

DURATION

Course Duration	4 years
Weeks available per year	52 weeks
Vacation	8 weeks
Gazetted holidays	3 weeks
Examination (including preparatory)	4 weeks
Available weeks	37 weeks
Hours per week	40 hours
Practical	30 hours per week
Theory	10 hours per week
Internship practical	48 hours per week
Hours available per academic year	1480 (37 week x 40 hours)

COURSE OF INSTRUCTION

FIRST YEAR

SUBJECT	Theory(in hrs) (Class &lab)	Practical (in hrs) (Clinical)	(In hrs)
1.* English	60		
2. Anatomy	60		
3. Physiology	60		
4. Nutrition	60		
5. Biochemistry	30		
6. Nursing Foundation	265+200	450	
7. Psychology	60		
8. Introduction to computers	45		
9. ** Marathi / Regional language	30		
10. Library work / self study			50
11. Environment science	50		
Total Hours	920	450	50
Total hours = 1420 hrs			

**** Optional**

SECOND YEAR

Subject	Theory(in hrs) (class & lab)	Practical (in hrs) (clinical)	(In hrs)
1. Sociology	60		
2. Pharmacology	45		
3. Pathology	30		
4. Genetics	15		
5. Medical surgical nursing (adult including geriatric)-I	210	720	
6. Community health nursing I	90	135	
7. Microbiology	60		
8. Library work/self study			50
9. Co-curricular activities			35
Total Hours	510	855	85
Total hours = 1450			

THIRD YEAR

Subject	Theory (in hrs) (Class & lab)	Practical (in hrs) (clinical)	(In hrs)
1. Medical surgical nursing (Adult including geriatric)-II	120	270	
2. Child Health Nursing	90	270	
3. Mental Health Nursing	90	270	
4. Communication & Educational Technology	60+30		
5. Library work & Self study			50
6. Co-curricular activities			50
Total Hours	390	810	100
Total hours = 1300 hrs			

FOURTH YEAR

Subject	Theory(in hrs) (class & lab)	Practical (in hrs) (clinical)	(In hrs)
1. Midwifery & Obstetrical Nursing	90	360	
2. Community health nursing II	90	135	
3. Nursing Research	45	*	
4. Management of Nursing Service & Education	60+30		
Total Hours	315	495	
Total hours = 810 hrs			

*** Project work to be carried out during internship**

INTERN-SHIP (Integrated practice)

48 hours per week

Subject	Theory(in hrs) (class & lab)	Practical (in hrs) (clinical)	(In weeks)
1. Midwifery & Obstetrical Nursing		240	5
2. Community health Nursing II		195	4
3. Medical surgical Nursing (adult including geriatrics)		430	9
4. Child Health Nursing		145	3
5. Mental Health Nursing		95	2
6. Research project		45	1
Total Hours		1150	24
Total hours = 1150hrs			

NOTE: -

1. Internship means 8 hours of integrated clinical duties in which two weeks of evening and night shift duties are included.
2. Internship should be carried out as 8 hours per day at 48 hours per week.
3. Student during internship will be supervised by nursing teachers.
4. Fourth final examination to be held only after completion of internship.

SCHEME OF EXAMINATION

FIRST YEAR

Subject	ASSESSMENT			
Theory	Hours	Internal	External	Total
1. Anatomy & Physiology	3	25	75	100
2. Nutrition & Biochemistry	3	25	75	100
3. Nursing foundation	3	25	75	100
4. Psychology	3	25	75	100
5.English		25	75	100
6.Introduction to computers (Internal)		25	75	100
7. Marathi (Internal exam)	2		50	50
Practical & Viva				
1. Nursing Foundations		100	100	200

SECOND YEAR

Subject	ASSESSMENT			
Theory	Hours	Internal	External	Total
1. Sociology	3	25	75	100
2. Medical surgical nursing	3	25	75	100
3.Pharmacology, Pathology & Genetics	3	25	75	100
4. Community Health nursing- 1	3	25	75	100
5. Microbiology	3	25	75	100
Practical & Viva				
1. Medical surgical nursing-1		100	100	200

THIRD YEAR

SUBJECT	ASSESSMENT			
Theory	Hours	Internal	External	Total
1. Medical surgical nursing-II	3	25	75	100
2. Child Health Nursing	3	25	75	100
3. Mental Health Nursing	3	25	75	100
4. Communication & Educational Technology	3	25	75	100
Practical & Viva				
1. Medical surgical nursing II		50	50	100
2. Child Health Nursing		50	50	100
3. Mental Health Nursing		50	50	100

FOURTH YEAR

SUBJECT	ASSESSMENT			
Theory	Hours	Internal	External	Total
1. Midwifery & Obstetrical Nursing	3	25	75	100
2. Community health nursing II	3	25	75	100
3. Nursing Research & Statistics	3	25	75	100
4. Management of Nursing Service & Education	3	25	75	100
Practical & Viva				
1. Midwifery & Obstetrical Nursing -II	3	50	50	100
2. Community Health Nursing -II	3	50	50	100

NOTE:-

1. Anatomy and physiology-Question paper will consist of section A Anatomy of 37 marks & section B Physiology should be of 38 marks.
2. Nutrition & Biochemistry- Question Paper will consist of section A Nutrition of 45 marks & section B Biochemistry of 30 marks.
3. Pharmacology, Pathology & Genetics-section A Pharmacology with 38.Marks, section B Pathology of 25 marks & genetics with 12 marks.
4. Nursing research & statistics – Nursing research should be of 50 marks & statistics of 25 marks
5. Minimum pass marks shall be 40% for English only.
6. Theory and practical exam for introductions to computers to be conducted as college exams and marks to be sent to the university for inclusion in the mark sheet
7. Minimum pass marks shall be 50% in each of theory & practical paper separately.
8. The candidate must have minimum of 80% attendance (irrespective of the kind of absence.) In theory & practical in each subject for appearing of examination.
9. A candidate must have 100% attendance in each of the practical areas before award of the degree.
10. A candidate has to pass in theory & practical exam separately in each of the paper.
11. If the candidate fails in either theory or practical exam he/she has to reappear for both the papers (Theory & practical).
12. Maximum number of attempts permitted for each paper is 3 including first attempt.
13. Candidate shall not be permitted to the subsequent higher examination unless the candidate has passed the previous examination.
14. The maximum period to complete the course successfully should not exceed 8 years.
15. Maximum number of candidates for practical examination should not exceed 20 per day.
16. All practical examinations must be held in the respective clinical areas.
17. One internal & one external examiner should jointly conduct the practical exam for each student.
18. An examiner should be a lecturer or above in a college of nursing with M.Sc.(N) in concerned subject & minimum of 3 years of teaching experience. To be an examiner for nursing foundation course faculty having M.Sc.(N) with any shall be considered.
19. Student has to pass in internal assessment and university Exam separately with 50% marks each.

B.Sc.
NURSING
FIRST YEAR

ENGLISH

Placement- First Year

Time:-Theory-60 hours

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

UNIT	CONTENT	HOURS
UNIT-1	<ul style="list-style-type: none">• Review of Grammar• Remedial study of Grammar• Building Vocabulary• Phonetics• Public Speaking	10 hrs.
UNIT-2	* Read and comprehend prescribed course books	30 hrs.
UNIT-3	* Various forms of composition <ul style="list-style-type: none">- Letter writing- Note taking- Precise writing- Nurse notes- Anecdotal records- Diary writing- Reports on health problems etc.- Resume/CV	10 hrs.
UNIT-4	* Spoken English <ul style="list-style-type: none">- Oral report- Discussion- Debate- Telephonic conversation	6 hrs.
UNIT-5	* Listening comprehension <ul style="list-style-type: none">- Media, audio, video, speeches etc.	4 hrs.

ANATOMY

Placement- First Year

Time:- Theory-60 hours

Course Description: The course is designed to enable students to acquire Knowledge of normal structure of various human body system and understand the alteration in anatomical structures in disease in disease and practice of nursing.

UNIT	CONTENT	HOURS
UNIT-1	Introduction to Anatomical terms organization of the human body - Human cell structure - Tissues – definition, types, characteristics, classification, location, function and formation - Membranes and glands – classification and structure. - Alteration in disease Application and implementation in nursing	5 hrs.
UNIT-2	The Skeletal System - Bones- types, structure, axial & appendicular skeleton - Bone formation and growth - Description of bones - Joint – classification and structure Alteration in disease Application and implication in nursing	6 hrs.
UNIT-3	The Muscular System - Types and structure of muscles - Muscle group	7 hrs.

	Alteration in disease Application and implication in nursing	
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UNIT-4	<p>The Nervous System</p> <ul style="list-style-type: none"> - Structure of neurologia & neurons - Somatic nervous system Structure of brain, spinal chord, cranial nerves, peripheral nerves - Autonomic nervous system- (Sympathetic, parasympathetic) Structure & location <p>Alteration in disease Application and implication in nursing</p>	6 hrs.
UNIT-5	<p>The Sensory Organs</p> <ul style="list-style-type: none"> - Structure of skin, eye, ear, nose, tongue (Auditory and olfactory apparatus) <p>Alteration in disease Application and implication in nursing</p>	6 hrs.
UNIT-6	<p>Circulatory and Lymphatic system</p> <ul style="list-style-type: none"> - The circulatory system <ul style="list-style-type: none"> * Blood - Microscopic structure * Structure of heart * Structure of blood vessels- Arterial and venous system *Circulation: systemic, pulmonary, coronary. - Lymphatic system <ul style="list-style-type: none"> * Lymphatic vessels and lymph 	7 hrs.

	<ul style="list-style-type: none"> * Lymphatic tissues <ul style="list-style-type: none"> - Thymus gland - Lymph nodes - Lymphatic Nodules <p>Alteration in disease Application and implication in nursing</p>	
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UNIT-7	<p>The Respiratory System</p> <ul style="list-style-type: none"> - Structure of the organs of respiration - Muscles of respiration Intercostals and diaphragm <p>Alteration in disease Application and implication in nursing</p>	5 hrs.
UNIT-8	<p>The Digestive System</p> <ul style="list-style-type: none"> - Structure of alimentary tract and accessory organs of digestion <p>Alteration in disease Application and implication in nursing</p>	6 hrs.
UNIT-9	<p>The Excretory System (Urinary)</p> <ul style="list-style-type: none"> - Structure of organs of urinary - System: kidney, ureters, urinary bladder, urethra, structure of skin. <p>Alteration in disease Application and implication in nursing</p>	4 hrs.
UNIT-10	<p>The Endocrine System</p> <ul style="list-style-type: none"> - Structure of pituitary, pancreas, thyroid, parathyroid, thymus and adrenal glands <p>Alteration in disease</p>	4 hrs.

	Application and implication in nursing	
UNIT-11	<p>The Reproductive System including Breast</p> <ul style="list-style-type: none"> - Structure of female reproductive organs - Structure of male reproductive organs - Structure of breast 	4 hrs.

PHYSIOLOGY

Placement- First Year

Time: Theory 60 hrs.

Course Description: The course is designed to assist the students to acquire Knowledge of the normal physiology of various human body systems and under stand the alteration in physiology disease and practice of nursing.

UNIT	CONTENT	HOURS
UNIT-1	Cell physiology * Tissue – formation, repair * Membranes & gland – functions Alteration in disease Application and implication in nursing	4 hrs.
UNIT-2	Skeleton System * Bone formation and growth * Bones – functions and movements of bones of axial & appendicular skeleton, bone healing * Joints and joint movements Alteration in disease Application and implication in nursing	4 hrs.
UNIT-3	Muscular System * Muscle movements, muscle tone, physiology of muscle contraction, levels and maintenance of posture Alteration in disease Application and implication in nursing	4 hrs.
UNIT-4	Nervous System * Function of neuralgia & neurons * Stimulus & nerve-impulse- definition and mechanism * Function of brain spinal cord. Cranial & spinal nerves * Cerebrospinal fluid-composition. Circulation and function * Reflex arc, reflex action and reflexes *Autonomic function - Pain: somatic, viscera land referred. - Autonomic learning and biofeedback Alteration in disease Application and implication in nursing	7 hrs.
UNIT-5	Circulatory System * Blood formation, composition, blood group, blood coagulation * Hemoglobin : structure, synthesis and breakdown, variation of molecules, estimation * Function of heart, conduction, cardiac cycle, circulation- principles control, factors influencing BP &	8 hrs.

	Pulse Alteration in disease Application and implication in nursing	
UNIT-6	The Respiratory System * Functions of respiratory system * 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 Alteration in disease Application and implication in nursing	6 hrs.
UNIT-7	The Digestive System * Functions of organ of digestive tract. Movements of alimentary tract. Digestion in mouth stomach small intestine, large intestine, absorption of food, function of liver, gall bladder and pancreas. * Metabolism of carbohydrates, protein and fat. Alteration in disease Application and implication in nursing	6 hrs.
UNIT-8	The Excretory System * Function of Kidneys, ureters, urinary bladder & urethra. * Composition of urine * Mechanism of urine formation * Function of skin * Regulation of body temperature * fluid and electrolyte balance Alteration in disease Application and implication in nursing	5 hrs.
UNIT-9	The Sensory organs * Functions of skin, eye, ear, nose, tongue. Alteration in disease Application and implication in nursing	4 hrs.
UNIT-10	The Endocrine System * Function of Pituitary, pineal body, thymus, thyroid, parathyroid, pancreas, suprarenal, placenta & ovaries & testes. Alteration in disease Application and implication in nursing	5 hrs.
UNIT-11	The Reproductive system * Reproduction of cells-DNA. Mitosis, spermatogenesis,	5 hrs

	<p>oogenesis</p> <ul style="list-style-type: none"> * Function of female reproductive organs: function of breast, female sexual cycle * Introduction of embryology * Function of male reproductive organs, male function in reproduction male fertility system. <p>Alteration in disease</p> <p>Application and implication in nursing</p>	
UNIT-12	<p>Lymphatic and Immunological system</p> <ul style="list-style-type: none"> • Circulation of lymph • Immunity - Formation of T-cells & B-cells - Types of immune response - Antigen - Cytokines - Antibodies 	

NUTRITION

Placement- First Year

Time: Theory 60 hrs

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

UNIT	CONTENT	HOURS
UNIT-1	<p>Introduction</p> <ul style="list-style-type: none">• Nutrition<ul style="list-style-type: none">- History- Concepts <p>* Role of nutrition in maintaining health</p> <p>* Nutritional problem in India</p> <p>* Factors affecting food and nutrition: socio-economic, cultural, tradition, production, system of distribution, life style and food habits etc.</p> <p>* Role of food and its medicinal value</p> <p>* Classification of food</p> <p>* Food standards</p> <p>* Element of Nutrition : macro and micro</p> <p>* Calorie BMR</p>	4hrs
UNIT-2	<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	2 hrs.
UNIT-3	<p>Fats</p> <ul style="list-style-type: none">* Classification* Caloric Value* Recommended daily allowances* Dietary sources* Functions* Digestion, absorption and storage, metabolism of fats* Malnutrition: Deficiencies and over consumption	2 hrs.
UNIT-4	<p>Proteins</p> <ul style="list-style-type: none">• Classification• Caloric value	2 hrs.

	<ul style="list-style-type: none"> • Recommended daily allowances • Dietary sources • Functions • Digestion, absorption and storage, metabolism of carbohydrates. • Malnutrition: Deficiencies and over consumption 	
UNIT-5	Energy <ul style="list-style-type: none"> * Unit of energy- Kcal * Energy requirements of different categories of people * Measurement of energy * Body mass index (BMI) & basic metabolism * Basal metabolic rate (BMR) – determine the factors affecting. 	3 hrs.
UNIT-6	Vitamins <ul style="list-style-type: none"> • Classification • Recommended daily allowance • Dietary sources • Functions • Absorption, synthesis, metabolism, storage and excretion • Deficiencies • Hypervitaminosis 	4 hrs.
UNIT-7	Minerals <ul style="list-style-type: none"> * Classification * Recommended daily allowance * Dietary sources * Functions * Absorption, synthesis, metabolism, storage and exertion * Deficiencies * Over composition and toxicity 	4 hrs.
UNIT-8	Water and Electrolyte Balance <ul style="list-style-type: none"> * Water :- Daily requirements, 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 Imbalance 	3 hrs.
UNIT-9	Cookery rules and preservation of Nutrients <ul style="list-style-type: none"> * Principles, methods of cooking and serving Preservation of nutrients <ul style="list-style-type: none"> * Safe food handling – toxicity * Storage of Food * Food Preservation, food additives and its principles * Preservation of food adulteration Act(PFA) 	5 hrs.

	<ul style="list-style-type: none"> * Food standards * Preparation of simple beverages of different types of 	
UNIT-10	<p>Balanced diet</p> <ul style="list-style-type: none"> * Elements * Food groups * Recommended daily allowance * Nutritive value of food * Calculation of balanced diet for different categories of people * Planning menu * Budgeting of food * Introduction to therapeutic diet: Naturopathy=Diet 	5 hrs.
UNIT-11	<p>Role of nurse nutritional programme</p> <ul style="list-style-type: none"> • National programme related to nutrition - Vitamin A deficiency programme - National iodine deficiency disorders (IDD) programme - Mid-day meal programme - Integrated child development scheme • National & International agencies working to wards food/nutrition - NIPCCD, CARE, FAQ, NIN, CFTRI (Central food technology and research institute) etc. • Assessment of nutritional status • Nutrition education and role of nurse. 	

BIOCHEMISTRY

Placement-First Year

Time: Theory 30 hrs.

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 alteration in biochemistry in disease for practice for practice of nursing

UNIT	CONTENT	HOURS
UNIT-1	Introduction <ul style="list-style-type: none">• Definition and significance in nursing• Review of structure, composition and function of cell• Prokaryote and Eukaryote cell organization• Microscopy	3hrs.
UNIT-2	Structure and Function of Cell membrane <ul style="list-style-type: none">• Fluid mosaic model tight junction, cytoskeleton• Transport mechanism: diffusion, osmosis, filtration, active channel, sodium pump• Acid base balance- maintenance and diagnostic tests - PH buffers	6hrs
Unit -3	Composition and Metabolism of Carbohydrates <ul style="list-style-type: none">• Types structure, composition and uses• Monosaccharide, Disaccharides, Polysaccharides oligosaccharides• Metabolism - Pathways of Glucose <ul style="list-style-type: none">- Glycolysis- Gluconeogenesis Cori's cycle Tricarboxylic acid(TCA) cycle- Glycogenolysis- Pentose phosphate- Pathways (Hexose mono phosphate)- Regulation of blood glucose level Investigation & their interpretation	6hrs

Unit -4	<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 acids <ul style="list-style-type: none"> - Breakdown - Synthesis • Metabolism of Triglycerols • Cholesterol metabolism <ul style="list-style-type: none"> * Biosynthesis and its regulation <ul style="list-style-type: none"> - Bile salts and bilirubin - Vitamin D - Steroid hormones • Lipoproteins and their functions <ul style="list-style-type: none"> - VLDLs- LDLs and HDLs - Transport of lipids - Arteriosclerosis <p>Investigation and their interpretation</p>	4hrs
Unit -5	<p>Composition and metabolism of Amino acids and proteins</p> <ul style="list-style-type: none"> * Types, structure, composition and uses acids and proteins * Metabolism of amino acids and proteins <ul style="list-style-type: none"> • Protein synthesis Targeting & glycosylation • Chemotherapy • Electrophoresis • Sequencing * Metabolism of Nitrogen <ul style="list-style-type: none"> • Fixation & assimilation • Urea cycle • Heme and chlorophylls * Enzymes and co-enzymes <ul style="list-style-type: none"> • Classification • Properties • Kinetics & inhibition • Control <p>Investigation and their interpretation</p>	6hrs
Unit -6	<p>Composition and Vitamins and minerals</p> <ul style="list-style-type: none"> * Vitamins & Minerals <ul style="list-style-type: none"> - Structure - Classification - Properties - Absorptions - Storage & transportations - Normal concentration investigation and their 	2hrs

	interpretation	
Unit -7	<p>Immunochemistry</p> <ul style="list-style-type: none"> - Immune response - Structure & Classification of immune response - Mechanism of antibody production - Antigen: HLA typing - Free radical & antioxidants - Specialized proteins: Collagen Elastin Keratin Myosin, Lens Protein - Electrophoretic and quantitative determinations of immunoglobins- ELISA etc <p>Investigation and their interpretation</p>	3hrs

NURSING FOUNDATION

Placement: First Year

**Theory-265hrs
Practical- 650hrs
(200lab and 450 clinical)**

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

UNIT	CONTENT	HOURS
UNIT-1	Introduction <ul style="list-style-type: none">* Concept of health: Health – Illness continuum* Factors influencing health* Causes and risk factors for developing illness* Body defenses : Immunity and immunization* Illness & 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 team* Types of health care agencies* Hospitals; Types, organization and functions* Health promotion and level of disease prevention* Primary health care and its delivery: Role of nurse.	10 hrs.
UNIT-2	Nursing as a profession <ul style="list-style-type: none">* Definition and characteristics of a profession* Nursing<ul style="list-style-type: none">- Definition, concepts, philosophy, objectives.- Characteristics, nature and scope of nursing practice- Function of nurse- Qualities of nurse- Categories of nursing personnel- Nursing as a profession- History of nursing in India* Values : Definition, types, values clarification and values professional nursing: caring and advocacy* Ethics :<ul style="list-style-type: none">- Definition and ethical principles- Code of ethics and professional conduct for nurse.	16 hrs.
Unit -3	Hospital admission and discharge <ul style="list-style-type: none">* Admission to the hospital<ul style="list-style-type: none">- Unit and its preparation admission bed	4 hrs.

	<ul style="list-style-type: none"> - Admission procedure - Special considerations - Medico-legal issues - Roles and responsibilities of the nurse * Discharge from the hospital <ul style="list-style-type: none"> - Types: Planned discharge, LAMMA and abscond, referral And transfers - Discharge planning - Discharge procedure - Special consideration - Medico- legal issues - Roles and responsibilities of the nurse - Care of the unit after discharge 	
Unit -4	<p>Communication and the nurse patient relationship</p> <ul style="list-style-type: none"> * Communication: Levels, elements, types, modes, process, factors influencing communication. <ul style="list-style-type: none"> - Methods of effective communication <ul style="list-style-type: none"> # Attending skills # Rapport building skills # Empathy skill - Barriers to effective communication * Helping relationship (NPR): dimensions of helping relationships, phases of a helping relationship * Communicating effectively with patient, families and team members and maintain effective human relation with special reference to communicating with vulnerable group (children, woman, physically and mentally challenged and elderly) * Patient teaching: Importance purpose, process, role of nurse and integrating teaching in nursing process. 	10 hrs
Unit -5	<p>The Nursing process</p> <ul style="list-style-type: none"> * Critical thinking and nursing judgment <ul style="list-style-type: none"> - Critical thinking: Thinking and learning - Competencies, attitude for critical thinking, levels critical thinking in nursing * Nursing process overview: <ul style="list-style-type: none"> Application in practice <ul style="list-style-type: none"> - Nursing process format: INC, current format - Assessment <ul style="list-style-type: none"> # Collection of data: types, sources, methods - Nursing Diagnosis <ul style="list-style-type: none"> # Identification of client problems # Nursing diagnosis statement # Difference between medical and nursing diagnosis - Planning <ul style="list-style-type: none"> - Establishing goals and expected outcomes - Selection of intervention: Protocols and standing 	15 hrs

	<p>orders</p> <ul style="list-style-type: none"> - Writing the nursing care plan <p>* Implementation</p> <ul style="list-style-type: none"> - Implementing the plan of care <p>* Evaluation</p> <ul style="list-style-type: none"> - Outcome of care - Review and modify <p>* Documentation and reporting</p>	
Unit -6	<p>Documentation and reporting</p> <ul style="list-style-type: none"> * Documentation: purpose of recording and reporting * Communication within the health care team * Types of record: ward records, medical/nursing records * Common record-keeping forms, computerized documentation * Guidelines for reporting :Factual basis, accuracy , completeness, current ness, organization, confidentiality * Methods of recording. * Reporting change –of shift reports: transfer reports, incident reports * Minimizing legal liability through effective record keeping 	4hrs
Unit -7	<p>Vital sign</p> <ul style="list-style-type: none"> * Guidelines for taking signs: * Body temperature <ul style="list-style-type: none"> - Physiology, regulation .Factor affecting body Temperature. - Assessment of body temperature: sites, equipments and technique special considerations - Temperature alterations: Hyperthermia, heat stroke, hypothermia - Hot and cold applications * Pulse <ul style="list-style-type: none"> - Physiology and regulation, characteristics of the pulse, factors affecting pulse - Assessment of pulse: sites, location, equipment and technique, Special consideration - Alteration in pulse * Respiration <ul style="list-style-type: none"> - Physiology and regulation, mechanics of breathing <p>Characteristics of the respiration, factors affecting respiration</p> <ul style="list-style-type: none"> - Assessment of pulse: site, location, equipments and technique, special consideration - Alteration in pulse. <p>* Respiration:</p> <ul style="list-style-type: none"> - Physiology and regulation, mechanics of breathing, characteristics, Factors affecting respiration 	15hrs

	<ul style="list-style-type: none"> - Assessment of respiration: technique, special consideration - Alteration in respiration * Blood pressure <ul style="list-style-type: none"> - Physiology and regulation, characteristics of blood pressure, Factors affecting blood pressure. - Assessment of blood pressure: equipments, technique, special consideration. - Alteration in blood pressure * Reading of vital signs 	
UNIT 8	<p>Health assessment</p> <p># Purpose</p> <p># Process of health assessment</p> <ul style="list-style-type: none"> - Health history - Physical examination <p># Methods- inspection., palpation, percussion, auscultation olfaction</p> <p># Preparation of examination; patient and unit</p> <p># General assessment</p> <p># Assessment of each body system</p> <p># Recording of health assessment</p>	30 hrs
UNIT 9	<p>Machinery equipment and Linen</p> <ul style="list-style-type: none"> - Type Disposable and reusable – linen, rubber gods, glass ware, mental, plastics, furniture machinery <p>Introduction</p> <ul style="list-style-type: none"> - Indent - Maintenance - Inventory 	5hrs

UNIT 10	<p>Meeting needs of patient</p> <p>* Basic needs (Activity of daily living)</p> <ul style="list-style-type: none"> - Providing safe and clean environment - Physical- environment, temperature humidity, noise, ventilation, light, odors, pests control, reduction of physical hazards: Fire accidents - Safety devices restraints, side rails, airways, trapeze etc. - Role of nurse in providing safe and clean environment <p>* Hygiene - Factors influencing hygiene practices</p> <ul style="list-style-type: none"> - Hygienic care: care of the skin – bath and pressure points, feet and nail, oral cavity, hair care, eyes, ear and nose - Assessment, principles, types, equipments procedure, special considerations - Patient environment : Room equipment and linen, making patient beds - Types of beds and bed making - Comport:- - Factors influencing comport - Comport devices <p>* Physiological needs;</p> <p># Sleep & rest</p> <ul style="list-style-type: none"> - Physiology of sleep - Factors affecting Sleep - Promoting rest & sleep - Sleep disorders <p># Nutrition</p> <ul style="list-style-type: none"> - Importance - Factors affecting nutritional needs - Assessments of nutritional needs variables - meeting nutritional needs principles, equipments, procedure and special considerations <ul style="list-style-type: none"> * Oral * Central : Naso/ orgastric, gastrostomy * Parental <p>* Urinary elimination</p> <ul style="list-style-type: none"> - Review of physiology of urine elimination, composition and characteristics of urine - Factor influencing urination - Alteration in urinary elimination - Types & collection of urine specimen: observation, urine testing - Facilitating urine elimination : assessment, types, 	60hrs
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	<p>equipments, procedure and special considerations</p> <ul style="list-style-type: none"> # Providing urinal & bed pan # Condom drainage # Perineal care # Catheterization # Care of urinary drainage # Care of urinary diversion # Bladder irrigation <p>* Bowel elimination</p> <ul style="list-style-type: none"> - Review of physiology of bowel elimination. <p>Composition and characteristics of feces.</p> <ul style="list-style-type: none"> - Factor influencing bowel elimination <p>Alteration in bowel elimination</p> <ul style="list-style-type: none"> - Types & collection of feces specimen: observation - Facilitating bowel elimination: assessment, <p>equipment, procedures and special considerations</p> <ul style="list-style-type: none"> # Passing of flatus tube # Enemas # Suppositories # 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 <p>mobility</p> <ul style="list-style-type: none"> - Factors affecting body alignment and mobility - Hazards associated with immobility - Alteration in body alignment and mobility - Nursing intervention for impaired body alignment <p>and mobility: assessment, types, devices used, method and special consideration, rehabilitation aspects</p> <ul style="list-style-type: none"> # 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 - Alteration in oxygenation - Nursing intervention in oxygenation: assessment, <p>types, equipments used, procedure and special consideration</p> <ul style="list-style-type: none"> # Maintenance of patient airway # Oxygen administration # Suction # Inhalation: dry & moist # Chest physiotherapy and postural drainage # Pulse oxymetry # CPR- Basic life support <p>* Fluid, electrolyte and acid-base balance</p> <ul style="list-style-type: none"> - Review of physiological regulation of fluid 	
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UNIT-11	<p>Infection control and clinical settings</p> <ul style="list-style-type: none"> * Infection control <ul style="list-style-type: none"> - Nature of infection - Chain of infection transmission - Defenses against infection: natural and acquired - Hospital acquired infection - Concept of asepsis: medical asepsis and surgical asepsis - Isolation precaution (barrier nursing) <ul style="list-style-type: none"> # Hand washing: simple, hand antisepsis and surgical antisepsis (scrub) # Isolation: source and protective # Personal protective equipments: types, uses and technique of wearing and removing # Decontamination of equipments and unit # Transportation of infected patients # Transmission based precautions * Biomedical waste management <ul style="list-style-type: none"> - Importance - Types of hospital waste - Hazards associated with hospital waste - Decontamination of hospital waste - Segregation and transportation and disposal 	20 hrs
UNIT-12	<p>Administration of Medication</p> <ul style="list-style-type: none"> * General principles/ considerations <ul style="list-style-type: none"> - Purpose of medications - Principles : 5 rights, special considerations, prescriptions, safety in administering medication and medication errors - Drug forms - Route of administration - Storage & maintenance of drug and nurses responsibility - Broad classification of drugs - Therapeutic effect, side effects, toxic effects, idiosyncratic reaction, allergic reaction, drug tolerance, drug interaction - Factors influencing drug action - Systems of drug measurements: metric system, apothecary system, households measurement, solution - Converting measurements units: Conversion within one system, conversion between system, dosage calculation - Terminologies and abbreviation used in prescription and medications. * Parenteral <ul style="list-style-type: none"> - General principles: decontamination of disposable syringes and needles 	40 hrs.

	<ul style="list-style-type: none"> - Types of parenteral therapies - Types of syringes, needles, canula and infusion sets - Protection from needles stick injuries: giving medication with the safety syringes - Routes of parenteral therapies <ul style="list-style-type: none"> # Intradermal: purpose, site, equipments, procedures, special consideration # Subcutaneous: purpose, site, equipments, procedure, special consideration # Intramuscular: purpose, site, equipments, procedure, special consideration # Intravenous: purpose, site, equipments, procedure, special consideration # Advanced techniques: epidural, intrathecal, intraosseous, intraperitoneal, intrapleural, intra arterial- role of nurse * Topical administration: purpose, site, equipments, procedure, special consideration <ul style="list-style-type: none"> - Application to skin - Application to mucus membrane # Direct application of liquids-Gargle and swabbing the throat # Insertion of drug into body cavity: Suppository/ medicated packing in rectum/ vagina # Instillation: Ear, eye, nasal, bladder and rectal # Irrigation : Ear, eye, bladder, vaginal and rectal # Spraying: Nose and throat * Inhalation: Nasal, oral, end tracheal / tracheal (steam, oxygen and medication) Purposes, types, equipments, procedure, special considerations <ul style="list-style-type: none"> - Recording and reporting of medication administered. 	
UNIT-13	<p>Meeting needs of pre-operative patients</p> <ul style="list-style-type: none"> * Definition and concept of pre operative nursing * Pre-operative phase <ul style="list-style-type: none"> - Preparation of patient for surgery * Intra operative <ul style="list-style-type: none"> - Operative theatre set up and environment - Role of nurse * Post operative phase <ul style="list-style-type: none"> - Recovery unit - Post operative room - Post operative care * Wounds: types, classification, wound healing process, factors affecting wound, complication of wound healing * Surgical asepsis * Care of wound ; types, equipments, procedure and special considerations 	10 hrs.

	<ul style="list-style-type: none"> - Dressing, suture care - Care of drainage - Application of bandages, binders, splints and slings - Heat and cold therapy 	
UNIT-14	<p>Meeting special needs of the patient</p> <ul style="list-style-type: none"> * Care of patient having alteration in <ul style="list-style-type: none"> - Temperature (hyper & hypothermia): Types, assessment, management - Sensorium (Unconsciousness); Assessment and management - Urinary elimination (retention & incontinence); Assessment and management - Functioning of sensory organs(visual & hearing impairment); Assessment and management - Communication method and special considerations - Mobility (physically challenged, cast); Assessment and management - Mental state (mentally challenged); Assessment and management - Communication methods and special considerations - Respiration (distress); Types, assessment, management - Comfort-(pain) nature, types, Factors influencing pain, coping , assessment& management * Treatment related to gastrointestinal system; naso-gastric suction, gastric irrigation, gastric analysis. 	15 hrs.
UNIT- 15	<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 Advanced directives; euthanasia, will, dying declaration, organ donation etc. • Medic-legal issue • care of dead body • Equipment., procedure and care of unit • Autopsy • Embalming 	5hrs
UNIT- 16	<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: peplum's Henderson's Orem. S Newman's Roger's and Roy's • Linking theories with nursing process 	6hrs

Nursing Foundation practical

Placement: - First Year

Practical- 650hrs

(200 and 450 Clinical):

Course Description: This course is designed to help the students to develop an understanding of the philosophy, objectives, theories and process of nursing in various supervised clinical setting. 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	CONTENT	HOURS
UNIT -1	<p>Hospital admission and discharge (III)</p> <ul style="list-style-type: none">• Admission• Prepare unit for new patient• Prepare admission procedure <p>New patient Transfer in</p> <ul style="list-style-type: none">• Prepare patient record <p>Discharge/Transfer out</p> <ul style="list-style-type: none">• Gives discharge counseling• Perform discharge procedure (planned discharge, LAMMA and abscond, referrals and transfers)• Prepare records of discharge/transfer• Dismantle, and disinfect unit and equipment after discharge/transfer <p>Perform assessment</p> <ul style="list-style-type: none">• History taking, nursing diagnosis, problem list, Prioritization goals & outcomes, selection of interventions• Write nursing care plan• Gives care as per the plan <p>Communication</p> <ul style="list-style-type: none">• Use verbal and nonverbal communication techniques Prepare a plan for patient teaching session	200 450 Minimum practice time clinical area

	<p>Write patient report</p> <ul style="list-style-type: none"> • change of shift reports, transfer reports , incident report etc • Presents patient report <p>Vital sign</p> <ul style="list-style-type: none"> • Measure, record and interpret alteration in body temperature pulse respiration and blood pressure Health assessment • Health history taking 	
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	<ul style="list-style-type: none"> • Perform assessment <ul style="list-style-type: none"> -General - Body systems • Use various methods of physical examination • Inspection palpation, Percussion Auscultation, Olfaction • Identification of system wise deviations <p>Prepare patient's Unit</p> <ul style="list-style-type: none"> • Prepare beds <ul style="list-style-type: none"> - Open closed, occupied operation amputation - Cardiac, Fracture, burn and Fowler's bed - Pain assessment and provision for comfort <p>Use comfort devices</p> <p>Hygienic care</p> <ul style="list-style-type: none"> • Oral hygiene • Bath and care of pressure points • Hair wash pediculosis Treatment <p>Feeding</p> <ul style="list-style-type: none"> • Oral, Etenal, Naso/orogastric gastrostomy and parenteral feeding • Naso- gastric insertion suction and irrigation <p>Assisting patient in urinary elimination</p> <ul style="list-style-type: none"> • Provides urinal/bed pan • Condom drainage • Catheterization • Care of urinary drainage <p>Bladder irrigation</p> <p>Assisting bowel elimination</p> <ul style="list-style-type: none"> • Insertion of Flatus tube • Enemas • Insertion of suppository <p>Bowel wash</p> <p>Body alignment and mobility:-</p> <ul style="list-style-type: none"> - Range of motion exercises 	
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	<ul style="list-style-type: none"> - Positioning Recumbent lateral fowlers, Sims, lithotomic, prone, trend burg position - Assist patient in moving lifting transferring, Walking - Rest rants <p>Oxygen administration</p> <p>Suctioning: Or pharyngeal, nasopharyngeal</p> <p>Chest physiotherapy and postural drainage</p> <p>Care of chest drainage</p> <p>CPR- Basic life support</p> <p>Intravenous therapy</p> <p>Blood and blood component therapy</p> <p>Collect/ assist for collection of specimen for investigation urine, sputum, faces, vomit us, blood and other body fluid</p> <p>Perform lab tests:</p> <ul style="list-style-type: none"> • Urine: sugar, albumin and acetone • Blood: sugar (with stripe/ glucometer) <p>Hot and cold application: Local and general sitz bath.</p> <p>Communicating and assisting self care of visually and hearing impaired patients</p> <p>Communicating and assisting self care of mentally challenged/ disturbed patients</p> <p>Recreational and divers ional therapies</p> <p>Caring of patient with alteration in sensation</p> <p>Infection control</p> <ul style="list-style-type: none"> * perform following procedures <ul style="list-style-type: none"> - Hand washing techniques - (Simple, hand antisepsis and surgical antisepsis) - Prepare isolation unit in lab/ward - Practice technique of wearing and removing personal protective equipments - Practice standard safety precaution (universal precautions) * Documentation of equipments and unit:- <ul style="list-style-type: none"> - Surgical asepsis # Sterilization # Handling sterilization equipment # Calculate strengths of lotions # Prepare lotion * Care of articles <p>Pre and post operative care</p> <ul style="list-style-type: none"> • Skin preparation for surgery: Local 	
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	<ul style="list-style-type: none"> • Preparation of post operative unit • Pre & Post operative teaching and counseling • Pre and post operative monitoring • Care of the wound • Dressing, suture care, care of drainage, application of bandage, binders, splint and sling • Bandaging of various body parts. <p>Administration of medications</p> <ul style="list-style-type: none"> • Administer medication in different forms and routes • Oral, sublingual and buccal • Parenteral: intradermal, subcutaneous, intramuscular etc. • Assist with the intravenous medication • Drug measurement and dose calculation • Preparation of lotion and solution • Administer topical applications • Insertion of drug into the body cavity: suppository & medicated packing etc. • Instillation of medicine and spray into Ear, eye, nose and throat • Irrigation: eye, ear, bladder, vagina and rectum • Inhalation: dry and moist <p>Care of dying patient</p> <ul style="list-style-type: none"> • Caring and packing of dead body • Counseling and supporting grieving relatives • Terminal care of the unit 	
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PSYCHOLOGY

Placement: First Year

Theory-60 hrs

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 and mental hygiene for promoting mental health in nursing practice

UNIT	CONTENT	HOURS
UNIT -1	Introduction <ul style="list-style-type: none">History and origin of science of psychologyDefinition & scope of psychologyRelevance to nursingMethods of psychology	2 hrs
UNIT -2	Biology of behavior <ul style="list-style-type: none">Body of relationship- modulation process in health and illnessGenetics and behavior-Heredity and environmentBrain and behavior- Nervous system, neurons and synapseAssociation cortex, Rt and Lt hemispherePsychology of sensationMuscular and glandular controls of behaviorNature of behavior of an organism/ integrated responses	4 hrs
UNIT -3	Cognitive process <ul style="list-style-type: none">Attention: types, determinants, duration and degree, alterationPerception: types, determinants, duration and degree, alterationLearning: Nature, types, learner and learning, factors influencing, laws and theories, process, transfer, study habitsMemory: Meaning, types nature, factors influencing, development theories and methods of memorizing and forgettingThinking: types and levels, stages of development, relationship with language and communicationIntelligence: Meaning , classification, uses, theoriesAttitude Concept, types, individual difference	20 hrs.

	and variability <ul style="list-style-type: none"> • Psychometric assessment of cognitive processes • Alteration in cognitive processes • Application 	
UNIT -4	Motivation and Emotional process <ul style="list-style-type: none"> • Motivation: Meaning, concept, types, theories, motives and behavior, conflicts and frustration conflict and resolution • Emotion and stress <ul style="list-style-type: none"> - Emotion: Definition , components, change in emotions, Theories, emotions in health and illness <ul style="list-style-type: none"> • Stress stressors cycle. Affect adaptation and coping • Attitude meaning nature. Development factors affecting - Behavior and attitudes - Attitudinal Change • Psychometric assessment of emotions and attitudes • Alteration in emotions • Application 	
UNIT – 5	Personality <ul style="list-style-type: none"> • Definition topography, types, theories • Psychometric assessment of personality • Alteration in personality • Application 	7hrs
UNIT – 6	Developmental psychology <ul style="list-style-type: none"> • Psychology of people at different stages from infancy to old age • Psychology of Vulnerable individual challenged, Women, sick • Psychology of groups 	7 hrs
UNIT – 7	Mental Hygiene and Mental Health <ul style="list-style-type: none"> • concept 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 mechanism and implication • Personal and social adjustment • Guidance and counseling • Role of nurse 	8 hrs
UNIT- 8	Psychological assessment and tests	4 hrs

	* Types, development, characteristics, principles, uses, interpretation and role of nurse in psychology assessment	
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INTRODUCTION TO COMPUTERS

Placement: First Year

Theory-45 hrs.

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

UNIT	CONTENT	HOURS	
		Theory	Prac.
UNIT - 1	Introduction <ul style="list-style-type: none">• Concepts of computers• Hardware and software : trends and technology• Application of computers in nursing	3 hrs	----
UNIT - 2	<ul style="list-style-type: none">• Introduction to disk operating system<ul style="list-style-type: none">- DOS- Window (all version)• Introduction<ul style="list-style-type: none">- MS – word- MS – Excel with pictorial presentation- MS – Access- MS – Power point	6 hrs	20 hrs
UNIT - 3	<ul style="list-style-type: none">• Multimedia : types and uses• Computer aided teaching and testing	2 hrs	3 hrs
UNIT - 4	<ul style="list-style-type: none">• Use of internet :e-mail	1hrs	3 hrs
UNIT - 5	<ul style="list-style-type: none">• Statistical Package : types and their feature	2 hrs	2 hrs
UNIT - 6	<ul style="list-style-type: none">• Hospital management system : types and uses	1 hrs	2 hrs

B.Sc. Nursing

Second Year

SOCIOLOGY

Placement: Second Year

Theory-60 hrs.

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

UNIT	CONTENT	HOURS
UNIT -1	Introduction <ul style="list-style-type: none">• Definition of sociology• Nature and scope of discipline• Importance and application of sociology in nursing	1hrs
UNIT -2	Individual and Society <ul style="list-style-type: none">• Society and community• Nature of Society• Difference between society and Community• Process of socialization and individualization• Personal disorganization	3hrs
UNIT -3	Culture <ul style="list-style-type: none">• Nature of Culture• Evolution of Culture• Diversity and uniformity of Culture• Culture and Civilization• Tran cultural Society• Influence on health and disease	3 hrs
UNIT – 4	Social groups and Process <ul style="list-style-type: none">• The meaning and Classification of groups• Primary and Secondary group• In –group V/s Out put, class Tribe, caste• Economic, Political, religious groups, mob, crowd, public and audience interaction and social process• Co-operation, competition, conflict• Accommodation assimilation and isolation	4hrs
UNIT – 5	Population <ul style="list-style-type: none">• Society and population	6 hrs.

	<ul style="list-style-type: none"> • Malthusian theory of population • Population explosion in India and its impact on health status • Family welfare programme 	
UNIT – 6	<p>Family and marriage</p> <ul style="list-style-type: none"> • Family Functions • Types- joint nuclear, blended and extended Family: characteristics • The modern family- changes, problems-dowry etc. Welfare services • Changes and legislation on family and marriage in India-Marriage acts. • Marriage: forms and function of marriage • Marriage and family problem in India. • Family, marriage and their influence on health and health practice 	5 hrs
UNIT-7	<p>Social Stratification</p> <ul style="list-style-type: none"> • Meaning and types of social stratification • The Indian caste system-origin and feature • Features of caste in India today • Social class system and status • Social mobility- Meaning and types • Race as a biological concept, criteria of racial classification • Salient feature of primary races- racism • Influence of class, caste and race on health and health practices 	7hrs
UNIT-8	<p>Types of communication in India (Rural, urban regional)</p> <ul style="list-style-type: none"> • Features of village community and characteristics of Indian villages – panchayat system , social dynamics • Community development project and planning • Changes in Indian rural life • Availability of health facilities in rural and its impact on health and health practice • 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 	6 hrs
UNIT - 9	<p>Social change</p> <ul style="list-style-type: none"> • Nature and process of social change • Factors influencing social change: cultural 	4hrs

	<p>change, cultural lag.</p> <ul style="list-style-type: none"> • Introduction to theories of social change: linear, cyclical Marx functional <p>Role of Nurse - change agents</p>	
UNIT – 10	<p>Social organization and social change</p> <ul style="list-style-type: none"> • Social organization : elements, types • Democratic and authoritian modes of participation Voluntary associations • Social system : definition and types of social system • Inter – relationship of institutions 	4 hrs
UNIT-11	<p>Social control</p> <ul style="list-style-type: none"> • Nature and process of social control • Political, legal, religion, educational economic , industrial and Technological system norms and values – Folkways & mores customs laws and fashion <p>Role of nurse</p>	2hrs
UNIT- 12	<p>Social Problems</p> <ul style="list-style-type: none"> • Social disorganization • Control and planning poverty housing illiteracy, food supplies prostitution rights of women and children ,venerable groups Elderly, handicapped, minority group , child labor, substance abuse, HIV/AIDS • Social welfare programme in India <p>Role of Nurse</p>	15hrs

Pharmacology

Placement: Second Year

Theory – 45Hrs.

Course Description: This course is designed to enable students to acquire understanding of pharmaco-dynamics, pharmacokinetic, principles and therapeutic and nursing implication

UNIT	CONTENT	HOURS
UNIT 1	<p>Introduction to pharmacology</p> <ul style="list-style-type: none">• Definition• Sources• Terminology used• Types, classification• Pharamacodynamics<ul style="list-style-type: none">Action, therapeutic• Adverse toxic• Pharmacokinetics ablsorapti8on, interaction excretion• Review routes and principles of administration of drugs• Indian pharmacopoeia Legal issue• Rational use of drugs• Principles of therapeutics	3 Hrs
UNIT-2	<p>Chemotherapy</p> <ul style="list-style-type: none">• Pharmacology of commonly used<ul style="list-style-type: none">- Penicillin- Sources- Cephalosporins- Aminnoglycosides	6 Hrs

	<ul style="list-style-type: none"> - Macrolilide and Broad spectrum antibiotics - Sulfonamides - Quinolones - Ant amoebic - Antimalaria - Anthelminities - Antiscabies agents - Antiviral and anti fungal agents - Ant tubercular drugs - Anti leprosy - Anticancer drugs - Immunosuppressant <p>Composition, action, dosage, route, indications contraindication, drugs Interaction, side effects, adverse effects, toxicity and role of nurse</p>	
UNIT- 3	<p>Pharmacology of commonly used antiseptics, disinfectants and insecticides</p> <p>Antiseptics: Composition, action dosage route, indications, contraindication, drug Interaction, side effects, adverse effects, toxicity and role of nurse</p> <ul style="list-style-type: none"> • Disinfectants • Insecticides 	2 hrs.
UNIT- 4	<p>Drug action on GI system</p> <ul style="list-style-type: none"> • pharmacology of commonly used - Antiemtics - Emetics - Purgatives - Antacids - Cholinergic - Fluid and electrolyte therapy - Anti diarrhoeals - Histamines <p>Composition, action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects, toxicity and role of nurse</p>	2 hrs.
UNIT-5	<p>Drugs used on respiratory system</p> <p>* Pharmacology of commonly used</p> <ul style="list-style-type: none"> - Antiasthematics - Mucolyties - Decongestants - Expectorants - antitussives - Bronchodilators - Antihistamins 	2 hrs.

	Composition, action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects, toxicity and role of nurse	
UNIT- 6	<p>Drugs used in Urinary system</p> <ul style="list-style-type: none"> • Pharmacology of commonly used <ul style="list-style-type: none"> - Diuretics and ant diuretics - Urinary antiseptics - Cholinergic and anticholinergic - Acidifiers and alkalizers <p>Composition, action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects, toxicity and role of nurse</p>	2 hrs.
UNIT-7	<p>Miscellaneous</p> <ul style="list-style-type: none"> • Drugs used in deaddiction • Drug used in CPR and emergency • Vitamins and minerals • Immunosuppressant • Antidotes • Antivenom • Vaccines and sera 	4 hrs.
UNIT- 8	<p>Drugs used on skin and mucus membranes</p> <ul style="list-style-type: none"> • Topical application for skin, eye, ear, nose, and buccal cavity Antipruritics <p>Composition, action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effect, toxicity and role of nurse</p>	1 hrs.
UNIT- 9	<p>Drugs acting on nervous system</p> <ul style="list-style-type: none"> • Basic and applied pharmacology of commonly used • Analgesics <ul style="list-style-type: none"> # Non steroidal anti inflammatory drug (NSAID) • Antipyretics • Hypnotics and sedatives <ul style="list-style-type: none"> # Opioids # Non opioids # Tranquilizers # General and local anesthetics 	8 hrs.

	<p># Gases: oxygen, nitrous oxide, carbon dioxide</p> <ul style="list-style-type: none"> • Cholinergic and anticholinergic - Muscle relaxants - Major Tranquilizers - Anti psychotics - Anticonvulsants - Adrenergics - Nonadnergics - Mood stablizers Acetylcholine - Stimulants <p>Composition, action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effect, adverse effect, toxicity and role of nurse</p>	
UNIT- 10	<p>Cardiovascular drugs</p> <ul style="list-style-type: none"> • Haematinics • Cardio tonics • Anti anginals • Anti hypertensive and vasodilators • Anti-arrhythmic • Plasma exponders • Coagulants and anticoagulants • Antiplatelets and thrombolytics • Hyplipidemics <p>Composition, action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects, toxicity and role of nurse</p>	5 hrs.
UNIT-11	<p>Drug use for hormonal disorders and supplementation, contraception and medical termination of pregnancy</p> <ul style="list-style-type: none"> • Insulin and oral hypoglycemic • Thyroid supplement and suppressants • Steroids, antibolics • Uterine stimulants and relaxants • Oral contraceptives • Other estrogen- progesterone preparation • Corticotrophine & gonadotropines • Adrenaline • Prostaglandins • Calcitonins • Calcium salts • Calcium regulators 	4 hrs.

	Composition, action, dosage, route, indications, contraindication, drug Interaction, side effects, adverse effects, toxicity and role of nurse	
UNIT- 12	Introduction to drug used in alternative systems of medicine * Ayurveda, Homeopathy, Unani & Sidha etc.	6hrs.

PATHOLOGY AND GENETICS

SECTION A – PATHOLOGY

**Placement; Second year
hours**

Time Theory – 30

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	CONTENT	TIME (HRS)	
UNIT - 1	INTRODUCTION <ul style="list-style-type: none"> • Importance of study of pathology • Definition of terms • Methods of technique • Cellular and tissue changes • Infiltration and regeneration • Inflammation and infection • Wound healing • Vascular changes 	Thr. 3	Pr

	Cellular growth , Neoplasms <ul style="list-style-type: none"> • Normal and cancer cell • Benign and Malignant growth • In situ carcinoma Disturbances in fluid and electrolyte imbalance		
UNIT -2	Special pathology <ul style="list-style-type: none"> • Pathological changes in disease conditions of various systems : • Respiratory tract Tuberculosis , Bronchitis, pleural effusion and pneumonia , Lung abscess Emphysema, Bronchiectasis. Bronchial asthma , Chronic Chronic obstructive pulmonary disease & tumors Cardio – vascular System <ul style="list-style-type: none"> • Pericardial effusion • Rheumatic heart disease • Infective endocarditic, atherosclerosis • Ischemia, infarction & aneurysm Gastro Intestinal Tract <ul style="list-style-type: none"> • Petic ulcer, typhoid • Carcinoma of GI tract-buccal, esophageal • Gastric and intestinal 	10	5

	Liver Gall bladder & pancreas <ul style="list-style-type: none"> • Hepatitis, Chronic, liver abscess, cirrhosis • Tumors of liver gall bladder and pancreas • Cholecystitis Kidneys and Urinary Tract: <ul style="list-style-type: none"> • Glumerulonephritis, Pyelonephritis • Calculi, renal failure, renal carcinoma & cystitis Male genital systems <ul style="list-style-type: none"> • Cryptorchidism, testicular atrophy • Prostatic hyperplasia carcinoma penis,& prostrate Female genital system <ul style="list-style-type: none"> • Fibroids • Carcinoma cervix and endometrium • Vesicular mole, Choriocarcinoma • Ectopic gestation 		
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	<ul style="list-style-type: none"> • Ovarian cyst & tumors <p>Cancer Breast</p> <p>Central Nervous System</p> <ul style="list-style-type: none"> • Hydrocephalus, Meningitis, Encephalitis • Vascular disorders- thrombosis, embolism • Stroke, paraplegia, Quadraplegia • Tumors, meningiomas- gliomas <p>Metastatic tumors</p> <p>Skeletal system</p> <ul style="list-style-type: none"> • Bone haling, osteoporosis, osteomyelitis <p>Arthritis & tumors</p>		
UNIT-3	<p>Clinical pathology</p> <ul style="list-style-type: none"> • Various blood and bone marrow test in assessment and monitoring of disease conditions • Hemoglobin • RBC, White cell & platelet counts • Bleeding time, clotting time and prothrombin time • Blood grouping and cross matching • Blood Chemistry • Blood culture • Serological and immunological test • Other blood test • Examination of bone marrow • Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, <p>Inference and normal values</p>	4	3
UNIT 4	<p>Examination of body cavity fluids, triangulates 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 • Analysis of gastric and duodenal contents • Analysis of semen sperm count, motility and morphology and their importance in infertility 	2	1
UNIT- 5	<p>Urine and Faeces</p> <p># Urine</p> <ul style="list-style-type: none"> • Physical characteristics • Analysis • Culture and sensitivity 	1	1

	# Faeces <ul style="list-style-type: none"> • characteristics • Stool examination: occult blood, Ova, parasite and cyst, reducing substances etc. Methods of collection for various tests, inference and normal values		
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SECTION –B GENETICS

Placement: Second Year

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	CONTENT	TIME (HRS)
UNIT -I	Introduction <ul style="list-style-type: none"> • Practical application of genetics in Nursing 	3

	<ul style="list-style-type: none"> • Impact of genetic condition on Families • Review of cellular division mitosis and meiosis • Characteristics and structure of genes • Chromosomes and sex determination • Chromosomal aberration patterns of inheritance <ul style="list-style-type: none"> # Medallion theory of inheritance # multiple allots and blood groups # Sex linked inheritance # Errors in transmission (Mutation) 	
UNIT– II	<p>Maternal, prenatal and genetic influence on development of defects and disease</p> <ul style="list-style-type: none"> • Condition affecting the mother genetic and infections • Consanguinity atopy • Prenatal nutrition and food allergies • Maternal age • Maternal drugs therapy • Prenatal testing and diagnoses • Effect of radiation, drugs and chemicals • Infertility • Spontaneous abortion • Neural tube defects and the role of folic acid in lowering the risk • Downs syndrome(Trisomy 21) 	3
UNIT- III	<p>Genetic testing in neonates and children</p> <ul style="list-style-type: none"> • Screening for <ul style="list-style-type: none"> # Congenital abnormalities # Development delay # Dysmorphism 	2
UNIT- IV	<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 hematological disorder • Genetic haemochromatosis • Huntington's disease • Mental illness 	2
UNIT V	<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 	5

**Medical and Surgical
(Adult including Geriatrics)**

Placement: Second Year

**Time: theory – 210 hours
Practical -720hours**

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

UNIT	CONTENT	TIME(HRS)
UNIT – 1	INTRODUCTION <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. Diseases (ICD -10 or later version) Acute illness Chronic 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 of medical and surgical settings. Settings • Outpatient department • In - patient unit • Intensive care unit • Home and Community • Introduction to of Medical and surgical asepsis <ul style="list-style-type: none"> ▪ Inflammation and infection ▪ Wound healing ▪ Care of Surgical patient ▪ Pre-operative ▪ Intra-operative ▪ Post-operative 	15
UNIT- II	Common signs and symptoms and management <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 problem- Geriatric 	15
UNIT- III	Nursing management of Patients (adults including elderly) with respiratory problems <ul style="list-style-type: none"> • Review of anatomy and physiology of respiratory 	20

	<p>systems</p> <ul style="list-style-type: none"> • 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) • Broncheectasis • Pneumonia • Pulmonary tuberculosis • Lung abscess • Pleural effusion • Cysts and tumors • Chest injuries • Respiratory arrest and insufficiency • Pulmonary embolism <p>Special therapies, alternative therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of respiratory disorders</p>	
Unit- IV	<p>Nursing management of Patients (adults including elderly) with disorders of digestive systems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of digestive systems • Nursing Assessment – History and physical assessment • Etiology, Pathophysiology clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management ❑ Disorders of- oral cavity- lips, gums, tongue, salivary glands and teeth ❑ Oesophagus - inflammation, structure obstruction, bleeding and tumors. ❑ Stomach and Duodenum- hiatus hernia, gastritis, peptic ulcer, duodenum ulcer, bleeding, tumours, pyloric stenosis ❑ Small intestinal disorders-Colitis inflammation and infection, enteritis, obstruction, bleeding and tumour and perforation ❑ Large intestinal disorders- Colitis inflammation and infection, enteritis, obstruction, tumour and lump 	

	<input type="checkbox"/> Hernias <input type="checkbox"/> Appendix- inflammation, mass, abscess, rupture <input type="checkbox"/> Anal & Rectum, hemorrhoids, fissures and fistulas <input type="checkbox"/> Peritonitis/acute abdomen <input type="checkbox"/> Pancreas: inflammation, cyst, abscess and tumour. <input type="checkbox"/> Liver: inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure and tumour <input type="checkbox"/> Gall Bladder: inflammation, obstruction, stones and tumour. Special therapies, alternative therapies Nursing procedures Drug used in treatment of disorders of digestive systems.	
Unit V	Nursing management of patients (adults including elderly) with blood and cardio vascular problems. <ul style="list-style-type: none"> • Review of anatomy and physiology of blood and cardio vascular system. • Nursing Assessment- History and physical assessment • Etiology pathphysiology Clinical manifestations diagnosis treatment modalities and medical surgical dietetics & nursing management of , • Vascular system • Hypertension hypotension • Artherosclerosis • Raynaud's disease • Aneurysm and peripheral vascular disorder Heart <ul style="list-style-type: none"> • Coronary artery disease • Ischemic Heart Disease • Coronary arteriosclerosis • Angina pectoris • Myocardial infraction • Muscular disorders of the heart • Congenital and acquired • Rheumatic Heart diseases Endocarditis, pericarditis/myocarditis <ul style="list-style-type: none"> • Cardio Myopathies • Cardiac dysrhythmias, Heart Block • Congestive cardiac failure <ul style="list-style-type: none"> <input type="checkbox"/> Cor-pulmonale, pulmonary edema, cardiogenic shock cardiac tamponade • Cardiac emergencies and arrest • Cardio pulmonary Resuscitation (CPR) • Blood 	30

	<ul style="list-style-type: none"> <input type="checkbox"/> Anemia's <input type="checkbox"/> Polycythemia <input type="checkbox"/> Bleeding disorders, clotting factors defects and platelets defects <input type="checkbox"/> Thalassemia <input type="checkbox"/> Leukaemias <input type="checkbox"/> Leukopenias and agranulocytosis <input type="checkbox"/> Lymphomas <input type="checkbox"/> Myelomas • Special therapies <ul style="list-style-type: none"> <input type="checkbox"/> Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion, reaction, records for blood transfusion <input type="checkbox"/> 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 <input type="checkbox"/> Role of a nurse in organ donation, retrieval and banking Alternative therapies Nursing procedures Drug used in treatment of blood and cardio vascular disorders. 	
Unit-VI	<p>Nursing management of patients (adults including elderly) with Gento-Urinary problems.</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of Gento-Urinary systems. • Nursing assessment-History and physical assessment • Etiology, pathophysiology clinical manifestations diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of- • Nephritis • Nephrotic syndrome • Nephrosis • Renal calculus • Tumours • Acute renal failure • Chronic renal failure • End stage renal disease • Dialysis, renal transplant • Congenital disorders, urinary infections • Benign prostatic hypertrophy • Disorders of ureter, urinary bladder and urethra-inflammation, infection, structure, obstruction, tumour, prostrate <p>Special therapies, alternative therapies</p>	10

	<p>Nursing procedures</p> <p>Drug used in treatment of disorders of Genito-Urinary systems</p>	
UNIT-VII	<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 male reproductive system • Congenital malformations , cryptorchidism • Hypospadias Epispadiasis • Infection • Testis and adjacent structures • Penis • Prostate inflammation, infection hypertrophy tumour • Sexual dysfunction • Infertility • Contraception • Breast gynecomastia tumour • Climacteric Changes. Special theories alternative therapies • Nursing procedures • Drugs used in treatment of disorders of male reproductive system 	5
UNIT-VIII	<p>Nursing management of patients (adults including elderly) with disorders of endocrine systems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of endocrine system • Nursing Assessment -History and physical assessment <p>Etiology, pathophysiology clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of-</p> <ul style="list-style-type: none"> <input type="checkbox"/> Disorders of Thyroid and parathyroid <input type="checkbox"/> Diabetes mellitus <input type="checkbox"/> Adrenal tumour <input type="checkbox"/> Pituitary disorders <p>Special therapies, alternative therapies</p> <p>Nursing procedures.</p> <p>Drugs used in treatment of disorders of endocrine systems</p>	15
UNIT-IX	<p>Nursing management of patients (adults including elderly)</p>	10

	<p>with disorders of integumentary system</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of integumentary system • Nursing Assessment History and physical assessment • Etiology, pathophysiology clinical manifestations, diagnosis treatment modalities and medical, surgical, dietetics & nursing management of skin and its appendages <p><input type="checkbox"/> Lesions and abrasions</p> <p><input type="checkbox"/> Infection and infestations, Dermatitis</p> <p><input type="checkbox"/> Dermatoses: Infectious and infectious “ Inflammatory Dermatoses”</p> <p><input type="checkbox"/> Acne Vulgaris</p> <p><input type="checkbox"/> Allergies and Eczema</p> <p><input type="checkbox"/> Psoriasis</p> <p><input type="checkbox"/> Malignant melanoma</p> <p><input type="checkbox"/> Alopecia</p> <p>Special therapies, alternative therapies</p> <p>Nursing procedures</p> <p>Drug used in treatment of disorders of integumentary system.</p>	
UNIT-X	<p>Nursing management of patients (adults including elderly) with disorders of musculoskeletal system</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 <p><input type="checkbox"/> Muscles, Ligaments and joints- inflammation, infection, trauma</p> <p><input type="checkbox"/> Bones- inflammation, infection, dislocation, fracture, tumour and trauma</p> <p><input type="checkbox"/> Osteomalacia and osteoporosis</p> <p><input type="checkbox"/> Arthritis</p> <p><input type="checkbox"/> Congenital deformities</p> <p><input type="checkbox"/> Spinal column- defects and deformities, tumour, prolapsed inter vertebral disc, pott’s spine</p> <p><input type="checkbox"/> Paget’s disease</p> <ul style="list-style-type: none"> • Amputation • Prosthesis • Transplant & replacement surgeries • Rehabilitation <p>Special therapies, alternative therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of disorders of musculoskeletal</p>	15

	system.	
UNIT-XI	<p>Nursing management of patients (adults including elderly) with immunological system</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- <p> <input type="checkbox"/> Immunodeficiency disorder <input type="checkbox"/> Primary immuno deficiency <input type="checkbox"/> Phagocytic dysfunction <input type="checkbox"/> B-cell and T- cell deficiency <input type="checkbox"/> Secondary immuno deficiency <input type="checkbox"/> Acquired immuno deficiency syndrome (AIDS) <input type="checkbox"/> Incidence of HIV & AIDS <input type="checkbox"/> Epidemiology <input type="checkbox"/> Transmission- Prevention of Transmission <input type="checkbox"/> Standard Safety Precautions <input type="checkbox"/> Role of nurse Counseling <input type="checkbox"/> Health education and home care consideration <input type="checkbox"/> National AIDS control progaramme – NACO various national and international agencies <input type="checkbox"/> Infection control program <input type="checkbox"/> Rehabilitation </p> <p>Special therapies alternative therapies Nursing procedures Drugs used in treatment of disorders of Immunological system</p>	10
UNIT XII	Nursing management of patients (adults including elderly)	20

	<p>with communicable Disease</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 control and eradication of common Communicable diseases <ul style="list-style-type: none"> <input type="checkbox"/> Tuberculosis <input type="checkbox"/> Diarrhoeal disease <input type="checkbox"/> Hepatitis A- E <input type="checkbox"/> Herpes <input type="checkbox"/> Chickenpox <input type="checkbox"/> Small pox <input type="checkbox"/> Typhoid <input type="checkbox"/> Meningitis <input type="checkbox"/> Gas gangrene <input type="checkbox"/> Leprosy <input type="checkbox"/> Dengue <input type="checkbox"/> Plague <input type="checkbox"/> Malaria <input type="checkbox"/> Diphtheria <input type="checkbox"/> Pertussis <input type="checkbox"/> Poliomyelitis <input type="checkbox"/> Measles <input type="checkbox"/> Filariasis <ul style="list-style-type: none"> <input type="checkbox"/> HIV AIDS <ul style="list-style-type: none"> • reproductive tract infection • Special infection control measures notification, isolation Quarantine, immunization, infectious disease hospitals Special therapies, alternative therapies Nursing procedures Drugs used in treatment of communicable diseases 	
UNIT XIII	Preoperative nursing care	25

	<ul style="list-style-type: none"> • Organization and physical set- up of the operation theatre (OT) <ul style="list-style-type: none"> <input type="checkbox"/> Classification <input type="checkbox"/> O.T. DESIGN <input type="checkbox"/> Staffing <input type="checkbox"/> members of OT team <input type="checkbox"/> Duties and responsibilities of nurse in OT <input type="checkbox"/> Principles of health and operating room attire <input type="checkbox"/> Instrument <input type="checkbox"/> Suture and sutures material <input type="checkbox"/> equipments <input type="checkbox"/> O. T. tables and set for common surgical procedures <input type="checkbox"/> Position and draping for common surgical procedures <input type="checkbox"/> Scrubbing procedures <input type="checkbox"/> Gowning and gloving <input type="checkbox"/> Preparation of OT sets Monitoring the patient during surgical procedures • Maintenance of therapeutic environment in O T • Standard safety Measures <ul style="list-style-type: none"> <input type="checkbox"/> Infection control fumigation disinfections and sterilization <input type="checkbox"/> Biomedical waste management <input type="checkbox"/> Prevention of accidents and hazards in O T • Anesthesia <ul style="list-style-type: none"> <input type="checkbox"/> Types <input type="checkbox"/> Methods of administration <input type="checkbox"/> Effects and stages <input type="checkbox"/> Equipments <input type="checkbox"/> Drugs • Cardiopulmonary resuscitation (CPR) • Pain management techniques <ul style="list-style-type: none"> <input type="checkbox"/> Legal aspects 	
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MEDICAL SURGICAL NURSING

(Adult including geriatrics)- I

Practical

Placement: Second Year

times: 720 hours

AREA	SKILLS	DURATON (in Weeks)
General Medical Ward (Respiratory, Endocrine, Renal, Hematology)	<ul style="list-style-type: none"> • Assessment of the patient <ul style="list-style-type: none"> - Taking history - Perform general and specific Examination - Identify alteration and deviations • Practice Medical Surgical asepsis Standard safety Measures • Administer medications <ul style="list-style-type: none"> - Oral, IV M Subcutaneous • IV Therapy <ul style="list-style-type: none"> - IV Canulation - Maintenance and Monitoring • Oxygen therapy by different Methods • Mobilization • Chest Physiotherapy • Naso gastric Feeding • Assist in common diagnostic • Perform/Assist in therapeutic procedures • Blood and c component therapy • Throat suctioning • Collect specimen for common investigations • Maintain elimination <ul style="list-style-type: none"> - Catheterization - Bowel wash - Enema - Urinary drainage • Maintain intake output and documentation • Counsel land teach related to specific disease conditions 	6

General Surgical Ward (Gl Urinary,	<ul style="list-style-type: none"> • practice medical surgical asepsis • Standard safety Measures 	6
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CTVS)	<ul style="list-style-type: none"> • Pre- operative preparation of the patients • Post operative care <ul style="list-style-type: none"> - Receiving patient , assessment - Monitoring care • Care of wounds and drainage • Sutures removal • Ambulating and exerciser • Naso gastric aspiration • Care of chest drainage • Ostomy care <ul style="list-style-type: none"> - Gastrostomy - Colostomy - Entrostomy • Blood component and therapy • Practice Universal precaution 	
Cardiology Ward	<ul style="list-style-type: none"> • Physical examination of the cardio vascular system recoding and interpreting ECG • Monitoring of patient • Preparation and assisting in non- invasive and invasive diagnostic procedures • Administer cardiac drugs • Cardio pulmonary resuscitation • Teach patient and families • Practice medical and surgical asepsis standard safety measures 	2
Skin and Communicable disease ward	<ul style="list-style-type: none"> • Assessment of patient with skin disorders • Assist in diagnostic and therapeutic procedures • Administer topical medication • Practice medical and surgical asepsis standard safety measures • Use of personal protective equipment (PPE) • Give medicated baths • Counseling HIV positive patient • Teach prevention of infection disease 	1
Orthopedic Ward	<ul style="list-style-type: none"> • Assessment of orthopedic patient • Assist in application of plaster cast and removal of cast • Apply skin traction, buck's traction • Assist in application and removal of prosthesis • Physiotherapy and range of motion exercises (ROM) muscle strengthening exercises • Crutch maneuvering technique • Activities of daily living 	2

	<ul style="list-style-type: none"> • Ambulance • Teach and counsel patients and families • Scrubbing, gowing, gloving • Identify instruments • Suturing • Material for common operations • Disinfection, carbolization, Fumigation • Preparation of instrument sets for common operations • Sterilization of sharp and other instruments • Prepare OT table depending upon the operation • Positioning and monitoring of the patient • Endotracheal intubation • Assisting in minor and major operations • Handling specimens • Disposal of waste as per guidelines. 	
Operation theatre		6

INTRENSHIP**TIME: 260 hrs. (9WEEKS)**

ICU, CCU, CARDIAC. O T	<ul style="list-style-type: none">• Assist in arterial Puncture for blood gas analysis• Perform ECG and interpret accordingly• Conduct and analysis Pulse toiletry• care with artificial airway• Assist in en tracheal incubation• Setting up ventilators• Drugs Sheet• Observation of special procedure in OT	2
Neuro, ICU,ITU,OT	<ul style="list-style-type: none">• Assess neurological status• Implement care to head injury spinal injury• Drug sheet• Pre and post operative care with neureo surgery patients	2
Burns and plastic reconstructive surgery	<ul style="list-style-type: none">• Nursing care	2
OT, Laparoscopic Orthopedic, Eye, ENT		3

COMMUNITY HEALTH NUSING –I

Placement: Second Year

Theory- 90hrs

Practical – 135 hours

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

UNIT	CONTENT	HOURS
UNIT- 1	Introduction <ul style="list-style-type: none">• Community health nursing• Definition, concept and dimensions of health• Promotion of health• Maintenance of health	2hrs
UNIT -2	Determinations of health <ul style="list-style-type: none">• Eugenic• Environment<ul style="list-style-type: none">- physical air, light ventilation, water, housing sanitation, disposal of waste, disposal of dead bodies forestation noise climate , communication infrastructure facilities and linkage- Acts regulating the environment: National pollution control board- Bacterial and viral agents, host carriers and immunity arthropods and rodents• food hygiene : Production, preservation, purchase, preparation, consumption• act Regulation food hygiene- prevention and food adulteration act, drug and cosmetic act• Socio-cultural<ul style="list-style-type: none">- customs- Marriage system- Family structure- Status of special group females,. children elderly, challenged groups and sick persons• Life style• Hygiene• Physical activity<ul style="list-style-type: none">- Recreation and sleep- Sexual life- Spiritual life philosophy	20hrs

	<ul style="list-style-type: none"> - Self reliance - Dietary pattern - Education - Occupation • Financial management <ul style="list-style-type: none"> - Income - Budget - Purchasing power - Security 	
UNIT-3	<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 • Level of prevention • Methods of epidemiology <ul style="list-style-type: none"> - Descriptive - Analytical: Epidemic investigation - Experimental 	10 hrs.
UNIT-4	<p>Epidemiology and nursing management of common communicable disease</p> <ul style="list-style-type: none"> • Respiratory infection <ul style="list-style-type: none"> - Small pox - Chicken pox - Measles - Influenza - Rubella - ARI's and pneumonia - Mumps - Diphtheria - Mumps - Diphtheria - Whooping cough - Meningococcal meningitis - Tuberculosis - SARS • Intestinal infection <ul style="list-style-type: none"> - Poliomyelitis - Viral Hepatitis - Cholera - Diarrhoeal disease - Typhoid fever - Food poisoning - Amoebiasis 	25 hrs.

	<ul style="list-style-type: none"> - Hook worm infection - Ascariasis - Dracunculiasis • Arthropods infection <ul style="list-style-type: none"> - Dengue - Malaria - Filariasis • Zoonoses <p>Viral</p> <ul style="list-style-type: none"> - Rabies - Yellow fever - Japanese encephalitis - Kyasnur forest disease <ul style="list-style-type: none"> • Bacterial <ul style="list-style-type: none"> - Brucellosis - Plague - Human relationship - Anthrax - Leptospirosis • Rickettsial disease <ul style="list-style-type: none"> - Rickettsial zoo noses - Scrub typhus - Tick typhus - Q fever • Parastic Zoonoses <ul style="list-style-type: none"> - Taeniasis - Hydatid disease - Lsieshmaniasis • Surface infection <ul style="list-style-type: none"> - Trachoma - Tetanus - Leprosy - STD & RTI - Yaws - HIV/AIDS <p>Any other</p>	
UNIT-5	<p>Epidemiology and nursing management of non communicable disease</p> <ul style="list-style-type: none"> • Malnutrition: under nutrition, over nutrition, nutritional deficiencies • Anemia • Hypertension • Stroke • Rheumatic: heart disease • Coronary heart disease 	10 hrs.

	<ul style="list-style-type: none"> • Cancer • Diabetes mellitus • Blindness • Accidents • Mental illness • Obesity • Iodine deficiency • Fluorosis • Epilepsy 	
UNIT-6	<p>Demography</p> <ul style="list-style-type: none"> • Definition concept and scope • Method of collection analysis and interpretation of demographic data • Demographic rates and ratio 	6hrs
Unit -7	<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: <ul style="list-style-type: none"> - Overall development : Women empowerment, social economic and educational devolvment - Limiting family size - Promotion of small family norm - Methods spacing (natural, biological chemical mechanical methods etc) - Terminal surgical methods - Emergency contraception 	17hrs

COMMUNITY HEALTH NURSING –I PRACTICAL

Placement: second Year

Practical 135 hours

AREAS	SKILLS	DURATION (in weeks)
Community Health nursing	<ul style="list-style-type: none">• Use techniques of interpersonal relation• Identification of health determinants of community• History taking• Physical examination• Collect specimens- sputum, malaria smear• Perform simple lab test at center blood for hemoglobin and sugar Urine for albumin and sugar• Administer vaccines and medications to adults• Counsel and teach individual family and community<ul style="list-style-type: none">- Nutrition- Hygiene- Self- health monitoring- Seeking health services- Healthy life style- Family welfare methods- Health promotion	2 weeks urban and 2 weeks rural

MICROBIOLOGY

Placement:

theory: 60 hrs (Theory 45+15 lab)

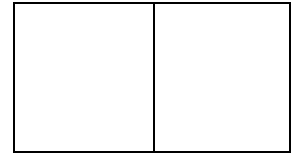
Course:- Description: This course is designed to enable students to acquire understanding of fundamentals for microbiology and identification of various microorganism . It also provides opportunities for practicing infection Control measures in Hospital and Community settings

UNIT	CONTENT	HOURS	
		Th.	Pr.
UNIT-1	Introduction <ul style="list-style-type: none">• Importance and relevance to nursing• Historical prospective• Concepts and terminology• Principles of microbiology	5hrs	----
UNIT 2	General Characteristics of microbes <ul style="list-style-type: none">• Structure and classification of microbes• Morphological types• Size and form of bacteria• Motility• Colonization• Growth and nutrition of Microbes<ul style="list-style-type: none">- Temperature Moisture	10hrs	5 hrs

	<ul style="list-style-type: none"> - Blood and body fluids • Laboratory methods for identification of micro organisms • Staining techniques, gram staining acid fast staining hanging drop preparation • Culture various media - 		
UNIT -3	<p>Infection control</p> <ul style="list-style-type: none"> • Infection Sources portals of entry and exit, transmission • Asepsis • Disinfection: Types and methods • Sterilization : Types and methods • Chemotherapy and antibiotics • Standard safety measures • Biomedical waste management • Role of nurse • Hospital acquired infection • Hospital infection control programme <ul style="list-style-type: none"> - Protocols collection of samples preparation of report and status for rate of infection in the unit / hospital nurse accountability continuing education etc. 	10 hrs	2hrs
UNIT -4	<p>Pathogenic organisms</p> <ul style="list-style-type: none"> • Micro organisms <ul style="list-style-type: none"> - Cocci - Gram positive and gram negative - Bacilli- Gram positive and gram negative - Spirochete - Mycoplasma - Rickettsiae - Chlamydiae • viruses • Fungi- Superficial and deep mycoses • Parasites • Rodents and vectors <ul style="list-style-type: none"> Characteristics sources portal of entry, transmission of Infection identification of disease production organisms Collection handling and transportation of various specimens 	12hrs	4 hrs
		8 hrs	4 hrs
Unit -5	<p>Immunity</p> <ul style="list-style-type: none"> • Immunity- types, classification • Antigen and antibody reaction • Hypersensitivity- skin test • Serological test • Immunoprophylaxis 	8 hrs.	4 hrs.



- vaccines & sera- types and classification, storage and handling, cold chain
- Immunization for various disease
- Immunization schedule



B.SC.

NURSIG

THIRD YEAR

MEDICAL SURGICAL NURSING
(ADULT INCLUDING GERIATICS)- II

Placement: third Year

Theory – 12 hrs
Practical – 270 hours

Course description: the purpose of this course is to acquire knowledge and develop proficiency in caring for patient with medical surgical disorders in various health care settings and at home

UNIT	CONTENT	HOURS
UNIT-1	<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 and surgical nursing management of ear, nose and throat disorders <p># External ear deformities otalgia, foreign bodies and tumors</p> <p># Middle ear impacted wax, tympanic membrane perforation, otitis media, tumors</p> <p># Inner ear Meniere's disease, labyrinthitis, ototoxicity, tumors</p> <p># Upper airway infections: Common cold sinusitis, rhinitis, and adenoiditis, peritonsillar abscess, laryngitis</p> <ul style="list-style-type: none"> • Upper respiratory airway • 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 <p>Special therapies</p> <p>Nursing procedures</p> <p>Drug used in treatment of disorders of ear, nose and throat.</p> <p>Role of nurse communication with hearing impaired and muteness</p>	15 hrs.
UNIT- 2	<p>Nursing management of patient with disorders of Eye</p> <ul style="list-style-type: none"> • Review of anatomy, physiology of the eye • Nursing management-history and physical assessment • Etiology, pathophysiology, clinical, diagnosis, treatment modalities and medical and surgical nursing management of the eye disorders <p># Refractive errors</p> <p># Eyelids- infection, tumors and deformities</p> <p># Conjunctiva- inflammation and infection, bleeding</p>	15 hrs.

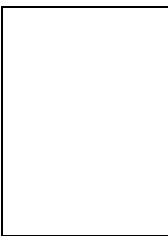
	<ul style="list-style-type: none"> # Cornea- inflammation and infection # Lens- cataract # Glaucoma # Disorders of posterior chamber and retina: retinal and vitreous problems # Retinal detachment # Ocular emergency and their prevention • Blindness • National blindness control program <ul style="list-style-type: none"> # Eye banking # Eye prostheses and rehabilitation <p>Role of a nurse- Communication with visually impaired patient, eye camps</p> <p>Special therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of disorder of eye</p>	
UNIT-3	<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 and surgical nursing management of neurological disorders • Congenital malformation • Headache • Head injuries • Spinal injuries <ul style="list-style-type: none"> # Paraplegia # Hemiplegia # Quadraplegia • Spinal cord compression- herniation of in vertebral disc • Tumors of the brain and spinal cord • Intra cranial and cerebral aneurysms • Infection: <ul style="list-style-type: none"> # Meningitis, encephalitis, brain, abscess, neurocysticerosis • Movement disorders <ul style="list-style-type: none"> # Chorea # Seizures # Epilepsies • Cerebro vascular accidents (CVA) • Cranial, spinal neuropathies- Bells palsy trigeminal neuralgia • Peripheral Neuropathies Guillainbarr'e syndrome • Myasthenia gravis • Multiple sclerosis 	16 hrs.

	<ul style="list-style-type: none"> • Degenerative diseases <ul style="list-style-type: none"> #Delirium # Dementia # Alzheimer's disease # Parkinson's disease • Management of unconscious patient and a patient with stroke • Role of nurse in communicating with patient having neurological deficit • Rehabilitation of patient with neurological deficit • Role of nurse in long stay facility (institution) and at home • special therapies • Nursing procedures • Drug used in treatment of neurological disorders. 	
UNIT-4	<p>Nursing management of patients with disorder of female reproductive system.</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of female reproductive system. • Nursing assessment- History and physical assessment • Breast self examination • Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical and surgical nursing management of disorder of female reproductive system • Sexuality and reproductive health • Menstrual disorders: Dysmenorrhea, amenorrhea, premenstrual syndrome • Abnormal uterine bleeding: menorrhagia, metrorrhagia • Pelvic Inflammatory disease • Ovarian and fallopian tube disorders: infection, cysts, tumors • Uterine and cervical disorders: endometriosis, polyps, fibroids, cervical and uterine tumors uterine displacement, cystocele/ urethrocele/ rectocele • Vaginal disorders: infection and discharges fistulas • Vulvular disorders: infection, cysts and tumors • Diseases of breasts: deformities, infection cysts and tumors • Menopause and hormonal replacement therapy • Infertility • Contraception: types, methods, risk and effectiveness <ul style="list-style-type: none"> # Barrier methods, intra uterine device, hormonal, post conceptional methods etc. # Terminal methods • Sterilization • Emergency contraception methods • Abortion- natural, medical and surgical abortion-MTP Act • Toxic shock syndrome • Injuries and trauma: Sexual Violence 	16 hrs.

	Special therapies Nursing procedures Drug used in treatment of gynecological disorders National family welfare programme	
UNIT-5	Nursing management of patient with burns, reconstructive and cosmetic surgery <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, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical and surgical nursing management of burns and reconstructive and cosmetic surgery • Types of re-constructive and cosmetic surgery: for burns, congenital deformities, injuries and cosmetic purposes • Role of nurse • Legal aspects • Rehabilitation • Special therapies <ul style="list-style-type: none"> ❑ Psychosocial aspects Nursing procedures Drug used in treatment of burns, constructive and cosmetic surgery	10 hrs.
UNIT-6	Nursing management of patient with Oncological conditions <ul style="list-style-type: none"> • Structure and characteristics of normal and cancer cells • Nursing assessment – history and physically assessment • Prevention, screening, early detections, warning sign of cancer • Epidemiology, etiology, classification, pathophysiology, staging, clinical manifestations, diagnosis, treatment modalities and medical and surgical nursing management of oncological condition • Common malignancies of various body system: 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 <ul style="list-style-type: none"> ❑ Immunotherapy ❑ Chemotherapy ❑ Radiotherapy ❑ Surgical intervention ❑ Stem cell and bone marrow transplants ❑ Gene therapy ❑ Other forms of treatment • Psychological aspects of cancer 	10 hrs.

	<ul style="list-style-type: none"> • Rehabilitation • Palliative care: Symptoms and pain management, nutritional support • Home care • Hospice care • Stomal therapy • Special therapies <ul style="list-style-type: none"> ☐ Psychosocial therapies * Nursing procedures 	
UNIT-7	<p>Nursing management of patient in EMERGENCY AND DISASTER</p> <p>Situations</p> <p>Disaster Nursing:</p> <ul style="list-style-type: none"> • Concepts and principals of disaster nursing • Causes and types of disaster: Natural and manmade <ul style="list-style-type: none"> ☐ Earthquakes, floods, epidemics, cyclones ☐ Fire, explosion, accidents ☐ Violence, terrorism: biochemical, war • Policies related to emergency/ disaster management: Institutional, national state, institutional • Disaster preparedness: • Team, guidelines, protocols, equipments, resources • Co-ordination and involvement of : community, various Govt departments, non govt. organizations and international agencies • Role of nurse; working • Legal aspects of disaster nursing • Impact on health after effects: Post traumatic stress disorders • Rehabilitation: physical, psychosocial, financial relocation, Emergency nursing • Concept, priorities, principles and scope and scope and emergency nursing • Organization of emergency services: physical set-up, staffing, equipment and supplies, protocols, concepts of triage and role of triage nurse • Co-ordination and involvement of different departments and facilities • Nursing assessment-history and physical assessment • Etiology, classification, pathophysiology, staging, clinical manifestations, diagnosis, treatment modalities and medical and surgical nursing management of patient with medical and surgical emergency • Principles of emergency management • Common emergencies • Respiratory emergencies 	10 hrs.

	<ul style="list-style-type: none"> • Cardiac emergencies • Shock and hemorrhage • Pain • Poly-trauma, road accidents, crouch, injuries, wound • Bites • Poisoning; food, gas drug and chemical poisoning • Seizures • Thermal emergencies; heat stroke, and cold injuries • Pediatric emergencies • Obstetrical emergencies • Violence, abuse, sexual assault • Cardio pulmonary resuscitation • Crisis intervention • Role of nurse: communication and interpersonal relations • Medico legal aspects 	
UNIT-8	<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 • Normal biological ageing • Age related body related changes • Psychosocial aspects of ageing • Medication and elderly • Stress and coping in elder patient • Common health problems and nursing management • Cardiovascular, respiratory, musculoskeletal • Endocrine, genitor-urinary, gastrointestinal • Neurological, skin and sensory organs <ul style="list-style-type: none"> <input type="checkbox"/> Psychosocial and sexual <input type="checkbox"/> Abuse of elderly • Role of nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual • Role of family and formal and non formal caregivers • Use of aids and prosthesis (hearing aids, dentures) • Legal and ethical issues • Provision and programme for elderly, privileges, community Programs and health services * Home and institutional care 	10 hrs.
UNIT-9	<p>Nursing management of patients 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 set-up, policies, staffing norms 	10 hrs.



- Protocols, equipment, ventilators, cardiac monitors, defibrillators
- Resuscitation equipments
- Infection control and protocols



MEDICAL SURGICAL NURSING (Adult and geriatrics)-II Practical

Placement: Third year

**Time: Theory-120 hrs
Practical – 270 hrs.
Internship - 430 hrs.**

Areas	Skills to be developed	Duration (In weeks)
ENT	<ul style="list-style-type: none">• Perform examination of ear, nose and throat• Assist with diagnostic procedures• Assist with therapeutic procedures• Instillation of drops• Perform/assist with irrigations• Apply ear bandage• Performs tracheotomy care• Teach patient and families	1
Ophthalmology	<ul style="list-style-type: none">• Perform examination of eye• Assist with diagnostic procedures• Assist with therapeutic procedures• Performs /assist with irrigations• Apply eye bandage• Apply eye drops/ointment• Assist with foreign body removal• Teach patient and families	1
Neurology	<ul style="list-style-type: none">• Perform neurological examination• Use Glasgow coma scale• Assist with diagnostic procedure• Assist with therapeutic procedures• Teach patient and families• Participate in rehabilitation program	2
Gynecology ward	<ul style="list-style-type: none">• Assist with gynecological examination• Assist with diagnostic procedure• Assist with therapeutic procedures	1

	<ul style="list-style-type: none"> • Teach patient and families • Teach self Breast examination • Assist with PAP smear collection 	
Burns Unit	<ul style="list-style-type: none"> • Assessment of burns patient <ul style="list-style-type: none"> - Percentage of burns - Degree of burns • Fluid and electrolyte replacement therapy <ul style="list-style-type: none"> - Assess - Calculate - Replace - Record intake/output • Care of Burns wound <ul style="list-style-type: none"> - Bathing - Dressing • Perform active and passive exercises • Practice medical and surgical asepsis • Counsel and teach patient and families • Participate rehabilitation program 	1
Oncology	<ul style="list-style-type: none"> • Screen for common cancer-TNM classification • Assist with diagnostic procedures <ul style="list-style-type: none"> - Biopsies - Pap Smear - Bone- Marrow aspiration • Breast examination • Assist with therapeutic Procedures • Participates in various modalities of treatment <ul style="list-style-type: none"> - chemotherapy - radiotherapy - Pain management - Stomal therapy - Immuno therapy - Gene therapy - Alternative therapy • Participate in palliative care • Counsel and teach patient families • Self Breast examination • Warning signs • Participate in rehabilitation program 	2
Critical care unit	<ul style="list-style-type: none"> • monitoring of patients in ICU • Maintain flow sheets • Care of patient on ventilators • Perform end tracheal suction 	

	<ul style="list-style-type: none"> • Demonstration use of ventilators, Carries monitors etc. • Collect specimen and interprets ABG analysis • Assist in arterial puncture • Maintain CVP line • Pulse oximetry • CRP – ALS 	
	<ul style="list-style-type: none"> • Defibrillators • Pace makers • Bag-mask ventilation • Emergency tray trolley- Crash Cart • Administration of drugs <ul style="list-style-type: none"> - Infusion pump - Epidural - Intrathecal Intracardiac • Total parenteral therapy • Chest physiotherapy • Perform active and passive exercises • Counsel the patient and family in dealing with grieving and bereavement 	1
Casualty Emergency	<ul style="list-style-type: none"> • Practice triage • Assist with assessment examination investigations and their interpretation in emergency and disaster situations • Assist in legal procedures • In emergency unit • Participate in managing crowd • Counsel the patient and family in dealing with grieving and bereavement 	1

Placement: Internship

Time: 9 Weeks

Area	Skills	Duration
Medical Ward	Integrated Practice	2
Surgical ward		2
Critical care Unit /CCU		1
Casualty/Emergency		2
Operation theatre (ESy, ENT, Neuro)		2

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Child Health Nursing
Placement: - Third Year

Time: Theory- 90hrs
Practical – 270 hrs
Internship

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

Unit	Content	TIME (HRS)
1	Introduction Modern concepts of child care <ul style="list-style-type: none"> • Internationally accepted rights of the child • National policy and legislations in relation 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 	15

	<ul style="list-style-type: none"> • Difference between an adult and child • Hospital environment for sick child • Impact of hospitalization on the child and family • Grief and bereavement • The role of a child health nurse in caring of a hospitalized child • Principles of pre and post operative care of infants and children • Child health nursing procedure 	
II	<p>The Healthy Child</p> <ul style="list-style-type: none"> • Principles of growth and development • Factors effecting growth and development • Growth and development from birth to adolescence • The needs of normal ender through the stages of developmental and parental guidance • Nutritional needs of children and infants: exclusive breast-feeding supplementary/ artificial feeding and Weaning • Baby friendly Hospital concept • Accidents causes and prevention • Value of play and selection of play material • Prevention immunization, immunization Program and cold chain • Preventive pediatrics • Care of under five and under five clinics/well baby clinics 	20
III	<p>Nursing care of neonates</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 disorder • Organization of neonatal unit • Identification and nursing management of common congenital malformations 	15
IV	<p>Integrated management of neonatal and childhood illness (IMNCI)</p>	10

V	<p>Nursing management in common childhood disease</p> <ul style="list-style-type: none"> • Nutritional deficiency disorders • Respiratory disorders and infections • Gastro intestinal infections infestations and congenital disorders • Cardiovascular problem congenital defects and rheumatic fever rheumatic heart disease • Genito-urinary disorder acute glomerular nephritis, Nephrotic syndrome, Wilm's tumor, infection & congenital disorder • Neurological infections and disorder convulsions epilepsy meningitis hydrocephalus spina bifida • Hematological disorders: Anemia's thalassemia, ITP, Leukemia hemophilia • Endocrine disorders Juvenile diabetes Mellitus • Orthopedic disorders club feet, hip dislocation and fracture • Disorder 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 	20
VI	<p>Management of behavioral and 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 	10

CHILD HEALTH NURSING PRACTICAL

Placement : Third Year

hours Fourth Year

hours(3weeks)

Time – 27

Internship -145

Areas	Skills	Duration (Weeks)
Pediatric Medicine Ward	<ul style="list-style-type: none">• Taking pediatric history• Physical examination and assessment of	3 wks

	<p>children</p> <ul style="list-style-type: none"> • Administer of oral I/M and I/V medicine/fluids • Calculation of fluid replacement • Prepare different strength not I/V Fluids • Apply restraints • Administer oxygen inhalation by different methods • Give baby bath • Feed children by katori spoon etc • Collect specimen for common investigation • Assist with common diagnostic procedure • Teaching mothers/parents <ul style="list-style-type: none"> <input type="checkbox"/> Malnutrition <input type="checkbox"/> Oral dehydration therapy <input type="checkbox"/> Feeding and Weaning <input type="checkbox"/> Immunization schedule <input type="checkbox"/> Play therapy <input type="checkbox"/> Enterostomy • Urinary catheterization and drainage • Feeding <ul style="list-style-type: none"> <input type="checkbox"/> Naso-gastric <input type="checkbox"/> Gastrostomy <input type="checkbox"/> Jejunostomy • Care of surgical wounds <ul style="list-style-type: none"> <input type="checkbox"/> Dressing <input type="checkbox"/> Suture removal 	
Pediatric surgery ward	<ul style="list-style-type: none"> • Calculate, prepare and administer I/V fluids • Do bowel wash • Care of ostomies <ul style="list-style-type: none"> <input type="checkbox"/> Colostomy irrigation <input type="checkbox"/> Ureterostomy <input type="checkbox"/> Gastrostomy <input type="checkbox"/> Enterostomy • Urinary catheterization and drainage • Feeding <ul style="list-style-type: none"> <input type="checkbox"/> Naso-gastric <input type="checkbox"/> Gastrostomy <input type="checkbox"/> Jejunostomy • Care of surgical wounds <ul style="list-style-type: none"> <input type="checkbox"/> Dressing <input type="checkbox"/> Suture removal 	3 wks

Pediatric OPD/Immunization	Assessment of children <input type="checkbox"/> Health assessment <input type="checkbox"/> Developmental assessment <input type="checkbox"/> Anthropometrics assessment <ul style="list-style-type: none"> • Immunization • Health/Nutrition education 	1 wks
Pediatric Medicine And surgical ICU	<ul style="list-style-type: none"> • Care of baby in incubator/ warmer • Care of child on ventilator • Endotracheal suction • Chest physiotherapy • Administer fluids with infusion pump • Total Parenteral nutrition • Phototherapy • Monitoring of babies • Cardio pulmonary resuscitation 	1+1 wks
	INTERNSHIP	
Pediatric Medicine WARD/ICU	Integrated practice	1 wks
Pediatric surgery ward/ICU	Integrated practice	1 wks
NICU	Integrated practice	1 wks

MENTAL HEALTH NURSING
Placement: Third Year

Theory-90 hrs
Practical-270 Hours

Internship-95 Hours (2 Weeks)

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 problem with special emphasis on therapeutic intervention for individuals' family and community

UNIT	CONTENT	HOURS
UNIT-I	<p>Introduction</p> <ul style="list-style-type: none"> • Perspectives of mental health and mental health nursing: evaluation of mental health services, treatments and nursing practices • Prevalence and incidence of mental health problems and disorders • Mental health act. • National mental health policy • National mental health programme • Mental health team • Nature and scope of mental health nursing • Role and functions of mental health nurse in various settings and factor affecting the level of nursing practice • Concepts of normal and abnormal behavior 	5 hrs.
UNIT -2	<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 CID • Review of personality development, defence mechanism • Maladaptive behavior of individuals and group 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 • Principles of mental health nursing • Standards of mental health nursing practices • Conceptual model and role of nurse <ul style="list-style-type: none"> <input type="checkbox"/> Existential model <input type="checkbox"/> Psycho-analytical model <input type="checkbox"/> Behavior model <input type="checkbox"/> Interpersonal model 	5 hrs
UNIT – 3	Assessment of mental health status	8 hrs

	<ul style="list-style-type: none"> • History taking • Mental health examination • Mini mental health examination • Neurological examination review • Investigations related blood ESEG,ECT,MRI • Psychological tests <p>Role and responsibilities of nurse</p>	
Unit -4	<p>Therapeutic communication and the nurse- patient relationship</p> <ul style="list-style-type: none"> • Therapeutic communication types techniques, characteristics • Types of relationship • Ethics and responsibilities • Element of nurse patient contract • Review of technique of IPR- Johari windows • Goals, phases, tasks therapeutic techniques • Therapeutic impasse and its intervention 	6hrs
Unit -5	<p>Treatment modalities and therapies used in mental disorders</p> <ul style="list-style-type: none"> • Psycho pharmacology • Psychological therapies Therapeutic community, Psycho therapy, Psychoanalytical cognitive and supportive, Family group, behavioral, play psycho drama, Music, dance recreational and light therapy, relaxation therapies Yoga mediation bio feedback • Alternative system of medicine • Occupational therapy • Physical therapy. Electro convulsive therapy • Geriatric considerations <p>Role of nurse in above therapies</p>	14hrs
Unit -6	<p>Nursing management of patient with Schizophrenia and other psychotic disorders</p> <ul style="list-style-type: none"> • Classification: ICD • Etiology, psycho-pathology, types, clinical manifestations, diagnosis • Nursing assessment- history and physical assessment and mental assessment • Treatment modalities and nursing management of patient with schizophrenia and other psychotic disorders • Geriatric considerations 	5 hrs.

	<ul style="list-style-type: none"> • Follow-up and home care and rehabilitation 	
Unit-7	<p>Nursing management of patient with mood disorders</p> <ul style="list-style-type: none"> • Mood disorders: Bipolar affective disorder, Mania depression and dysthymia etc. • Etiology, psycho-pathology, types, clinical manifestations, diagnosis • Nursing assessment- history and physical assessment • Treatment modalities and nursing management of patient with mood disorders • Geriatric considerations • Follow-up and home care and rehabilitation 	5 hrs.
Unit-8	<p>Nursing management of patient with neurotic, stress related and somatization disorders.</p> <ul style="list-style-type: none"> • Anxiety disorders, phobias, dissociation and conversion disorders, post traumatic disorders • 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 	8 hrs.
Unit-9	<p>Nursing management of patient with substance use and disorders</p> <ul style="list-style-type: none"> • Community 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, antagonist therapy and harm reduction) and nursing management of patient with substance abuse. • Geriatric considerations • Follow-up and home care and rehabilitation 	5 hrs.
Unit-10	<p>Nursing management of patient with personality, sexual and eating disorders</p>	4 hrs.

	<ul style="list-style-type: none"> • Classification of disorders • Etiology, psycho-pathology, clinical manifestations, diagnosis • Nursing assessment –history, physical, mental assessment • Treatment modalities and nursing management of patients with personality, sexual and eating disorders • Treatment modalities and nursing management 	
Unit-11	<p>Nursing management of childhood and adolescent disorders including mental deficiency</p> <ul style="list-style-type: none"> • Classification • Etiology, psycho-pathology, clinical manifestations, diagnosis • Nursing assessment – history, physical, mental assessment and IQ assessment • Treatment modalities and nursing management of childhood and adolescent disorders including mental deficiency • Follow-up and home care and rehabilitation 	6 hrs.
Unit-12	<p>Nursing management of organic brain disorders</p> <ul style="list-style-type: none"> • Classification ICD • Etiology, psycho-pathology, clinical manifestations, diagnosis and differential diagnosis(Parkinson's and Alzheimer's) • Nursing assessment-history, physical, mental assessment and neurological assessment • Treatment modalities and nursing management of organic brain disorders • Geriatric considerations • Follow-up and home care and rehabilitation 	5 hrs.
Unit-13	<p>Psychiatric emergencies and crisis intervention</p> <ul style="list-style-type: none"> • Types of psychiatric emergencies and their management • Stress adaptation mode: stress and stressors, coping, resources and mechanism • Grief: Theories of grieving, process, principles, technique of counseling • Crisis intervention; principles, techniques and process • Geriatric considerations and responsibilities of nurse 	6 hrs.
Unit-14	<p>Legal issues in mental health nursing</p> <ul style="list-style-type: none"> • The mental health Act 1987: Act, section, articles and 	4 hrs.

	<p>their implications etc.</p> <ul style="list-style-type: none"> • Indian lunacy act • Rights of mentally ill clients • Forensic psychiatry • Acts related to narcotic and psychotropic substance and illegal drug trafficking • Admission and discharge procedures <p>Role and responsibilities of nurse</p>	
Unit-15	<p>Community mental health nursing</p> <ul style="list-style-type: none"> • Development of community mental health services: • National mental health programme • Institutionalization versus deinstitutionalization • 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 population: children, adolescence, women, elderly, victims of violence and abuse, handicapped, HIV/AIDS etc 	

Mental Health Nursing

Practical

Placement: Third year

Fourth year

Time practical-270 hrs (9 weeks)

Internship- 95 hrs (2 weeks)

Areas	Skills	Duration (in weeks)
Psychiatric OPD	<ul style="list-style-type: none"> • History taking • Perform mental status examination (MSE) • Assist in psychometric assessment • Perform neurological examination • Observe and assist in therapies • Teach patient and family members 	1
Child Guidance Clinic	<ul style="list-style-type: none"> • History taking • Assist in psychometric assessment • Observe and assist in various therapies • Teach family and significant others. 	1
Inpatient ward	<ul style="list-style-type: none"> • History taking • Perform mental status examination (MSE) • Perform neurological examination • Assist in psychometric assessment • Record therapeutic communication • Assist in Electro Convulsive therapy (ECT) • Participate in all therapies • Prepare patients for Activities of Daily Living (ADL) • Conduct admission and discharge counseling • Counsel and teach patient and families 	6
Community psychiatry	<ul style="list-style-type: none"> • Conduct case work • Identify individuals with mental health problems • Assist in mental health camps and clinics • Counsel and teach family members, patient and community 	
Internship Skills		Duration
Area Psychiatry ward	Integrated practice	2 weeks

COMMUNICATION & EDUCATIONAL TECHNOLOGY

Placement: Third 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 skills in communicating effectively, maintaining effective interpersonal relations. Teaching individual and groups in clinical, community health and educational setting

UNIT	CONTENT	Time (Hrs)	Pr. (Hrs)
UNIT-1	Review of Communication process <ul style="list-style-type: none">• Process; elements and channel• Facilitators• Barriers and methods of overcoming• Techniques	5	
UNIT -II	Interpersonal relations <ul style="list-style-type: none">• Purposes & types• Phases• Barriers an methods of overcoming• Johari Window	5	
UNIT- III	Human relations <ul style="list-style-type: none">• Understanding self• Social behavior, motivation social attitudes• Individual and groups• Groups and individual• Human relation in context of nursing• Group dynamics• Team work	5	
UNIT- IV	Guidance and counseling <ul style="list-style-type: none">• Definition• Purposes, 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 parishioners• Counseling process-steps & techniques tools of counselor• Managing disciplinary problems• Managing of crisis and referral	10	5

UNIT - VI	Principles of education and teaching learning process <ul style="list-style-type: none"> • Education meaning philosophy aims functions and principles • Nature and characteristics of learning • Principles and maxims of teaching • Formulating objectives general and specific • Lesson planning • Classroom management 	10	
UNIT- VI	Methods of teaching <ul style="list-style-type: none"> • Lectures Demonstration, seminar, symposium, panel discussion, role play, project, field trip, workshop, exhibition programmed instructions computer assisted learning micro teaching problems based learning self instructional Module and simulation etc • Clinical teaching methods - case method nursing round and report bedside clinic conference (individual and group) Process recording 	10	10
UNIT – VII	Educational Media <ul style="list-style-type: none"> • Purposes and types of AV Aids Principles and sources and etc • Graphic aids chalk board chart graph poster flash cards flannel graph bulletin board cartoon • Three dimensional aids, objects, specimens model puppets • Printed aids Pamphlet & leaflets • Projected aids slider overhead projector, Films TV. VCR, VCD, camera microscope, LCD • Audio aids: Tape recorder public address system, • Computer 	10	8
UNIT- VIII	Assessment <ul style="list-style-type: none"> • Purpose and scope of evaluation and assessment • Criteria for selection of assessments techniques and methods • Assessment of knowledge: Easy type question, short answer type question (SAQ), Multiple choice questions (MCQ) • Assessment of skills: observation Check list, Practical exam, Viva, objective structured clinical examination (OSCE) 	5	7

UNIT - IX	<ul style="list-style-type: none"> • Assessment of attitudes, attitudes scale 		
	Information, education and communication for health (IEC) <ul style="list-style-type: none"> • Health behavior and health education • Planning for health education • Health education with individual, group and communities • Communicating health messages • Methods and media for communicating health messages • Using mass media 	5	

B.Sc. Nursing

Fourth Year

MIDWIFERY AND OBSTETRICAL NURSING

Placement: Fourth Year

**Theory- 90 hrs.
Practical- 180 hrs.**

Course Description: This course is designed for students to 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 postnatal periods in hospital and community setting it also helps to develop skills in managing normal and high risk neonates and participate in family welfare programme

UNIT	CONTENT	HOURS
UNIT-1	Introduction to midwifery and obstetrical nursing <ul style="list-style-type: none">• Introduction to concept of midwifery and obstetrical nursing• Trends in midwifery and obstetrical nursing<ul style="list-style-type: none">□ Historical perspective 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 material health and welfare□ Maternal morbidity, mortality and fertility rates□ Prenatal morbidity, mortality rates	3 hrs.
UNIT-2	Review of anatomy and physiology of female reproductive system and fetal development <ul style="list-style-type: none">• Female pelvis- general description of the bones joints, ligaments, planes of the pelvis diameters of the true pelvis	8 hrs.

	<p>important landmarks, variations in pelvic shapes</p> <ul style="list-style-type: none"> • Female organs of reproduction – external genitalia, internal genital organs and their anatomical relation, musculature blood supply, nerves, lymphatic, pelvic cellular tissue, pelvic peritoneum • Physiology of menstrual cycle • Human sexuality • Fetal development <ul style="list-style-type: none"> <input type="checkbox"/> Conception <input type="checkbox"/> Review of fertilization, implantation, development of the embryo and placement at term- functions, abnormalities, the fetal sac, amniotic fluid the umbilical chord <input type="checkbox"/> Fetal circulation, fetal skull, bones, sutures and measurements <p>* Review of genetics</p>	
UNIT-3	<p>Assessment and management of pregnancy (ante-natal)</p> <ul style="list-style-type: none"> • Normal pregnancy • Physiological changes during pregnancy <ul style="list-style-type: none"> <input type="checkbox"/> Reproductive system <input type="checkbox"/> Cardiovascular system <input type="checkbox"/> Respiratory system <input type="checkbox"/> Urinary system <input type="checkbox"/> Gastro intestinal system <input type="checkbox"/> Metabolic change <input type="checkbox"/> Skeletal change <input type="checkbox"/> Skin changes <input type="checkbox"/> Endocrine system <input type="checkbox"/> Psychological changes <input type="checkbox"/> Discomfort of pregnancy • Diagnosis of pregnancy <ul style="list-style-type: none"> <input type="checkbox"/> Signs <input type="checkbox"/> Differential diagnosis <input type="checkbox"/> Confirmatory tests • Ante natal care <ul style="list-style-type: none"> <input type="checkbox"/> Objectives <input type="checkbox"/> Assessment <ul style="list-style-type: none"> - History and physical examination - Antenatal examination - Signs of previous child birth 	8 hrs.

	<ul style="list-style-type: none"> <input type="checkbox"/> Relationship of fetus to uterus and pelvis lie attitude presentation. Position <input type="checkbox"/> per vaginal examination • Screening and assessment for high risk • Risk approach • History and physical examination • Modalities of diagnosis Invasive and non invasive ultrasonic cardio tomography, NST, CST • Antenatal preparation <ul style="list-style-type: none"> <input type="checkbox"/> Antenatal counseling <input type="checkbox"/> Antenatal exercises <input type="checkbox"/> Diet <input type="checkbox"/> Substance use <input type="checkbox"/> Education for childbirth <input type="checkbox"/> Husband and Families <input type="checkbox"/> Preparation for self confinement <input type="checkbox"/> Prevention from radiation • Psycho-social and cultural aspects <ul style="list-style-type: none"> <input type="checkbox"/> Adjustment to pregnancy <input type="checkbox"/> Unwed mother <input type="checkbox"/> Single parent <input type="checkbox"/> Teenage pregnancy <input type="checkbox"/> Sexual violence • Adoption 	
UNIT-4	<p>Assessment and management of intranatal period</p> <ul style="list-style-type: none"> • Physiology of labour • Management of labour • First stage <ul style="list-style-type: none"> <input type="checkbox"/> Signs and symptoms of onset of labour normal and abnormal <input type="checkbox"/> Duration <input type="checkbox"/> Preparation of <ul style="list-style-type: none"> # Labour room # Woman <input type="checkbox"/> Assessment and observation of woman in labour: Partogram- maternal and fetal monitoring <ul style="list-style-type: none"> <input type="checkbox"/> Active management of labour, induction of labour <input type="checkbox"/> Pain relief and comfort in labours • Second stage <ul style="list-style-type: none"> <input type="checkbox"/> Sign and symptoms: normal and abnormal <input type="checkbox"/> Duration <input type="checkbox"/> Conduct of delivery: principles and technique <input type="checkbox"/> Episiotomies (Only if required) <input type="checkbox"/> Receiving the new born - Neonatal resuscitation; initial steps and subsequent 	12 hrs

	<p>resuscitation</p> <ul style="list-style-type: none"> - Care of umbilical cord - Immediate assessment including screening for congenital anomalies - Identification - Bonding - Initiate feeding - Screening and transportation of the neonate <p>* Third stage</p> <ul style="list-style-type: none"> <input type="checkbox"/> Sign and symptoms: normal and abnormal <input type="checkbox"/> Duration <input type="checkbox"/> Method of placenta expulsion <input type="checkbox"/> Management : principles and technique <input type="checkbox"/> Examination of the placenta <input type="checkbox"/> Examination of perineum • Maintaining records and reports • Fourth stage 	
UNIT-5	<p>Assessment and management of women during post natal period</p> <ul style="list-style-type: none"> • Normal puerperium: physiology duration • Postnatal assessment and management <ul style="list-style-type: none"> <input type="checkbox"/> Promoting physical and emotional well being <input type="checkbox"/> Lactation management <input type="checkbox"/> Immunization • Family dynamics after child • Family welfare services, methods, counseling • Follow-up • Records and reports 	
UNIT-6	<p>Assessment and management of normal neonates</p> <ul style="list-style-type: none"> • Normal neonate: <ul style="list-style-type: none"> <input type="checkbox"/> Physiological adaptation <input type="checkbox"/> Initial and daily assessment <input type="checkbox"/> Essential newborn care, thermal control <input type="checkbox"/> Breast feeding prevention of infections • Immunization • Minor disorders of newborn and its management • Levels of neonatal care (level II, &III) • At primary, secondary and tertiary levels • Maintenance of reports and records 	6 hrs.

UNIT-7	High risk pregnancy – assessment and management <ul style="list-style-type: none"> • Screening and assessment <ul style="list-style-type: none"> <input type="checkbox"/> Ultrasonic cardio tomography , NST CST, non invasive and invasive <input type="checkbox"/> Newer modalities of diagnosis • High risk approach • Levels of care primary secondary and tertiary levels • Disorders of pregnancy <ul style="list-style-type: none"> <input type="checkbox"/> Hyper-emesis, gravidarum bleeding in early pregnancy, abortion , ectopic <input type="checkbox"/> Pregnancy vesicular mole <input type="checkbox"/> Ante-partum hemorrhage • Uterine abnormality and displacement • Disease complicating pregnancy <ul style="list-style-type: none"> <input type="checkbox"/> Medical and surgical conditions <input type="checkbox"/> Infection, RTI(STD) UTI, HIV, TORCH <input type="checkbox"/> Gynecological diseases complicating pregnancy <input type="checkbox"/> Pregnancy induced hypertension and diabetes , toxemia of pregnancy hydramnios <input type="checkbox"/> Rh incompatibility <input type="checkbox"/> Mental pregnancy <input type="checkbox"/> Abnormalities of placenta and cord <input type="checkbox"/> Intra-uterine growth – retardation <input type="checkbox"/> Nursing management of mothers with high risk pregnancy <input type="checkbox"/> Maintenance of records and reports 	10hrs
UNIT-8	Abnormal labour- assessment and management <ul style="list-style-type: none"> • Disorders in labour <ul style="list-style-type: none"> <input type="checkbox"/> CPD and contracted pelvis <input type="checkbox"/> Malposition and Malpresentations <input type="checkbox"/> Premature labour, disorders of uterine action, precipitate labour, prolonged labor <input type="checkbox"/> complication of third stage Injuries to birth canal • Obstetrical emergencies and their management <ul style="list-style-type: none"> <input type="checkbox"/> Presentation and prolapse of cord, vasa praveia amniotic fluid emblems rupture of uterus shoulder dystocia obstetrical shock • Obstetrical procedures and operation <ul style="list-style-type: none"> <input type="checkbox"/> Introduction of labour, forceps vacuum version manual removal of placenta. Caesar ear. Section. destructive operation * Nursing management of women undergoing obstetrical operation and procedures	
UNIT- 9	Abnormalities during postnatal period <ul style="list-style-type: none"> • Assessment and management of woman with postnatal complications <ul style="list-style-type: none"> <input type="checkbox"/> Puerperal infection breast engorgement and infections and infection, UTI, thromboembolic disorders, post partum 	4hrs

	<p>hamburger, eclampsia and subinvolution</p> <ul style="list-style-type: none"> <input type="checkbox"/> Psychological complications : <ul style="list-style-type: none"> - Post partum blues - Post partum depression - Post partum psychosis 	
UNIT- 10	<p>Abnormalities during postnatal period</p> <ul style="list-style-type: none"> • Admission of neonates in the neonatal intensive care units protocols • Nursing management of : <ul style="list-style-type: none"> <input type="checkbox"/> Low birth weight babies <input type="checkbox"/> Infection <input type="checkbox"/> Respiratory problems <input type="checkbox"/> Hemolytic disorders <input type="checkbox"/> Birth injuries <input type="checkbox"/> Malformation • Monitoring of high risk neonates • Feeding of high risk neonates • Organization and management of neonatal intensive care units • Infection control in neonatal intensive care units • Maintenance of reports and records 	10hrs
UNIT – 11	<p>Pharamaco- therapeutics in obstetrics</p> <ul style="list-style-type: none"> • Indication, dosage, action contraindication and side effects of drugs • effect of drugs on pregnancy labour and puerperium • Nursing responsibilities in the admission of drugs in obstetric- oxytocin, anti-hypertensives, diuretics, laccolitic agents, anticonvulsants: • Analgesics and anesthesia in obstetrics • Effect of maternal medication on fetus on fetus and neonate 	4 hrs
UNIT-12	<p>Family welfare programme</p> <ul style="list-style-type: none"> • Population trends and problems in India • Concept, aims importance and history of family welfare programme • National population dynamics policy and education • National family welfare programme RCH. ICDS. MCH. Safe motherhood • Organization and administration national state district block and village levels 	10hrs

	<ul style="list-style-type: none"> • A method of contraception's spacing, temporary and permanent, emergency contraception • Infertility and its management • Counseling for family welfare • Latest research in contraception • Maintenance of vital statistics • Role of nurse in Family welfare programme • Train supervision collaboration with other functionaries in community like ANMs, LHVs, Anganwadi workers TBA (Traditional birth Attendant Dai) 	
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**Midwifery and obstetrical
Nursing- Practical**

**Placement: Fourth year
(Third year)**

Time Practical-180 hrs

Internship-240

Area	Skills	Duration (in weeks)
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Antenatal clinical/OPD	<ul style="list-style-type: none"> * Antenatal history taking * Physical examination * Recording of weight and BP * Hb and urine testing for sugar and albumin * Antenatal examination-abdomen and breast * Immunization * Assessment of risk status * Teaching antenatal mother. * Maintenance of Antenatal records 	2
Labour room OT	<ul style="list-style-type: none"> * Assessment of woman in labour * Per vaginal examination and interpretation * Monitoring and caring of woman in labour * Maintenance of partograph * Conduct normal delivery * Newborn assessment and immediate care * Resuscitation of newborns * Assessment of risk status of newborn * Episiotomy and suturing * Maintenance of labour and birth record * arrange for and assist with Caesarean section and care for women and baby during caesarean * Arrange for and assist with MTP and other surgical procedures 	4
Postnatal ward	<ul style="list-style-type: none"> * Examination and assessment of mother and baby * Identification of deviations * Care of postnatal mother and baby * Perineal care * Lactation management * Breast feeding * Baby bath * Immunization * Teaching postnatal mother <ul style="list-style-type: none"> # Mother craft # Post natal care # Exercise # Immunization 	4

Newborn nursery	<ul style="list-style-type: none"> * Newborn assessment * Admission of neonates * Feeding of at risk neonates * Katori spoon * Paladi, tube feeding * Total parental nutrition * Thermal management of neonates- kangaroo mother care * Care of baby in incubator * Monitoring and care of neonates * Administering medications * Intravenous therapy * Assisting with exchange transfusion * Care of baby on ventilator * Photo therapy * Infection control, protocols in the nursery 	2
Family planning clinic	<ul style="list-style-type: none"> * Teaching and counseling of parents * Maintenance of neonatal records * counseling technique * Insertion of IUD * Teaching on use of family planning methods * Arrange for and assist with family planning operations * maintenance * Of record and reports 	1
	<ul style="list-style-type: none"> * Essential Requirements for registration as midwife - antenatal examination 30 - conducting normal deliveries in hospital/ home health center 20 - vaginal examination 5 - Episiotomy suturing 5 - Neonatal resuscitation 5 - Assist with caesarean Section 2 - witness Assist abnormal deliveries 5 - Postnatal cases nursed in hospital /home/health center 20 - Insertion of IUD 5 <p>NOTE: All casebooks must be certified by teacher on completion if essential requirements</p>	

Internship Obstetrical Nursing
Internship Duration 5 Weeks

Area	Skills	Duration (in weeks)
Labour Ward	* Integrated Practice	2
Noonatal intensive care unit/NICU		1
Antenatal		2

COMMUNITY HEALTH NURSING

Placement: Fourth year

**Theory-90 hrs.
Practical-135 hrs.**

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

UNIT	CONTENT	HOURS
UNIT 1	Introduction • Definition concept and scope of community health and community health nursing	4 hrs

	<ul style="list-style-type: none"> • Historical development of <ul style="list-style-type: none"> <input type="checkbox"/> Community health <input type="checkbox"/> community health nursing <ul style="list-style-type: none"> - Pre-independence - Post independence 	
UNIT-2	<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 commission on health and family welfare • <input type="checkbox"/> central council of health and family welfare(CCH & FW) <ul style="list-style-type: none"> <input type="checkbox"/> National health policies (1983,2002) <input type="checkbox"/> National health policy <input type="checkbox"/> Health problems in India 	6hrs
UNIT-3	<p>Delivery of community health services</p> <ul style="list-style-type: none"> • Planning budgeting and material management of SCS, PHC& CHC • Rural : organization staffing and functions of rural health services provided by government at: <ul style="list-style-type: none"> <input type="checkbox"/> Village <input type="checkbox"/> Sub centre <input type="checkbox"/> Primary health center <input type="checkbox"/> Community Health Center/Subdivision <input type="checkbox"/> Hospitals <input type="checkbox"/> District <input type="checkbox"/> State <input type="checkbox"/> Centre * Urban Organization staffing and function of urban health services <ul style="list-style-type: none"> <input type="checkbox"/> Slums <input type="checkbox"/> Dispensaries <input type="checkbox"/> Maternal and child health centers <input type="checkbox"/> Special clinics <input type="checkbox"/> Hospitals <input type="checkbox"/> Corporation Municipality board * Component's of health services <ul style="list-style-type: none"> <input type="checkbox"/> environmental sanitation <input type="checkbox"/> Health education <input type="checkbox"/> Vital statistics <input type="checkbox"/> MHC antenatal natal postnatal MTP act Female foeticide act, child adoption act <input type="checkbox"/> Family welfare <input type="checkbox"/> National health programme <input type="checkbox"/> School health services 	15 hrs

	<ul style="list-style-type: none"> <input type="checkbox"/> Occupational health <input type="checkbox"/> Defence services <input type="checkbox"/> Institutional services • System of medicine and health care <ul style="list-style-type: none"> <input type="checkbox"/> Indian system medicine and homeopathy <input type="checkbox"/> Alternative health care system like yoga meditation social and spiritual healing etc Referral system 	
UNIT-4	<p>Community health nursing approaches concepts and roles and responsibilities of nursing personnel</p> <ul style="list-style-type: none"> • Approaches <ul style="list-style-type: none"> <input type="checkbox"/> Nursing theories and nursing process <input type="checkbox"/> Epidemiological approach <input type="checkbox"/> Problem solving approach <input type="checkbox"/> Evidenced based approach <input type="checkbox"/> Empowering people to care for themselves • Concept of primary health care <ul style="list-style-type: none"> <input type="checkbox"/> Equitable distribution <input type="checkbox"/> Community participation <input type="checkbox"/> Focus on prevention <input type="checkbox"/> Use of appropriate technology <input type="checkbox"/> multi- sectorial • Roles and responsibilities of community health nursing personnel in <ul style="list-style-type: none"> <input type="checkbox"/> Family health services <input type="checkbox"/> Information education communication (INC) <input type="checkbox"/> Management information system (MIS) maintenance of records and reports. <input type="checkbox"/> Training and supervision of various categories of health workers <input type="checkbox"/> National health programmes <input type="checkbox"/> Environmental sanitation <input type="checkbox"/> Maternal and child health and family welfare <input type="checkbox"/> Treatment of minor ailments <input type="checkbox"/> School health services <input type="checkbox"/> Occupational health <input type="checkbox"/> Organization of clinics camps types preparation planning <input type="checkbox"/> Waste management in the centers clinics etc. • Home visit concept Principles. Process techniques bag technique and home visit 	25 hrs.
Unit - 5	<p>Assisting individuals and group to promote and maintain their health</p> <ul style="list-style-type: none"> • Empowerment for self care of individual families and group in 	15 hrs.

- A 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
 - ☐ Teats: Urine sugar and albumin, blood sugar
- B Seek health service for
- ☐ Routine check – up
 - ☐ Immunization
 - ☐ Counseling
 - ☐ Diagnosis
 - ☐ Treatment
 - ☐ Follow – up
- C Maintenance of health records for self and family
- D Continue medical care and follow – up in community for various disease and disabilities
- E Carryout therapeutic procedures as prescribed / required for self and the family
- F Waste management
- G 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 worker
 - Food adulteration
 - Substance abuse
- H Utilize community resources for self and family
- ☐ Trauma services
 - ☐ Old age homes
 - ☐ Orphanage
 - ☐ Home of physically and mentally challenged individuals
 - ☐ Homes for destitute

Unit - 6

National health and family welfare programmers and the role of a nurse

20 hrs.

	<ul style="list-style-type: none"> • National ARI programmer • Revised national tuberculosis programmer (RNTCP) • National anti-malaria programme • National filarial control programme • National guinea worm eradication programme • National leprosy eradication programme • National AIDS control programme • National STD control programme • Iodine deficiency disorder programme • Expanded programme of immunization • National family welfare programme • National water supply and sanitation programme • Minimum need programme • National diabetes control programme • Polio eradication programme • National cancer control programme • Yaws eradication programme • 20 pints programme • ICDS programme • Mid day meal applied nutritional programme • Health schemes <input type="checkbox"/> ESI <input type="checkbox"/> CGHS <input type="checkbox"/> Health insurance 	
Unit - 7	<ul style="list-style-type: none"> • Health agencies <ul style="list-style-type: none"> - International – WHO, UNFPA, UNDP, World bank, FAO, UNICEF, DANDIA, European commission (EC) Red cross, USAID, UNESCO, Colombo plan, ILO, CARE etc. - National – Indian red cross society, Indian council for child welfare, Family planning association of India (FPAI), Tuberculosis association of India, Hindu kushwant singh, Central social welfare board, All India women's conference, Blind association of India etc. 	5 hrs.

**Community Health
Nursing – II – Practical**

Placement : Fourth Year

**Time : Practical – 135 hrs
Internship – 195 hrs**

Areas	Skills	Duration (In weeks)
Community Health Nursing	<ul style="list-style-type: none"> • Community health survey • Community diagnosis • Family care Home adaptation of common procedures • Home visit Bag technique • Organize and conduct clinics – antenatal Postnatal well baby clinic camps etc • Screen manage and referrals for <ul style="list-style-type: none"> <input type="checkbox"/> High risk mothers and neonates <input type="checkbox"/> Accidents and emergencies <input type="checkbox"/> Illness Physical and mental <input type="checkbox"/> Disabilities • Conduct delivery at home / center: episiotomy and suturing • Resuscitate newborn • School health programme <ul style="list-style-type: none"> <input type="checkbox"/> Screen manage, refer children • Collaborate with health and allied agencies • Train and supervise health workers • Provide family welfare services: insertion of IUD • Counsel and teach individual, family and community about: HIV, TB, Diabetes, Hypertension, Mantel health, adolescents, elderly health physically and mentally challenged individuals. • Collect and calculate Vital health statistics • Document and maintain <ul style="list-style-type: none"> <input type="checkbox"/> Individual family and administrative records <input type="checkbox"/> Write reports – center, disease, and national health programme/projects 	1 week for urban & 4 weeks for rural
Placement : Internship		Time :4 weeks
Areas	Skills	Duration
Urban	Provide comprehensive care to individual family and community	4 weeks

NOTE: During the rural posting they should stay in health centers under the supervision of teachers

Nursing Research and Statistics

**Placement: Fourth Year
Internship**

**Time: Theory- 45 hrs
Practical -45 hrs**

Course description: The course is designed to enable students to develop an understanding of basic concept of research process and statistics. It is further structured to conduct participate in needs based research studies in various setting and utilize the research findings to provide quality nursing care The burs foe practical will be utilized for conducting individual/ group research project

Unit	Content	Time (hrs)
1	Research and research Process	4
	Research and research Process	
II	<ul style="list-style-type: none">• Introduction and need for nursing research• Definition of Research and nursing research• Steps of scientific method• Characteristics of good research• Steps of Research process- overview Research Problem/Question	3
	<ul style="list-style-type: none">• Identification of problem area• Problem statement• Criteria of a good research Problem• Writing objectives	
III	Review of literature	3
	<ul style="list-style-type: none">• Location• Sources• On line search: CINHALL, COCHRANE etc.• Purposes• Methods of review	
IV	Research approaches and designs	4
	<ul style="list-style-type: none">• Historical, survey and experimental• Qualitative and quantitative designs	
V	Sampling and data collection	8
	<ul style="list-style-type: none">• Definition of populating sample• Sampling criteria, factors influencing sampling technique• Data why what from whom when and where to collect• Data collection methods and instruments<ul style="list-style-type: none">❑ Methods of collection❑ Questioning interviewing❑ Observation record and analysis and measurements❑ Types of instruments❑ Validates and reliability of the instruments	

VI	<input type="checkbox"/> Pilot study <input type="checkbox"/> Data collection procedure Analysis of data * Compilation, tabulation, Classification, Summarization, Presentation, interpretation of data	4
	VII	15
VIII	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 its application Communication and utilization of Research	4
	<ul style="list-style-type: none"> • Communication of research finding <ul style="list-style-type: none"> <input type="checkbox"/> Verbal report <input type="checkbox"/> Writing research report <input type="checkbox"/> Writing scientific article/paper <ul style="list-style-type: none"> - Critical review of published research - Utilization of research finding 	

Management of Nursing Services and Education

Placement: fourth

Time: Theory 90mhrrs

Course description: This course is designed to enable students to acquire understanding of management of clinical and community health nursing services nursing educational programmes this is also designed to enable students to acquire understanding of the professional responsibilities prospects and contribution to the growth of the profession

UNIT	CONTENT	TIME (HRS)	
		Th	Pr
I	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 	4	
II	Management process <ul style="list-style-type: none"> • Planning mission. Philosophy. objectives operation plan • Staffing philosophy, staffing study, norm activities patient classification system scheduling • Human resources management recruiting selecting deployment retaining promoting super annuation etc • Budgeting concept, principles, types, costs, benefit analysis, audit • Material management equipment supplies • Directing process (Leading) • Controlling Quality management • Program Evaluation Review Technique (PERT) Bench marking Activity plan (Gantt chart) 	5	
III	Management of nursing services in hospital and community <ul style="list-style-type: none"> • Hospital and patient care units including ward management • Emergency and disaster management • Human resources management <ul style="list-style-type: none"> □ Recruiting selecting deployment retaining promoting super annuation etc □ categories of nursing personnel including job description of all levels 	8	20

IV	<input type="checkbox"/> Patient/ population classification system <input type="checkbox"/> Care responsibilities • Staffing development and welfare Budgeting proposal projecting requirements for staff equipments and supplies for <input type="checkbox"/> Hospital and patient care units <input type="checkbox"/> Emergency and disaster management • Directing and leading delegations participatory management <input type="checkbox"/> Assignment rotation. Delegations <input type="checkbox"/> Supervision and guidance <input type="checkbox"/> Implement standards. Policies, procedures and practices <input type="checkbox"/> Staff development and welfare <input type="checkbox"/> Maintenance of discipline • controlling evaluation <input type="checkbox"/> Nursing <ul style="list-style-type: none"> - Rounds/Visits - Nursing protocols - Manuals <input type="checkbox"/> Quality assurance Model, documentation <input type="checkbox"/> Records and reports performance appraisal Organizational behavior and human relations • Concepts and theories of organizational behaviors • Review of channels of communication • Leadership styles • Review of motivation • Concept and theories • Group dynamics • Techniques of <input type="checkbox"/> Communication and <input type="checkbox"/> Interpersonal relationship <input type="checkbox"/> Human relation • Public relation in context of nursing • Relations with professional associations and employee union and collective bargaining		
		5	
	V In service education • Nature and scope of in service education program • Organization of in service education • Principles of adult learning • Planning for in service education programme, technique, methods and evaluation of staff education program • Preparation of report	5	5

VI	<p>Management of nursing educational institutions</p> <ul style="list-style-type: none"> • Establishment of nursing educational institutions INC norms and guidance's • Co-ordination with- <ul style="list-style-type: none"> <input type="checkbox"/> Regulatory bodies <input type="checkbox"/> Accreditation <input type="checkbox"/> Affiliation <ul style="list-style-type: none"> - Philosophy/objectives - Organization <input type="checkbox"/> Structure <input type="checkbox"/> Committees <ul style="list-style-type: none"> - Physical facilities <input type="checkbox"/> College/School <input type="checkbox"/> Hostel <ul style="list-style-type: none"> - Students <ul style="list-style-type: none"> # Selection # Admission # Guidance and counseling # Maintaining discipline - Faculty and staff <input type="checkbox"/> Selection <input type="checkbox"/> Recruitment <input type="checkbox"/> Job description <input type="checkbox"/> Placement <input type="checkbox"/> Performance appraisal <input type="checkbox"/> Development and welfare • Budgeting • Equipments and supplies audio visual equipment, laboratory equipment books journals etc. • Curriculum planning, implementation and evaluation • Clinical facilities • Transport facilities • Institutional records and reports- administrative faculty staff and students 	10	
VII	<p>Nursing as a profession</p> <p>Nursing as a profession</p> <ul style="list-style-type: none"> <input type="checkbox"/> Philosophy, nursing practice <input type="checkbox"/> aims and objectives <input type="checkbox"/> characteristics of a professional nurse <input type="checkbox"/> Regulatory bodies INC SNC Acts: constitution functions <input type="checkbox"/> current trends and issues in nursing <input type="checkbox"/> Professional ethics <input type="checkbox"/> code of ethics; INC, ICN <input type="checkbox"/> code of professional conduct4; INC ICN • Practice standards for Nursing , INC 	10	

VIII

- Consumer protection act
 - ☐ Legal aspects in nursing
 - ☐ Legal terms related to practice : registration and licensing
 - ☐ Laws related to nursing practice Breach and penalties
 - ☐ Malpractice and negligence
- Professional Advancement
 - Continuing education
 - Career Opportunities
 - Collective bargaining
 - Membership with professional organization, National and International
 - Participate in research activities
 - Publication, Journals, newspapers etc.

3

