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 Kannada	30			
11 Library work / Self Study			50	
12 Co-curricular activities			50	
TOTAL	930	450	100	
TOTAL HOURS = 1480 HRS				

Table 1. First year Basic B.Sc. Nursing

Table2. Second Year Basic B.Sc. Nursing

Subjects	Theory Hours	Practical / Clinical Hours	Hours	
1. Sociology	60			
2. Pharmacology	45			
3. Pathology	30			
4. Genetics	15			
5. Medical Surgical Nursing (Adult	210	720		
including geriatrics)				
6. Community Health Nursing	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				

9. Scheme of Examination

First year

Table 6 (A): Distribution of Subjects and Marks for Internal Assessment and University Examination

Subject	Internal Assessment	University Examination	Total
Theory			
1. Anatomy & Physiology	40	100	140
2. Nutrition and Biochemistry	40	100	140
3. Nursing Foundation	40	100	140
4. Psychology	40	100	140
5. Microbiology	40	100	140
6. English	40	100	140
7. Introduction to Computer*	40	100*	140
Practical and Viva Voce			
1. Nursing Foundations	100	100	200

* Respective colleges will conduct examination for Introduction to Computer and English as college examination. Marks to be sent to the university.

All 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.

Second Year

Table 7. Distribution of Subjects and Marks for Internal Assessment and University Examination

Subject	Internal Assessment	University Examination	Total
Theory			
8. Sociology	40	100	140
9. Medical Surgical Nursing- I	40	100	140
10. Pharmacology, Pathology,	40	100	140
Genetics			
11. Community Health Nursing – I	40	100	140
12. Communication and Educational	40	100	140
Technology			
Practical and Viva Voce	Internal	University	Total
	Assessment	Examination	
2. Medical – Surgical Nursing - I	100	100	200

SECTION III

COURSE DESCRIPTION

English

Placement – First Year Time: Theory – 60 hours

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 experience.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
Ι	10	* Speak and write grammatically correct English	 * Review of Grammar * Remedial study of Grammar * Building Vocabulary * Phonetics * Public Speaking 	 * Demonstrate use of dictionary * Class room conversion * Exercise on use of grammar * Practice in public speaking 	 * Essay type * Objective type * Fill in the blanks * Para phrasing
II	30	* Develop ability to read, understand and express meaningfully the prescribed text	* Read and comprehend prescribed course books	 * Exercise on : Reading Summarizing Comprehension n 	 * Essay type * Short Answers * Essay Types
III	10	* Develop writing skills	 * Various forms of Composition Letter writing Note taking Precise writing Nurses notes Anecdotal records Diary writing Reports on health problems etc. Resume/CV 	 * Exercises on writing Letter writing Nurses Notes Precise Diary Anecdote Health problems Story writing Resume/CV * Essay Writing Discussion on written reports/ 	* Essay type * Assessment of the skills based on the check list.

				documents	
IV	6	*Develop skill in	* Spoken English	* Exercise on:	*Assessment of
		spoken	 Oral report 	 Debating 	the skills based
		English	 Discussion 	 Participating in 	on the check
			 Debate 	Seminar, panel,	list.
			 Telephonic 	symposium	
			Conversation	 Telephonic 	
				Conversation	
V	4	*Develop skill in	* Learning Comprehension	* Exercise on:	* Assessment of
		listening	 Media, audio, video, 	 Listening to 	the skills based
		comprehension	speeches etc	audio, video tapes	on the check
				and identify the	list.
				key points	

Scheme of University Examination

There shall be one theory paper of three hours duration carrying 100 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)	10	5	50
Short Answer (SA)	10	3	30
Total Marks			100

Anatomy

Placement – First year

Time: Theory -60 hours

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 and Teaching Learning Activities
Ι	5	* Describe the	Introduction to Anatomical terms organization of the
		anatomical	human body
		terms,	* Human Cell structure
		organization	* Tissues – Definition, Types, characteristics, classification,
		of human	location, functions & formation.
		body and	* Membranes and glands – classification and structure
		structure of	Alterations in disease
		cell, tissues,	Applications and implications in nursing
		membranes	
		and glands.	Teaching Learning Activities
			* Lecture discussion
			* Explain using charts, microscopic slides, Skeleton & torso
			* Demonstrate cells, types of tissues membranes and glands
			* Record book
II	6	* Describe the	The Skeletal System
		structure &	* Bones – types, structure, Axial & Appendicular Skeleton,
		function of	* Bone formation and growth
		bones and	* Description of bones
		joints	* Joints classification and structure
			Alterations in disease
			Applications and implications in nursing
			Teaching Learning Activities
			* Lecture discussion
			* Explain using charts, skeleton, loose bones and joins
			* Record book
III	7	* Describe the	The Muscular System
		structure and	* Types and structure of muscles
		function of	* Muscle groups
		muscles	Alterations in disease
			Applications and implications in nursing
			Teaching Learning Activities
			* Lecture discussion
			* Explain using chart, models and films
			* Demonstrate muscular movements
			* Record book

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
IV	6	* Describe the	The nervous System
		structure &	* Structure of neurologia & neurons
		function of	* Somatic Nervous system
		nervous	 Structure of brain, spinal chord, cranial nerves, spinal
		system	nerves, peripheral nerves
			* Autonomic Nervous System –
			Sympathetic, parasympathetic
			 Structure, location
			Alterations in disease
			Applications and implications in nursing
			Teaching Learning Activities
			* Lecture discussion
			* Explain using models, charts, slides, specimens
			* Record book
V	6	Explain the	The Sensory Organs
		structure &	* Structure of skin, eye, ear, nose tongue, (Auditory and
		functions of	olfactory apparatus)
		sensory	Alterations in disease
		organs	Applications and implications in nursing
			Teaching Learning Activities
			* Lecture discussion
			* Explain using models, charts, slides, specimens
			* Record book
VI	7	Describe the	Circulatory and lymphatic system
		structure &	* The Circulatory System
		function of	 Blood – Microsoft structure
		circulatory	 Structure of Heart
		and lymphatic	 Structure of blood vessels- Arterial & Venous System
		system	 Circulation: Systemic, pulmonary, coronary
			* Lymphatic System
			 Lymphatic vessels &
			lymph
			 Lymphatic tissues
			- Thymus gland
			- Lymph nodes
			- Spleen
			- Lymphatic tissues
			Alterations in disease
			Applications and implications in nursing.
			Teaching Learning Activities
			* Lecture discussion
			* Explain using models, charts, slides, specimens
			Record book

