"> Definition and Characteristics of a profession Nursing: <ul style="list-style-type: none"> * Definition, Concepts, philosophy, objectives * Characteristics, nature and scope of nursing practice * Functions of nurse * Qualities of a nurse * Categories of nursing personnel * Nursing as a profession * History of Nursing in India 	<ul style="list-style-type: none"> Lecture Discussion Case discussion Role plays 	<ul style="list-style-type: none"> Essay type Short answer Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> • Ethics: <ul style="list-style-type: none"> * Definition and Ethical principles * Code of ethics and professional conduct for nurses 		
III	4	<ul style="list-style-type: none"> • Explain the admission and discharge procedure • Performs admission and discharge procedure 	<p>Hospital admission and discharge</p> <ul style="list-style-type: none"> • Admission to the hospital <ul style="list-style-type: none"> * Unit and its preparation admission bed * Admission procedure * Special considerations * Medico-legal issues * Roles and Responsibilities of the nurse • Discharge from the hospital <ul style="list-style-type: none"> * Types: planned discharge, LAMA and abscond, Referrals and transfers * Discharge planning * Discharge procedure * Special considerations * Medico-legal issues * Roles and Responsibilities of the nurse * Care of the unit after discharge 	<ul style="list-style-type: none"> • Lecture • Discussion • Demonstration • Lab Practice • Supervised clinical practice 	<ul style="list-style-type: none"> • Essay type • Short answer • Objective type • Assess skills with check List. • Clinical practical examination
IV	10	<ul style="list-style-type: none"> • Communicate effectively with patient, families and team members and maintain effective human 	<p>Communication and Nurse patient relationship</p> <ul style="list-style-type: none"> • Communication: Levels, Elements, Types, Modes, Process, Factors influencing communication <ul style="list-style-type: none"> * Methods of Effective Communication <ul style="list-style-type: none"> -Attending skills -Rapport building skills -Empathy skills * Barrers to effective communication, • Helping Relationship (NPR) : Dimensions Helping Relationship, phases of a helping relationship • Communicating effectively with patient, families and team members and maintain effective human relations 	<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 answer • Objective type

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<p>with vulnerable group</p> <p>(children, women, physically and mentally challenged and elderly)</p> <ul style="list-style-type: none"> • Patient Teaching : Importance, Purposes, Process, role of nurse 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 	<p>The Nursing Process</p> <ul style="list-style-type: none"> • Critical Thinking and Nursing Judgment <ul style="list-style-type: none"> * Critical Thinking: Thinking and Learning * Competencies, Attitudes for critical thinking, levels of critical thinking in nursing • Nursing process overview: Application in practice <ul style="list-style-type: none"> * Nursing process format: INC, current format * Assessment <ul style="list-style-type: none"> -Collection of Data: Types, Sources, Methods -Formulating Nursing judgment: Data interpretation * Nursing diagnosis <ul style="list-style-type: none"> -Identification of client problems -Nursing diagnosis statement -Difference between medical and nursing diagnosis * 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 • Implementation <ul style="list-style-type: none"> -Implementing the plan of care • Evaluation <ul style="list-style-type: none"> -Outcome of care -Review and Modify • Documentation and Reporting 	<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

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
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, correctness, Organization, confidentiality Methods of recording. Reporting: Change-of shift reports: Transfer reports, Incident reports 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
VII	15	<ul style="list-style-type: none"> Describe the principles and techniques of monitoring and maintaining vital signs Monitor and maintain vital signs 	Vital signs <ul style="list-style-type: none"> Guidelines for faking vital signs: Body temperature: <ul style="list-style-type: none"> * Physiology, Regulation, Factors affecting body temperature, * Assessment of body temperature: sites, equipments and technique, special considerations * Temperature alterations: Hyperthermia, Heatstroke, Hypothermia * Hot and cold applications Pulse: <ul style="list-style-type: none"> * Physiology and Regulation, Characteristics of the pulse, Factors affecting pulse, * Assessment of pulse: sites, location, equipments and 	<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 Assess with cheek list and clinical practical

