

Syllabus
B Sc (Hons) Nursing
at the
AIIMS



All India Institute of Medical Sciences

New Delhi - 110 029

Academic Affairs

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PREAMBLE

The Health Survey and Development Committee, popularly known as the Bhore Committee, in its report published in 1946, recommended very strongly the establishment of a national medical centre at Delhi which will concentrate on training of highly qualified teachers and research workers in order that a steady stream of these could be maintained to meet the needs of the rapidly expanding health activities throughout the country. After the attainment of independence the Union Ministry of Health proceeded to implement this challenging idea and a magnificent grant of one million pounds by the Government of New Zealand through the Colombo Plan helped to translate the idea into reality. An act of Parliament in 1956 established the All India Institute of Medical Sciences as an autonomous institution of National importance and defined its objectives and functions.

The prime concern of the Institute is to develop patterns of teaching in undergraduate and postgraduate medical education in all the branches so as to demonstrate a high standard of medical education to all medical colleges and other allied institutions in India. This educational experience is imparted in an atmosphere of research.

By virtue of the Act, the Institute grants its own medical degrees and other academic distinctions. The degrees granted by the Institute under the All India Institute of Medical Sciences Act are recognised qualifications for the purpose of the Indian Medical Council Act, Indian Nursing Council Act & Dental Council Act and, notwithstanding anything contained therein, are deemed to be included in the first schedule of that Act, entitling the holders to the same privileges as those attached to the equivalent awards from the recognized Universities of India respectively.

The AIIMS imparts high quality state of the art training in nursing vide three courses, viz:

1. B Sc (Hons) Nursing
2. B Sc Nursing (Post Certificate)
3. M Sc Nursing

Broad areas covered during the course tenure are highlighted here. The syllabus has been developed in consultation with the Principal and faculty of the College of Nursing, as prescribed by the Indian Nursing Council and further scrutinized by the Academic Section under the supervision of the Dean.

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B.Sc. (Hons.) NURSING

INSTRUCTIONAL GOALS OF THE UNDERGRADUATE PROGRAMME FOR NURSING AT COLLEGE OF NURSING, AIIMS

AIM

The aim of the undergraduate-nursing program leading to the degree of B.Sc. (Hons) Nursing at the College of Nursing, AIIMS is to:

- Prepare the graduates to assume responsibilities as professional, competent nurses and midwives in providing promotive, preventive, curative, and rehabilitative health services.
- Prepare nurses who can make independent decisions in nursing situations, protect the rights of and facilitate individuals and groups in pursuit of health, function in the hospital, community nursing services, and conduct research studies in the areas of nursing practice. They are also expected to assume the role of teacher, supervisor, and manager in clinical/public health settings.

OBJECTIVES

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

1. Apply knowledge from physical, biological, and behavioral sciences, medicine including alternative systems, and nursing in providing nursing care to individuals, families and communities.
2. Demonstrate understanding of life style and other factors which affect health of individuals and groups.
3. Provide nursing care based on steps of nursing process in collaboration with the individuals and groups.
4. Demonstrate critical thinking skill in making decisions in all situations in order to provide quality care.
5. Utilize the latest trends and technology in providing health care.
6. Provide promotive, preventive and restorative health services in line with the national health policies and programs.
7. Practice within the framework of code of ethics and professional conduct, and acceptable standards of practice within the legal boundaries.
8. Communicate effectively with individuals and groups, and members of the health team in order to promote effective interpersonal relationships and teamwork.
9. Demonstrate skills in teaching to individuals and groups, in clinical/community health settings.
10. Participate effectively as members of the health team in health care delivery system.
11. Demonstrate leadership and managerial skills in clinical/community health settings.
12. Conduct need based research studies in various settings and utilize the research findings to improve the quality of care.

13. Demonstrate awareness, interest, and contribute towards advancement of self and of the profession.

Duration and Courses of Study: The course of studies leading to the award of B.Sc. (Hons) nursing degree shall be for a minimum period of four academic years or 8 semesters and shall consist of the following four phases.

HOURS OF INSTRUCTION

PHASE I: FIRST YEAR B.Sc. (Hons.) NURSING

<i>Subject</i>	<i>Hours</i>	
	<i>Theory</i>	<i>Practical</i>
1. Anatomy	60	
2. Physiology	60	
3. Nutrition	60	
4. Biochemistry	30	
5. Nursing Foundations	265+200	550
6. Psychology	60	
7. Microbiology	60	
8. Introduction to Computers	45	
9. English	60	
10. Hindi	30	
Total	930	550

PHASE II: SECOND YEAR B.Sc. (Hons.) NURSING

<i>Subject</i>	<i>Hours</i>	
	<i>Theory</i>	<i>Practical</i>
1. Pharmacology	45	
2. Pathology & Genetics	30+15	
3. Medical-Surgical Nursing (Adult including geriatrics)-I	210	865
4. Community Health Nursing-I	90	135
5. Communication and Educational Technology	60+30	
Total	480	1000

PHASE III: THIRD YEAR B.Sc. (Hons.) NURSING

<i>Subject</i>	<i>Hours</i>	
	<i>Theory</i>	<i>Practical</i>
1. Sociology	60	
2. Medical-Surgical Nursing (Adult including Geriatrics)-II	120	460
3. Child Health Nursing	90	360
4. Mental Health Nursing	90	300
Total	360	1120

PHASE IV: FOURTH YEAR B.Sc. (Hons.) NURSING

<i>Subject</i>	<i>Hours</i>	
	<i>Theory</i>	<i>Practical</i>
1. Midwifery and Obstetrical Nursing	90	600
2. Community Health Nursing-II	90	300
3. Nursing Research & Statistics	45	45
4. Management of Nursing Services and education	60+30	
5. Integrated practice		220
Total	315	1165

CLINICAL EXPERIENCE

- (i) Total study hours per week shall be 40. During each academic year, students shall spend the available remaining hours besides theory instruction in the specified clinical areas as per rotation postings.
- (ii) During summer vacation period the student shall spend 4 weeks in the clinical areas as per rotation posting.
- (ii) Students shall be posted for Evening and Night duties after III year exams during summer vacation.

SCHEME OF EXAMINATION**FIRST YEAR**

<i>Paper</i>	<i>Subject</i>	<i>Internal assessment</i>	<i>Final marks</i>	<i>Total marks</i>
	Theory			
1.	Anatomy & Physiology	50	50	100
2.	Nutrition & Biochemistry	50	50	100
3.	Nursing Foundation	50	50	100
4.	Psychology	50	50	100
5.	Microbiology	50	50	100
6.	English*	25	75	100
7.	Introduction to Computer**	25	75	100
8.	Hindi***	25	75	100
	Practical and Viva Voce			
9.	Nursing Foundation	100	100	200
	Total			900

SECOND YEAR

<i>Paper</i>	<i>Subject</i>	<i>Internal assessment</i>	<i>Final marks</i>	<i>Total marks</i>
	Theory			
1.	Medical Surgical Nursing (Adult including geriatrics)-I	50	50	100
2.	Pharmacology, Pathology, & Genetics	50	50	100
3.	Community Health Nsg.-I	50	50	100
4.	Communication and Educational Technology	50	50	100
	Practical & Viva Voce			
5.	Medical-Surgical Nursing-I	100	100	200
	Total			600

THIRD YEAR

<i>Paper</i>	<i>Subject</i>	<i>Internal assessment</i>	<i>Final marks</i>	<i>Total marks</i>
	Theory			
1.	Sociology	50	50	100
2.	Medical-Surgical Nursing (Adult including geriatrics)-II	50	50	100
3.	Child Health Nursing	50	50	100
4.	Mental Health Nursing	50	50	100
	Practical & Viva Voce			
5.	Medical-Surgical Nursing (Adult including geriatrics)-II	50	50	100
6.	Child Health Nursing	50	50	100
7.	Mental Health Nursing	50	50	100
	Total			700

FORTH YEAR

<i>Paper</i>	<i>Subject</i>	<i>Internal assessment</i>	<i>Final marks</i>	<i>Total marks</i>
	Theory			
1.	Midwifery and Obstetrical Nursing	50	50	100
2.	Community Health Nursing-II	50	50	100
3.	Nursing Research & Statistics	50	50	100
4.	Management of Nursing Services & Education	50	50	100
	Practical & Viva-Voce			
5.	Midwifery and Obstetrical Nursing	50	50	100
6.	Community Health Nursing	50	50	100
	Total			600

Note:

1. Anatomy and Physiology- Part A: Anatomy 25 marks, Part B: Physiology 25 marks.
2. Nutrition and Biochemistry- Part A: Nutrition 30 marks, Part B: Biochemistry 20 marks
3. Pharmacology, genetics, pathology: Part A: Pharmacology 25 marks, Part B: Pathology 15 marks and Genetics 10 marks

4. Nursing Research & Statistics: Research 35 marks, Statistics 15 marks
5. *English Pass marks 40%
6. **College exams, marks to be included in the marks sheet.
7. ***College exam, marks not to be included in the marks sheet.

RULES OF EXAMINATION

1. 1st to 4th year final examination is held in May every year and the supplementary examination is held in December every year.
2. A candidate who fails in more than one paper will not be promoted to the next class.
3. The candidate will be required to pass in all the subjects of the previous year's examination at least six months before the next year examination.
4. For 1st, 2nd, & 3rd year examinations the candidate who passes in one or more papers will be given exemption in these papers. After that she will be given two more chances at six monthly intervals to pass in the subject. However, if she fails to pass in these extra attempts she will have to discontinue the course.
5. For final year examination the candidate who passes in one or more subjects will be given exemption in that subject. After that she will be given 2 more chances at six monthly intervals to pass in all the subjects. If she fails to pass in all the subjects in three attempts, she will not be awarded the Degree.
6. A student will be deemed to have passed in the subject if she obtains a minimum of 50% marks in each subject in theory and practical.
7. A student, who absents herself from the examination without prior permission of Dean, will be deemed to have failed in that examination.
8. 50% marks are assigned for internal assessment in each theory & practical paper.
9. A student must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
10. A student must have 100% attendance in each of the practical areas before award of degree.

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 (Hours)	Learning Objectives	Content
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 <p>Alterations in disease Applications and implications in nursing</p>
II	6	<ul style="list-style-type: none"> Describe the structure and function of bones and joints 	<p>The Skeletal System</p> <ul style="list-style-type: none"> Bones–types, structure, Axial & Appendicular Skeleton Bone formation and growth Description of bones Joints–classification and structure <p>Alterations in disease Applications and implications in nursing</p>
III	7	<ul style="list-style-type: none"> Describe the structure and function of muscles 	<p>The Muscular System</p> <ul style="list-style-type: none"> Types and structure of muscles, muscle groups <p>Alterations in disease Applications and implications in nursing</p>
IV	6	<ul style="list-style-type: none"> Describe the structure and 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, spinal nerves, peripheral nerves Autonomic Nervous System <ul style="list-style-type: none"> sympathetic, parasympathetic–Structure, location <p>Alterations in disease Applications and implications in nursing</p>

Unit	Time (Hours)	Learning Objectives	Content
V	6	<ul style="list-style-type: none"> Explain the structure and functions of sensory organs 	The Sensory Organs <ul style="list-style-type: none"> Structure of skin, eye, ear, nose, tongue, (Auditory and olfactory apparatus) Alterations in disease Applications and implications in nursing
VI	7	<ul style="list-style-type: none"> Describe the structure and function of circulatory and lymphatic system 	Circulatory and lymphatic system <ul style="list-style-type: none"> The Circulatory System: Blood: Microscopic structure, Structure of Heart, Structure of blood vessels—Arterial & Venous System, Circulation: systemic, pulmonary, coronary Lymphatic system: Lymphatic vessels and lymph, Lymphatic tissues: Thymus gland, Lymph nodes, Spleen, Lymphatic nodules Alterations in disease Applications and implications in nursing
VII	5	<ul style="list-style-type: none"> Describe the structure and functions of respiratory system 	The Respiratory System <ul style="list-style-type: none"> Structure of the organs of respiration Muscles of respiration: Intercostal and Diaphragm Alterations in disease Applications and implications in nursing
VIII	6	<ul style="list-style-type: none"> Describe the structure and functions 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 implications in nursing
IX	4	<ul style="list-style-type: none"> Describe the structure and functions of excretory system 	The Excretory System (Urinary) <ul style="list-style-type: none"> Structure of organs of urinary system: Kidney, ureters, urinary bladder, urethra, structure of skin Alterations in disease Applications and implications in nursing
X	4	<ul style="list-style-type: none"> Describe the structure and functions 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 implications in nursing

Unit	Time (Hours)	Learning Objectives	Content
XI	4	<ul style="list-style-type: none">• Describe the structure and functions of reproductive system	The Reproductive system including breast <ul style="list-style-type: none">• Structure of female reproductive organs• Structure of male reproductive organs• Structure of breast Alterations in disease Applications and implications in nursing

- **Teaching Learning Activities:** Lecture- discussion, Explain using models, charts, microscopic slides, specimens, Skeleton, bones & torso as applicable Maintain Record book.
- **Assessment Methods:** SAQ's, MCQ's

PHYSIOLOGY

Placement: First Year

Time: Theory 60 hours

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

Unit	Time (Hours)	Learning Objectives	Content
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—functions Alterations in disease Applications and implications in nursing
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 Alterations in disease Applications and implications in nursing
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 implications in nursing
IV	7	<ul style="list-style-type: none"> Describe the physiology of nerve stimulus, reflexes, brain, cranial and spinal nerves Demonstrate reflex action and stimulus 	Nervous System <ul style="list-style-type: none"> Functions of Neurologia & neurons Stimulus & nerve-impulse-definitions and mechanism Functions of brain, spinal cord, cranial and spinal nerves, Reflex arc, Reflex action and reflexes Cerebrospinal fluid- Composition, circulation and function Autonomic functions—Pain: somatic, visceral, and referred, Autonomic learning and biofeedback Alterations in disease Applications and implications in nursing

Unit	Time (Hours)	Learning Objectives	Content
V	8	<ul style="list-style-type: none"> Describe the physiology of blood and functions of Heart Demonstrate blood cell count, coagulation, grouping, Hb, BP and Pulse monitoring 	<p>Circulatory System</p> <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 <p>Alterations in disease</p> <p>Applications and implications in nursing</p>
VI	6	<ul style="list-style-type: none"> Describe the physiology and mechanisms of respiration Demonstrates spirometry 	<p>The Respiratory System</p> <ul style="list-style-type: none"> Functions of respiratory organs, Physiology of respiration, Pulmonary ventilation, Volume, Mechanics of respiration, Gaseous exchange in lungs, Carriage of oxygen & carbon-dioxide, Exchange of gases in tissues, Regulation of respiration <p>Alterations in disease</p> <p>Applications and implications in nursing</p>
VII	6	<ul style="list-style-type: none"> Describes the physiology of digestive system Demonstrates BMR 	<p>The Digestive System</p> <ul style="list-style-type: none"> 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
VIII	5	<ul style="list-style-type: none"> Describe the physiology of excretory system 	<p>The Excretory System</p> <ul style="list-style-type: none"> 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 <p>Alterations in disease</p> <p>Applications and implications in nursing</p>

Unit	Time (Hours)	Learning Objectives	Content
IX	4	<ul style="list-style-type: none"> Describe the physiology of sensory organs 	<p>The Sensory Organs</p> <ul style="list-style-type: none"> Functions of skin, eye, ear, nose, tongue, Alterations in disease <p>Applications and implications in nursing</p>
X	5	<ul style="list-style-type: none"> Describe the physiology of endocrine glands 	<p>The Endocrine System</p> <ul style="list-style-type: none"> Functions of Pituitary, pineal body, thymus, Thyroid, parathyroid, pancreas, Suprarenal, Placenta and ovaries & Testes <p>Alterations in disease</p> <p>Applications and implications in nursing</p>
XI	5	<ul style="list-style-type: none"> Describe the physiology of male and female reproductive system 	<p>The Reproductive System</p> <ul style="list-style-type: none"> Reproduction of cells—DNA, Mitosis, Meosis, 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 <p>Alterations in disease</p> <p>Applications and implications in nursing</p>
XII	2	<ul style="list-style-type: none"> Describe the physiology of Lymphatic and Immunological System 	<p>Lymphatic and Immunological System</p> <ul style="list-style-type: none"> 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 models, charts, films, microscopic slides, specimens, Skeleton, bones & torso as applicable, Maintain Record book, Demonstration: joint movements, muscle movements, tone and contraction, nerve stimulus, reflex action, reflexes, Blood cell count, coagulation, grouping, Hemoglobin estimation, Heart conduction system, Measurement of pulse, BP, spirometry, BMR.
- Assessment Methods:** SAQ's, MCQ's

NUTRITION

Placement: First Year

Time: Theory 60 hours

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 (Hours)		Learning Objectives	Content
	Th.	Pr.		
I	4		<ul style="list-style-type: none"> Describe the relationship between nutrition & Health. 	<p>Introduction</p> <ul style="list-style-type: none"> 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
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
III	2		<ul style="list-style-type: none"> Describe the classification, functions, sources and recommended daily allowances (RDA) of Fats 	<p>Fats</p> <ul style="list-style-type: none"> Classification, Caloric value, Recommended daily allowances, Dietary sources, Functions, Digestion, absorption and storage, metabolism 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 	<p>Proteins</p> <ul style="list-style-type: none"> Classification, Caloric value, Recommended daily allowances, Dietary sources, Functions, Digestion, absorption, metabolism and storage Malnutrition: Deficiencies and Over consumption

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
V	3		<ul style="list-style-type: none"> Describe the daily calorie requirement for different categories of persons 	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
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
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 Deficiencies Over consumption and toxicity
VIII	3		<ul style="list-style-type: none"> Describe the sources, functions and requirements of Water & electrolytes 	Water & electrolytes <ul style="list-style-type: none"> Water: Daily requirement, regulation of water metabolism, distribution of body water, Electrolytes: Types, sources, composition of body fluids Maintenance of fluid & electrolyte balance Over hydration, dehydration and water intoxication Electrolyte imbalances
IX	5	15	<ul style="list-style-type: none"> Describe the Cookery rules and preservation of nutrients Prepare and serve simple beverages and different types of foods 	Cookery rules and preservation of nutrients <ul style="list-style-type: none"> Principles, methods of cooking and serving & Preservation of nutrients Safe Food handling-toxicity Storage of food Food preservation, food additives and its principles Prevention of food adulteration Act (PFA)

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
				<ul style="list-style-type: none"> • Food standards • Preparation of simple beverages and different types of food
X	7	5	<ul style="list-style-type: none"> • Describe and plan 5balanced diet for different categories of people 	<p>Balanced diet</p> <ul style="list-style-type: none"> • Elements, Food groups, Recommended Daily Allowances, Nutritive value of foods • Calculation of balanced diet for different categories of persons • Planning menu • Budgeting of food • Introduction to therapeutic diets • Naturopathy–Diet
XI	4		<ul style="list-style-type: none"> • Describe various national programs related to nutrition • Describe the role of nurse in assessment of nutritional status and nutrition education 	<p>Role of nurse in nutritional programs</p> <ul style="list-style-type: none"> • National programs related to nutritionq <ul style="list-style-type: none"> □ Vitamin A deficiency programq □ National iodine deficiency disorders (IDD) program □ Mid-day meal programq □ Integrated child development scheme (ICDS) • National and International agencies working towards food/nutritionq <ul style="list-style-type: none"> □ NIPCCD, CARE, FAO, NIN, CFTRI (Central food technology and research institute) etc • Assessment of nutritional status • Nutrition education and role of nurse

- **Teaching Learning Activities:** Lecture- discussion, Explain using models, charts, slides, film, specimens, panel discussion as applicable Maintain Practical Record book, Demonstrations: Calculation of BMR, Food handling, Storage & preservation of foods, Assessment of nutritional status, Meal planning, practice sessions: Calculation of BMR, Food handling, Meal planning, planning therapeutic diets
- **Assessment Methods:** SAQ's, MCQ's, Assessment of practice sessions & Practical Record book.

BIOCHEMISTRY

Placement: First Year

Time: Theory 60 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 (Hours)	Learning Objectives	Content
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 	<p>Introduction</p> <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
II	6	<ul style="list-style-type: none"> • Describe the Structure and functions of Cell membrane 	<p>Structure and functions of Cell membrane</p> <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
III	6	<ul style="list-style-type: none"> • Explain the metabolism of carbohydrates 	<p>Composition and metabolism of Carbohydrates</p> <ul style="list-style-type: none"> • Types, structure, composition and uses, Monosaccharides, Disaccharides, polysaccharides, Oligosaccharides • Metabolism: Pathways of glucose: Glycolysis, Gluconeogenesis: Cori's cycle, Tricarboxylic acid (TCA) cycle, Glycogenolysis, Pentose phosphate pathways (Hexose mono phosphate), Regulation of blood glucose level <p>Investigations and their interpretations</p>
IV	4	<ul style="list-style-type: none"> • Explain the metabolism of Lipids 	<p>Composition and metabolism of Lipids</p> <ul style="list-style-type: none"> • Types, structure, composition and uses of fatty acids, Nomenclature, Roles and Prostaglandins • Metabolism of fatty acid: Breakdown, Synthesis, Metabolism of triacylglycerols • Cholesterol metabolism, Biosynthesis and its

Unit	Time (Hours)	Learning Objectives	Content
			<p>Regulation, Bile salts and bilirubin, Vitamin D, Steroid hormones</p> <ul style="list-style-type: none"> Lipoproteins and their functions: VLDLs–IDLs, LDLs and HDLs, Transport of lipids, Atherosclerosis, <p>Investigations and their interpretations</p>
V	6	<ul style="list-style-type: none"> Explain the metabolism of Amino acids and Proteins 	<p>Composition and metabolism of Amino acids and Proteins</p> <ul style="list-style-type: none"> 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 <p>Investigations and their interpretations</p>
VI	2	<ul style="list-style-type: none"> Describe types, composition and utilization of Vitamins & minerals 	<p>Composition of Vitamins and minerals</p> <ul style="list-style-type: none"> Vitamins and minerals: Structure, Classification, Properties, Absorption, Storage & transportation, Normal concentration <p>Investigations and their interpretations</p>
VII	3	<ul style="list-style-type: none"> Describe Immunochemistry 	<p>Immunochemistry</p> <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

- **Teaching Learning Activities:** Lecture- discussion, Explain using charts, slides, film, specimens, as applicable Maintain Practical Record book, Demonstrations: Use of microscope, blood glucose monitoring, laboratory tests,
- **Assessment Methods:** SAQ's, MCQ's,.

NURSING FOUNDATIONS

Placement: First Year

Time: Theory 265 hours

Practical: 750 hours (200 lab and 550 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 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 (Hours)	Learning Objectives	Content
I	10	<ul style="list-style-type: none"> Describe the concept of health, illness and health care agencies 	<p>Introduction</p> <ul style="list-style-type: none"> Concept of Health: Health–Illness continuum, Factors influencing health, Causes and risk factors for developing illness Body defenses: Immunity and immunization Illness and illness Behavior: Impact of illness on patient and family Health Care 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
II	16	<ul style="list-style-type: none"> Explain concept and scope of nursing Describe values, code of ethics and professional conduct for nurses in India 	<p>Nursing as a profession</p> <ul style="list-style-type: none"> Definition and Characteristics of a profession Nursing: Definition, Concepts, philosophy, objectives, Characteristics, nature and scope of nursing practice, Functions of nurse, Qualities of a nurse, Categories of nursing personnel <ul style="list-style-type: none"> Nursing as a profession History of Nursing in India Values: Definition, Types, Values Clarification and values in professional Nursing: Caring and Advocacy <ul style="list-style-type: none"> Ethics: Definition and Ethical Principles, Code of ethics and professional conduct for nurses

Unit	Time (Hours)	Learning Objectives	Content
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: Unit and its preparation-admission bed, Admission procedure, Special considerations, Medico-legal issues, Roles and Responsibilities of the nurse • Discharge from the hospital: 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
IV	10	<ul style="list-style-type: none"> • Communicate effectively with patient, families and team members and maintain effective human relations (projecting professional image) • Appreciate the importance of patient teaching in nursing 	<p>Communication and Nurse patient relationship</p> <ul style="list-style-type: none"> • 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 Relationships (NPR): Dimensions of Helping Relationships, Phases of a helping relationship • Communicating effectively with patient, families and team members and maintain effective human relations with special reference to communicating with vulnerable groups (children, women, physically and mentally challenged, and elderly) • 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: 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

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> - 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
VI	4	<ul style="list-style-type: none"> • Describe the purposes, types and techniques of recording and reporting 	<p>Documentation and Reporting</p> <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
VII	15	<ul style="list-style-type: none"> • Describe principles and techniques of monitoring and maintaining vital signs • Monitor and maintain vital signs 	<p>Vital signs</p> <ul style="list-style-type: none"> • 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

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> • Pulse: Physiology and Regulation, Characteristics of pulse, Factors affecting pulse, Assessment of pulse: sites, location, equipments and technique, special considerations, Alterations in pulse • Respiration: Physiology and Regulation, Mechanics of breathing Characteristics of respiration, Factors affecting respiration, Assessment of respirations: technique, special considerations, Alterations in respiration • Blood pressure: Physiology and Regulation, Characteristics of blood pressure, Factors affecting blood pressure, Assessment of blood pressure: sites, equipments and technique, special considerations, Alterations in blood pressure • Recording of vital signs
VIII	30	<ul style="list-style-type: none"> • Describe purpose and process of health assessment • Describe the health assessment of each body system • Perform health assessment of each body system 	<p>Health assessment</p> <ul style="list-style-type: none"> • Purposes • Process of 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	<ul style="list-style-type: none"> • Identifies various machinery, equipment and linen and their care 	<p>Machinery, Equipment and linen</p> <ul style="list-style-type: none"> • Types: Disposables and reusables-Linen, rubber goods, glass ware, metal, plastics, furniture, machinery • Introduction: Indent, Maintenance, Inventory
X	60	<ul style="list-style-type: none"> • Describes basic, physiological and psycho-social needs of patient • Describe the principles and techniques for meeting basic, Physiological and psycho-social needs of patient 	<p>Meeting needs of patient</p> <ul style="list-style-type: none"> • Basic needs (Activities of daily living) <ul style="list-style-type: none"> □ Providing safe and clean environment: <ul style="list-style-type: none"> - Physical-environment: Temperature, Humidity, Noise, Ventilation, light, Odour, pests control, Reduction of Physical hazards: fire, accidents, Safety devices: Restraints, side rails, airways, trapez etc , Role of nurse in providing safe and clean environment

Unit	Time (Hours)	Learning Objectives	Content
		<ul style="list-style-type: none"> • Perform nursing assessment, plan, implement and evaluate the care for meeting basic, physiological and psychosocial needs of patient 	<ul style="list-style-type: none"> □ Hygiene: Factors Influencing Hygienic Practice <ul style="list-style-type: none"> - Hygienic care: Care of the Skin-Bath and pressure points, feet and nail, Oral cavity, Hair Care, Eyes, Ears, and Nose <ul style="list-style-type: none"> ○ Assessment, Principles, Types, Equipments, Procedure, Special Considerations - Patient environment: Room Equipment and linen, making patient beds <ul style="list-style-type: none"> ○ Types of beds and bed making □ Comfort: Factors Influencing Comfort, Comfort devices • Physiological needs: <ul style="list-style-type: none"> □ 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 considerations: Oral, Enteral: Naso/Orogastric, gastrostomy, Parenteral □ Urinary Elimination; Review of Physiology of Urine Elimination, Composition and characteristics of urine, Factors Influencing Urination, Alteration in Urinary Elimination, Types and Collection of urine specimen: Observation, urine testing, Facilitating urine elimination: assessment, types, equipments, procedures and special considerations <ul style="list-style-type: none"> ○ Providing urinal/bed pan, Condom drainage, Perineal care, Catheterization, Care of urinary drainage, Care of urinary diversions, Bladder irrigation □ Bowel Elimination <ul style="list-style-type: none"> - Review of Physiology of Bowel Elimination, Composition and characteristics of faeces, Factors affecting Bowel elimination, Alteration in Bowel Elimination, Types and Collection of specimen of faeces:

Unit	Time (Hours)	Learning Objectives	Content
			<p>Observation, Facilitating bowel elimination: assessment, equipments, procedures and special considerations</p> <ul style="list-style-type: none"> ○ Passing of Flatus tube, Enemas, Suppository, Sitz bath, Bowel wash, Care of Ostomies <p>□ Mobility and Immobility:</p> <ul style="list-style-type: none"> - Principles of Body Mechanics, Maintenance of normal body Alignment and mobility, Factors affecting body Alignment and mobility, Hazards associated with immobility, Alteration in body Alignment and mobility: Nursing interventions for impaired Body Alignment and Mobility: assessment, types, devices used, method and special considerations, rehabilitation aspects ○ Range of motion exercises, Maintaining body alignment: Positions, Moving, Lifting, Transferring, Walking, Restraints <p>□ Oxygenation</p> <ul style="list-style-type: none"> - 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, Care of Chest drainage, Pulse oximetry, CPR- Basic life support <p>□ Fluid, Electrolyte, and Acid–Base Balance</p> <ul style="list-style-type: none"> - Review of Physiological Regulation of Fluid, Electrolyte, and Acid–Base Balances, Factors Affecting Fluid, Electrolyte, and Acid–Base Balances, Alterations in Fluid, Electrolyte, and Acid–Base Balances, Nursing interventions in Fluid, Electrolyte, and Acid–Base Imbalances: assessment, types, equipment, procedure and special considerations

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> ○ Measuring fluid intake and output, Correcting Fluid, Electrolyte Imbalance: 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: Concepts of Cultural Diversity, Stress and Adaptation, Self-concept, Sexuality, Spiritual Health, Coping with loss, death and grieving <ul style="list-style-type: none"> - Assessment of psychosocial needs, Nursing intervention for psychosocial needs, Assist with coping and adaptation, Creating therapeutic environment, Recreational and diversional therapies
XI	20	<ul style="list-style-type: none"> • Describe principles and techniques for infection control and biomedical waste management in Supervised Clinical settings 	<p>Infection control in Clinical settings</p> <ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> □ 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 <ul style="list-style-type: none"> □ Types of hospital waste □ Hazards associated with hospital waste □ Decontamination of hospital waste □ Segregation, transportation, and disposal

Unit	Time (Hours)	Learning Objectives	Content
XII	40	<ul style="list-style-type: none"> • Explain the principles, routes, effects of administration of medications • Calculate conversions of drugs and dosages within and between systems of measurements • Administer drugs by the following routes-oral, Intradermal , Subcutaneous, Intramuscular, Intra Venous topical, inhalation 	<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 <ul style="list-style-type: none"> □ Broad classification of drugs □ Therapeutic Effect, Side Effects, Toxic Effects, Idiosyncratic Reactions, Allergic Reactions, Drug Tolerance, Drug Interactions, Factors Influencing drug Actions, □ Systems of Drug Measurement: Metric System, Apothecary System, Household Measurements, Solutions. □ 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; General principles: decontamination and disposal of syringes and needles, Types of parenteral therapies, Types of syringes, needles, canula, and infusion sets <ul style="list-style-type: none"> □ Protection from Needlestick Injuries: Giving Medications with a safety syringes □ Routes of parenteral 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, intraperitoneal, intrapleural, intraarterial-Role of nurse

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> • Topical Administration: purposes, site, equipment, procedure, special considerations for application to Skin <ul style="list-style-type: none"> □ Application to mucous membrane <ul style="list-style-type: none"> - Direct application of liquids-Gargle and swabbing the throat - Insertion of Drug into body cavity: Suppository/ medicated packing in rectum/ vagina - Instillations: Ear, Eye, Nasal, Bladder, and Rectal - Irrigations: Eye, Ear, Bladder, Vaginal and Rectal - Spraying: Nose and throat • Inhalation: Nasal, oral, endotracheal/ tracheal (steam, oxygen, and medications)—purposes, types, equipment, procedure, special considerations <p>Recording and reporting of medications administered</p>
XIII	10	<ul style="list-style-type: none"> • Describe the pre and post operative care of patients • Explain the process of wound healing • Explain the principles and techniques of wound care • Perform care of wounds 	<p>Meeting needs of Perioperative patients</p> <ul style="list-style-type: none"> • Definition and concept of Perioperative Nursing • Preoperative Phase: Preparation of patient for surgery • Intraoperative: Operation theatre Set up and environment, Role of nurse • Postoperative Phase: 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 special considerations <ul style="list-style-type: none"> □ Dressings, Suture Care, Care of Drainage, Application of Bandages, Binders, Splints & Slings, Heat and Cold Therapy

Content

Unit	Time (Hours)	Learning Objectives	
XIV	15	<ul style="list-style-type: none"> • Explain care of patients having alterations 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, 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 □ Respiration (distress); Types, Assessment, Management □ Comfort-(Pain)-Nature, Types, Factors influencing Pain, Coping, Assessment, Management; • Treatments related to gastrointestinal system: naso-gastric suction, gastric irrigation, gastric analysis
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 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

Unit	Time (Hours)	Learning Objectives	Content
XVI	6	<ul style="list-style-type: none"> • Explain the basic concepts of conceptual and theoretical models of nursing 	<p>Professional Nursing concepts and practices</p> <ul style="list-style-type: none"> • 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

- **Teaching Learning Activities:** Lecture discussion, Demonstration, Case discussion/Role play, Visit to health care agencies, Practice session, Supervised Clinical practice.
- **Assessment Methods:** Essays, SAQ's, MCQ's, practice sessions: Assess skills with check list and clinical practical examination.

PSYCHOLOGY

Placement: First Year

Time: Theory 60 hours

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

Unit	Time (Hours)	Learning Objectives	Content
I	2	<ul style="list-style-type: none"> Describe the history, scope and methods of psychology 	<p>Introduction</p> <ul style="list-style-type: none"> History and origin of science of psychology Definitions & Scope of Psychology Relevance to nursing Methods of Psychology
II	4	<ul style="list-style-type: none"> Explain the biology of Human behavior 	<p>Biology of behavior</p> <ul style="list-style-type: none"> Body mind relationship-modulation process in health and illness Genetics and behavior: Heredity and environment Brain and behavior: Nervous System, Neurons and synapse, Association Cortex, Rt and Lt Hemispheres, Psychology of Sensations, Muscular and glandular controls of behavior Nature of behavior of an organism/Integrated responses
III	20	<ul style="list-style-type: none"> Describe various cognitive processes and their applications 	<p>Cognitive processes</p> <ul style="list-style-type: none"> Attention: Types, determinants, Duration & 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

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> • 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 	<p>Motivation And Emotional Processes</p> <ul style="list-style-type: none"> • Motivation: Meaning, Concepts, Types, Theories, Motives and behavior, Conflicts and frustration, conflict resolution • Emotions and 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 and coping • Attitude: Meaning, nature, development, factors affecting, Behavior and attitudes, Attitudinal change • Psychometric assessments of emotions and attitudes, • Alterations in emotions • Applications
V	7	<ul style="list-style-type: none"> • Explain the concepts of personality and its influence on behavior 	<p>Personality</p> <ul style="list-style-type: none"> • Definitions, topography, types, Theories • Psychometric assessments of personality • Alterations in personality • Applications
VI	7	<ul style="list-style-type: none"> • Describe psychology of people during the life cycle 	<p>Developmental Psychology</p> <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

Unit	Time (Hours)	Learning Objectives	Content
VII	8	<ul style="list-style-type: none"> Describe the characteristics of Mentally healthy person Explain ego defense mechanisms 	Mental hygiene and mental Health <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 Defense mechanisms and implications Personal and social adjustments Guidance and counseling Role of nurse
VIII	4	<ul style="list-style-type: none"> Explain the Psychological assessments and role of nurse 	Psychological assessment and tests <ul style="list-style-type: none"> Types, development, Characteristics, Principles, Uses, Interpretations and Role of nurse in psychological assessment

- **Teaching Learning Activities:** Lecture Discussion, Demonstration, Psychometric assessment, Role plays, case discussions, Practice sessions
- **Assessment Methods:** Essays, SAQ's, assessment of practice

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 micro-organisms. It also provides opportunities for practicing infection control measures in hospital and community settings.

Unit	Time (Hours)		Learning Objectives	Content
	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 of microbiology to nursing • Historical perspective • Concepts and terminology • Principles of microbiology
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
III	10	2	<ul style="list-style-type: none"> • Describe the methods of infection control • Identify the role of nurse in hospital infection control program 	<p>Infection control</p> <ul style="list-style-type: none"> • Infection: Sources, portals of entry and exit, transmission • Asepsis • Disinfection & sterilization: Types and methods • Chemotherapy and antibiotics • Standard safety measures • Biomedical waste management • Role of Nurse <ul style="list-style-type: none"> - Hospital acquired infection, Hospital infection control program: Protocols, collection of samples, preparation of report and status of rate of infection in the unit/hospital, nurse's accountability, continuing education etc.

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
IV	12	4	<ul style="list-style-type: none"> Describe 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 and vectors <p>Characteristics, Source, portal of entry, transmission of infection</p> <p>Identification of disease producing micro-organisms</p> <p>Collection, handling and transportation of various specimens</p>
V	8	4	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Vaccines and sera-Types and Classification, storage and handling, cold chain Immunization for various diseases Immunization Schedule

- Teaching Learning Activities:** Lecture Discussion, Demonstration, Clinical practice, Visits to CSSD.
- Assessment Methods:** SAQ's, MCQ's.

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 applications in nursing.

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
I	3		<ul style="list-style-type: none"> Identify & define various concepts used in computers Identify application of computers in nursing 	Introduction <ul style="list-style-type: none"> Concepts of Computers Hardware and software; trends and technology Application of computers in nursing
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: DOS, Windows (all version) Introduction to: MS-Word, MS-Excel with pictorial presentation, MS-Access, MS-Power point
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.
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
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
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

- **Teaching Learning Activities:** Lecture Discussion, Demonstration, practice sessions.
- **Assessment Methods:** SAQ's, MCQ's, practical exam & viva voce.

ENGLISH

Placement: First Year

Time: Theory 60 hours

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

Unit	Time (Hours)	Learning Objectives	Content
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
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
III	10	<ul style="list-style-type: none"> • Develop writing skills 	<ul style="list-style-type: none"> • Various forms of composition: Letter writing, Note taking, Precis writing, Nurses notes, Anecdotal records, Diary writing, Reports on health problems etc., Resume/CV
IV	6	<ul style="list-style-type: none"> • Develop skill in spoken English 	<ul style="list-style-type: none"> • Spoken English: Oral report, Discussion, Debate, Telephonic conversation
V	4	<ul style="list-style-type: none"> • Develop skill in listening comprehension 	<ul style="list-style-type: none"> • Listening Comprehension: Media, audio, video, speeches etc.

- **Teaching Learning Activities:** Demonstrate use of dictionary, Class-room conversation, Exercise on use of Grammar, Practice in public speaking, Exercise on Reading: Summarizing, Comprehension, writing, Letter writing, Nurses Notes, Precis, Diary, Anecdote, Health problems, Story writing, Resume/CV, Essay writing, Discussion, Exercises on written reports/ documents, Exercise on Debating, Participating in Seminar, panel, symposium, Telephonic conversation, Listening to audio, video tapes and identifying key points.
- **Assessment Methods:** Essay, Short Answers, Fill in the blanks, Para phrasing, Assessment of the skills based on the check list.

PHARMACOLOGY

Placement: Second Year

Time: Theory 45 hours

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

Unit	Time (Hours)	Learning Objectives	Content
I	3	<ul style="list-style-type: none"> Describe pharmacodynamics, pharmacokinetics, classification and the principles of drug administration 	<p>Introduction to pharmacology</p> <ul style="list-style-type: none"> Definitions, Sources, Terminology used, Types: Classification Pharmacodynamics: Actions, therapeutic, Adverse, toxic Pharmacokinetics: absorption, distribution, metabolism, interaction, excretion Review: Routes and principles of administration of drugs Indian pharmacopoeia: Legal issues Rational use of drugs Principles of therapeutics
II	6	<ul style="list-style-type: none"> Explain chemotherapy of specific infections and infestations and nurse's responsibilities 	<p>Chemotherapy</p> <ul style="list-style-type: none"> Pharmacology of commonly used: Penicillins, Cephalosporins, Aminoglycosides, Macrolide & Broad Spectrum Antibiotics, Sulfonamides, quinolones, Antiamoebic, antimalarials, Anthelmintics, Antiscabies agents, Antiviral & anti-fungal agents, Antitubercular drugs, Anti leprosy drugs, Anticancer drugs, Immuno-suppressants <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>
III	2	<ul style="list-style-type: none"> Describe Antiseptics, disinfectants, insecticides and nurse's responsibilities 	<p>Pharmacology of commonly used antiseptics, disinfectants and insecticides</p> <ul style="list-style-type: none"> Antiseptics: Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse Disinfectants Insecticides

Unit	Time (Hours)	Learning Objectives	Content
IV	2	<ul style="list-style-type: none"> Describe Drugs acting on Gastro Intestinal system and nurse's responsibilities 	<p>Drugs acting on G.I. system</p> <ul style="list-style-type: none"> Pharmacology of commonly used: Antiemetics, Emetics, Purgatives, Antacids, Cholinergic, Anticholinergics, Fluid and electrolyte therapy, Anti diarrhoeals, Histamines <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>
V	2	<ul style="list-style-type: none"> Describe Drugs used on Respiratory Systems and nurse's responsibilities 	<p>Drugs used on Respiratory Systems</p> <ul style="list-style-type: none"> Pharmacology of commonly used: Antiasthmatics, Mucolytics, Decongestants, Expectorants, Antitussives, Bronchodilators, Broncho constrictors, Antihistamines <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>
VI	2	<ul style="list-style-type: none"> Describe Drugs used on Urinary System and nurse's responsibilities 	<p>Drugs used on Urinary System</p> <ul style="list-style-type: none"> Pharmacology of commonly used: Diuretics and antidiuretics, Urinary antiseptics, Cholinergic and anticholinergics, Acidifiers and alkanizers <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>
VII	4	<ul style="list-style-type: none"> Describe Drugs used in de-addiction, emergency, deficiency of vitamins & minerals, poisoning, for immunization and immunosuppression and nurse's responsibilities 	<p>Miscellaneous</p> <ul style="list-style-type: none"> Drugs used in de-addiction Drugs used in CPR and emergency Vitamins and minerals Immunosuppressants Antidotes Antivenom Vaccines and sera
VIII	1	<ul style="list-style-type: none"> Describe Drugs used on skin and mucous membranes and nurse's responsibilities 	<p>Drugs used on skin and mucous membranes</p> <ul style="list-style-type: none"> Topical applications for skin, eye, ear, nose and buccal cavity Antipruritics <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>

Unit	Time (Hours)	Learning Objectives	Content
IX	8	<ul style="list-style-type: none"> Describe Drugs used on Nervous System and nurse's responsibilities. 	<p>Drugs acting on Nervous system</p> <ul style="list-style-type: none"> Basic & applied pharmacology of commonly used: Analgesics and Anaesthetics <ul style="list-style-type: none"> Analgesics: Non steroidal anti-inflammatory (NSAID) drugs, Antipyretics Hypnotics and Sedatives: Opioids, Non-Opioids, Tranquilizers, General & local anesthetics <ul style="list-style-type: none"> Gases: oxygen, nitrous oxide, carbon-dioxide Cholinergic and anti-cholinergics: Muscle relaxants, Major tranquilizers, Anti-psychotics, Antidepressants, Anticonvulsants, Adrenergics, Noradrenergics, Mood stabilizers, Acetylcholine, Stimulants <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>
X	5	<ul style="list-style-type: none"> Describe Drugs used on Cardiovascular System and nurse's responsibilities 	<p>Cardiovascular drugs</p> <ul style="list-style-type: none"> Haematinics, Cardiotonics, Anti anginals, Anti-hypertensives & Vasodilators, Anti-arrhythmics, Plasma expanders, Coagulants & anticoagulants, Antiplatelets & thrombolytics, Hypolipidemics <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>
XI	4	<ul style="list-style-type: none"> Describe drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities 	<p>Drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy</p> <ul style="list-style-type: none"> Insulins & Oral hypoglycemics, Thyroid supplements and suppressants, Steroids, Anabolics, Uterine stimulants and relaxants, Oral contraceptives, Other estrogen-progestrone preparations, Corticotrophine & Gonadotropines, Adrenaline, Prostaglandins, Calcitonins, Calcium salts, Calcium regulators <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>

Unit	Time (Hours)	Learning Objectives	Content
XII	6	<ul style="list-style-type: none">• Demonstrate awareness of the common drugs used in alternative systems of medicine	Introduction to Drugs used in alternative systems of medicine <ul style="list-style-type: none">• Ayurveda, Homeopathy, Unani and Siddha etc

- **Teaching Learning Activities:** Lecture Discussion, Drug study/presentation, Observational Visits.
- **Assessment Methods:** SAQ's, MCQ's.

PATHOLOGY & GENETICS

Time: Theory 45 hours
(Pathology 30 & Genetics 15 hrs.)

Section A: PATHOLOGY

Placement: Second Year

Time: Theory 45 hours

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

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
I	3		<ul style="list-style-type: none"> • Define common terms used in pathology. • Appreciate the deviations from normal to abnormal structure and functions of the body system. 	<ul style="list-style-type: none"> • Introduction <ul style="list-style-type: none"> □ Importance of the study of pathology, Definition of terms, Methods and techniques □ Cellular and Tissue changes □ Infiltration and regeneration □ Inflammations and Infections, Wound healing, Vascular changes • Cellular growth, Neoplasms: Normal and Cancer cell, Benign and Malignant growths, In situ carcinoma • Disturbances of fluid and electrolyte balance
II	10	5	<ul style="list-style-type: none"> • Explain Pathological changes in disease conditions of various systems 	<p>Special pathology</p> <ul style="list-style-type: none"> • Pathological changes in disease conditions of various systems: <ul style="list-style-type: none"> □ Respiratory tract: Tuberculosis, Bronchitis, Pleural effusion and pneumonia, Lung abscess, emphysema, bronchiectasis, Bronchial asthma, Chronic obstructive Pulmonary disease & tumours • Cardio-vascular system: Pericardial effusion, Rheumatic heart disease, Infective endocarditis, atherosclerosis, Ischemia, infarction & aneurysm • Gastro Intestinal Tract: Peptic ulcer, typhoid, Carcinoma of GI tract—buccal, Esophageal, Gastric & intestinal • Liver, Gall bladder & pancreas: Hepatitis, Chronic liver abscess, cirrhosis, Tumours of liver, gall bladder and pancreas, Cholecystitis

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
				<ul style="list-style-type: none"> • Kidneys & Urinary tract: Glomerulonephritis, pyelonephritis, Calculi, renal failure, renal carcinoma & cystitis • Male genital systems: Cryptorchidism, testicular atrophy, Prostatic hyperplasia, carcinoma Penis & prostate • Female genital system: Fibroids, Carcinoma cervix and Endometrium, Vesicular mole, choriocarcinoma, Ectopic gestation, Ovarian cyst & tumours, Cancer Breast • Central Nervous system: Hydrocephalus, Meningitis, encephalitis, Vascular disorders—thrombosis, embolism, Stroke, paraplegia, quadriplegia, Tumours, meningiomas—gliomas, Metastatic tumour • Skeletal system: Bone healing, osteoporosis, osteomyelitis, Arthritis & tumours
III	4	3	<ul style="list-style-type: none"> • Describe various laboratory tests in assessment and monitoring of disease conditions 	<p>Clinical pathology</p> <ul style="list-style-type: none"> • Various blood and bone marrow tests in assessment and monitoring of disease conditions • Hemoglobin, RBC, White cell & platelet counts, Bleeding time, clotting time and prothrombine time, Blood grouping and cross matching • Blood chemistry • Blood culture • Serological and immunological tests • Other blood tests • Examination of Bone marrow • Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values
IV	2	1	<ul style="list-style-type: none"> • Describe laboratory tests for examination of body cavity fluids, transudates and exudates 	<p>Examination of body cavity fluids, transudates and exudates</p> <ul style="list-style-type: none"> • The laboratories tests used in CSF analysis • Examination of other body cavity fluids, transudates and exudates—sputum, wound discharge etc

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
				<ul style="list-style-type: none"> • Analysis of gastric and duodenal contents • Analysis of semen-sperm count, motility and morphology and their importance in infertility • Methods of collection of CSF and other cavity fluids specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values
V	1	1	<ul style="list-style-type: none"> • Describe the laboratory tests for examination of Urine and faeces 	<p>Urine and faeces</p> <ul style="list-style-type: none"> • Urine: Physical characteristics, Analysis, Culture and sensitivity • Faeces: Characteristics, Stool examination: occult blood, ova, parasite and cyst, reducing substance etc • Methods of collection for various tests, inference and normal values

- **Teaching Learning Activities:** Lecture Discussion, Demonstration, Explain using Charts, slides, specimen, X-rays and Scans Visit to Pathology lab, endoscopy unit and OT, Clinical Pathology & Bio-Chemistry lab and Blood bank.
- **Assessment Methods:** SAQ's, MCQ's.

Section B: GENETICS

Placement: Second Year

Time: Theory 15 hours

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

Unit	Time (Hours)	Learning Objectives	Content
I	3	<ul style="list-style-type: none"> • Explain nature, principles and perspectives of heredity 	<p>Introduction</p> <ul style="list-style-type: none"> • Practical application of genetics in Nursing • Impact of genetic condition on families • Review of cellular division mitosis and meiosis, Characteristics and structure of genes • Chromosomes—sex determination, Chromosomal aberrations

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> • Patterns of inheritance: Mendelian theory of inheritance, Multiple alleles and blood groups, Sex linked inheritance, Mechanism of inheritance, Errors in transmission (Mutation)
II	3	<ul style="list-style-type: none"> • Explain maternal, prenatal and genetic influences on development of defects and diseases 	<p>Maternal, prenatal and genetic influences on development of defects and diseases</p> <ul style="list-style-type: none"> • Conditions affecting the mother: genetic and infections, Consanguinity, atopy, Prenatal nutrition and food allergies, Maternal Age, Maternal drug therapy, Prenatal testing and diagnosis, Effect of Radiation, drugs and chemicals, Infertility, Spontaneous abortion, Neural Tube Defects and the role of folic acid in lowering the risks, Down syndrome (Trisomy 21)
III	2	<ul style="list-style-type: none"> • Explain the screening methods for genetic defects and diseases in neonates and children 	<p>Genetic testing in the neonates and children</p> <ul style="list-style-type: none"> • Screening for Congenital abnormalities, Developmental delay, Dysmorphism
IV	2	<ul style="list-style-type: none"> • Identify genetic disorders in adolescents and adults 	<p>Genetic conditions of adolescents and adults</p> <ul style="list-style-type: none"> • Cancer genetics—Familial Cancer, Inborn errors of metabolism, Blood group alleles and haematological disorder, Genetic haemochromatosis, Huntington's disease, Mental illness
V	5	<ul style="list-style-type: none"> • Describe the role of nurse in genetic services and counselling 	<p>Services related to Genetics</p> <ul style="list-style-type: none"> • Genetic testing • Human genome project • Gene therapy • The Eugenics movement • Genetic Counseling Legal and Ethical issues Role of nurse

- **Teaching Learning Activities:** Lecture Discussion, Demonstration, Explain using Charts & slides, specimen, X-rays and Scans Visit to Pathology lab, endoscopy unit and OT, Clinical Pathology & Bio-Chemistry lab and Blood bank.
- **Assessment Methods:** SAQ's, MCQ's.

MEDICAL SURGICAL NURSING (ADULT INCLUDING GERIATRICS)-I

Placement: Second Year

Time: Theory 210 hours

Practical: 720 hours

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

Unit	Time (Hours)	Learning Objectives	Content
I	15	<ul style="list-style-type: none"> • Appreciate trends in medical and surgical nursing • Describe the role of a nurse in caring for adult patient in hospital and community • Describe the concepts of Medical Surgical asepsis 	<p>Introduction</p> <ul style="list-style-type: none"> • Introduction to medical surgical nursing- Evolution and trends of medical and surgical nursing • Review of Concepts of Health and illness Disease-concepts, causations, classification- International Classification Diseases (ICD-10 or later version), Acute illness Chronic illness & Terminal illness, stages of illness • Review of concepts of comprehensive nursing care in medical surgical conditions based on nursing process. • Role of Nurse, patient and family in care of adult patient • Role and responsibilities of a nurse in medical surgical settings: Outpatient department, In-patient unit, Intensive care unit, Home and Community settings • Introduction to Medical Surgical asepsis: Inflammation and Infection, Immunity, Wound healing <ul style="list-style-type: none"> □ Care of Surgical Patient: Pre-operative, Intra operative, Post Operative
II	15	<ul style="list-style-type: none"> • Describe common signs, symptoms, problems and their specific nursing interventions 	<p>Common signs and symptoms and management</p> <ul style="list-style-type: none"> • Fluid and electrolyte imbalance, Vomiting, Dyspnea and cough, respiratory obstruction, Fever, Shock, Unconsciousness, Syncope, Pain, Incontinence, Edema • Age related problems- geriatric considerations

Unit	Time (Hours)	Learning Objectives	Content
III	20	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of respiratory systems 	<p>Nursing management of patients (adults including elderly) with respiratory problems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of respiratory system, • Nursing Assessment-History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of adults including elderly with- Upper Respiratory tract infections, Bronchitis, Asthma, Emphysema, Empyema, Atelectasis, Chronic Obstructive Pulmonary Diseases (COPD), Bronchiectasis, Pneumonia, Pulmonary tuberculosis, Lung abscess, Pleural effusion, Cysts and Tumours, Chest injuries, Respiratory arrest and insufficiency, Pulmonary embolism <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of respiratory disorders</p>
IV	30	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of digestive systems 	<p>Nursing management of patient (adults including elderly) with disorders of digestive system</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of digestive system • Nursing Assessment-History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management in disorders of: <ul style="list-style-type: none"> □ Oral cavity-lips, gums, tongue, salivary glands and teeth □ Oesophagus-inflammation, stricture, obstruction, bleeding and tumours □ Stomach and duodenum-hiatus hernia, gastritis, peptic and duodenal ulcer, bleeding, tumours, pyloric stenosis

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> □ Small intestinal disorders-inflammation and infection, enteritis, malabsorption, obstruction, tumour and perforation □ Large intestinal disorders-Colitis, inflammation and infection, obstruction and tumour and lump □ Hernias □ Appendix-inflammation, mass, abscess, rupture □ Anal & Rectum; hemorrhoids, fissures, Fistulas □ Peritonitis/acute abdomen □ Pancreas; inflammation, cyst, abscess and tumours □ Liver; inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours □ Gall Bladder; inflammation, obstruction, stones and tumours <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of digestive system</p>
V	30	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with blood and cardio vascular problems • Describes the vascular conditions and their nursing management 	<p>Nursing management of patient (adults including elderly) with blood and cardio vascular problems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of blood and cardio vascular system, • Nursing Assessment-History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of- • Vascular system: Hypertension, Hypotension, Artherosclerosis, Raynaud's disease, Aneurism and Perpherial vascular disorders <p>Heart</p> <ul style="list-style-type: none"> • Coronary artery diseases: Ischemic Heart Disease, Cornory atherosclerosis, Angina pectoris, Myocardial infarction

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> • Valvular disorders of the heart: Congenital and acquired, Rheumatic Heart diseases, Endocarditis, Pericarditis, Myocarditis, Cardio Myopathies, Cardiac dysrhythmias, Heart Block • Congestive cardiac failure, Cor-pulmonale, pulmonary edema, cardiogenic shock, cardiac tamponade • Cardiac emergencies and arrest, Cardio Pulmonary Resuscitation (CPR) • Blood: Anaemias, Polycythemia, Bleeding disorders; clotting factor defects and platelets defects, Thalassemia, Leukaemias, Leukopenias and agranulocytosis ,Lymphomas, Myelomas • Special therapies: Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion. Management and counseling of blood donors, phlebotomy procedure, and post donation management. Blood bank functioning and hospital transfusion committee. Bio-safety and waste management in relation to blood transfusion • Role of a nurse in Organ donation, retrieval and banking <p>Alternative therapies Nursing procedures Drugs used in treatment of blood and cardio vascular disorders</p>
VI	10	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of genito-urinary system 	<p>Nursing management of patient (adults including elderly) with genito-urinary problems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of genito-urinary system • Nursing Assessment-History and Physical assessment

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of: Nephritis, Nephrotic syndrome, Nephrosis, Renal calculus, Tumours, Acute renal failure, Chronic renal failure, End stage renal disease, Dialysis, renal transplant, Congenital disorders, urinary infections, Benign prostate hypertrophy, Disorders of ureter, urinary bladder and urethra-inflammation, infection, stricture, obstruction, tumour, prostate <p>Special therapies, alternative therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of genito-urinary disorders</p>
VII	5	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of male reproductive system 	<p>Nursing management of disorders of male(adults including elderly) reproductive system</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of male reproductive system • Nursing Assessment-History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of male reproductive system: Congenital malformations; cryptorchidism, Hypospadiasis, Epispadiasis, Infections, Testis and adjacent structures, Penis, Prostate: inflammation, infection, hypertrophy, tumour, Sexual Dysfunction, Infertility, Contraception, Breast: gynecomastia, tumour, Climacteric changes <p>Special therapies, alternative therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of disorders of male reproductive system</p>

Unit	Time (Hours)	Learning Objectives	Content
VIII	10	<ul style="list-style-type: none"> Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of endocrine system 	<p>Nursing management of patient (adults including elderly) with disorders of endocrine system</p> <ul style="list-style-type: none"> Review of anatomy and physiology of endocrine system Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of: Disorders of Thyroid and Parathyroid, Diabetes mellitus, Diabetes insipidu, Adrenal tumour, Pituitary disorders <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of endocrine system</p>
IX	10	<ul style="list-style-type: none"> Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of Skin 	<p>Nursing management of patient (adults including elderly) with disorders of Integumentary system</p> <ul style="list-style-type: none"> Review of anatomy and physiology of Skin and its appendages Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of skin and its appendages: Lesions and abrasions, Infection and infestations, Dermatitis, Dermatoses, infectious and Non infectious inflammatory dermatoses, Acne Vulgaris, Allergies and Eczema, Psoriasis, Malignant melanoma, Alopecia <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of Integumentary system</p>

Unit	Time (Hours)	Learning Objectives	Content
X	15	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of musculoskeletal system 	<p>Nursing management of patient (adults including elderly) with musculoskeletal problems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of musculoskeletal system • Nursing Assessment-History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of: Muscles, Ligaments and Joints-inflammation, infection, trauma, Bones-inflammation, infection, dislocation, fracture, tumour and trauma, Osteomalacia and osteoporosis, Arthritis, Congenital deformities, Spinal column- defects and deformities, Tumor, Prolapsed inter vertebral disc, Pott's spine, Paget's disease, Amputation, Prosthesis, Transplant & replacement surgeries, Rehabilitation. <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of musculoskeletal system</p>
XI	10	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of Immunological system 	<p>Nursing management of patient (adults including elderly) with Immunological problems</p> <ul style="list-style-type: none"> • Review of Immune system, • Nursing Assessment-History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of Immunodeficiency disorder: Primary immuno deficiency, Phagocytic dysfunction, B-cell and T-cell deficiencies, Secondary immunodeficiencies,

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> • Acquired immunodeficiency syndrome (AIDS): Incidence, Epidemiology, Transmission-Prevention of Transmission, Standard Safety precautions, Role of Nurse, Counseling, Health education and home care considerations, National AIDS Control Program- NACO, various national and international agencies, Infection control program, Rehabilitation. <p>Special therapies, alternative therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of disorders of immunological system</p>
XII	20	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with Communicable Diseases. 	<p>Nursing management of patient (adults including elderly) with Communicable Diseases</p> <ul style="list-style-type: none"> • Overview of infectious disease, the infectious process • Nursing Assessment-History and Physical assessment • Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention and detection. Control and eradication of common Communicable Diseases: Tuberculosis, diarrhoeal diseases, hepatitis A-E, herpes, chickenpox, smallpox, typhoid, meningitis, gas gangrene, leprosy, Dengue, Plague, Malaria, Diphtheria, Pertussis, Poliomyelitis, Measles, Mumps, Influenza, Tetanus, Yellow fever, Filariasis, HIV/AIDS, Reproductive Tract Infections • Special Infection control measures: Notification, Isolation, Quarantine, Immunization, Infectious Disease Hospitals <p>Special therapies, alternative therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of Communicable diseases</p>

Unit	Time (Hours)	Learning Objectives	Content
XIII	25	<ul style="list-style-type: none"> • Describe the Organisation and physical set up of operation theatre • Identify various instruments and equipments used for common surgical procedures • Describe infection control measures in the Operation theatre • Describe the role of the nurse in the Peri Operative nursing care 	<p>Peri operative nursing</p> <ul style="list-style-type: none"> • Organisation and Physical set up of the Operation Theatre (OT): Classifications, O.T. DESIGN, Staffing, Members of the OT team, Duties and responsibilities of nurse in O.T., Principles of Health and operating room attire, Instruments, Sutures and suture materials, Equipments, O.T. tables and sets for common surgical procedures, Positions and draping for common surgical procedures, Scrubbing procedures, Gowning and gloving, Preparation of O.T. Set, Monitoring the patient during surgical procedures, Maintenance of therapeutic environment in O.T. • Standard Safety measures: Infection control; fumigation, disinfection and sterilization, Biomedical waste management, Prevention of accidents and hazards in O.T. • Anaesthesia: Types, Methods of administration, Effects and Stages, Equipments, Drugs • Cardio Pulmonary Resuscitation (CPR) • Pain management techniques • Legal Aspects

- **Teaching learning activities:** Lecture Discussion, Demonstration, Explain using Charts, graphs, models, films, slides Practice session, Supervised clinical practice, Drug book/presentation, Case discussions/Seminar, Health education, Orientation visit to Hospital Infection Control system, Visit to blood bank, Participation in blood donation camps, Counseling.
- **Assessment Methods:** Essays, SAQ's, MCQ's, Assessment of skills with check list, Assessment of patient management problem.

COMMUNITY HEALTH NURSING-I

Placement: Second Year

Time: Theory 90 hours

Practical: 135 hours

Course Description: This course is designed for students to appreciate the principles of promotion and maintenance of health.

Unit	Time (Hours)	Learning Objectives	Content
I	2	<ul style="list-style-type: none"> Describe concept and dimensions of health 	<p>Introduction</p> <ul style="list-style-type: none"> Community health nursing Definition, concept and dimensions of health Promotion of health Maintenance of health
II	20	<ul style="list-style-type: none"> Describe determinants of health 	<p>Determinants of health</p> <ul style="list-style-type: none"> Eugenics Environment: Physical: Air, light, Ventilation, Water, Housing, Sanitation, disposal of waste, disposal of dead bodies, Forestation, Noise, Climate, Communication: infrastructure facilities and Linkages Acts regulating the environment: National Pollution control board Bacterial & viral agents, host, carriers and immunity, Arthropods and Rodents Food hygiene: Production, Preservation, Purchase, Preparation, Consumption, Acts regulating food hygiene-Prevention of food adulteration act, Drugs and cosmetic act Socio-cultural, Customs, taboos, Marriage system, Family structure, Status of special groups, Females, Children, Elderly, challenged groups and Sick persons, Life Style, Hygiene Physical activity: Recreation and sleep, Sexual life, Spiritual life philosophy, Self reliance, Dietary pattern, Education, Occupation Financial Management: Income, Budget, Purchasing power, Security

Unit	Time (Hours)	Learning Objectives	Content
III	10	<ul style="list-style-type: none"> • Describe concept, scope, uses methods and approaches of epidemiology 	<p>Epidemiology</p> <ul style="list-style-type: none"> • Definition, concept, aims, scope, uses and terminology used in epidemiology • Dynamics of disease transmission: epidemiological triad • Morbidity and mortality: measurements • Levels of prevention • Methods of epidemiology: Descriptive, Analytical: Epidemic investigation, Experimental
IV	25	<ul style="list-style-type: none"> • Describe Epidemiology and nursing management of common Communicable diseases 	<p>Epidemiology and nursing management of common Communicable Diseases</p> <ul style="list-style-type: none"> • Respiratory infections: Small Pox, Chicken Pox, Measles, Influenza, Rubella, ARI's & Pneumonia, Mumps, Diphtheria, Whooping cough, Meningococcal meningitis, Tuberculosis, SARS • Intestinal Infections: Poliomyelitis, Viral Hepatitis, Cholera, Diarrhoeal diseases, Typhoid Fever, Food poisoning, Amoebiasis, Hook worm infection, Ascariasis, Dracunculiasis • Arthropod infections: Dengue, Malaria, Filariasis, Zoonoses • Viral: Rabies, Yellow fever, Japanese encephalitis, Kyasnur Forest Disease • Bacterial: Brucellosis, Plague, Human Salmonellosis, Anthrax, Leptospirosis • Rickettsial diseases: Rickettsial Zoonoses, Scrub typhus, Murine typhus, Tick typhus, Q fever • Parasitic zoonoses: Taeniasis, Hydatid disease, Leishmaniasis • Surface infection: Trachoma, Tetanus, Leprosy, STD & RTI, Yaws • HIV/AIDS • Any other

Unit	Time (Hours)	Learning Objectives	Content
V	10	<ul style="list-style-type: none"> Describe Epidemiology and nursing management of common Non-communicable diseases 	<p>Epidemiology and Nursing management of Non-communicable diseases</p> <ul style="list-style-type: none"> Malnutrition: under nutrition, over nutrition, nutritional deficiencies, Anaemia, Obesity, Iodine Deficiency, Fluorosis Hypertension, Stroke, Rheumatic Heart Disease, Coronary Heart Disease Cancer, Diabetes mellitus, Blindness, Accidents, Mental illness, Epilepsy
VI	6	<ul style="list-style-type: none"> Describe the concepts and scope of demography Describe methods of data collection, analysis and interpretation of demographic data 	<p>Demography</p> <ul style="list-style-type: none"> Definition, concept and scope Methods of collection, analysis and interpretation of demographic data- Demographic rates and ratios
VII	17	<ul style="list-style-type: none"> Identify the impact of population explosion in India Describe methods of population control 	<p>Population and its control</p> <ul style="list-style-type: none"> Population explosion and its impact on social, economic development of individual, society and country Population control: Overall development: Women empowerment, social, economic and educational development Limiting family size: Promotion of small family norm, <ul style="list-style-type: none"> □ Methods: spacing (natural, biological, chemical, mechanical methods etc) □ Terminal: surgical methods □ Emergency contraception

- Teaching Learning Methods:** Lecture discussion, Seminar, explain using Charts, graphs, Models, films, slides, Demonstration, Practice session, Supervised field practice-health centers, clinics and homes, Counseling, Community identification survey, Population survey, Group projects/ Health education Visits to water supply, sewage disposal, milk plants, slaughter house etc.
- Assessment Method:** Essays, SAQ's, MCQ's, Assessment of Survey report.

COMMUNICATION & EDUCATIONAL TECHNOLOGY

Placement: Second Year

Time: Theory 90 hours

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

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
I	5		<ul style="list-style-type: none"> Describe the communication process Identify techniques of effective communication 	Review of Communication Process <ul style="list-style-type: none"> Communication process: elements and channels, Facilitators, Barriers and methods of overcoming Techniques
II	5		<ul style="list-style-type: none"> Establish effective inter-personal relations with patients, families & co-workers 	Interpersonal relations <ul style="list-style-type: none"> Purpose & types, Phases Barriers & methods of overcoming Johari Window
III	5		<ul style="list-style-type: none"> Develop effective human relations in context of nursing 	Human relations <ul style="list-style-type: none"> Understanding self Social behavior, motivation, social attitudes Individual and groups, Groups & individual Human relations in context of nursing Group dynamics, Team work
IV	10	5	<ul style="list-style-type: none"> Develop basic skill of counseling and guidance 	Guidance & counseling <ul style="list-style-type: none"> Definition, Purpose, scope and need, Basic principles Organization of counseling services, Types of counseling approaches, Role and preparation of counselor, Issues for counseling in nursing: students and practitioners Counseling process—steps & techniques, tools of counselor Managing disciplinary problems Management of crisis & referral

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
V	5		<ul style="list-style-type: none"> Describe the philosophy & principles of education Explain the teaching learning process 	<p>Principles of education & teaching learning process</p> <ul style="list-style-type: none"> Education: meaning, philosophy, aims, functions & principles Nature and characteristics of learning, Principles and maxims of teaching, Formulating objectives: general and specific Lesson planning Classroom management
VI	10	10	<ul style="list-style-type: none"> Demonstrate teaching skill using various teaching methods in clinical, classroom and community settings 	<p>Methods of teaching</p> <ul style="list-style-type: none"> Lecture, demonstration, group discussion, seminar, symposium, panel discussion, role play, project, field trip, workshop, exhibition, programmed instruction, computer assisted learning, micro teaching problem based learning, Self instructional module and simulation etc. Clinical teaching methods: case method, nursing round & reports, bedside clinic, conference (individual & group) process recording
VII	10	8	<ul style="list-style-type: none"> Prepare and use different types of educational media effectively 	<p>Educational media</p> <ul style="list-style-type: none"> Purposes & types of A.V. Aids, principles and sources etc Graphic aids: chalk board, chart, graph, poster, flash cards, flannel graph, bulletin, cartoon Three dimensional aids: objects, specimens, models, puppets Printed aids: pamphlets & leaflets Projected aids: slides, overhead projector, films, TV, VCR/VCD, camera, microscope, LCD Audio aids: tape recorder, public address system Computer

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
VIII	5	7	<ul style="list-style-type: none"> Prepare different types of questions for assessment of knowledge, skills and attitudes 	<p>Assessment</p> <ul style="list-style-type: none"> Purpose & scope of evaluation & assessment Criteria for selection of assessment techniques and methods Assessment of knowledge: essay type questions, Short answer questions (SAQ), Multiple choice questions (MCQ) Assessment of skills: observation checklist, practical exam, Viva, Objective structured clinical examination (OSCE) Assessment of Attitudes: Attitude scales
IX	5		<ul style="list-style-type: none"> Teach individuals, groups and communities about health with their active participation 	<p>Information, Education & communication for health (IEC)</p> <ul style="list-style-type: none"> Health behavior & health education Planning for health education Health education with individuals, groups & communities Communicating health messages Methods & media for communicating health messages Using mass media

- Teaching Learning Activities:** Lecture Discussion, Role Plays, Sociometry, Group games, Psychometric exercises followed by discussion, Exercises with audio/video tapes, Process recording Role play on counseling in different situations followed by discussion, Micro teaching, Exercise on writing objectives, lesson planning, Conduct 5 teaching sessions using different methods & media, Exercise on writing different types of assessment tools, Plan & conduct health education sessions for individuals, group & communities, Prepare different teaching aids –projected & non projected
- Assessment Methods:** SAQ's, MCQ's, Respond to critical incidents, Assess performance in role play situations, Assess teaching sessions, teaching aids prepared, planning & conduct of the educational session strategies used in practice teaching sessions and exercise sessions

SOCIOLOGY

Placement: Second Year

Time: Theory 60 hours

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

Unit	Time (Hours)	Learning Objectives	Topic
I	1	<ul style="list-style-type: none"> State the importance of sociology in Nursing 	Introduction <ul style="list-style-type: none"> Definition of Sociology Nature and Scope of the discipline Importance and application of Sociology in Nursing
II	3	<ul style="list-style-type: none"> Describe the inter-relationship of individual in society and community 	Individual And Society <ul style="list-style-type: none"> Society and Community Nature of Society Difference between Society and Community Process of Socialisation and individualization Personal disorganization
III	3	<ul style="list-style-type: none"> Describe the influence of culture and on health and disease 	Culture <ul style="list-style-type: none"> Nature of culture, Evolution of culture, Diversity and uniformity of culture, Culture and socialization, Transcultural society Influence on health and disease
IV	4	<ul style="list-style-type: none"> Identify various social groups and their interactions 	Social groups and Processes <ul style="list-style-type: none"> The meaning and classification of groups Primary & Secondary Group, In-group V/s. Out-group, Class Tribe, Caste, Economic, Political, Religious groups, Mob, Crowd, Public and Audience Interaction & Social Processes, Co-operation, Competition, Conflict Accommodation, Assimilation & Isolation
V	6	<ul style="list-style-type: none"> Describe the types of communities in India, their practices and the impact on health 	Types of Communities in India (Rural, Urban and Regional) <ul style="list-style-type: none"> Features of village community & Characteristics of Indian villages-Panchayat system, social dynamics Community Development project & planning

Unit	Time (Hours)	Learning Objectives	Topic
			<ul style="list-style-type: none"> • Changes in Indian Rural Life • Availability of health facilities in rural and its impact on health and health practices • Urban–Community–features • The growth of cities: Urbanization and its impact on health and health practices • Major Urban problems-Urban Slums • Region: Problems and impact on Health
VI	4	<ul style="list-style-type: none"> • Explain the process of Social Change 	<p>Social Change</p> <ul style="list-style-type: none"> • Nature and process of Social Change • Factors influencing Social change: cultural change, Cultural lag. • Introduction to Theories of social change: Linear, Cyclical, Marxian, Functional <p>Role of nurse-Change agents</p>
VII	4	<ul style="list-style-type: none"> • Describe the Social system and inter-relationship of social organizations 	<p>Social organization and social system</p> <ul style="list-style-type: none"> • Social organization: elements, types • Democratic and authoritarian modes of participation, • Voluntary associations • Social system: Definition and Types of social system • Role and Status as structural elements of social system • Inter-relationship of institutions
VIII	2	<ul style="list-style-type: none"> • Explain the nature and process of social control 	<p>Social Control</p> <ul style="list-style-type: none"> • Nature and process of social control • Political, Legal, Religious, Educational, Economic, Industrial and Technological systems, Norms & Values-Folkways & Mores <p>Customs, Laws and fashion</p> <p>Role of nurse</p>

Unit	Time (Hours)	Learning Objectives	Topic
IX	15	<ul style="list-style-type: none"> • Describe the role of the nurse in dealing with social problems in India 	<p>Social Problems</p> <ul style="list-style-type: none"> • Social disorganization • Control & planning: poverty, housing, illiteracy, food supplies, prostitution, rights of women & children, vulnerable groups: Elderly, handicapped, minority groups and other marginalized groups, child labor, child abuse, delinquency and crime, substance abuse, HIV/AIDS. • Social Welfare programs in India <p>Role of nurse</p>

- **Teaching Learning Activities:** Lecture Discussion, Panel Discussion, Community identification, Family Case study, Community survey, Visits to rural and urban community, Observation visits, Institutional visits
- **Assessment Methods:** Essays, SAQ's, Assessment of report on community identification, family case study, community survey, Observation visits reports

MEDICAL SURGICAL NURSING (ADULT INCLUDING GERIATRICS)-II

Placement: Third Year

Time: Theory 120 hours

Practical: 460 hours

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

Unit	Time (Hours)	Learning Objectives	Content
I	15	<ul style="list-style-type: none"> Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients with disorders of Ear, Nose and Throat 	<p>Nursing management of patient with disorders of Ear, Nose and Throat</p> <ul style="list-style-type: none"> Review of anatomy and physiology of the Ear, Nose and Throat- Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of Ear, Nose and Throat disorders: External ear: deformities otalgia, foreign bodies, and tumours, Middle Ear-Impacted wax, Tympanic membrane perforation, otitis media, otosclerosis, mastoiditis, tumours, Inner ear-Meniere's Disease, labyrinthitis, ototoxicity, tumours, Upper airway infections-Common cold, sinusitis, <i>ethinitis</i>, rhinitis, pharyngitis, tonsilitis and adenoiditis, peritonsillar abscess, laryngitis, Upper respiratory airway-epistaxis, Nasal obstruction, laryngeal obstruction, cancer of the larynx, Cancer of the oral cavity, Speech defects and speech therapy, Deafness-Prevention, control and rehabilitation, Hearing Aids, implanted hearing devices, Special therapies <p>Nursing procedures</p> <p>Drugs used in treatment of disorders of Ear Nose and Throat</p> <p>Role of nurse Communicating with hearing impaired and muteness</p>

Unit	Time (Hours)	Learning Objectives	Content
II	15	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients with disorders of eye. 	<p>Nursing management of patient with disorders of eye</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of the eye- • Nursing Assessment-History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of eye disorders: Refractive errors, Eyelids-infection, tumors and deformities, Conjunctiva-inflammation and infection, bleeding, Cornea-inflammation and infection, Lens-Cataracts, Glaucoma, Disorder of the <i>uveal</i> tract, Ocular tumors, Disorders of posterior chamber and retina: Retinal and vitreous problems, Retinal detachment, Ocular emergencies and their prevention • Blindness, National blindness control program, Eye Banking, Eye prostheses and Rehabilitation Role of a nurse-Communication with visually impaired patient, Eye camps <p>Special therapies Nursing procedures Drugs used in treatment of disorders of eye</p>
III	16	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and nursing management of patients with neurological disorders 	<p>Nursing management of patient with neurological disorders</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of the neurological system • Nursing Assessment-History and Physical and neurological assessment and Glasgow coma scale • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of neurological disorders: Congenital malformations, Headache, Head Injuries, Spinal Injuries: Paraplegia, Hemiplegia, Quadraplegia, Spinal cord compression- herniation of

Unit	Time (Hours)	Learning Objectives	Content
			<p>intervertebral disc, Tumors of the brain & spinal cord, Intra cranial and cerebral aneurysms, Infections: Meningitis, Encephalitis, Brain abscess, neurocysticercosis, Movement disorders-Chorea, Seizures, Epilepsies, Cerebro Vascular Accidents (CVA), Cranial, Spinal Neuropathies–Bell’s palsy, trigeminal neuralgia, Peripheral Neuropathies; Guillain-Barr’e Syndrome, Myasthenia gravis, Multiple sclerosis, Degenerative diseases: Delirium, Dementia, Alzheimer’s disease, Parkinson’s disease</p> <ul style="list-style-type: none"> • Management of unconscious patients and patients with stroke • Role of the nurse in communicating with patient having neurological deficit • Rehabilitation of patients with neurological deficit Role of nurse in long stay facility (institutions) and at home <p>Special therapies Nursing procedures Drugs used in treatment of neurological disorders</p>
IV	16	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and nursing management of patients with disorders of female reproductive system • Describe concepts of reproductive health and family welfare programme 	<p>Nursing management of patients with disorders of female reproductive system</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of the female reproductive system • Nursing Assessment-History and Physical assessment, Breast Self Examination, Sexuality and Reproductive Health, Sexual Health Assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of disorder of female reproductive system: Congenital abnormalities of female reproductive system: Menstrual Disorders; Dysmenorrhea, Amenorrhea, Premenstrual Syndrome, Abnormal Uterine Bleeding:

Unit	Time (Hours)	Learning Objectives	Content
			<p>Menorrhagia, Metrorrhagia, Pelvic Inflammatory Disease, Ovarian and fallopian tube disorders: infections, cysts, tumours, Uterine and cervical disorders: Endometriosis, polyps, Fibroids, Cervical and uterine tumours, uterine displacement, Cystocele/Urethrocele/ Rectocele, Vaginal disorders: Infections and Discharges, Fistulas, Vulvur disorders: Infections, cysts, tumours, Diseases of breasts: Deformities, Infections, Cysts and Tumours, Menopause and Hormonal Replacement Therapy, Infertility, Abortion -Natural, Medical and surgical abortion–MTP Act, Toxic Shock Syndrome, Injuries and Trauma: Sexual violence</p> <ul style="list-style-type: none"> • Contraception; Types Methods, Risk and effectiveness: Spacing Methods: Barrier methods, Intra Uterine Devices, Hormonal, Post Conceptional Methods, etc., Terminal methods: Sterilization, Emergency Contraception methods, National family welfare programme <p>Special therapies Nursing procedures Drugs used in treatment of gynaecological disorders</p>
V	10	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and nursing management of patients with Burns, reconstructive and cosmetic surgery 	<p>Nursing management of patients with Burns, reconstructive and cosmetic surgery</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of the skin and connective tissues and various deformities • Nursing Assessment-History and Physical assessment and Assessment of burns and fluid and electrolyte loss • Etiology, Classification, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of Burns and Re-constructive and Cosmetic surgery

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> • Types of Re-constructive and Cosmetic surgery: for burns, congenital deformities, injuries and cosmetic purposes • Role of Nurse • Legal aspects • Rehabilitation • Special therapies: Psycho social aspects <p>Nursing procedures Drugs used in treatment of Burns, reconstructive and cosmetic surgery</p>
VI	10	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and nursing management of patients with oncology 	<p>Nursing management of patients with oncological conditions</p> <ul style="list-style-type: none"> • Structure & characteristics of normal & cancer cells • Nursing Assessment-History and Physical assessment • Prevention, Screening, Early detection, Warning signs of cancer • Epidemiology, Etiology, Classification, Pathophysiology, Staging, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of oncological conditions • Common malignancies of various body systems; Oral, larynx, lung, Stomach and Colon, Liver, Leukemias and lymphomas, Breast, Cervix, Ovary, Uterus, Sarcoma, Brain, Renal, Bladder, Prostate etc • Oncological emergencies • Modalities of treatment: Immunotherapy, Chemotherapy, Radiotherapy, Surgical Interventions, Stem cell and Bone marrow transplants, Gene therapy, Other forms of treatment • Psychosocial aspects of cancer, Rehabilitation • Palliative care; Symptom and Pain Management, Nutritional support • Home care, Hospice care • Special therapies, Stomal Therapy: Psycho social aspects • Nursing procedures

Unit	Time (Hours)	Learning Objectives	Content
VII	10	<ul style="list-style-type: none"> • Describe organization of emergency and disaster care services • Describe the role of nurse in disaster management • Describe the role of nurse in management of common Emergencies 	<p>Nursing management of patient in EMERGENCY & DISASTER situations</p> <p>Disaster Nursing: Concepts and principles of Disaster Nursing</p> <ul style="list-style-type: none"> • Causes and Types of Disaster: Natural and Man-made: Earthquakes, Floods, Epidemics, Cyclones, Fire, Explosion, Accidents, Violence, Terrorism; bio-chemical, War • Policies related to emergency/disaster management: International, national, state, institutional • Disaster preparedness: Team, Guidelines, protocols, Equipments, Resources, Coordination and involvement of: Community, various govt. departments, non-govt. organizations and International agencies • Role of nurse, Legal Aspects of Disaster Nursing • Impact on Health and after effects: Post Traumatic Stress Disorder, Rehabilitation: physical, psycho-social, Financial, Relocation <p>Emergency Nursing</p> <ul style="list-style-type: none"> • Concept, priorities, principles and Scope of emergency nursing • Organization of emergency services: physical setup, staffing, equipment and supplies, protocols, Concepts of triage and role of triage nurse • Coordination and involvement of different departments and facilities • Nursing Assessment-History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of patient with medical and surgical Emergencies, Principles of emergency management

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> • Common Emergencies: Respiratory & Cardiac Emergencies, Shock and Haemorrhage, Pain, Poly-Trauma, road accidents, crush injuries, wound, Bites, Poisoning; Food, Gas, Drugs & chemical poisoning, Seizures, Thermal Emergencies: Heat stroke & Cold injuries, Pediatric Emergencies, Psychiatric Emergencies, Obstetrical Emergencies Violence, Abuse, Sexual assault, • Cardio Pulmonary Resuscitation, Crisis Intervention • Role of the nurse: Communication and Inter Personal Relations • Medico-Legal Aspects;
VIII	10	<ul style="list-style-type: none"> • Explain the concept and problems of aging • Describe nursing care of the elderly 	<p>Nursing care of the elderly</p> <ul style="list-style-type: none"> • Nursing Assessment-History and Physical assessment • Ageing: Demography: Myths and realities, Concepts and theories of ageing, Cognitive Aspects of Ageing, Normal biological ageing, Age related body systems changes, Psychosocial Aspects of Aging, Medications and elderly, Stress & coping in older adults, Common Health Problems & Nursing Management: Cardiovascular, Respiratory, Musculo-skeletal, Endocrine, genito-urinary, gastrointestinal, Neurological, Skin and other Sensory organs, Psychosocial and Sexual: Abuse of elderly • Role of nurse in care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual • Role of nurse for caregivers of elderly, Role of family and formal and non formal caregivers • Use of aids and prosthesis (hearing aids, dentures, etc.) • Legal & Ethical Issues • Provisions and Programs for elderly: privileges, Community Programs and health services: Home and institutional care

Unit	Time (Hours)	Learning Objectives	Content
IX	10	<ul style="list-style-type: none"> • Describe organization of critical care units • Describe the role of nurse in management of patients critical care units 	<p>Nursing management of patient in critical care units</p> <ul style="list-style-type: none"> • Nursing Assessment-History and Physical assessment • Classification • Principles of critical care nursing • Organization; Physical setup, Policies, staffing norms, • Protocols, equipment and supplies • Special equipments; ventilators, cardiac monitors, defibrillators, • Resuscitation equipments • Infection Control Protocols • Nursing management of critically ill pateint; • Monitoring of critically ill patient • CPR-Advance Cardiac Life support • Treatments and procedures. • Transitional care • Ethical and Legal Aspects • Communication with patient and family • Intensive care records • Crisis Intervention • Death and Dying-coping with • Drugs used in critical care unit
X	8	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology, clinical manifestations, assessment, diagnostic measures and management of patients with occupational and industrial health disorders 	<p>Nursing management of patients adults including elderly, with Occupational and Industrial disorders</p> <ul style="list-style-type: none"> • Nursing Assessment-History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of occupational and industrial health disorders • Role of nurse <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of Occupational and Industrial disorders</p>

- **Teaching Learning Activities:** Lecture Discussion, Demonstration, Explain using Charts, graphs, models, films, slides Practice session, Supervised clinical practice, Drug book /presentation, Case discussions/Seminar, Health education, Orientation visit to Visit to eye bank, Participation in eye-camps, visit to rehabilitation center, participate in Disaster management Drills, Visit to old age home, Role plays, Counseling.
- **Assessment Methods:** Essays, SAQ's, MCQ's, Assessment of skills with check list, Assessment of patient management problem.

CHILD HEALTH NURSING

Placement: Third Year

Time: Theory 90 hours

Course Description: This course is designed for developing an understanding of the modern approach to child-care, identification, prevention and nursing management of common health problems of neonates and children.

Unit	Time (Hours)	Learning Objectives	Content
I	15	<ul style="list-style-type: none"> • Explain the modern concept of child care & principles of child health nursing • Describe national policy, programs and legislation in relation to child health and welfare. • List major causes of death during infancy, early & late childhood • Describe the major functions and role of the pediatric nurse in caring for a hospitalized child. • Describe the principles of child health nursing 	<p>Introduction</p> <p>Modern concepts of childcare</p> <ul style="list-style-type: none"> • Internationally accepted rights of the Child • National policy and legislations in relation to child health and welfare • National programs related to child health and welfare • Agencies related to welfare services to the children • Changing trends in hospital care, preventive, promotive and curative aspects of child health. • Child morbidity and mortality rates. • Differences between an adult and child • Hospital environment for a sick child • Impact of hospitalization on the child and family. • Grief and bereavement • The role of a Child health nurse in caring for a hospitalized child • Principles of pre and post operative care of infants and children • Child health nursing procedures.
II	20	<ul style="list-style-type: none"> • Describe the normal growth & development of children at different ages • Identify the needs of children at different ages & provide parental guidance 	<p>The healthy child</p> <ul style="list-style-type: none"> • Principles of growth and development • Factors affecting growth & development • Growth and development from birth to adolescence • The needs of normal children through the stages of developmental and parental guidance • Nutritional needs of children & infants: breast feeding, exclusive breast feeding supplementary/ artificial feeding and weaning,

Unit	Time (Hours)	Learning Objectives	Content
		<ul style="list-style-type: none"> • Identify the nutritional needs of children at different ages and ways of meeting the needs • Appreciate the role of play for normal & sick children. • Appreciate the preventive measures and strategies for children 	<ul style="list-style-type: none"> • Baby friendly hospital concept • Accidents: causes and prevention • Value of play and selection of play material • Preventive immunization, immunization program and cold chain • Preventive pediatrics • Care of under five & under five clinics/well baby clinics
III	15	<ul style="list-style-type: none"> • Provide care to normal & high risk neonates • Perform neonatal resuscitation. • Recognize and manage common neonatal problems 	<p>Nursing care of a neonate</p> <ul style="list-style-type: none"> • Nursing care of a normal newborn/Essential newborn care • Neonatal resuscitation • Nursing management of a low birth weight baby. • Kangaroo mother care • Nursing management of common neonatal disorders • Organization of neonatal unit. • Identification & nursing management of common congenital malformations.
IV	10		<p>Integrated management of neonatal and childhood illnesses (IMNCI)</p>
V	20	<ul style="list-style-type: none"> • Provide nursing care in common childhood diseases • Identify measures to prevent common childhood diseases including immunization. 	<p>Nursing management in common childhood diseases</p> <ul style="list-style-type: none"> • Nutritional deficiency disorders • Respiratory disorders and infections • Gastro-intestinal infections, infestations and congenital disorders • Cardio vascular problem: congenital defects and rheumatic fever, rheumatic heart disease • Genito- urinary disorders: acute glomerulo nephritis, Nephrotic syndrome, Wilms' tumor, infection and congenital disorders.

Unit	Time (Hours)	Learning Objectives	Content
VI	10	<ul style="list-style-type: none"> • Manage the child with behavioral & social problems • Identify the social & welfare services for challenged children 	<ul style="list-style-type: none"> • Neurological infections and disorders: convulsions, epilepsy, meningitis, hydrocephalus, spina-bifida. • Hematological disorders: Anemias, thalassemia, ITP, Leukemia, hemophilia • Endocrine disorders: Juvenile Diabetes Mellitus • Orthopedic disorders: club feet, hip dislocation and fracture. • Disorders of skin, eye, and ears • Common communicable diseases in children, their identification, nursing management in hospital and home and prevention. • Child health emergencies: poisoning, foreign bodies, hemorrhage, burns and drowning. • Nursing care of infant and children with HIV/ AIDS.
			<p>Management of behavioral & social problems in children</p> <ul style="list-style-type: none"> • Management of common behavioral disorders • Management of common psychiatric problems • Management of challenged children: Mentally, Physically, & Socially challenged • Welfare services for challenged children in India. • Child guidance clinics

- **Teaching Learning Activities:** Lecture Discussion, Demonstration of common pediatric procedures, Film show on breast feeding, Developmental study of infant and children, Observation study of normal and sick child, Field visit to Anganwadi, child guidance clinic school for mentally & physically, socially challenged, Clinical practice/field, Workshop on neonatal resuscitation, Practice session, Field visits to child guidance clinics, Supervised clinical practice.
- **Assessment Methods:** SAQ's, MCQ's, Assessment of skills with checklist, Assessment of field visits and developmental study reports.

MENTAL HEALTH NURSING

Placement: Third Year

Time: Theory 90 hours

Practical: 300 hours

Course Description: This course is designed for developing an understanding of the modern approach to mental health, identification, prevention and nursing management of common mental health problems with special emphasis on therapeutic interventions for individuals, family and community.