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
VII	5	* Describe the	The Respiratory System
		structure &	* Structure of the organs of respiration
		functions of	* Muscles of respiration: Intercostals and Diaphragm
		respiratory	Alterations in disease
		system.	Applications and implications in nursing.
			Teaching Learning Activities
			* Lecture discussion
			* Explain using models, torso, charts slides, specimens* Record book
VIII	6	* Describe the	The Digestive System
		structure &	* Structure of Alimentary tract and accessory organs of
		functions of	digestion
		digestive	Alterations in disease
		system.	Applications and implications in nursing
		5	Teaching Learning Activities
			* Lecture discussion
			* Explain using models, torso, charts slides, specimens
			* Record book
IX	4	* Describe the	The Excretory system (Urinary)
		structure &	* Structure of organs of urinary
		functions of	* System: Kidney, Ureters, urinary, bladder, urethra, structure
		excretory	of skin
		system	Alterations in disease
			Applications and implications in nursing.
			Teaching Learning Activities
			* Lecture discussion
			* Explain using models, torso, charts slides, specimens
			* Record book
X	4	* Describe the	The Endocrine system
		structure &	* Structure of Pituitary, Pancreas, thyroid, Parathyroid, thymus
		functions of	and adrenal glands
		endocrine	Alterations in disease
		system	Applications and implications in nursing
			Teaching Learning Activities
			* Lecture discussion
			* Explain using models, torso, charts slides, specimens
			* Record book

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
XI	4	* Describe the	The Reproductive system including breast
		structure &	* Structure of female reproductive organs
		functions of	* Structure of male reproductive organs
		reproductive	* Structure of breast
		system	Alterations in disease
			Applications and implications in nursing
			Teaching Learning Activities
			* Lecture discussion
			* Explain using models, torso, charts slides, specimens
			* Record book

Physiology

Placement – First Year

Time: Theory – 60 Hours

Course Description: The Course is designed to assist the students to acquire knowledge if 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 and Teaching Learning Activities
Ι	4	* Describe the physiology of cell, tissues, membranes and glands	Cell Physiology * Tissue formation, repair * Membranes & glands – functions Alterations in disease Applications and implications in nursing <i>Teaching Learning Activities</i> * Lecture discussion
Π	4	* Describe the bone formation and growth and movements of skeleton system	 Skeletal System * Bone formation & growth * Bones – Functions and movements of bones of axial and appendicular skeleton, bone healing * Joints and joint movement Alterations in disease Applications and implications in nursing <i>Teaching Learning Activities</i> * Lecture discussion * Explain using charts, models and films * Demonstration of joint movements
III	4	* Describe the muscle movements and tone and demonstrate muscle contraction and tone	 Muscular System * Muscle movements, Muscle tone, Physiology of muscle contraction, levels and maintenance of posture Alterations in disease Applications and implications in nursing <i>Teaching Learning Activities</i> * Lecture discussion * Explain using Charts, models, slides, specimen and films Demonstration of muscle movements, tone and contraction Content and Teaching Learning Activities

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
IV	7	* Describe the	Nervous System
		physiology of	* Functions of Neurolgia & neurons
		nerve stimulus,	* Stimulus & nerve-impulse- definitions and mechanism
		reflexes, brain,	* Functions of brain, spinal cord, cranial and spinal nerves
		cranial and	* Cerebrospinal fluid-composition, circulation and function
		spinal nerves	* Reflex arc, Reflex action and reflexes
		*Demonstrate	* Automatic functions –
		reflex action	 Pain: somatic, visceral and referred
		and stimulus	 Automatic learning and biofeedback
			Alterations in disease
			Applications and implications in nursing
			Teaching Learning Activities
			* Lecture discussion
			* Explain using, Charts, models and films
V	8	* Describe the	* Demonstrate nerve stimulus, reflex action, reflexes Circulatory System
v	0	physiology of	* Blood formation, composition, blood groups, blood
		blood and	coagulation
		functions of	* Hemoglobin: Structure, Synthesis and breakdown,
		Heart	Variation of molecules, estimation
		*Demonstrate	* Functions of Heart, Conduction, Cardiac cycle, circulation-
		blood cell	Principles, Control, factors influencing BP and Pulse
		count,	Alterations in disease
		coagulation,	Applications and implications in nursing
		grouping	
		Hb: BP and	Teaching Learning Activities
		Pulse	* Lecture discussion
		monitoring	* Explain using charts, films
			* Demonstration of Blood cell count, coagulation, grouping,
			Haemoglobin estimation, Heart conduction system.
	-		* Measurement of pulse, BP
VI	6	* Describe the	The Respiratory System
		physiology and	* Functions of respiratory organs
		mechanisms of	* Physiology of respiration * Pulmonary ventilation, Volume
		respiration *Demonstrates	* Pulmonary ventilation, Volume * Mechanics of respiration
		spirometry	* Mechanics of respiration* Gaseous exchange in lungs
		sphomeny	* Carriage of oxygen & carbon-dioxide
			*Exchange of gases in tissues
			* Regulation of respiration,
			Alterations in disease Applications and implications in nursing.

	Teaching Learning Activities
	* Lecture discussion
	* Explain using Charts, films
	* Demonstration of spirometry

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
VII	6	*Describe the Physiology of digestive system *Demonstrates BMR	 The Digestive System * Functions of organs of digestive tract. Movements of alimentary tract, Digestion in mouth, stomach, small intestines, Large intestines, Absorption of food. Functions of liver, gall bladder and pancreas * Metabolism of carbohydrates, protein and fat <i>Teaching Learning Activities</i> * Lecture discussion * Explain using Charts, films
VIII	5	*Describe the Physiology of excretory system	 The Excretory System * Functions of kidneys, ureters, urinary bladder & urethra * Composition of urine * Mechanism of urine formation * Functions of skin * Regulation of body temperature * Fluid and electrolyte balance Alterations in disease Applications and implications in nursing. <i>Teaching Learning Activities</i> * Lecture discussion * Explain using Charts, films
IX	4	*Describe the physiology of sensory organs	 The Sensory Organs * Functions of skin, eye, ear, nose, tongue, Alterations in disease Applications and implications in nursing. <i>Teaching Learning Activities</i> * Lecture discussion * Explain using Charts, films
X	5	*Describe the physiology of endocrine glands	The Endocrine Glands * Functions of Pituitary, pineal body, thymus, Thyroid, parathyroid, pancreas, Suprarenal, Placenta and ovaries & Testes Alterations in disease Applications and implications in nursing.