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			technique, special considerations * Alterations in pulse: • Respiration: * Physiology and Regulation, Mechanics of breathing Characteristics of the respiration, Factors affecting respiration * Assessment of respirations: technique, special considerations * Alterations in respiration • Blood pressure: * 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		
VII	30	<ul style="list-style-type: none"> • Describe purpose and process of health assessment • Describe the health assessment of each body system • Perform health assessment of each body system 	Health assessment <ul style="list-style-type: none"> • Purposes • Process of Health assessment * Health history * Physical examination: <ul style="list-style-type: none"> -Methods-Inspection, Palpation, Percussion Auscultation, Olfaction -Preparation for examination: patient and unit -General assessment -Assessment of each body system -Recording of health assessment 	<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
X	60	<ul style="list-style-type: none"> • Describe the basic physiological needs of patient • Describe the principles and techniques for meeting basic 	Meeting needs of patient <ul style="list-style-type: none"> • Basic needs (activities of daily living) * Providing safe and clean environment: <ul style="list-style-type: none"> -Physical-environment: Temperature, Humidity, Noise, Ventilation, light, Odour, Pests control 	<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 • Assess with check list and clinical practical examination

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		physiological and psychosocial needs of patient • Perform nursing assessment, plan, implement and evaluate the care for meeting basic, physiological and psychosocial needs of patient	- Reduction of Physical hazards: fire, accidents -Safety devices: Restraints, side rails, airways, trapez etc -Role of nurse in providing safe and clean environment * Hygiene: -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: -Factors influencing -Comfort -Comfort devices • Physiological needs: * Sleep and Rest: -Physiology of sleep -Factors affecting sleep -Promoting Rest and sleep -Sleep Disorders * Nutrition: -Importance -Factors affecting nutritional needs -Assessment of nutritional needs: Variables -Meeting Nutritional needs: Principles, equipments, procedure and special consideration -- Oral -- Enteral: Naso/Orogastric, gastrostomy -- Parenteral: * Urinary Elimination -Review of physiology of urine		

			elimination, composition and		
Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<p>characteristic of urine</p> <ul style="list-style-type: none"> -Factors Influencing Urination -Alteration in Urinary Elimination -Types and Collection of urine specimen: -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 diversions -- Bladder irrigation * Bowel Elimination <ul style="list-style-type: none"> -Review of Physiology of Bowel elimination Composition and characteristics of faeces -Factors affecting Bowel elimination -Alteration in Bowel Elimination -Types and Colection of specimen of faeces: <ul style="list-style-type: none"> Observation -Facilitating bowel elimination: assessment, equipments, procedures and special considerations <ul style="list-style-type: none"> -- Passing of Flatus tube -- Enemas -- Suppository -- Sitz bath -- Bowel wash -- Care of Ostomies * Mobility and Immobilty <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		
Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<p>-Alteration in body Alignment and Mobility</p> <p>-Nursing interventions for impaired Body alignment and Mobility: assessment, types, devices used, method and special considerations, rehabilitation aspects</p> <ul style="list-style-type: none"> -- Range of motion exercises -- Maintaining body alignment: Postions -- Moving -- Lifting -- Transferring -- walking -- restraints <p>* Oxygenation</p> <p>-review of Cardiovascular and respiratory physiology</p> <p>-Factors Affecting Oxygenation</p> <p>-Alterations in oxygenation</p> <p>-Nursing intervention in oxygenation: assessment,type,equipment used, procedure and special consideration</p> <ul style="list-style-type: none"> -- Maintenance of patent airway -- Oxygen administration -- Suction -- Inhalations: dry and moist -- Chest physiotherapy and postural drainage -- Care of Chest drainage -- Pulse oximetry -- CPR – Basic life support <p>* Fluid, electrolyte, and Acid Base Balances</p> <p>-review of Physiological Regulation of Fluid Electrolyte, and Acid Base Balances</p> <p>-Factors Affecting Fluid, Electrolyte, and Acid-Base Balances</p> <p>-Alterations in Fluid, electrolyte, and Acid-Base</p>		

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<p>Balances</p> <ul style="list-style-type: none"> -Nursing interventions in Fluid, Electrolyte, and Acid -Base Imbalances: assessment, types, equipment, procedure and special considerations <ul style="list-style-type: none"> -- Measuring fluid intake and output -- Correcting Fluid, Electrolyte Imbalance: <ul style="list-style-type: none"> > Replacement of fluids: Oral and Parenteral-Venipuncture, Regulating IV flow rates, changing IV solutions and tubing, changing IV Dressing. > Administering Blood transfusion > 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 	<p>Infection control in Clinical setting</p> <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) 	<ul style="list-style-type: none"> • Lecture discussion • Demonstration • Practice Session • Supervised Clinical practice 	