Unit	Time (Hours)	Learning Objectives	Content
I	5	<ul style="list-style-type: none"> • Describes the historical development & current trends in mental health nursing • Describe the epidemiology of mental health problems • Describe the National Mental Health Act, programs and mental health policy • Discusses the scope of mental health nursing • Describe the concept of normal & abnormal behavior 	<p>Introduction</p> <ul style="list-style-type: none"> • Perspectives of Mental Health and Mental Health nursing: evolution of mental health services, treatments and nursing practices. • Prevalence and incidence of mental health problems and disorders. • Mental Health Act • National Mental health policy vis a vis National Health Policy • National Mental Health program • Mental health team • Nature and scope of mental health nursing • Role and functions of mental health nurse in various settings and factors affecting the level of nursing practice • Concepts of normal and abnormal behavior
II	5	<ul style="list-style-type: none"> • Defines various terms used in mental health Nursing • Explains the classification of mental disorders • Explain psycho dynamics of maladaptive behavior • Discuss the etiological factors & psychopathology of mental disorders 	<p>Principles And Concepts Of Mental Health Nursing</p> <ul style="list-style-type: none"> • Definition: mental health nursing and terminology used • Classification of mental disorders: ICD • Review of personality development, defense mechanisms • Maladaptive behavior of individuals and groups: stress, crisis and disaster(s) • Etiology: bio-psycho-social factors, Psychopathology of mental disorders: review of structure and function of brain, limbic system and abnormal neuro transmission

Unit	Time (Hours)	Learning Objectives	Content
		<ul style="list-style-type: none"> • Explain the Principles and standards of Mental health Nursing • Describe the conceptual models of mental health nursing 	<ul style="list-style-type: none"> • Principles of Mental health Nursing • Standards of Mental health Nursing practice • Conceptual models and the role of nurse: Existential Model, Psycho-analytical models, Behavioral model, Interpersonal model
III	8	<ul style="list-style-type: none"> • Describe nature, purpose and process of assessment of mental health status 	<p>Assessment of mental health status</p> <ul style="list-style-type: none"> • History taking • Mental status examination, Mini mental status examination • Neurological examination: Review • Investigations: Related Blood chemistry, EEG, CT & MRI • Psychological tests <p>Role and responsibilities of nurse</p>
IV	6	<ul style="list-style-type: none"> • Identify therapeutic communication techniques • Describe therapeutic relationship • Describe therapeutic impasse and its intervention 	<p>Therapeutic communication and nurse-patient relationship</p> <ul style="list-style-type: none"> • Therapeutic communication: Types, techniques, characteristics • Types of relationship, • Ethics and responsibilities • Elements of nurse patient contract • Review of technique of IPR-Johari Window • Goals, phases, tasks, therapeutic techniques • Therapeutic impasse and its intervention
V	14	<ul style="list-style-type: none"> • Explain treatment modalities and therapies used in mental disorders and role of the nurse 	<p>Treatment modalities and therapies used in mental disorders</p> <ul style="list-style-type: none"> • Psycho Pharmacology • Psychological therapies: Therapeutic community, psycho therapy-Individual: psycho-analytical, cognitive and supportive, Family, Group, Behavioral, Play, Psycho-drama, Music, Dance, Recreational and Light therapy, Relaxation therapies: Yoga, Meditation, bio feedback • Alternative systems of medicine • Occupational therapy

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> • Physical Therapy: electro convulsive therapy • Geriatric considerations Role of nurse in above therapies
VI	5	<ul style="list-style-type: none"> • Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with Schizophrenia, and other psychotic disorders 	Nursing management of patient with Schizophrenia, and other psychotic disorders <ul style="list-style-type: none"> • Classification: ICD • Etiology, psycho-pathology, types, clinical manifestations, diagnosis, Nursing Assessment-History, Physical and mental assessment, Treatment modalities and nursing management of patients with Schizophrenia and other psychotic disorders • Geriatric considerations • Follow-up and home care and rehabilitation
VII	5	<ul style="list-style-type: none"> • Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with mood disorders 	Nursing management of patient with mood disorders <ul style="list-style-type: none"> • Mood disorders: Bipolar affective disorder, Mania, depression and dysthymia etc • Etiology, psycho-pathology, clinical manifestations, diagnosis, Nursing Assessment-History, Physical and mental assessment, Treatment modalities and nursing management of patients with mood disorders • Geriatric considerations • Follow-up and home care and rehabilitation
VIII	8	<ul style="list-style-type: none"> • Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with neurotic, stress related and somatization disorders • Explain the Principles and standards of Mental health Nursing • Describe the conceptual models of mental health nursing 	Nursing management of patient with neurotic, stress related and somatization disorders <ul style="list-style-type: none"> • Anxiety disorder, Phobias, Dissociation and Conversion disorder, Obsessive compulsive disorder, somatoform disorders, Post traumatic stress disorder • Etiology, psycho-pathology, clinical manifestations, diagnosis, Nursing Assessment-History, Physical and mental assessment, Treatment modalities and nursing management of patients with neurotic, stress related and somatization disorders • Geriatric considerations • Follow-up and home care and rehabilitation

Unit	Time (Hours)	Learning Objectives	Content
IX	5	<ul style="list-style-type: none"> • Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with substance use disorders 	<p>Nursing management of patient with Substance use disorders</p> <ul style="list-style-type: none"> • Commonly used psychotropic substance: Classification, forms, routes, action, intoxication and withdrawal • Etiology of dependence: tolerance, psychological and physical dependence, withdrawal syndrome, diagnosis, • Nursing Assessment-History, Physical, mental assessment and drug assay • Treatment (detoxification, antabuse and narcotic antagonist therapy and harm reduction) and nursing management of patients with substance use disorders • Geriatric considerations • Follow-up and home care and rehabilitation
X	4	<ul style="list-style-type: none"> • Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of patients with personality, Sexual and Eating disorders 	<p>Nursing management of patient with Personality, Sexual and Eating disorders</p> <ul style="list-style-type: none"> • Classification of disorders • Etiology, psycho-pathology, characteristics, diagnosis, Nursing Assessment-History, Physical and mental assessment, Treatment modalities and nursing management of patients with Personality, Sexual and Eating disorders • Geriatric considerations • Follow-up and home care and rehabilitation
XI	6	<ul style="list-style-type: none"> • Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of childhood and adolescent disorders including mental deficiency 	<p>Nursing management of childhood and adolescent disorders including mental deficiency</p> <ul style="list-style-type: none"> • Classification • Etiology, psycho-pathology, characteristics, diagnosis Nursing Assessment-History, Physical, mental and IQ assessment, Treatment modalities and nursing management of childhood disorders including mental deficiency • Follow-up and home care and rehabilitation

Unit	Time (Hours)	Learning Objectives	Content
XII	5	<ul style="list-style-type: none"> • Describe the etiology, psycho-pathology, clinical manifestations, diagnostic criteria and management of organic brain disorders. 	<p>Nursing management of organic brain disorders</p> <ul style="list-style-type: none"> • Classification: ICD • Etiology, psycho-pathology, clinical features, diagnosis and Differential diagnosis (parkinsons and alzheimers), Nursing Assessment-History, Physical, mental and neurological assessment, Treatment modalities and nursing management of organic brain disorders • Geriatric considerations • Follow-up and home care and rehabilitation
XIII	6	<ul style="list-style-type: none"> • Identify psychiatric emergencies and carry out crisis intervention 	<p>Psychiatric emergencies and crisis intervention</p> <ul style="list-style-type: none"> • Types of psychiatric emergencies and their management • Stress adaptation Model: stress and stressor, coping, resources and mechanism • Grief: Theories of grieving process, principles, techniques of counseling • Types of crisis • Crisis Intervention: Principles, Techniques and Process • Geriatric considerations <p>Role and responsibilities of nurse</p>
XIV	4	<ul style="list-style-type: none"> • Explain legal aspects applied in mental health settings and role of the nurse 	<p>Legal issues in Mental Health Nursing</p> <ul style="list-style-type: none"> • The Mental Health Act 1987: Act, Sections, Articles and their implications etc. • Indian Lunacy Act.1912 • Rights of mentally ill clients • Forensic psychiatry • Acts related to narcotic and psychotropic substances and illegal drug trafficking • Admission and discharge procedures <p>Role and responsibilities of nurse</p>

Unit	Time (Hours)	Learning Objectives	Content
XV	4	<ul style="list-style-type: none"> • Describe the model of preventive psychiatry • Describes Community Mental health services and role of the nurse 	<p>Community Mental Health Nursing</p> <ul style="list-style-type: none"> • Development of Community Mental Health Services: • National Mental Health Program • Institutionalization Versus De-institutionalization • Model of Preventive psychiatry: Levels of Prevention • Mental Health Services available at the primary, secondary, tertiary levels including rehabilitation and Role of nurse • Mental Health Agencies: Government and voluntary, National and International • Mental health nursing issues for special populations: Children, Adolescence, Women, Elderly, Victims of violence and abuse, Handicapped, HIV/AIDS etc.

- **Teaching Learning Activities:** Lecture Discussion, Explain using Charts, slides, Review of personality development, Demonstration, Practice session, Group work, Role play, Process recording, Supervised Clinical/field practice, Case discussions, Field visits to mental health service agencies.
- **Assessment Methods:** Essays, SAQ's, MCQ's, Assessment of field visit reports, Assessment of skills with check list, Assessment of patient management problems.

MIDWIFERY AND OBSTETRICAL NURSING

Placement: Third Year

Time: Theory 90 hours

Practical: 600 hours

Course Description: This course is designed for students to appreciate the concepts and principles of midwifery and obstetrical nursing. It helps them to acquire knowledge and skills in rendering nursing care to normal and high risk pregnant woman during antenatal, natal and post natal periods in hospitals and community settings. It also helps to develop skills in managing normal and high- risk neonates and participate in family welfare program.

Unit	Time (Hours)	Learning Objectives	Content
I	3	<ul style="list-style-type: none"> • Recognize the trends and issues in midwifery and obstetrical nursing 	<p>Introduction to midwifery and obstetrical Nursing</p> <ul style="list-style-type: none"> • Introduction to concepts of midwifery and obstetrical Nursing • Trends in midwifery and obstetrical nursing <ul style="list-style-type: none"> □ Historical perspectives and current trends □ Legal and ethical aspects □ Pre-conception care and preparing for parenthood □ Role of nurse in midwifery and obstetrical care. □ National policy and legislation in relation to maternal health and welfare. □ Maternal, morbidity, mortality and fertility rates □ Perinatal, morbidity and mortality rates
II	8	<ul style="list-style-type: none"> • Describe the anatomy and physiology of female reproductive system 	<p>Review of anatomy and physiology of female reproductive system and foetal development</p> <ul style="list-style-type: none"> □ Female pelvis—general description of the bones joints, ligaments, planes of the pelvis diameters of the true pelvis, important landmarks, variations in pelvis shape. □ Female organs of reproduction—external genitalia, internal genital organs and their anatomical relations, musculature—blood-supply, nerves, lymphatics, pelvic cellular tissue, pelvic peritoneum. □ Physiology of menstrual cycle

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> □ Human sexuality • Foetal development: Conception, Review of fertilization, implantation (embedding of the ovum), development of the embryo and placenta at term—functions, abnormalities the foetal sac, amniotic fluid, the umbilical chord, Foetal circulation, foetal skull, bones, sutures and measurements. • Review of Genetics
III	8	<ul style="list-style-type: none"> • Describe the diagnosis and management of women during antenatal period 	<p>Assessment and management of pregnancy (ante-natal)</p> <ul style="list-style-type: none"> • Normal pregnancy • Physiological changes during pregnancy: Reproductive, Cardio vascular, Respiratory, Urinary, Gastro intestinal & Endocrine systems, Metabolic, Skeletal, Skin & Psychological changes, Discomforts of pregnancy • Diagnosis of pregnancy: Signs, Differential diagnosis , Confirmatory tests • Ante-natal care: Objectives, Assessment: History and physical examination, Antenatal Examination, Signs of previous child-birth, Relationship of foetus to uterus and pelvis: Lie, Attitude, Presentation, Position, Per vaginal examination, • Screening and assessment for high risk: Risk approach, History and Physical examination, Modalities of diagnosis: Invasive & Non-Invasive, ultrasonic, cardiotomography, NST, CST • Antenatal preparation: Antenatal counseling, Antenatal exercises, Diet, Substance use, Education for child-birth, Husband and families, Preparation for safe-confinement, Prevention from radiation, Psycho-social and cultural aspects of pregnancy: Adjustment to pregnancy, Unwed mother, Single parent, Teenage pregnancy, Sexual violence, Adoption

Unit	Time (Hours)	Learning Objectives	Content
IV	12	<ul style="list-style-type: none"> • Describe the physiology and stages of labor • Describe the management of women during intra-natal period 	<p>Assessment and management of intra-natal period</p> <ul style="list-style-type: none"> • Physiology of labor, mechanism of labor • Management of labor: <ul style="list-style-type: none"> □ First stage: Signs and symptoms of onset of labor: normal and abnormal, Duration, Preparation of: Labor room, Woman, Assessment and observation of women in labor: partogram- maternal and foetal monitoring, Active management of labor, Induction of labor, Pain relief and comfort in labor • Second stage: Signs and symptoms: normal and abnormal, Duration, Conduct of delivery: Principles and techniques, Episiotomy (only if required), Receiving the new born : Neonatal resuscitation; initial steps and subsequent resuscitation, Care of umbilical cord, Immediate assessment including screening for congenital anomalies, Identification, Bonding, Initiate feeding, Screening and transportation of the neonate • Third stage: Signs and symptoms: normal and abnormal, Duration, Method of placental expulsion, Management: Principles and techniques, Examination of the placenta, Examination of perineum • Maintaining records and reports • Fourth Stage
VIII	10	<ul style="list-style-type: none"> • Describe management of abnormal labor • And obstetrical emergencies 	<p>Abnormal Labor—assessment and management</p> <ul style="list-style-type: none"> • Disorders in labor: CPD and contracted pelvis, Malpositions and malpresentations, Premature labor, disorders of uterine actions – precipitate labor, prolonged labor, Complications of third stage: injuries to birth canal • Obstetrical emergencies and their management: Presentation and prolapse of cord, Vasa praevia, amniotic fluid embolism, rupture of uterus, shoulder dystocia, obstetrical shock

Unit	Time (Hours)	Learning Objectives	Content
			<ul style="list-style-type: none"> • Obstetrical procedures and operations: Induction of labor, forceps, vacuum, version, manual removal of placenta, caesarean section, destructive operations • Nursing management of women undergoing Obstetrical operations and procedures
IX	4	<ul style="list-style-type: none"> • Describe management of post natal complications 	<p>Abnormalities during Postnatal Periods</p> <ul style="list-style-type: none"> • Assessment and management of woman with postnatal complications <ul style="list-style-type: none"> □ Puerperal infections, breast engorgement & infections, UTI, thrombo-Embolic disorders, post-partum haemorrhage, Eclampsia and subinvolution, - Psychological complications: Post partum Blues, Depression & Psychosis
X	10	<ul style="list-style-type: none"> • Identify the high risk neonates and their nursing management 	<p>Assessment and management of High risk newborn</p> <ul style="list-style-type: none"> • Admission of neonates in the neonatal intensive care units-protocols • Nursing management of: Low birth weight babies, Infections, Respiratory problems, haemolytic disorders, Birth injuries, Malformations, Monitoring of high risk neonates, Feeding of high risk neonates • Organisation and management of neonatal intensive care units, Infection control in neonatal intensive care units • Maintenance of reports and records
XI	4	<ul style="list-style-type: none"> • Describe indication, dosage, action, side effects and nurses responsibilities in the administration of drugs used for mothers 	<p>Pharmaco-therapeutics in obstetrics</p> <ul style="list-style-type: none"> • Indications, dosage, action, contra indication and side effects of drugs, Effect of drugs on pregnancy, labor & puerperium, • Nursing responsibilities in the administration of drug in Obstetrics—oxytocins, antihypertensives, diuretics, tocolytic agents, anti-convulsants, Analgesics and anesthetics in obstetrics. • Effects of maternal medication on foetus and neonate

Unit	Time (Hours)	Learning Objectives	Content
XII	10	<ul style="list-style-type: none"> • Appreciate the importance of family welfare program • Describe the methods of contraception and role of nurse in family welfare program 	<p>Family Welfare Program</p> <ul style="list-style-type: none"> • Population trends and problems in India • Concepts, aims, importance and history of family welfare program • National Population: dynamics, policy and education • National family welfare programs: RCH, ICDS, MCH, Safe motherhood • Organization and administration: at national, state, district, block, and village levels • Methods of contraception: spacing, temporary and permanent, Emergency, Latest research in contraception • Infertility and its management • Counseling for family welfare • Maintenance of vital statistics • Role of national, international, and voluntary organizations • Role of a nurse in family welfare program • Training/Supervision/Collaboration with other functionaries in community like ANMs, LHV's, Anganwadi workers, TBAs (Traditional birth attendant- Dai)

- **Teaching Learning Activities:** Lecture Discussion, Demonstration, Explain using Charts, graphs, models, films, slides, video films, scan reports, partograph etc., Case simulated Practice session, Supervised clinical practice, Drug book/presentation, Case discussions/Seminar, Health education, Counseling sessions, group projects, field visits,
- **Assessment Methods:** Essays, SAQ's, MCQ's, Assessment of skills with check list, Assessment of patient management problem, project and field visits reports.
- **Essential Requirements:**

Antenatal Examinations	—	30
Conduct Normal deliveries	—	20
Per vaginal examinations	—	5
Episiotomy and suturing	—	5
Neonatal resuscitation	—	5
Assist with caesarean sections	—	2
Witness/assist abnormal deliveries	—	5
Post natal cases nursed	—	20
IUD insertions	—	5

COMMUNITY HEALTH NURSING-II

Placement: Fourth Year

Time: Theory 90 hours

Practical: 300 hours

Course Description: This course is designed for students to practice community health nursing for the individual, family and groups at both urban and rural settings by using concept and principles of health and community health nursing.

Unit	Time (Hours)	Learning Objectives	Content
I	4	<ul style="list-style-type: none"> Define concepts, scope, principles and historical development of Community Health and community health Nursing 	<p>Introduction</p> <ul style="list-style-type: none"> Definition, concept & scope of Community Health and C H Nursing Historical development of Community health & Community health Nursing: Pre-independence, Post-independence
II	6	<ul style="list-style-type: none"> Describe health plans, policies, various health committees and health problems in India 	<p>Health planning and policies and problems</p> <ul style="list-style-type: none"> National health planning in India- Five Year Plans Various committees and commissions on health and family welfare: Central council for health and family welfare (CCH and FW), National health policies (1983, 2002), National population policy Health problems in India
III	15	<ul style="list-style-type: none"> Describe the system of delivery of community health services in rural and urban areas List the functions of various levels and their staffing pattern Explain the components of health services Describe alternative systems of health promotion and health maintenance. 	<p>Delivery of community health services</p> <ul style="list-style-type: none"> Planning, budgeting and material management of SCs, PHC and, CHC Rural: Organization, staffing and functions of rural health services provided by government at: Village, Subcenter, Primary health center, Community health center/subdivisional, Hospitals: District, State, Center, Referral system Urban: Organization, staffing and functions of urban health services provided by government at: Slums, Dispensaries, Maternal and child health centers, Special Clinics, Hospitals, Corporation / Municipality/Board

Unit	Time (Hours)	Learning Objectives	Content
		<ul style="list-style-type: none"> • Describe the chain of referral system 	<ul style="list-style-type: none"> • Components of health services: Environmental sanitation, Health education, Vital statistics, M.C.H.-antenatal, natal, postnatal, MTP Act, female foeticide act, child adoption act, Family Welfare, National health programs, School health services, Occupational health, Defense services, Institutional services • Systems of medicine and health care: Allopathy, Indian System of Medicine and Homeopathy, Alternative health care systems like yoga, meditation, social and spiritual healing etc.
IV	25	<ul style="list-style-type: none"> • Describe Community Health Nursing approaches and concepts • Describe the roles and responsibilities of Community health nursing personnel 	<p>Community health nursing approaches, concepts and roles and responsibilities of nursing personnel</p> <ul style="list-style-type: none"> • Approaches: Nursing theories And Nursing process, Epidemiological approach, Problem solving approach, Evidence based approach, Empowering people to care for themselves • Concepts of Primary Health Care • Roles and responsibilities of Community health nursing personnel in: Family health services, Information Education Communication (IEC), Management Information System (MIS): Maintenance of Records & reports, Training and supervision of various categories of health workers, National Health Programs, Environmental sanitation, Maternal and child health and Family welfare, Treatment of Minor ailments, School Health Services, Occupational Health, Organization of clinics, camps: Types, Preparation, planning, conduct and evaluation, Waste management in the center, clinics etc. • Home visit: Concept, Principles, Process, Techniques: Bag technique home visit • Qualities of Community Health Nurse • Job Description of Community health nursing personnel

Unit	Time (Hours)	Learning Objectives	Content
V	15	<ul style="list-style-type: none"> • Describe and appreciate the activities of community health nurse in assisting individuals and groups to promote and maintain their health 	<p>Assisting individuals and groups to promote and maintain their health</p> <ul style="list-style-type: none"> • Empowerment for self care of individuals, families and groups in– • Assessment of self and family: Monitoring growth and development, Mile stones, Weight measurement, Social development, Temperature and Blood pressure monitoring, Menstrual cycle, Breast self examination and testicles, Warning signs of various diseases, Tests: Urine for sugar and albumin, blood sugar • Seek health services for: Routine checkup, Immunization, Counseling, Diagnosis, Treatment, Follow up • Maintenance of health records for self and family • Continue medical care and follow up in community for various diseases and disabilities • Carryout therapeutic procedures as prescribed/ required for self and family • Waste Management: Collection and disposable of waste at home and community • Sensitize and handle social issues affecting health and development for self and family: Women Empowerment, Women and child abuse, Abuse of elders, Female Foeticide, Commercial sex workers, Food adulteration, Substance abuse • Utilize community resources for self and family: Trauma services, Old age homes, Orphanage, Homes for physically and mentally challenged individuals, Homes for destitute
VI	20	<ul style="list-style-type: none"> • Describe national health and family welfare programs and role of a nurse • Describe various health schemes in India 	<p>National health and family welfare programs and the role of a nurse</p> <ol style="list-style-type: none"> 1) National ARI program 2) Revised National Tuberculosis Control Program (RNTCP) 3) National Anti-Malaria program

Unit	Time (Hours)	Learning Objectives	Content
			4) National Filaria control program 5) National Guinea worm eradication program 6) National Leprosy eradication program 7) National AIDS control program 8) STD control program 9) National program for control of blindness 10) Iodine deficiency disorder program 11) Expanded program on immunization 12) National Family Welfare Program- RCH Program historical development, Organization, administration, research, constraints 13) National water supply and sanitation program 14) Minimum Need program 15) National Diabetics control program 16) Polio Eradication: Pulse Polio Program 17) National Cancer Control Program 18) Yaws Eradication Program 19) National Nutritional Anemia Prophylaxis program 20) 20 point program 21) ICDS program 22) Mid-day meal applied nutritional program 23) National mental health program 24) Various Health schemes: ESI, CGHS, Health insurance
VII	5	<ul style="list-style-type: none"> Explain the roles and functions of various national and international health agencies 	Health Agencies: International - WHO, UNFPA, UNDP, World Bank, FAO, UNICEF, DANIDA, European Commission (EC), Red cross, USAID, UNESCO, Colombo Plan, ILO, CARE etc. National - Indian Red Cross, Indian Council for child welfare, Family Planning Association of India (FPAI), Tuberculosis Association of India, Hindu Kusht Nivaran Sangh, Central Social Welfare Board, All India women's conference, Blind Association of India etc.

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- **Teaching Learning Activities:** Lecture Discussion, Panel discussion, Seminar, Demonstration, Explain using Charts, graphs, models, films, slides, video films, Supervised clinical/field practice, Individual/group/family/community health education, Counseling sessions, Participation in camps Group Project, Visits to various health delivery systems, Participation in national health programs.
 - **Assessment Methods:** Essays, SAQ's, MCQ's, Assessment of skills with check list, Assessment of project and field visits reports.

NURSING RESEARCH AND STATISTICS

Placement: Fourth Year

Time: Theory 45 hours

Practical: 45 hours

Course Description: The Course is designed to enable students to develop an understanding of basic concepts of research, research process and statistics. It is further, structured to conduct/ participate in need based research studies in various settings and utilize the research findings to provide quality nursing care. The students will conduct individual/group research project.

Unit	Time (Hours)	Learning Objectives	Content
I	4	<ul style="list-style-type: none"> • Describe the concept of research, terms, need and areas of research in nursing • Explain the steps of research process 	Research and research process <ul style="list-style-type: none"> • Introduction and need for nursing research • Definition of Research & nursing research • Steps of scientific method • Characteristics of good research • Steps of Research process-overview
II	3	<ul style="list-style-type: none"> • Identify and state the research problem and objectives 	Research Problem/Question <ul style="list-style-type: none"> • Identification of problem area, Problem statement, Criteria of a good research problem. • Writing objectives
III	3	<ul style="list-style-type: none"> • Review the related literature 	Review of Literature <ul style="list-style-type: none"> • Location, Sources, On line search; CINHALL, COCHRANE etc, Purposes, Method of review
IV	4	<ul style="list-style-type: none"> • Describe the research approaches and designs 	Research approaches and designs <ul style="list-style-type: none"> • Historical, survey and experimental • Qualitative and Quantitative designs
V	8	<ul style="list-style-type: none"> • Explain the sampling process • Describe the methods of data collection 	Sampling and data collection <ul style="list-style-type: none"> • Definition of Population, Sample, Sampling criteria, factors influencing sampling process, types of sampling techniques. • Data-why, what, from whom, when and where to collect • Data collection methods and instruments: Methods of data collection: Questioning, interviewing, Observations, record analysis and measurement, Types of instruments, Validity & Reliability of the Instrument, Pilot study, Data collection procedure

Unit	Time (Hours)	Learning Objectives	Content
VI	4	<ul style="list-style-type: none"> Analyze, Interpret and summarize the research data 	Analysis of data: <ul style="list-style-type: none"> Compilation, Tabulation, classification, summarization, presentation, interpretation of data
VII	15	<ul style="list-style-type: none"> Explain the use of statistics, scales of measurement and graphical presentation of data Describe the measures of central tendency and variability and methods of correlation 	Introduction to statistics <ul style="list-style-type: none"> Definition, use of statistics, scales of measurement. Frequency distribution and graphical presentation of data Mean, Median, Mode, Standard deviation Normal Probability and tests of significance Co-efficient of correlation. Statistical packages and their application
VIII	4	<ul style="list-style-type: none"> Communicate and utilize research findings 	Communication and utilization of Research <ul style="list-style-type: none"> Communication of research findings: Verbal report, Writing research report, Writing scientific article/paper Critical review of published research Utilization of research findings

- Training Learning Activities:** Lecture Discussion, Narrate steps of research process followed from examples of published studies, Explain types of research approaches used from examples of published and unpublished research studies with rationale, Exercise on writing statement of problem and objectives, reviewing one research report/article for a selected research problem, Preparation of sample data collection tool Conduct group research project, Preparation of sample tables, Practice on graphical presentations, computation of measures of central tendency, variability & correlation, Read/Presentations of a sample published/unpublished research report, Writing group research project, Prepare annotated bibliography
- Assessment Methods:** SAQ's, MCQ's, Assessment of oral presentation, group research project

MANAGEMENT OF NURSING SERVICES & EDUCATION

Placement: Fourth Year

Time: Theory 90 hours

Course Description: This course is designed to enable students to acquire understanding of management of clinical and community health nursing Services, nursing educational programs. This is also designed to enable students to acquire understanding of the professional responsibilities, prospects and contribution to the growth of the profession.

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
I	5		<ul style="list-style-type: none"> • Explain the principles and functions of management 	Introduction to management in nursing <ul style="list-style-type: none"> • Definition, concepts and theories • Functions of management, Principles of Management • Role of Nurse as a manager
II	5		<ul style="list-style-type: none"> • Describe the elements and process of management 	Management process <ul style="list-style-type: none"> • Planning; mission, philosophy, objectives, operational plan • Staffing: philosophy, staffing study, norms, activities, patient classification systems, scheduling, Human resource management; recruiting, selecting, deployment, retaining, promoting, superannuation etc. • Budgeting: concept, principles, types, cost benefit analysis, audit • Material management: equipment and supplies • Directing process (Leading) • Controlling: Quality management • Program Evaluation Review Technique (PERT), Bench marking, Activity Plan (Gantt Chart),
III	8	20	<ul style="list-style-type: none"> • Describe management of nursing services in the hospital and Community 	Management of nursing services in the hospital and Community <ul style="list-style-type: none"> • Planning: Hospital and patient care units including ward management, Emergency and disaster management

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
				<ul style="list-style-type: none"> • Human resource management: Recruiting, selecting, deployment, retaining, promoting, superannuation etc, Categories of nursing personnel including job description of all levels, Patient/population classification systems, Patients/population assignment and Nursing care responsibilities, Staff development and welfare • Budgeting: proposal, projecting requirements for staff, equipments and supplies for: Hospital and patient care units, Emergency and disaster management • Material Management; procurement, inventory control, auditing and maintenance in: Hospital and patient care units, Emergency and disaster management • Directing and leading: delegation, participatory management: Assignments, rotations, delegations, Supervision & guidance, Implement Standards, policies, procedures and practices, Staff development and welfare, Maintenance of discipline Controlling /Evaluation: Nursing Rounds/Visits, Nursing protocols, Manuals, Quality Assurance Model, documentation-Records and reports, Performance appraisal
IV	5		<ul style="list-style-type: none"> • Describe the concepts, theories and techniques of organizational behavior and human relations 	<p>Organizational behavior and human relations</p> <ul style="list-style-type: none"> • Concepts and theories of organizational behaviors • Review of Channels of communication • Leadership styles • Review of Motivation: concepts and theories • Group dynamics, Techniques of: Communication and Interpersonal relationships, Human relations, Public relations in context of nursing , Relations with professional associations and employee unions and Collective bargaining

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
V	5	5	<ul style="list-style-type: none"> Participate in planning and organizing in service education program 	<p>In service education</p> <ul style="list-style-type: none"> Nature & scope of in-service education program, Organization of in service education Principles of adult learning, Planning for in-service education program, techniques, methods & evaluation of staff education program, Preparation of report
VI	10		<ul style="list-style-type: none"> Describe management of Nursing educational institutions 	<p>Management of nursing educational institutions</p> <ul style="list-style-type: none"> Establishment of Nursing educational institution-INC norms and guidelines Co-ordination with-Regulatory bodies, Accreditation, Affiliation: Philosophy/objectives, Organization: Structure, Committees, Physical facilities: College/School, Hostel Students: Selection, Admission, Guidance and Counseling, Maintaining discipline Faculty and staff: Selection, Recruitment, Job description, Placement, Performance appraisal, Development and welfare Budgeting, Equipments and supplies: audio visual equipments, laboratory equipment, books, journals etc Curriculum; Planning, implementation and evaluation, Clinical facilities Transport facilities Institutional Records and reports-administrative, faculty, staff and students
VII	15		<ul style="list-style-type: none"> Describe the concepts of health economics and cost effectiveness of health care 	<p>Health Economics</p> <ul style="list-style-type: none"> Introduction to health economics: Concepts, areas, health economic development, Cost of Health care: Concepts, types, cost benefit, cost effectiveness; studies Demand and supply in health care: Concept, need, supply, input, output, characteristics of health care service market

Unit	Time (Hours)		Learning Objectives	Content
	Th.	Pr.		
				<ul style="list-style-type: none"> • Financing of health care in India: Budget Allocation for health viz a viz total annual budget • Sources of health care services, plan outlays for health by states/UTs, central government on financing, health insurance
VIII	10		<ul style="list-style-type: none"> • Describe the ethical and legal responsibilities of a professional nurse • Explain nursing practice standards 	<p>Nursing as a profession</p> <ul style="list-style-type: none"> • Nursing as a profession: Philosophy, nursing practice, Aims and objectives, Characteristics of a professional nurse, Regulatory bodies: INC, SNC Acts - constitution, functions, Current trends and issues in Nursing • Professional ethics: Code of ethics & Professional conduct of INC, ICN • Practice standards for Nursing; INC • Legal Aspects in Nursing: Consumer protection act, Legal terms related to practice: registration and licensing, Laws related to nursing practice: Breach and penalties, Malpractice and negligence
IX	3		<ul style="list-style-type: none"> • Explain various opportunities for professional advancement 	<p>Professional Advancement:</p> <ul style="list-style-type: none"> • Continuing education • Career Opportunities • Collective bargaining • Membership with Professional organizations: National and International • Participation in research activities • Publications: Journals, newspapers etc

- **Teaching Learning Activities:** Lecture Discussion, Panel discussion, Seminar, Explain using Charts, Case studies & discussion, Critical incidents Supervised practice in ward-writing indents, preparing duty roster, ward supervision, Assignment on duties and responsibilities of ward sister, Group games & exercises, Plan & conduct an educational session for in service nursing personnel, Role plays & Counseling session, Review/Presentation of published articles, Group work on maintenance of bulletin board, Visit to INC/SNRCS
- **Assessment Methods:** Essays, SAQ's, MCQ's, Assessment of problem solving exercises, critical incidents, planning & conduct of the educational session, assignments, Performance evaluation by ward sister with rating scale, Assessment of skills with check list