Teaching Learning Activities	
* Lecture discussion	
* Explain using	
Charts, films	
* Demonstration of BMR	

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
XI	5	*Describe the physiology of male and female reproductive system	 The Reproductive System * Reproduction of cells – DNA, Mitosis, Meiosis, spermatogenesis, oogenesis. * Functions of female reproductive organs; Functions breast, Female sexual cycle. * Introduction to embryology * Functions of male reproductive organs, Male function in reproduction, Male fertility system Alterations in disease Applications and implications in nursing. <i>Teaching Learning Activities</i> * Lecture discussion * Explain using Charts, films models, specimens
XII	2	*Describe the Physiology of Lymphatic and Immunological System	 Lymphatic & Immunological System * Circulation of lymph * Immunity Formation of T-cells and B cells Types of Immune response Antigens Cytokines Antibodies Teaching Learning Activities * Lecture discussion * Explain using Charts, films

Scheme of Examination: Anatomy and Physiology

There shall be one paper of three hours duration for Anatomy and Physiology, carrying 100 marks. Section A- shall be Anatomy carrying 50 marks and Section B- Physiology carrying 50 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 Anatomy and Physiology
(50 marks for each subject)

Type of Questions	No. of Questions	Marks	Sub-total
Long Essay (LE)	1	10	10
Short Essay (SE)	5	5	25
Short Answer (SA)	5	3	15
Total Marks			50

Nutrition

Placement: First Year **Time**: Theory 60 hours

Course of 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	Tim (Hrs		Learning Objectives	Content and Teaching Learning Activities
	Th	Pr		
Ι	4		* Describe the relationship between nutrition & Health	Introduction * Nutrition: • 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 Teaching Learning Activities * Lecture Discussion * Explaining using charts * Panel discussion
II	2		* Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrates	Carbohydrates * Classification * Calorie Value * Recommended daily allowances * Dietary sources * Functions * Digestion, absorption and storage, metabolism of carbohydrates * Malnutrition: Deficiencies and Over consumption <i>Teaching Learning Activities</i> * Lecture discussion * Explaining using charts

Unit	Time (Hrs)	0	Content and Teaching Learning Activities
	· · · · · · · · · · · · · · · · · · ·	Pr	
III	2	* Describe the classification, functions, sources and recommended daily allowances (RDA) of Fats	Fats * Classification * Caloric value * Recommended daily allowances * Dietary sources * Functions * Digestion, absorption and storage, metabolism * Malnutrition: Deficiencies and over consumption
			<i>Teaching Learning Activities</i> * Lecture discussion * Explaining using charts
IV	2	* Describe the classification, functions, sources and recommended daily allowances (RDA) of Proteins	Proteins * Classification * Caloric value * Recommended daily allowances * Dietary sources * Functions * Digestion, absorption, metabolism and storage * Malnutrition: Deficiencies and Over consumption Teaching Learning Activities * Lecture discussion * Explaining using charts
V	3	* Describe the daily calorie requirement for different categories of people	 Energy * 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 <i>Teaching Learning Activities</i> * Lecture discussion * Explaining using charts * Exercise * Demonstration

Unit	Tim (Hrs		Learning Objectives	Content and Teaching Learning Activities
	Th	Pr		
VI	4		* Describe the classification, functions, sources and recommended daily allowances (RDA) of Vitamins	Vitamins * Classification * Recommended daily allowances * Dietary sources * Functions * Absorption, synthesis, metabolism storage and excretion * Deficiencies * Hypervitaminosis
				Teaching Learning Activities
				* Lecture discussion* Explaining using charts
VII	4		* Describe the classification, functions, sources and recommended daily allowances (RDA) of Minerals	 Minerals * Classification * Recommended daily allowances * Dietary sources * Functions * Absorption, synthesis, metabolism storage and excretion * Deficiencies * Over consumption and toxicity <i>Teaching Learning Activities</i> * Lecture discussion * Explaining using charts
VIII	3		* Describe the sources, functions and requirements of Water & electrolytes	Water & electrolytes * 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 Teaching Learning Activities * Lecture discussion * Explaining using charts

Unit	Tim (Hrs	8	Content and Teaching Learning Activities	
IX	Th 5	Pr 15	* Describe the Cookery rules and preservation of nutrients * Prepare and serve simple beverages and different types of foods	Cookery rules and preservation of nutrients * 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 beverages and different types of food <i>Teaching Learning Activities</i> * Lecture discussion * Demonstration * Practice session
X	7	5	* Describe and plan balanced diet for different categories of people	Balanced diet * 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
XI	4		* Describe 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 * National programmes related to nutrition Vitamin A deficiency programme National iodine deficiency disorders (IDD) programme Mid-day meal programme Integrated child development scheme (ICDS) * National and International agencies working towards food/nutrition NIPCCD, CARE, FAO, NIN, CFTRI (Central food technology and research institute) etc. * Assessment of nutritional status * Nutrition education and role of nurse <i>Teaching Learning Activities</i> * Lecture Discussion * Explaining with * Slide / Film shows * Demonstration of Assessment of nutritional status

Biochemistry

Placement – First Year **Time**: Theory –30 Hours

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
Ι	3	*Describe the structure Composition and functions of cell *Differentiate between Prokaryote & Eukaryote cell * Identify techniques of Microscopy	Introduction * Definition and significance in nursing * Review of structure, Composition and functions of cell * Prokaryote and Eukaryote cell organization * Microscopy <i>Teaching Learning Activities</i> * Lecture discussion using charts, slides * Demonstrate use of microscope
II	6	* Describe the structure and functions of cell membrane	 Structure and functions of Cell membrane * Fluid mosaic model tight junction, Cytoskeleton * Transport mechanism: diffusion osmosis, filtration, active channel, sodium pump * Acid base balance-maintenance & diagnostic tests PH buffers <i>Teaching Learning Activities</i> * Lecture discussion