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> • Concept of asepsis: medical <p>asepsis and surgical asepsis</p> <ul style="list-style-type: none"> • Isolation precautions (Barrier nursing) * Hand washing : simple hand antisepsis and surgical antisepsis (scrub) * Isolation: source and protective * Personal protecting equipments: types, uses and technique of wearing and removing * Decontamination of equipment and unit * Transportation of infected patients * Standard safety precautions (Universal precautions) * Transmission based precautions • Biomedical waste management: <ul style="list-style-type: none"> * Importance * Types of hospital waste * Hazards associated with hospital waste * 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, 	<p>Administration of Medications</p> <ul style="list-style-type: none"> • General Principles/Considerations * Purposes of Medication * Principles: 5 rights, Special, Considerations, Prescriptions, Safety in Administering Medications and Medication errors * Drug forms * Routes of administration * Storage and maintenance of drugs and Nurses responsibility * Broad classification of drugs * Therapeutic Effect, Side Effects, Toxie Effects, Idiosyncratic Reactions, Allergic Reactions, Drug 	<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 • Assess with check list and clinical practical examination

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		Intra Venous, topical, inhalation	<p>Intramuscular, Tolerance, Drug Interactions.</p> <ul style="list-style-type: none"> * factors Influencing drug Actions. * Systems of Drug Measurement: Metric System. Apothecary System, Household Measurement Solution. * Converting Measurements Units: conversion within one system, conversion between systems, Dosage Calculation, * Terminologies and abbreviations used in prescriptions of medications • Oral Drugs Administration: Oral, Sublingual and Buccal: Equipment, procedure • Parenteral <ul style="list-style-type: none"> * general principles: decontamination and disposal of syringes and needles * Types of parenteral therapies * Types of syringes, needles, canula and infusion sets * Protection from Needlestick Injuries: Giving Medications with a safety syringes * Routes of prenteral therapies <ul style="list-style-type: none"> -Intradermal: purpose, site, equipment, procedure, special considerations -Subcutaneous: purpose, site, equipment, procedure, special considerations -Intramuscular: purpose, site, equipment, procedure, special considerations -Intra Venous: purpose, site, equipment, procedure, special considerations -Advanced techniques: epidural, intrathecal, intraosseous, intraperitonal, intraplural, intra-arterial Role of nurse • Topical Administration: purpose, site, 		

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<p>equipment, procedure,</p> <p>special considerations for</p> <ul style="list-style-type: none"> * Application to Skin * Application to mucous membrane -Direct application of liquids- Gargle and swabbing the throat -Insertion of Drug into body cavity: Suppository/mediated packing in rectum/vagina -Instillations: Eye, Ear, Nasal, Bladder, and Rectal -Irrigations: Eye, Ear, Nasal, Bladder, and Rectal -Spraying: Nose and throat • Inhalation: Nasal, Oral, endotracheal/tracheal (steam, oxygen and medications)- purposes, types, equipment procedure, special considerations * Recording and reporting of medications administered 		
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 Preoperative patients</p> <ul style="list-style-type: none"> • Definition and concept of preoperative Nursing • Preoperative phase <ul style="list-style-type: none"> * Preparation of patient for surgery • Intraoperative <ul style="list-style-type: none"> * Operation theatre Set up and environment * Role of nurse • Postoperative Phase <ul style="list-style-type: none"> * recovery unit * Post operative unit * Postoperative care. • Wounds: types, Classifications, wound Healing Process, Factors affecting wound Complications of Wound healing • Surgical asepsis • Care of the wound: types. equipments, procedure and 	<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 • Assess with check list and clinical practical examination

			special considerations		
Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			<ul style="list-style-type: none"> * Dressing, Suture Care, * Care of Drainage * Application of bandages, Binders, Splints & Slings * Heat and cold Therapy 		
XIV	15	<ul style="list-style-type: none"> • Explain care of patients having alteration in body functioning 	<p>Meeting special needs of the 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, * 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, Management * Comfort –(Pain)-Nature, Types, Factors influencing pain, Coping, Assessment, Management; • Treatments related to gastrointestinal system: nasogastric suction, gastric irrigation, gastric analysis 	<ul style="list-style-type: none"> • Lecture discussion • Case discussions • Supervised Clinical practice 	<ul style="list-style-type: none"> • Essay type • short answers • Objective type
XV	5	<ul style="list-style-type: none"> • Explain care of terminally ill patient 	<p>Care of Terminally ill patient</p> <ul style="list-style-type: none"> • Concepts of Loss, Grief, grieving process • Signs of clinical death • Care of dying patient: special 	<ul style="list-style-type: none"> • Lecture discussion • Case discussion/Role play 	<ul style="list-style-type: none"> • Essay type • short answers • Objective type

			considerations	• Demonstration	
Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			* Advance directives: euthanasia, will, dying Declaration. organ donation etc • Medico-legal issue • Care of dead body: equipment, procedure and care of unit • Autopsy • Embalming	• Practice Session • Supervised Clinical practice	• Essay type • short answers
XVI	6	• Explain the basic concepts of conceptual and theoretical models of nursing	Professional Nursing concepts and practices • Conceptual and theoretical models of nursing practice: Introduction to models- holistic model , health belief model, health promotion model etc • Introduction to Theories in Nursing; Peplau's, Henderson's Orem's, Neuman's, Roger's and Roy's • Linking theories with nursing process	• Lecture discussion	

Reference Books:

- 1 Principles & procedures in Nursing : Sir Nancy
- 2 Manual & Nursing Art & procedure : Talu Ram
- 3 Mathematics in Nursing : Jefferies
- 4 Fundamental & Nursing procedures : Threciamma
- 5 Mosby's comprehensive Review & Nursing : Saxton

In force from June – 2009

FY. B, Sc. (Nursing)

Placement – First Year

Pr.-650 Hours

Paper No.- 06 : Nursing Foundations Practical

100+100=200 Marks

Course Description: The course is designed to help the students to develop an understanding of the philosophy, objectives, 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 Methods
Demonstration Lab General Medical and surgery ward	200 450 Mini- mum Prac- tice time in clin- ical area)	<ul style="list-style-type: none"> • Performs admission and discharge procedure • Prepares nursing care plan as per the nursing process format 	<p>Hospital admission and discharge (III)</p> <ul style="list-style-type: none"> • Admission • Prepare Unit for new patient • Prepare admission ded • Performs admission procedure * New patient * Transfer in • Prepare patient records <p>Discharge/Transfer out</p> <ul style="list-style-type: none"> • Gives discharge counseling • Perform discharge procedure (planned discharge, LAMA and abscond, Referrals and transfers) • Prepare records of discharge/transfer • Dismantle, and disinfect unit and equipment after discharge/transfer <p>Perform assessment:</p> <ul style="list-style-type: none"> • History taking, Nursing diagnosis, problem list, prioritization, Goals & Expected Outcomes, selectin of interventions • Write Nursing Care Plan • Gives care as per the plan 	<ul style="list-style-type: none"> • Practice in Unit/ hospital • Write nursing process records of patient • Simulated -1 • Actual -1 	<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 • Assessment of actual care given with rating scale

Areas	Time (Hrs.)	Objectives	Skills	Assignments	Assessment Methods
		<ul style="list-style-type: none"> • Communicate effectively with patient, families and team members and • Maintain effective human relations • Develops plan for patient teaching • Prepare patient reports • Presents reports • Monitor vital signs • Perform health assessment of each body system • Provide basic nursing care to patients 	<p>Communication</p> <ul style="list-style-type: none"> • Use verbal and non verbal communication techniques <p>Prepare a plan for patient teaching session</p> <p>Write patient report</p> <p>Health assessment</p> <ul style="list-style-type: none"> • health history taking • Perform assessment: <ul style="list-style-type: none"> * general * Body systems • Use various methods of physical examination • Inspection, Palpation, Percussion, auscultation, Olfaction • Identification of system wise deviations <p>Prepare Patient's unit:</p> <ul style="list-style-type: none"> • Prepare beds: <ul style="list-style-type: none"> * Open, closed, occupied, operation, amputation, * Cardiac, fracture, burn, Divided, & Fowlers bed • Pain assessment and 	<ul style="list-style-type: none"> • Role-plays in simulated situations on communications techniques -1 • Health talk-1 • Write nurses notes and present the patient reports of 2-3 assigned patient • Lab practice • Measure Vital signs of assigned patient • Practice in lab & hospital • Simulated exercise on CPR manikin 	<ul style="list-style-type: none"> • Assess role plays with the check list on communication techniques • Assess health talk with the check list • Assessment of communication techniques by rating scale • Assessment of performance with rating scale • Assessment of each skill with checklist • Completion of activity record • Assessment of each skill with rating scale • Completion of activity record