Unit	Time	Learning	Contant and Topphing Loopning Activities
Unit	(Hrs)	Objectives	Content and Teaching Learning Activities
III	6	* Explain the	Composition and metabolism of Carbohydrates
		metabolism of	* Types, structure, composition and uses
		carbohydrates	 Monosaccharides,
			Disaccharides,
			Polysaccharides
			Oligosaccharides
			* Metabolism
			 Pathways of glucose:
			Glycolysis
			Gluconeogenesis: Cori's cycle, Tricarboxylic acid
			(TCA) cycle
			 Glycogenolysis
			Pentose phosphate
			Pathways (Hexose mono phosphate)
			 Regulation of blood glucose level
			Investigations and their interpretations
			Teaching Learning Activities
			* Lecture discussion
			using charts
			* Demonstration of
	4	Ψ Γ 1 ·	laboratory tests
IV	4	* Explain the	Composition and metabolism of Lipids
		metabolism of	* Types, Structure, composition and uses of fatty acids
		Lipids	 Nomenclature, Roles and Prostaglandins * Matcheolism of fotto avoid
			* Metabolism of fatty acidBreakdown
			 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
			Teaching Learning Activities
			* Lecture discussion
			using charts
			* Demonstration of
			laboratory tests

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
V	6	* Explain the metabolism of Amino acids and Proteins	Composition and metabolism of Amino acids and Proteins * Types, structure, composition and uses of Amino acids and Proteins * Metabolism of Amino acids and Proteins • Protein synthesis, targeting and Glycosylation • Chromatography • Electrophoresis • Sequencing * Metabolism of Nitrogen • Fixation and Assimilation • Urea Cycle • Hemes and chlorophylls * Enzymes and co-enzymes • Classification • Properties • Kinetics and inhibition • Control Investigations and their interpretations Teaching Learning Activities * Lecture discussion using charts * Demonstration of laboratory tests
VI	2	* Describe types, composition and utilization of Vitamins & minerals	 Composition of Vitamins and minerals * Vitamins and minerals: Structure, Classification, Properties, Absorption Storage & transportation Normal concentration * Investigations and their interpretation <i>Teaching Learning Activities</i> * Lecture discussion using charts * Demonstration of laboratory tests

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
VII	3	* Describe	Immunochemistry
		Immuno-	* Immune response,
		chemistry	* Structure and classification of immunoglobins
			* Mechanism of antibody production
			* Antigens: HLA typing
			* Free radical and Antioxidants
			* Specialized Protein: Collagen, Elastin, Keratin,
			Myosin, Lens Protein.
			* Electrophoretic and Quantitative determination of
			immunoglobins – ELISA etc.
			Investigations and their interpretations
			Teaching Learning Activities
			* Lecture discussion using charts
			* Demonstration of laboratory tests

Scheme of Examination: Nutrition and Biochemistry

• There shall be one paper of three hours duration carrying 100 marks. Section A Nutrition of 60 marks and Section B of Biochemistry of 40 marks. There shall be no practical examination.

Distribution of Type of Questions and Marks for Nutrition (60 marks)

Type of Questions	No. of Questions	Marks	Sub-total
Long Essay (LE)	2	10	20
Short Essay (SE)	5	5	25
Short Answer (SA)	5	3	15
Total Marks			60

Distribution of Type of Questions and Marks for Biochemistry (40 marks)

Type of Questions	No. of Questions	Marks	Sub-total
Long Essay (LE)	1	10	10
Short Essay (SE)	3	5	15
Short Answer (SA)	5	3	15
Total Marks			40

Nursing Foundations

Placement: First Year **Time**: Theory - 265 hours

> Practical - 650 hours (200 lab and 450 clinical)

Course Description: This 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	Learning	Contant and Taaching Learning Activities
Unit	(Hrs)	Objectives	Content and Teaching Learning Activities
Ι	10	* Describe the	Introduction
		concept of health,	* Concept of Health: Health – illness continuum
		illness and health	* Factors influencing health
		care agencies	* Causes and risk factors for developing illness
			* Body defences: 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, Organisation and Functions
			* Health Promotion and Levels of Disease
			Prevention
			*Primary Health care and its delivery: Role of
			nurse
			Teaching Learning Activities
			* Lecture discussion
			* Visit to health care agencies

Unit	Time	Learning	Contant and Teaching Learning Activities
	(Hrs)	Objectives	Content and Teaching Learning Activities
II	16	* Explain concept	Nursing as a profession
		and scope of	* Definition and Characteristics of a profession
		nursing	* Nursing:
		* Describe	 Definition, Concepts, philosophy, objectives
		values, code of	 Characteristics, nature and scope of nursing
		ethics and	practice
		professional	 Functions of nurse
		conduct for	 Qualities of a nurse Catagories of nursing noncompal
		nurses of India	 Categories of nursing personnel Nursing as a profession
			ruibing us a profession
			 History of Nursing in India. * Values: Definition Turner, Values: Classification
			* Values: Definition, Types, Values Classification and values in professional Nursing: Caring &
			Advocacy
			* Ethics:
			 Definition and Ethical Principles
			 Code of ethics and professional conduct for
			nurses.
			Teaching Learning Activities
			* Lecture discussion
			* Case discussion
			* Role plays
III	4	* Explain the	Hospital admission and discharge
		admission and	* Admission to the hospital
		discharge	 Unit and its preparation-admission bed
		procedure	 Admission procedure
		* Performs	 Special considerations
		admission and	 Medico-legal issues
		discharge	 Roles and Responsibilities of the nurse
		procedure	* Discharge from the hospital
			 Types: Planned discharge, LAMA and
			abscond, Referrals and transfers
			 Discharge Planning
			 Discharge procedure
			 Special consideration
			 Medico-legal issues
			 Roles and Responsibilities of the nurse
			• Care of the unit after discharge
			Teaching Learning Activities
			* Lecture discussion
			* Demonstration
			* Lab Practice * Supervised Clinical practice
			* Supervised Clinical practice

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
IV	10	*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 * Communication: Levels, Elements, Types, Modes, Process, Factors influencing Communication Methods of Effective Communication, Attending skills Rapport building skills Empathy skills Barriers to effective communication, * Helping Relationship (NPR): Dimensions of Helping Relationships, Phase of a helping relationship * Communicating 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, Purposes, Process, role of nurse and Integrating teaching in Nursing Process. Teaching Learning Activities * Lecture discussion * Role play and video film on the nurses interacting with the patient * Practice session on patient teaching
			* Supervised Clinical Practice

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
V	15	* Explain the	The Nursing Process
		concept, uses,	* Critical Thinking and Nursing Judgment
		format and steps	 Critical Thinking: Thinking and Learning
		of nursing process	 Competencies, Attitudes for Critical
		* Documents	Thinking, Levels of critical thinking in
		nursing process as	Nursing
		per the format	* Nursing Process Overview:
			Application in Practice
			 Nursing process format: INC, current
			format
			 Assessment
			- Collection of Data : Types, Sources, Methods
			- Formulating Nursing Judgment: Data
			interpretation
			 Nursing Diagnosis
			 Identification of client problems
			 Nursing diagnosis statement
			- Difference between medical and nursing
			diagnosis
			 Planning
			- Establishing Priorities
			- Establishing Goals and Expected Outcomes
			- Selection of interventions : Protocols and
			standing Orders
			- Writing the Nursing Care Plan
			 Implementation
			- Implementing the plan of care
			Evaluation
			- Outcome of care
			- Review and Modify
			 Documentation and Reporting
			Teaching Learning Activities
			* Lecture discussion
			* Demonstration
			* Exercise
			* Supervised Clinical Practice

T T •4	Time	Learning	
Unit	(Hrs)	Objectives	Content and Teaching Learning Activities
VI	4	* Describe the purposes, types and techniques of recording and reporting	 Documentation and Reporting * 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, currentness, Organization, confidentiality * Methods of Recording * Reporting: Change of shift reports: Transfer reports, incident reports Minimizing legal Liability through effective record keeping
			Teaching Learning Activities * Lecture discussion * Demonstration * Practice Session * Supervised Clinical Practice
VII	15	 * Describe principles and techniques of monitoring and maintaining vital signs * Monitor and maintain vital signs 	 Vital signs * Guidelines for taking vital signs : * Body temperature: 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: Physiology & Regulation, Characteristics of the pulse, Factors affecting pulse Assessment of the pulse: sites, location, equipments and technique, special considerations

VIII	30	* Describe purpose and process of health assessment * Describe the health assessment of each body system * Perform health assessment of each body system	 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: sites, equipments and technique, special considerations Alterations in blood pressure Recording of vital signs Teaching Learning Activities * Lecture discussion * Demonstration * Practice Health assessment Health History Physical examination : Methods-Inspection, Palpation, Percussion, Auscultation, Olfaction Preparation for examination: patient and unit General assessment Assessment of each body system Recording of health assessment
IX	5	* Identify the various machinery, equipment and linen and their care	 Machinery, Equipment and linen * Types: Disposables and reusable- Linen, rubber goods, glass ware, metal, plastics, furniture, machinery * Introduction Indent

MaintenanceInventory
<i>Teaching Learning Activities</i> * Lecture discussion * Demonstration

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
X	60	* Describe the basic, psychological needs of patient * Describe the principles and techniques for meeting basic, Physiological and psychosocial needs of patient * Perform nursing assessment, plan implement and evaluate the care for meeting basic, physiological and psychosocial needs of patient	 Meeting needs of patient * Basic needs (Activities of daily living) Providing safe and clean environment: Physical-environment: Temperature, Humidity, Noise, Ventilation, light, Odour, pests control Reduction of physical hazards: fire, accidents Safety devices: Restraints, side rails, airways, trapeze 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 Meeting Nutritional needs: Principles, equipments, procedure and special considerations Oral Enteral : Naso/Orogastric, gastrostomy Parenteral : Urinary Examination

- 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
• Providing urinal/bed pan
 Condom drainage
• Perineal care
 Catheterization
 Care of urinary
drainage
 Care of urinary diversions
 Bladder irrigation
 Bowel Elimination
- Review of Physiology of Bowel Elimination,
Composition and characteristics of faeces
- Factors affecting Bowel elimination
- Alteration in Bowel Elimination
- Types and Collection of specimen of faeces:
Observation
- Facilitating bowel elimination: assessment,
equipments, procedures and special
considerations
• Passing of Flatus tube
• Enemas
• Suppository
• Sitz bath
• Bowel was
• Care of Ostomies
 Mobility and Immobility
- 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
- Review of Cardiovascular and respiratory
Physiology
- Factors Affecting Oxygenation
- Alterations in oxygenation
- Nursing interventions in oxygenation :
assessment, types, equipment used, procedure
and special considerations
 Maintenance of patent airway
 Oxygen administration
• Suction
 Inhalations: dry and moist
 Chest physiotherapy and postural drainage
 Pulse oximetry
 CPR-Basic life support
 Fluid, Electrolyte, and Acid – Base
Balances
- 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, equipment, procedure and
special considerations
 Measurement fluid intake and output
• Correcting Fluid Electrolyte Imbalance:
Replacement of fluids: Oral and Paranteral Vanipuncture, regulating
Oral and Parenteral -Venipuncture, regulating
IV flow rates, changing IV solutions and
tubing, changing IV dressing,

			 Administering Blood transfusion Restriction of fluids Psychosocial Needs 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 Assist with coping and adaptation Creating therapeutic environment Recreational and diversional therapies
			Teaching Learning Activities
			* Lecture discussion
			* Demonstration
			* Practice sessions
VI	20	* Dagariha	* Supervised Clinical Practice
XI	20	* Describe principles and techniques for infection control and biomedical waste management in Supervised Clinical settings	 Infection control in Clinical settings * Infection control 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): 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 : Importance Types of hospital waste Hazards associated with hospital waste Decontamination of hospital waste

			Teaching Learning Activities
			* Lecture discussion
			*Demonstration
			* Practice session
			* Supervised Clinical practice
XII	40	* Explain the	Administration of Medications
АП	40	principles, routes,	* General
		effects of	Principles/Considerations
		administration of	 Purposes of Medication
		medications	 Principles: 5 rights, Special Considerations,
		* Calculate	Prescriptions, Safety in Administering
		conversions of	Medications and Medication Error
		drugs and dosages	 Drugs forms
		within and	Brugs formsRoutes of administration
		between systems	 Storage and maintenance of drugs and
		of measurements	Nurses responsibility
		* Administer	 Broad classification of drugs
		drugs by the	 Therapeutic Effect, Side Effects, Toxic
		following routes-	Effects, Idiosyncratic Reactions, Allergic
		oral, Intradermal,	Reactions, Drug Tolerance, Drug
		Subcutaneous,	Interactions,
		Intramuscular,	Factors influencing drug Actions,
		Intra Venous	 Systems of Drug Measurement: Metric
		topical, inhalation	Systems of Drug Weastrement. Wette System, Apothecary System, Household
		topical, initialation	Measurements, Solutions.
			 Converting Measurements units:
			Conversions 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
			 General principles:
			Decontamination and disposal of syringes and
			needles
			 Types of parentaral therapies
			 Types of parental interaptes Types of syringes, needles, canula, and
			infusion sets
			 Protection from Needlestick Injuries:
			Giving Medications with a safety syringes
			 Routes of parentaral therapies
			- Intradermal: purpose, site, equipment,
			procedure, special considerations.
			- Subcutaneous: purpose, site, equipment,
			procedure, special considerations
			procedure, special considerations

			 Intramuscular: purpose, site, equipment, procedure, special considerations Intra Venous: purpose, site, equipment, procedure, special considerations Advanced techniques: epidural, intrathecal, intraosseous, intraperitonial, intraplural, intra arterial - Role of nurse Topical Administration : purposes, site, equipment, procedure, special considerations for Application to Skin 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 Institutions: Ear, Eye, 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
			*Demonstration
			* Practice session
			* Supervised Clinical practice
XIII	10	* Describe the pre	Meeting needs of Perioperative patients
		and post operative care of patients	* Definition and concept of Perioperative Nursing* Preoperative Phase
		* Explain the	 Preparation of patient for surgery
		process of wound	* Intraoperative
		healing	 Operation theatre Set up and environment
		* Explain the	 Role of nurse
		principles and	* Postoperative Phase
		techniques of	 Recovery unit
		wound care	 Post operative unit
		* Perform care of	• Post operative care,
		wounds	* Wounds: types, Classifications, wound Healing

			 Process, Factors affecting Wound, Complications of Wound Healing * Surgical asepsis * Care of the wound: types, equipments, procedure and special consideration Dressings, Suture Care, Care of Drainage Application of Bandages, Binders, Splints & Slings Heat and Cold Therapy
			Teaching Learning Activities
			* Lecture discussion
			* Demonstration
			* Practice session
			* Supervised Clinical practice
XIV	15	* Explain care of	Meeting special needs of the patient
		Patients having alterations in body functioning	 * Care of patients having alteration in Temperature (hyper and hypothermia); Types, Assessment, 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 Mental state (mentally challenged), assessment of Self-Care ability; Communication Methods and special considerations Mental state (mentally challenged), 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; Treatment related to gastrointestinal system

			 : naso-gastric suction, gastric irrigation, gastric analysis. <i>Teaching Learning Activities</i> * Lecture discussion * Case Discussions * Supervised Clinical practice
XV	5	* Explain care of terminally ill patient	 Care of Terminally ill patient Concepts of Loss, Grief, grieving Process Signs of clinical death Care of dying patient: special considerations Advance directives: Euthanasia, will, dying declaration, organ donation etc. Medico-legal issues Care of dead body: equipment, procedure and care of unit Autopsy Embalming <i>Teaching Learning Activities</i> * Lecture discussion * Demonstration * Case discussion/Role play * Practice session * Supervised Clinical practice

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
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 of 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 <i>Teaching Learning Activities</i> * Lecture discussion

Nursing Foundations – Practical

Placement: First Year

Time: Practical – 650 hours (200 lab and 450 clinicals)

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

Areas	Time (Hrs)	Objectives	Skills	Assignments	Assessment Methods
Demonstr ation Lab General Medical and Surgery ward	200 450 Minimum practice time in clinical area: 100	* Performs admission and discharge procedure	 Hospital admission and discharge (III) Admission Prepare Unit for new patient Prepare admission bed Performs admission procedure New patient Transfer in Prepare patient records Discharge / Transfer out Gives discharge counseling Perform discharge procedure (Planned discharge, LAMA and abscond, Referrals and transfers) Prepare records of discharge/transfer 	* Practice in Unit/hospital	* Evaluate with checklist * Assessment of clinical performance with rating scale * Competition of practical record
		* Prepares nursing care plans as per the nursing process format	 * Dismantle, and disinfect unit and equipment after discharge / transfer. Perform assessment: * History taking, Nursing diagnosis, problem list, Prioritization, Goals & Expected Outcomes, selection of interventions * Write Nursing Care Plan * Gives care as per the plan 	 * Write nursing process records of patient * Simulated-1 * Actual - 1 	*Assessment of nursing process records with checklist * Assessment of actual care given with rating scale
		*Communicat e effectively with patient,	Communication * Use verbal and non verbal communication techniques	* Role-plays in simulated situations on	* Assess role plays with the check list on

families and tea members and		communication techniques-1 * Health talk-1	communicatio n techniques * Assess
* Maintain effective human relations * Develops plan for patient teaching	Prepare a plan for patient teaching session		 Assess health talk with the checklist *Assessment of communicatio n techniques by rating scale
			*Assessment of performance with rating scale
* Prepare patient reports * Presents reports	Write patient report * Change-of shift reports, Transfer reports, Incident reports etc. * Presents patient report	* Write nurses notes and present the patient report of 2-3 assigned patient	*Assessment of each skill with checklist *Completion of activity record
* Monitor vital signs	Vital Signs * Measure, Records and interpret alterations in body temperature, pulse respiration and blood pressure	* Lab practice * Measure Vital signs of assigned patient	
* Perform heath assessment of each body system	Health assessment * Health history taking * Perform assessment: • General • Body system * Use various methods of physical examination * Inspection, Palpation, Percussion, Auscultation, Olfaction		*Assessment of each skill with rating scale *Completion of activity record

	* Identification of system wise		
	deviations		
		4 D · · · 1 1	* Assess
* Provide	Prepare Patient's unit:	* Practice in lab	observation
basic nursing	* Prepare beds:	& hospital	study in
care to	• Open, closed, occupied,	* C' 1 / 1	checklist
patients	operation, amputation,	* Simulated	
	 Cardiac, facture, burn, Divided, & Fowlers bed 	exercise on CPR manikin	
	* Pain assessment and provision for		
	comfort		
	connort	* Observation	
	Use comfort devices Hygienic care	study - 2	
	* Oral hygiene:	Study - 2	
	* Baths and care of pressure points		
	* Hair wash, Pediculosis treatment	* Department of	
		Infection	
	Feeding:	control &	
	* Oral, Enteral,	CSSD	
	Naso/Orogastric, gastrostomy and		
	Parenteral feeding		
	* Naso-gastric insertion, suction, and	* Visits CSSD	
	irrigation	write	
		observation	
	Assisting patient in urinary	report 1	
	elimination		
	* Provides urinal/bed pan	* Collection of	
	* Condom drainage	samples for	
	* Perineal care	culture * Do clinical	
	* Catheterization * Care of urinary drainage		
	Care of unitary urainage	postings in infection	
	Bladder irrigation	control	
	Assisting bowel Elimination:	department and	
	* Insertion of Flatus tube	write report	
	* Enemas	* Practice in	
	* Insertion of Suppository	lab/ward	
	Bowel wash Body Alignment and		
	Mobility:		
	• Range of motion exercises		
	 Positioning: Recumbent, 		
	Lateral (rt/lt), Flowers, Sims,		
	Lithotomy, Prone,		
	Trendelenburg position		
	• Assist patient in Moving		
	lifting, transferring, walking,		

• Restraints	
Oxygen administration	
Suctioning: Oropharyngeal, nasopharyngeal	
Chest physiotherapy and postural drainage	
Care of Chest drainage	
CPR-Basic life support	
Intravenous therapy	
Blood and blood component therapy	
Collect/assist for collection of specimens for investigations Urine, sputum, faeces, vomitus, blood and other body fluids	
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 & hearing impaired patients	
Communicating and assisting with self-care of mentally challenged/disturbed patients Recreational and diversional therapies.	
Caring of patient with alteration in sensorium	
Infection control * Perform following procedures :	

			1	
	 (S) Pr Pr la Pr ar pr Pr pr pr 	and washing techniques Simple, hand antisepsis and argical antisepsis (scrub) repare isolation unit in b/ward ractice technique of wearing ad removing Personal rotective equipment (PPE) ractice Standard safety recautions (Universal recautions)		* Evaluate all procedures with checklist
infe	ction unit:- trol * Surgica cedures o St o H o Ca o Pr	nination of equipment and l asepsis: terilization andling sterilized equipment alculate strengths of lotions, repare lotions are of articles		
to p post pati * Pe proc care	re and * Skin pro- toperative * Prepara * Pre & Prepara * Pre & Pre & Pre- counselin * Pre & Pre & Pre- counselin * Pre & Pre- * Care of * Dressin Drainage Binders, s	post operative care: eparations for surgery : Local tion of Post operative unit ost operative teaching and g ost operative monitoring the wound gs, Suture Care, care of , Application of Bandages, splints & Slings ing of various body parts		
* A druş	gs * Admini forms and * Oral, Su * Parente subcutante * Assist v * Drug m calculatio * Prepara * Admini * Insertio	ublingual and Buccal ral : Intradermal, eous, Intramuscular etc. with Intra venous mediations easurements and dose		

	 * Instillation of medicines and spray into Ear, Eye, Nose and throat * Irrigations: Eye, Ear, Bladder, Vagina and Rectum * Inhalations: dry and moist 	
* Provide care to dying and dead * Counsel and support relatives.	Care of dying patient * Caring and packing of dead body * Counseling and supporting grieving relatives * Terminal care of the unit	

Scheme of University Examination for Nursing Foundations

Theory

There shall be one theory paper of three hours duration carrying 100 marks. Distribution of type of questions and marks for Nursing Foundations shall be as given under.

Type of Questions	No. of Questions	Marks	Sub-total
Long Essay (LE)	2	10	20
Short Essay (SE)	10	5	50
Short Answer (SA)	10	3	30
Total Marks			100

Practical and Viva-voce

There shall be practical and viva-voce examination carrying 100 marks. 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.

Psychology

Placement: First Year **Time**: Theory 60 Hours

Course Description: This course is designed to assist the students to acquire knowledge of fundaments of Psychology and develop an insight into behaviour 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 and
Ι	2	* Describe the history, scope and methods of Psychology	Introduction: * History and origin of Science of Psychology * Definitions and scope of Psychology * Relevance to Nursing * Methods of Psychology Teaching Learning Activity
			<i>Teaching Learning Activity</i> * Lecture Discussion
II	4	* Explain the Biology of Human behaviour	 Biology of Behaviour * Body mind relationship – modulation process in health and illness. * Genetics and behaviour : Heredity and Environment * Brain and behaviour: Nervous system, Neurons and synapse * Association cortex, Rt and Lt Hemispheres * Psychology of sensations * Muscular and glandular controls of behaviour * Nature of behaviour of an organism/integrated responses
III	20	* Describe various	Teaching Learning Activity * Lecture Discussion Cognitive processes
		cognitive processes and their applications	 * Attention: Types, determinants, duration and degree, alterations * 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
IV	8	* Describe motivation, emotions, stress, attitudes and their influence on behaviour	 Motivation and Emotional processes: * Motivation: Meaning, concepts, types, theories, motives and behaviour, conflicts and frustration, conflict resolution * Emotions and stress Emotions: Definition, components, changes in emotions, theories, emotional adjustments, emotions in health and illness. Stress: stressors, cycle, effect, adaptation and coping * Attitude: Meaning, nature, development, factors affecting, Behaviour and attitudes Attitudinal change * Psychometric assessments of emotions and attitudes * Alterations in emotions * Applications
V	7	* Explain the concepts of personality and its influence on behaviour	Teaching Learning Activity * Lecture Discussion Personality * Definitions, topography, types, Theories * Psychometric assessments of personality * Alterations in personality * Applications Teaching Learning Activity
VI	7	* Describe Psychology of people during the life cycle	 * Lecture Discussion Developmental Psychology * Psychology of people at different ages from infancy to old age * Psychology of vulnerable individuals-challenged, women, sick, etc. * Psychology of groups

			<i>Teaching Learning Activity</i> * Lecture Discussion	
VII	8	 * Describe the characteristics of * Mentally health person * Explain ego defence mechanisms 	Mental hygiene and mental Health* Concepts of mental hygiene and mental health* Characteristics of mentally healthy person* Warning signs of poor mental health* Promotive and Preventive mental health-strategiesand services* Ego Defence mechanisms and implications* Personal and social adjustments* Guidance and counseling* Role of nurseTeaching Learning Activity* Lecture Discussion* Case Discussion	
VIII	4	* Explain the Psychological assessments and role of nurse	 * Demonstra- tion Psychological assessment & tests * Types, development, Characteristics, Principles, Uses, Interpretations and Role of nurse in psychological assessment <i>Teaching Learning Activity</i> * Lecture Discussion * Demonstration * Practice sessions 	

Microbiology

Placement: First Year **Time**: Theory-60 Hours (Theory 45+15 lab)

Course Description: This 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	Unit Time (Hrs)		Learning Objectives	Content and Teaching Learning Activity	
	(п Th	<u>rs)</u> Pr	Objectives		
I	5		* Explain concepts and principles of microbiolog y and their	Introduction: * Importance and relevance to nursing * Historical perspective * Concepts and terminology * Principles of microbiology	
			importance		
II	10	5	in nursing * Describe structure, classificatio n morphology and growth of bacteria * Identify Micro- organisms	 Teaching Learning Activity * Lecture Discussion General characteristics of Microbes * 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 Micro-organisms * Staining techniques, Gram staining, Acid fast staining, Hanging drop preparation * Culture; various medias Teaching Learning Activity	
III	10	2	* Describe the methods of infection control * Identify the role of	 * Demonstration Infection Control * Infection: Sources, portals of entry and exit, transmission * Asepsis * Disinfection: Types and methods * Sterilization: Types and methods * Chemotherapy and antibiotics 	

			nurse in	* Standard safety measures	
			hospital	* Biomedical waste management	
			infection	* Role of Nurse	
			control	* Hospital acquired infection	
			programme	* Hospital infection control programme	
			1 0	• Protocols, collection of samples, preparation of report and	
				status of rate of infection in the unit/ hospital, nurse's	
				accountability,	
				continuing education etc.	
				Teaching Learning Activity	
				* Lecture Discussion	
				* Demonstration	
				* Visits to CSSD	
				* Clinical practice	
IV	12	4	* Describe	Pathogenic organisms	
		-	the different	* Micro-organisms	
			disease	 Cocci – gram positive and gram negative 	
			producing	 bacilli – gram positive and gram negative 	
			organisms	 Spirochaete 	
			organisins		
				• Chlamydiae	
				* Viruses	
				* Fungi-Superficial and Deep mycoses	
				* Parasites	
				* Rodents & vectors Characteristics, Source, portal of entry,	
				transmission of infection Identification of disease producing	
				micro-organisms collection, handling and transportation of various	
				specimens	
				Teaching Learning Activity	
				* Lecture Discussion	
				* Demonstration	
				* Clinical practice	
V	8	4	Explain the	Immunity	
			concept of	* Immunity – Types, classification, * Antigen & antibody reaction	
			immunity,	*Hypersensitivity – skin test, * Serological tests	
			hyper	* Immunoprophylaxis	
			sensitivity	• Vaccines & sera – Types & classification, storage and	
			and	handling, cold chain	
			immunizatio	 Immunization for various diseases 	
			n	 Immunization for various diseases Immunization schedule 	
			11	Teaching Learning Activity	
				* Lecture Discussion	
				* Demonstration	
				* Clinical practice	

Introduction to Computers

Placement: First Year **Time**: Theory – 45 Hours

Course Description: This course is designed for students to develop basic understanding of uses of computer and its application in Nursing.

Unit	Time (Hrs)		Learning Objectives	Content and Teaching Learning Activities	Assessment Methods
	Th	Pr			For Internal Assessment
1	3		* Identify & define various concepts used in computer * Identify application of computer in nursing	Introduction: * Concepts of Computers * Hardware and software; trends and technology * Application of computers in nursing. Teaching Learning Activities * Lecture Discussion * Demonstration	* Short answers * Objective type
II	6	20	* Describe and Use the Disk Operating System * Demonstrate skill in the use of MS Office	 * Introduction to disk – operating system DOS Windows (all version) * Introduction MS-Word MS-Excel with pictorial presentation MS-Access MS-Power point Teaching Learning Activities * Lecture Discussion * Demonstration * Practice session 	* Short answers * Objective type * Practical Exam
III	2	3	 * Demonstrate skill in using multi- media * Identify features of computer aided teaching and testing 	 * Multimedia; types & uses * Computer aided teaching & testing Teaching Learning Activities * Lecture Discussion * Demonstration 	* Short answers * Objective type * Practical Exam and Viva Voce

IV	1	3	* Demonstrate use of internet and Email	 * Use of Internet and: e-mail Teaching Learning Activities * Lecture Discussion * Demonstration * Practice session 	* Short answers * Objective type * Practical Exam and
					Viva Voce
V	2	2	* Describe and use the statistical packages	* Statistical packages: types and their features	* Short answers * Objective
				Teaching Learning Activities	type
				* Lecture Discussion	* Practical
				* Demonstration	Exam and
				* Practice session	Viva Voce
VI	1	2	* Describe the use	* Hospital Management System:	* Short
			of Hospital Management	Types and uses	answers * Objective
			System	Teaching Learning Activities	type
				* Lecture Discussion	* Practical
				* Demonstration	Exam and
					Viva Voce

Scheme of Examination

• Theory

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Nursing Foundations, Psychology, Microbiology, English and Introduction to Computer

There shall be one paper of three hours duration carrying 100 marks for each of the subjects mentioned above.

 Table 6(E): Distribution of Type of Questions and Marks for Nursing Foundations, Psychology,

 Microbiology, English and Introduction to Computer* (100 marks for each subject)

Type of Questions	No. of Questions	Marks	Sub-total
Long Essay (LE)	2	10	20
Short Essay (SE)	10	5	50
Short Answer (SA)	10	3	30
Total Marks			100

*Examination for Introduction to Computer to be conducted as college examination and marks to be sent to the University for inclusion in the marks sheet

• Practical and Viva-voce Examination.

Practical and Viva-voce examination shall be held for Nursing Foundations subject only. Marks for university examination shall be 100 marks. Assessment methods shall be as given in the text of Nursing Foundations Practical.