Areas	Time (Hrs.)	Objectives	Skills	Assignments	Assessment Methods
			<p>provision for comfort</p> <p>Use comfort devices</p> <p>Hygienic care:</p> <ul style="list-style-type: none"> • Oral Hygiene: • Baths and care of pressure points • Hair wash, Pediculosis treatment <p>Feeding:</p> <ul style="list-style-type: none"> • Oral, Enteral, Naso/Orogastric, gastrostomy and Parenteral feeding • Naso-gastric insertion, suction, and irrigation <p>Assisting patient in urinary elimination</p> <ul style="list-style-type: none"> • Provides urinal / bed pan • Condon drainage • Perinea care • Catheterization • Care of urinary drainage <p>Bladder irrigation</p> <p>Assisting bowel Elimination:</p> <ul style="list-style-type: none"> • Insertion of Flatus tube • Enemas • Insertion of Suppository <p>Bowel wash</p> <p>body alignment and Mobility:</p> <ul style="list-style-type: none"> • Range of motion exercises • Positioning: Recumbent, Lateral (rt/lt), Fowlers, Sims, Lithotomic, Prone, trendelenburg position • assist patient in Moving, lifting, transferring, waling • Restraints <p>Oxygen administration</p> <p>Suctioning: oropharyngeal, nasopharyngeal</p> <p>Chest physiotherapy and postural drainage</p>		

Areas	Time (Hrs.)	Objectives	Skills	Assignments	Assessment Methods
		<ul style="list-style-type: none"> • perform infection control procedures 	<p>Care of Chest drainage</p> <p>CPR – Basic life support</p> <p>Intravenous therapy</p> <p>Blood and blood component therapy</p> <p>Collect/assist for collection of specimens for investigations Urine, sputum, faeces, vomitus, blood and other body fluids</p> <p>Perform lab tests:</p> <ul style="list-style-type: none"> • Urine: sugar, albumin, acetone • Blood : sugar (with strip/ gluco-meter) <p>Hot and cold applications: local and general Sitz bath</p> <p>Communicating and assisting with self-care of visually & hearing impaired patients</p> <p>Communicating and assisting with self-care of mentally challenged/ disturbed patients</p> <p>Recreational and diversional therapies</p> <p>Infection control</p> <ul style="list-style-type: none"> • Perform following procedures: <ul style="list-style-type: none"> * Hand washing techniques * (simple, hand antiseptis and surgical antiseptis (scrub) * Prepare isolation unit in lab/ward * Practice technique of wearing and removing 	<ul style="list-style-type: none"> • Observation study -2 • Department of Infection control & CSSD • Visit CSSD write observation report • Collection of samples for culture 	<ul style="list-style-type: none"> • Assess observation study with checklist • Evaluate all procedures with checklist

Areas	Time (Hrs.)	Objectives	Skills	Assignments	Assessment Methods
	100	<ul style="list-style-type: none"> • Provide care to pre and post operative patients • Perform procedures for care of wounds • Administration 	<p>equipment (PPE)</p> <ul style="list-style-type: none"> * Practice Standard safety precautions (Universal precautions) <p>Decontamination of equipment and unit:</p> <ul style="list-style-type: none"> • Surgical asepsis: * Sterilization * Handling sterilized equipment * Calculate strengths of lotions, * Prepare lotions • Care of articles <p>Pre and post operative care:</p> <ul style="list-style-type: none"> • Skin preparations for surgery: Local • Preparation of Post operative unit • Pre & post operative teaching and counseling • Pre & post operative teaching and counseling • Pre and post operative monitoring • Care of the wound: • Dressings, Suture Care, care of Drainage, Application of Bandages, Binders, Splints & Slings • Bandaging of various body parts <p>Administration of medications</p> <ul style="list-style-type: none"> • Administer Medications in different forms and routes • Oral, Sublingual and Buccal • Parenteral : Intradermal, subcutaneous, Intramuscular etc. • Assist with Intra Venous medications • Drug measurements and 	<ul style="list-style-type: none"> • Do clinical posting in infection in infection control department and write report • Practice in lab/ward 	

			dose calculations		
Areas	Time (Hrs.)	Objectives	Skills	Assignments	Assessment Methods
		<ul style="list-style-type: none"> • Provide care to dying and dead • Counsel and support relatives 	<ul style="list-style-type: none"> • Preparation of lotions and solutions • Administers topical applications • Insertion of drug into body cavity : Suppository & 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 <p>Care of dying patient</p> <ul style="list-style-type: none"> • Caring and packing of dead • Counseling and supporting grieving relatives • Terminal care of the unit 		

In force from June – 2009

FY. B, Sc. (Nursing)

Placement – First Year

Paper No.- 07 : Psychology

Th.-60 Hours

25+75=100 Marks

Course Description: The course is designed to assist the student to acquire knowledge of fundamentals of psychology and develop an insight into behavior of self and other, 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 Activities	Assessment Methods
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"> Lecture discussion 	<ul style="list-style-type: none"> Essay type Short answer
II	4	<ul style="list-style-type: none"> Explain the biology of Human behavior 	Biology of behavior <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 Association Cortex Rt and Lt Hemispheres Psychology of Sensations Muscular and glandular controls of behavior Nature of behavior of an organism/Integrated responses 	<ul style="list-style-type: none"> Lecture Discussion 	<ul style="list-style-type: none"> Essay type Short answer
III	20	<ul style="list-style-type: none"> describe various cognitive processes and their applications 	Cognitive processes <ul style="list-style-type: none"> Attention: Types, determinates, Duration & degree, alterations Perception: Meaning, Principles, factors affecting, Errors, Learning: Nature, Types, learner and learning, Factors influencing, law and theories, process, transfer, study habits Memory; Meaning, types, Nature Factors influencing, Development Theories and methods of memorizing and 	<ul style="list-style-type: none"> Lecture Discussion Psychometric assessment: Practice sessions 	<ul style="list-style-type: none"> Essay type Short answer

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			Forgetting <ul style="list-style-type: none"> • Thinking: Types and levels, stages of development, Relationship with language and communication • Intelligence: Meaning, classification, uses, theories • Aptitude: Concept, types Individual differences and variability • Psychometric assessments of cognitive processes • Alterations in cognitive processes • Applications 		
IV	8	<ul style="list-style-type: none"> • Describe motivation, emotions, stress, attitudes and their influence on behavior 	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"> * Emotion: 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 	<ul style="list-style-type: none"> • lecture Discussion • Role plays • case Discussion • demonstration 	<ul style="list-style-type: none"> • Essay type • short answers
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 • Application 	<ul style="list-style-type: none"> • Lecture Discussion • Demonstration 	<ul style="list-style-type: none"> • Essay type • Short answers

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
VI	7	<ul style="list-style-type: none"> Describe psychology of people during the life cycle 	<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 	<ul style="list-style-type: none"> Essay type Short answers
VII	8	<ul style="list-style-type: none"> Describe the characteristics of Mentally healthy person Explain ego defense mechanisms 	<p>Mental hygiene and mental Health</p> <ul style="list-style-type: none"> Concepts of mental hygiene and mental 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 	<ul style="list-style-type: none"> Lecture Discussion Case Discussion Role Play Demonstration 	<ul style="list-style-type: none"> Essay type Short answers
VIII	4	<ul style="list-style-type: none"> Explain the psychological assessments and role of nurse 	<p>Psychological assessment & tests</p> <ul style="list-style-type: none"> Types , development, Characteristics, Principles, Uses, Interpretations and Role of nurse in psychological assessment 	<ul style="list-style-type: none"> Lecture Discussion Demonstration Practice sessions 	<ul style="list-style-type: none"> Assessment of practice

Reference Books:

- | | | | |
|---|------------------------------------|---|----------|
| 1 | Psychology | : | Xenth |
| 2 | Altschul's – Psychology for Nurses | : | Altschul |
| 3 | Basic Psychology for Nurses | : | Zwemer |
| 4 | Child Development | : | Berk |
| 5 | Abnormal psychology | : | Page |

In force from June – 2009

FY. B, Sc. (Nursing)

Placement – First Year

Paper No.- 08 : Microbiology

Th.-60 Hours

25+75=100 Marks

Course Description: The course is designed to enable students to acquire understanding of fundamentals of Microbiology and identification of various microorganisms. 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 	<p>Introduction:</p> <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"> • Short answers • Objective type
II	10	5	<ul style="list-style-type: none"> • Describe structure classification morphology and growth of bacteria • Identify Micro-Organisms 	<p>General characteristics of Microbes</p> <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 * Temperature * Moisture * Blood and body fluids • Laboratory methods for Identification of Microorganisms • Staining techniques, Gram staining, Acid fast staining, Hanging drop preparation • Culture; various medias 	<ul style="list-style-type: none"> • Lecture • Discussion • Demonstration 	<ul style="list-style-type: none"> • Short answers • Objective type
III	10	2	<ul style="list-style-type: none"> • Describe the methods of infection control • Identify the role of nurse in hospital infection 	<p>Infection control</p> <ul style="list-style-type: none"> • Infection: Sources, portals of entry and exit, transmission • Asepsis • Disinfection; Types and methods • sterilization; Types and Methods 	<ul style="list-style-type: none"> • Lecture • discussion • Demonstration • visits to CSSD • clinical practices 	<ul style="list-style-type: none"> • Short answers • Objective type

Unit	Time (Hrs.)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
			Control Programme	<ul style="list-style-type: none"> • Chemotherapy and antibiotics • Standard safety measures • Biomedical waste management • role of Nurse • Hospital acquired infection • Hospital infection control programme * Protocols, collection of samples, preparation of reports and status of rate of infection in the unit/hospital, nurse's accountability, continuing education etc. 		
IV	12	4	<ul style="list-style-type: none"> • Describe the different disease producing organisms 	<p>Pathogenic organisms</p> <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 • Rodents & vectors <p>Characteristics, Source, 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"> • Lecture discussion • Demonstration • clinical practices 	<ul style="list-style-type: none"> • Short answers • Objective type
V	8	4	Explain the concept of immunity, hyper sensitivity and immunization	<p>Immunity</p> <ul style="list-style-type: none"> • Immunity – Types, classification • Antigen and antibody reaction • Hypersensitivity – skin test Serological tests • immunoprophylaxis * Vaccines & sera – types & 	<ul style="list-style-type: none"> • Lecture discussion • Demonstration • clinical practices 	<ul style="list-style-type: none"> • Short answers • Objective type

Unit	Time (Hrs.)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
				classification, storage and handling, cold chain * Immunization for various diseases * Immunization Schedule		

Reference Books:

- | | | | |
|---|-------------------------------------|---|---------------|
| 1 | Microbiology for Nmses | : | Parker |
| 2 | Practical pathology | : | Parulekar |
| 3 | Introduction & medical microbiology | : | Anand Narayan |
| 4 | Simplified Microbiology | : | TNAI |
| 5 | Test & Book & Microbiology | : | Chakrabait |

In force from June – 2009

FY. B, Sc. (Nursing)

Placement – First Year

Th.-45 Hours

Paper No.- 09 : Introduction to Computers

25+75=100 Marks

Course Description: The course is designed for students to develop basic understanding of use 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 computer Identify application of computer in nursing 	Introduction: <ul style="list-style-type: none"> Concepts of Computers Hardware and software; Trends and technology Application of computer in nursing 	<ul style="list-style-type: none"> Lecture Discussion Demonstration 	<ul style="list-style-type: none"> Short answers Objective type
II	6	20	<ul style="list-style-type: none"> Describe and Use the Disk Operating system Demonstrate skill in the use of MS Office 	<ul style="list-style-type: none"> Introduction to disk operating system <ul style="list-style-type: none"> * DOS * Windows (all version) Introduction <ul style="list-style-type: none"> * MS-Word * MS-Excel with pictorial Presentation * MS-Access * MS-Power point 	<ul style="list-style-type: none"> Lecture Discussion Demonstration Practice session 	<ul style="list-style-type: none"> Short answers Objective type Practical Exam
III	2	3	<ul style="list-style-type: none"> Demonstrate skill in using multi-media Identify features of computer aided teaching and testing 	<ul style="list-style-type: none"> Multimedia; types & uses computer aided teaching & testing. 	<ul style="list-style-type: none"> Lecture Discussion Demonstration 	<ul style="list-style-type: none"> Short answers Objective type Practical Exam
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; e-mail 	<ul style="list-style-type: none"> Lecture Discussion Demonstration 	<ul style="list-style-type: none"> Short answers Objective type Practical Exam and viva voce

Unit	Time (Hrs.)		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
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

Reference Books: