

BHARATI VIDYAPEETH UNIVERSITY



**COLLEGE OF NURSING
SANGLI**

Syllabus

Basic B.Sc Nursing

BHARATI VIDYAPEETH UNIVERSITY

INTRODUCTION

Bharati Vidyapeeth, which is the parent body of Bharati Vidyapeeth University, was established on 10th May 1964 by Dr Patangrao Kadam with the wider objective of contributing to intellectual awaking and social cultural transformation through dynamic education. Under the imaginative dynamic and socially committed leadership of the founder Dr Patangrao Kadam, Bharati Vidyapeeth has made astonishing strides in the field of education. The Vidyapeeth has so far established 156 educational institutions imparting education to the student's right from pre primary stage to post graduate stage and Ph.D. The Ministry of Human Resources Development (Department of Education, Government of India) on the recommendations of the University Grants Commission New Delhi through their notification No F.9 – 15/95 U.3 dated 26th April 1996 has declared institution of Bharati Vidyapeeth at Pune as University.

1. The Medical College
2. The Dental college and hospital
3. The College of Ayurved Pune
4. The Homeopathic Medical college
5. The College of Nursing Pune
6. Yashwantrao Mohite College of Arts, Commerce and Science.
7. The New College Pune
8. Social Science center (M.S.W) Pune.
9. Yashwantrao Mohite Institute of Social Science and Research, Pune.
10. The Research and Development Centre in applied chemistry (POLYMER), Pune.
11. The College of Physical education Pune and
12. The Institute of Environment Education and Research, Pune.

The association of the Indian Universities has accepted this university as its member.

This is probably the first and only university having under its umbrella with diversified disciplines of professional and non professional categories such as Medicine, Dentistry, Nursing, Ayurved, Homeopathic Medicines Physical Education Natural and Physical Science Social Science Commerce Law and Humanities. The Degrees and diplomas awarded by this university have the same status and recognition as those awarded by any Indian University recognized by the University Grants Commission, New Delhi. The University operates its educational programmes in accordance with the rules regulations and guidelines of various statutory Central Government bodies Medical Council of India, Dental Council of India, Bar council of India, Indian Nursing council, Central Council of Indian Medicine etc.....

College of Nursing, Pune.

Bharati Vidyapeeth College of Nursing was established in the year 1992 with prior permission of the University of Pune to which it was having affiliation. It is now the constituent unit of this university. This is the first college of Nursing in the Non Government Sector in Pune. Adequate facilities for clinical studies have been provided and the college is attached to the hospital of Bharati Vidyapeeth Medical Foundation, Dhanakwadi Pune. The College has the approval of the government of India, UGC and Maharashtra Nursing Council. The College has a separate hostel facilities for boys and girls. The curriculum and the syllabus is made and updated as per the present needs in the Maharashtra Nursing Council and the needs of the society.

College of Nursing, Wanlesswadi, Sangli

Bharati Vidyapeeth University, college of nursing, started in 2007 at Bharati Vidyapeeth University campus, Sangli. It is one of the constituent units of the Bharati Vidyapeeth University.

This college started with the objectives of training the students to become competent nurses for first level positions in nursing, to provide quality care in hospitals and to community and thereby contributing to health care of our nation. The college has the permission from Maharashtra Nursing and Indian Nursing council.

The college is equipped with nursing arts, community health & nutrition laboratories, teaching aids & a departmental library. Since we have our own Medical college in the same campus, our students get exposure to the teaching of faculty members having expertise in Anatomy, physiology, biochemistry, pathology & microbiology & other subjects. Similarly, our students also have access to the library of our Medical College, which has a very vast collection of reference books. Our college also subscribes to journals and makes audio- video material & equipment available to the students. Hostel facilities with modern amenities are available to our student on the campus. The atmosphere in the college is very congenial for professional growth.

PHILOSOPHY OF BHARATI VIDYAPEETH

Bharati Vidyapeeth was established in May 1964 with the philosophy of contributing to the intellectual awakening and social transformation in different spheres including educational economic social and cultural fields in India and more particularly in Maharashtra. Its activities are geared to bring about all sided progress and welfare of different sections in population including women tribal and rural people.

Bharati Vidyapeeth's Nursing College also functions within the framework of Bharati Vidyapeeth's philosophy.

AIMS:-

To prepare first level of nurse manager who can take the responsibility in hospitals, community and educational Institutions and give primary, secondary and tertiary care.

OBJECTIVES:-

After completion of 4 year B.Sc Nursing Course

- 1) The students will be able to develop skills in providing quality care by using nursing process in different clinical settings.
- 2) Students will be able to render comprehensive care to family and community by using nursing process.
- 3) Student will be able to take leadership role at first level management in nursing service and education.
- 4) Student will be able to participate in promotive, preventive and restorative health care delivery system.
- 5) Students will practice ethical values in nursing profession
- 6) Students will aware of research methodology and will be capable of assisting in research projects.

ADMISSION REQUIREMENTS:

1. The minimum age for admission shall be 17 years on or before 31st Dec of the year of admission.
2. The minimum educational requirements shall be passing of
Higher Secondary School certificate Examination (12 years course).
Or
Senior School certificate examination (10+2), pre-degree examination (10 + 2)
OR
An equivalent with 12 years schooling from a recognized board or university with Science (physics Chemistry, biology) and English with minimum of 45 % aggregate marks (PCB)
3. Candidates shall be medically fit.

ENTRANCE / SELECTION TEST

Selection of candidate should be based on the merit of entrance examination held by University or competent authority.

DURATION

Duration of course will be for four years excluding internship and one year bond is compulsory in Bharati Vidyapeeth.

VACATION

Eight weeks vacation shall be given each year.

ATKT

Any candidate failing in more than two subjects will not be promoted to next year. (ATKT will be allowed only for two subjects)

AWARD OF CLASS.

FIRST CLASS WITH DISTINCTION	AGGREGATE 70% AND ABOVE
FIRST CLASS	AGGREGATE 60% AND ABOVE LESS THAN 70%
HIGHER SECOND CLASS	AGGREGATE 55% AND ABOVE LESS THAN 60%
SECOND CLASS	AGGREGATE 50% AND ABOVE LESS THAN 55%
FAIL	LESS THAN 50%

DURATION

COURSE DURATION	FOUR YEARS
Weeks per year	52 weeks
Vacation	8 weeks
Gazetted holidays	3 weeks
Examinations including preparatory	4 weeks
Available weeks	37
Hours per week	40 hrs
Practical	30 hrs per week
Theory	10 hrs per week
Internship and practical	48 hrs per week
Hours available per academic year	1480 (37 weeks x 40 hrs)

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 (optional)			
10. Library work / Self study			50
Total hours	920	450	50
Total hours =1420			

SECOND YEAR

Subject	Theory in hrs (class and Lab)	Practical in hrs (clinical)	In hrs
1.Sociology	60		
2.Pharmacology	45		
3.Pathology	30		
4.Genetics	15		
5.Medical Surgical Nursing (adults including Geriatrics-I)	210	720	
6.Community Health nursing I	90	135	
7.Microbiology	60		
8.Environment Science	50		
9.Library work self study			50
10.Co curricular activities			35
TOTAL HOURS	510	855	85
GRAND TOTAL HOURS = 1450			

THIRD YEAR

Sr.No	Subject	Theory in hrs (class and Lab)	Practical in hrs (clinical)	In hrs
1	1.Medical Surgical Nursing (including Geriatrics)	120	270	
2	2.Child Health nursing	90	270	
3	3.Mental Health nursing	90	270	
4	4.Communication and Educational Technology	60+30		
5.	5.Library work & self study			50
6	6.Co-curricular activities			50
	Total hours	390	810	100
	Grand total hours	1300		

FOURTH YEAR

Sr.No	Subject	Theory in hrs (class and Lab)	Practical in hrs (clinical)	In hrs
1	Midwifery & Obstetrical Nursing	90	360	
2	Community Health Nursing 11	90	135	
3	Nursing Research	45	*	
4	Management of Nursing service & Education	60+30		
	Total hours	315	495	
	Grand total 810			

- Project work to be carried out during internship

INTERNSHIP (Integrated practice)**48 hours per week.**

Sr.No	Subject	Theory in hrs (class and Lab)	Practical in hrs (clinical)	In weeks
1	Midwifery & Obstetrical Nursing		240	5
2	Community Health Nursing 11		195	4
3	Medical Surgical Nursing 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
	Grand total 1150 hours			

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 week.
3. Students during internship will be governed by nursing teachers.
4. Fourth year final examination to be held only after completion of internship.

SCHEME OF EXAMINATION**FIRST YEAR**

SUBJECT	ASSESSMENT Marks			Total
	Hours	Internal	External	
THEORY				
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		25	75	100
7. Marathi	2		50	50
Practical & Viva				
1. Nursing Foundations		100	100	200

SECOND YEAR

SUBJECT	ASSESSMENT MARKS			
Theory	Hours	Internal	External	Total
1.Sociology	3	25	75	100
2. Medical Surgical Nursing I	3	25	75	100
3. Pharmacology, Pathology & Genetics	3	25	75	100
4.Community Health nursing I	3	25	75	100
5.Microbiology	3	25	75	100
6.Environmental Science	2		50	50
Practical & Viva				
1.Medical Surgical Nursing I		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	3	50	50	100
2. Community Health nursing II	3	50	50	100

Note:

1. Anatomy Physiology- Question paper will consist of section A, Anatomy of 37 marks and section B Physiology should be of 38 marks.
2. Nutrition and Biochemistry- question paper will consist of section A, Nutrition of 45 marks and section B Biochemistry should be of 30 marks.
3. Pharmacology, Pathology and Genetics – Section A Pharmacology with 38 marks, section B Pathology of 25 marks and Genetics with 12 marks.
4. Nursing research and Statistics – Nursing Research should be 50 marks and statistics of 25 marks.
5. Minimum pass marks should be 40% for English only.
6. Theory and Practical Exams for introduction to computers to be conducted at college exams Marks to be sent to University for inclusion in Mark list.
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 and practical in each subject appearing of examination.
9. A candidate must have 100% in each of the Practical areas before award of the degree
10. A candidate has to pass in theory and practical exam 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 and practical).
12. Maximum no of the attempts permitted for each paper is 3 including 1st attempt.
13. Candidate shall not be permitted to the subsequent higher examination unless the candidate had passed the previous exam.
14. The maximum period to complete the course successfully should not exceed eight years.
15. Maximum no of the candidates' practical examination should not exceed 20 per day.
16. All the practical examinations must be held in respective clinical areas.
17. One internal and one external examiner should be jointly conduct practical exam for each student.
18. An examiner should be a lecturer or above in a college of Nursing with M.Sc Nursing in concerned subject and minimum of 3 years teaching experience to be an examiner for nursing foundation course faculty having M.Sc nursing with any specialty shall be considered.

B.Sc. NURSING
FIRST YEAR

ANATOMY

Placement: First Year

Time- Theory -60 hours.

Course Description: The course is designed to enable students to achieve knowledge of normal structures of various systems of human bodies and understand the alteration in critical structures in diseases and practice of nursing.

UNIT	CONTENT	HOURS
UNIT- I	<p>Introduction to anatomical terms, organization of the human body. Human cell structure</p> <ul style="list-style-type: none"> - Tissues- Definition, Types, Characteristics, classification, location, function & formation. - Membranes and glands classification and structures. - Alteration in disease. - Application and implication in nursing. 	05 hrs
UNIT- 2	<p>The Skeletal System.</p> <p>Bones- Types, structure, axial & appendicular skeleton.</p> <ul style="list-style-type: none"> - Bone Formation & Growth - Description of bones. - Joints classification and structure - Alteration in disease. - Application and implication in nursing. 	06 hrs
UNIT -3	<p>The Muscular system</p> <ul style="list-style-type: none"> - Types and structure of muscles. - Muscle group - Alteration in disease - Application and implication in nursing. 	07 hrs
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. - Alteration in disease - Application and implication in nursing. 	06 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) - Alteration in disease - Application and implication in nursing. 	06 hrs

UNIT -6	Circulatory and Lymphatic system <ul style="list-style-type: none"> - The circulatory system -Blood – Microscopic structure -Structure of Heart -Arterial and venous system -Circulation systemic, pulmonary, coronary. - Lymphatic system - Lymphatic vessels and lymph - Lymphatic tissues - Thymus glands - Lymph nodes - Lymphatic nodules - Alteration in diseases - Application and implication in nursing. 	07 hrs
UNIT-7	The Respiratory System <ul style="list-style-type: none"> - Structure of organs of respiration - Muscles of respiration Intercostals and diaphragm - Alteration in disease - Application and implication in nursing. 	05 hours
UNIT- 8	The Digestive system <ul style="list-style-type: none"> - Structure of alimentary tract and accessory organs of digestion - Alteration in diseases - Application and implication in nursing. 	06 hours
UNIT – 9	The Excretory System (Urinary) <ul style="list-style-type: none"> - Structure of organs of urinary - System: Kidneys, ureters, urinary bladder, urethra, structure of skin. -Application and implication in nursing. 	04 hrs
UNIT- 10	The Endocrine System <ul style="list-style-type: none"> -Structure of pituitary, pancreas, thyroid, -Parathyroid, thymus and adrenal glands. -Alteration in diseases -Application and implication in nursing. 	04 hrs
UNIT- 11	The Reproductive System including Breast. <ul style="list-style-type: none"> - Structure of female reproductive organs. - Structure of male reproductive organs. - Structure of breast. 	04 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 understand the alteration in physiology disease and practice of nursing.

UNIT	CONTENT	HOURS
UNIT- 1	<p>Cell physiology</p> <ul style="list-style-type: none"> -Tissue –formation, repair - Membranes & glands- functions - Alteration in disease - Application and implication in Nursing 	04 hrs
UNIT – 2	<p>Skeleton system</p> <ul style="list-style-type: none"> - 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 	04 hrs.
UNIT – 3	<p>Muscular System</p> <ul style="list-style-type: none"> - Muscle movements, muscle tone, physiology of muscle contraction, levels and maintenance of posture. Alteration in disease - Application and implication in Nursing 	04 hrs.
UNIT- 4	<p>Nervous System</p> <ul style="list-style-type: none"> - Function of neuralgia & neurons. - Stimulus & nerve – impulse definition and mechanism. - Functions of brain, spinal cord, cranial & spinal nerves. - Cerebra spinal fluid – composition, circulation and function. - Reflex arc reflex action and reflexes. - Autonomic function- - Pain – somatic, visceraland referred. Autonomic learning and biofeedback. Alteration in disease - Application and implication in Nursing 	07 hrs

UNIT- 5	<p>Circulatory System</p> <ul style="list-style-type: none"> -Blood formation, composition, blood groups, blood coagulation, - Hemoglobin: structure, synthesis and breakdown. Variation of molecules, estimation. - Functions of heart, conduction, cardiac cycle, circulation-principles, control, factors influencing BP & pulse. - Alteration in disease -Application and implication in Nursing 	
UNIT-6	<p>The Respiratory System</p> <ul style="list-style-type: none"> -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 	06 hrs
UNIT-7	<p>The Digestive system</p> <ul style="list-style-type: none"> -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, proteins, and fat. -Alteration in disease -Application and implication in Nursing 	06 hrs
UNIT-8	<p>The Excretory system</p> <ul style="list-style-type: none"> - Functions of Kidneys, ureters, urinary bladder, & urethra. - Composition of urine - Mechanism of urine formation. - Functions of skin - Regulation of body temperature. - Fluid & Electrolyte balance. - Alteration in disease - Application and implication in Nursing 	05 hrs
UNIT -9	<p>The Sensory Organs</p> <ul style="list-style-type: none"> - Functions of skin, eye, ear, nose, tongue. - Alteration in disease - Application and implication in Nursing 	04 hrs

	-		
UNIT-10	The Endocrine System <ul style="list-style-type: none"> - Functions of pituitary, pineal body, thymus, thyroid, parathyroid, pancreas, suprarenal, placenta, ovaries & testis. - Alteration in disease - Application and implication in Nursing 	05 hrs	
UNIT-11	The Reproductive System <ul style="list-style-type: none"> - Reproduction of cells- DNA mitosis, meiosis, spermatogenesis, oogenesis. - Functions of the female reproductive organs, functions of breast, female sexual cycle. - Introduction of embryology - Functions of male reproductive organs, male functions in reproduction, male fertility system. - Alteration in disease - Application and implication in Nursing 	05 hrs	
UNIT-12	Lymphatic and immunological system <ul style="list-style-type: none"> - Circulation of lymph - Immunity - Formation of T- cells & B- cells - Types of immune response - Antigen - Cytokines - Antibodies 	02 hrs	

NUTRITION

Placement- First Year

Time: Theory 60hrs.

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	Introduction <ul style="list-style-type: none">-Nutrition- Concepts.- Role of nutrition in maintaining health.- Nutritional problems in India.- Factors affecting food & nutrition: socioeconomic, cultural, tradition, production system of distribution, lifestyle and food habits etc.....- Role of foods & its medicinal values- Classification of foods- Foods standard- Elements of nutrition: macro and micro- Calorie, BMR	4 hrs
UNIT-2	Carbohydrates <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	Fats <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	Proteins <ul style="list-style-type: none"> - Classification - Caloric value - Recommended daily allowance - Dietary sources - Functions - Digestion absorption and storage, metabolism of proteins - Malnutrition Deficiencies and over consumption 	2 hrs
UNIT 5	Energy <ul style="list-style-type: none"> - Unit of energy- kcal - Energy requirements of different categories of people - Measurements of energy - Body Mass Index (BMI) 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 excretion - Deficiencies - Over consumption 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 - Over hydration, dehydration and water intoxication - Electrolyte imbalances. 	3 hrs

UNIT-9	Cookery rules and preservation of Nutrients <ul style="list-style-type: none"> - Principles, methods of cooking and serving - Preservations of nutrients. - safe food handling.- toxicity - Storage of food. -Food preservation, food additives and its principles - Preservation of food adulteration act (PFA) - Food standards -Preparation of simple beverages of different types of food. 	5 hrs
UNIT-10	Balanced diet <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 diets, naturopathy – diet- 	5 hrs
UNIT-11	Role of nurse in nutritional programme <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 towards food / nutrition. - NIPCCD,CARE,FAO, NIN, CFTRI (Central food technology and research institute) etc - Assessment of nutritional status. - Nutrition education and role of nurse. 	10 hrs

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 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	3 hrs
UNIT-2	Structure and functions of cell membrane <ul style="list-style-type: none">- Fluid mosaic model tight junction, cytoskeleton- Transport mechanism: diffusion, osmosis, filtration, active channel, sodium pump- Acid base balance-maintenance and diagnostic tests- PH buffers	6 hrs
UNIT-3	Composition and Metabolism of Carbohydrates <ul style="list-style-type: none">- Types, structure, composition and uses.- Monosaccharides, Disaccharides, Polysaccharides, Ligosaccharides.- Metabolism- Pathways of glucose:<ul style="list-style-type: none">- Glycolysis- Glucogenesis: Cori's cycle, Tricarboyclic acid cycle TCA- Glycogenolysis- Pentose phosphate- Pathways(Hexose mono phosphate)- Regulation of blood glucose level.- Investigation & their interpretation.	6 hrs
UNIT-4	Composition and Metabolism of lipids <ul style="list-style-type: none">- Types, structure, composition and uses of fatty acids.- Nomenclature, Roles and prostaglandins.- Metabolism of fatty acids<ul style="list-style-type: none">- Breakdown- Synthesis- Metabolism of triglycerols.- Cholesterol metabolism- Biosynthesis and its regulation	6 hrs

	<ul style="list-style-type: none"> * Bile salts and bilirubin * Vitamin D * Steroid hormones - Lipoproteins and their functions * VLDLs- IDLs and HDLs * Transport of lipids * Arteriosclerosis * Investigations and their interpretation 	
UNIT-5	<p>Composition and Metabolism of Amino acids and proteins.</p> <ul style="list-style-type: none"> - Types, structures, composition and uses of amino acids and proteins. - Metabolism of Amino acids and proteins. - Protein synthesis, targeting and glycosylation - Chemotherapy - Electrophoresis - Sequencing * Metabolism of nitrogen - Fixation & assimilation - Urea cycle - Hemes and chlorophyll * Enzymes and co- enzymes - Classification - Properties - Kinetics & inhibition - Control * Investigations and their interpretation 	6 hrs
UNIT-6	<p>Composition and Vitamins and Minerals</p> <ul style="list-style-type: none"> - Vitamins and Minerals -Structure - Classification - Properties - Absorption - Storage and transportation - Normal concentration investigations and their interpretation. 	2 hrs

NURSING FOUNDATION

Placement First year

Theory- 265 hrs
Practical -650 hrs
(200 labs and 450 clinics)

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

UNIT	CONTENT	HOURS
UNIT-1 Rajesh	Introduction - 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 Rajesh	Nursing as a profession Definitions and characteristics of a profession. <ul style="list-style-type: none"> • Nursing • Definition, concepts, philosophy, objectives. • Characteristics, nature, and scope of nursing practice. • Functions 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: • 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 - Unit and its preparation admission bed - Admission procedure - Special considerations - Medico legal issues. - Roles and responsibilities of nurse. Discharge from the hospital <ul style="list-style-type: none"> - Types Planned discharge, LAMMA and abscond , - Referrals and transfer. - Discharge planning - Discharge procedure - Special considerations - Medico legal issues - Roles and responsibilities of the nurse. - Care of the unit after discharge. 	4 hrs
UNIT-4	Communication and the nurse patient relationship <ul style="list-style-type: none"> - Communication : Levels, elements, types, modes, process, - factors influencing communication - Methods of effective communication # attending skills # Rapport building skills # Empathy skills -Barriers to effective communication - helping 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, women, physically and mentally challenged and elderly) <ul style="list-style-type: none"> - Patient teaching Importance purpose, process, role of nurse and integrating teaching in nursing process. 	10 hrs.
UNIT- 5 Rajesh	The Nursing Process <ul style="list-style-type: none"> - Critical thinking and nursing adjustment. - Critical thinking, thinking and learning - Competencies, attitude for critical thinking, levels of critical thinking in nursing - Nursing process overview - Application in practice - Nursing process format : INC, current format - Assessment - # Collection of data types, sources, methods. - Nursing Diagnosis - Identification of client problems - Nursing Diagnosis statement - Difference between medical & nursing diagnosis - Planning - Establishing priorities - Establishing goals and expected outcomes - Selection of intervention: Protocols and standing orders. 	15 hrs

	<ul style="list-style-type: none"> - Writing nursing care plan - Implementation. - Implementing plan of care - Evaluation - Outcome of care - Review and modify - Documentation and reporting 	
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 record, medical/ nursing records - Common record- keeping forms, computerized documentation - Guidelines for reporting, factual basis, accuracy, completeness, currentness, organization, confidentiality - Methods of recording - Reporting: change of shift reports: transfer reports, incident reports Minimizing legal liability through effective record keeping. 	4 hrs
UNIT-7 Rajesh	<p>Vital signs</p> <ul style="list-style-type: none"> • Guidelines for taking vital signs • Body temperature <ul style="list-style-type: none"> - Physiology, regulation, factors affecting body temperature - Assessment of body temperature, sites, equipments and technique, - Special considerations - Temperature alterations Hyperthermia, heatstroke, hypothermia - Hot and cold applications. • Pulse <ul style="list-style-type: none"> Physiology and regulation, characteristics of 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 - Characteristics of the respiration factor affecting respiration - Assessment of respiration : technique, special considerations - 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 : technique, special considerations - Alteration in blood pressure - Reading of vital signs 	15 hrs
UNIT-8	<p>Health Assessment</p> <ul style="list-style-type: none"> - Purpose - Process of health assessment - Health history - Physical examination 	30 hrs

	<ul style="list-style-type: none"> - Methods- inspection, palpation, percussion, auscultation, olfaction - Preparation of examination : patient and unit - General assessment - Assessment of each body system - Recording of health assessment. 	
UNIT-9	<p>Machinery, Equipment and Linen</p> <ul style="list-style-type: none"> • Type: Disposable and reusable – linen rubber goods, glass ware, metals, plastics, furniture, machinery • Introduction - Indent - Maintenance - Inventory 	5 hrs
UNIT-10	<p>Meeting needs of the patient.</p> <ul style="list-style-type: none"> • Basic needs (Activity of daily living) - Providing safe and clean environment. # Physical – environment, environment, temperature, humidity, noise, ventilation, light, odour, pest control. -Reduction of physical hazards fire accidents <p>Safety devices: restraints, side rails, airways, trapeze etc... .</p> <ul style="list-style-type: none"> - Role of nurse in providing safe and clean environment. 	60 hrs
	<ul style="list-style-type: none"> • Hygiene - Factors influencing hygiene practices - 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 - Comfort - Factors influencing comfort - Comfort devices. • Physiological needs: - Sleep and rest - Physiology of sleep - Factors affecting sleep - Promoting rest and sleep - Sleep disorders - Nutrition # Importance # Factors affecting nutritional needs # Assessment of nutritional needs, variables. # Meeting nutritional needs: principles , equipments, procedure and special considerations • Oral • Enteral: Nasogastric, gastrostomy 	

	<ul style="list-style-type: none"> • Parenteral • Urinary elimination <ul style="list-style-type: none"> - Review of physiology of urine elimination, - compositions and characteristics of urine - Factors affecting urination - Alteration in urinary elimination - Types & collection of urine specimens: observation, urine testing - Facilitating urine elimination assessment, types, equipments, special considerations - Providing urinal & bedpan - Condom drainage - Perineal care - Cathertization - Care of urinary drainage - Care of urinary diversion - Bladder irrigation • Bowel elimination <ul style="list-style-type: none"> - Review and physiology of bowel elimination - compositions and characteristics of faeces - Factors affecting bowel elimination - Alteration in bowel elimination - Facilitating bowel elimination assessment, types, equipments, special considerations # Passing of flatus tube # Enemas # Suppositories # Sultz bath # Bowel wash # Care of ostomies • Mobility and immobility <ul style="list-style-type: none"> - Principles of body mechanics - Maintenance of normal body alignment and mobility - Factors affecting body alignment and mobility # Hazards associated with immobility - Alteration in body alignment and mobility - Nursing interventions for impaired body alignment and mobility: Types, devices used, method and special consideration, rehabilitation aspects. # Range of motion exercises # Maintaining body alignment : positions # Moving # Lifting # Transferring # Restraints • Oxygenation Rajesh <ul style="list-style-type: none"> - Review of cardiovascular and respiratory physiology - Factors affecting oxygenation - Alteration in oxygenation - Nursing intervention in oxygenation: assessment, types, equipments used, procedures and special considerations. # Maintenance of patent airway # Oxygen administration # Suction 	
--	--	--

	<ul style="list-style-type: none"> # Inhalation : Dry & moist # Chest physiotherapy and postural drainage # Pulse oxymetry # CPR- Basic life support • Fluid, electrolyte and acid base balance <ul style="list-style-type: none"> -Review of physiological regulation of fluid -Electrolyte and acid base balances • Nursing intervention in Fluid, electrolyte and acid base balance <ul style="list-style-type: none"> : Assessment, types, equipments used procedures and special considerations. <ul style="list-style-type: none"> -# Measuring fluid intake and output # Correcting fluid & electrolyte balance • Replacement of fluids: oral & Parenteral • Venipuncture, regulating IV, flow rates, changing IV • Solutions & Tubing's, changing IV dressing. • Administrating blood transfusion. • Restrictions of fluids • Psychological needs • Concepts of cultural diversity, stress & adaptations, self concept, sexuality, spiritual health. Coping with loss, death & grieving <ul style="list-style-type: none"> • Assessment of psychological needs • Nursing intervention for psychological needs • Assist with coping and adaptations • Creating therapeutic environment • Recreational & diversional therapies. 	
--	---	--

--	--	--

<p>UNIT 11</p>	<p>Infection control and clinical settings.</p> <ul style="list-style-type: none"> - Nature of infection - Chain of infection transmission - Defenses against infection : natural & acquired - Hospital acquired infection - Concept of asepsis : medical asepsis and surgical asepsis - Isolation precaution (barrier nursing) - # Hand washing : simple hand asepsis and surgical asepsis (scrub) - # isolation : source and protective - # Personal protecting equipments : types, uses and techniques of wearing and removing - # Decontamination of equipments and unit - # Transportation of infected patients - # Transmission based precautions. • Biomedical waste management - Importance - Types of hospital waste - Hazards associated with hospital waste. - Decontamination of hospital waste - Segregation transportation and disposal 	<p>20 hrs</p>
<p>UNIT-12</p>	<p>Administration of Medication</p> <ul style="list-style-type: none"> • General principles/ considerations - Purposes of medications - Principle: 5 rights, special considerations, prescriptions, safety in administering in medication - Drug forms - Route of administration - Storage & maintenance of drug and nurses responsibility - Broad classification of drugs - Therapeutic effect, side effect, toxic effects, idiosyncratic reaction, allergic reaction, drug reaction - Factors influencing drug action - Systems of drug measurements : metric system, apothecary system, households measurement, solution - Converting measurement units : conversion within one system, conversion between systems, dosage calculations - Terminologies and abbreviations used in prescriptions and medications. • Parenteral - General principles: decontamination of syringes and needles. - Types of parenteral therapies. - Types of syringes , needles, cannula,and infusion sets - Protection from needle stick injuries: giving medications with safety syringes - Routes of parenteral therapies - # intradermal: Purpose, site, equipments, procedure, special considerations # subcutaneous: Purpose, site, equipments, procedure, special considerations # Intramuscular :Purpose, site, equipments, procedure, special 	<p>40 hrs</p>

	<p>considerations</p> <p># Intravenous: Purpose, site, equipments, procedure, special Considerations.</p> <p># Intravenous: Purpose, site, equipments, procedure, special Considerations.</p> <p># Advanced technique: epidural, intrathecal, introsseous, intraperitoneal, Intrapleural, intra-arterial – role of nurse.</p> <ul style="list-style-type: none"> • Topical administration: Purpose, site, equipments, procedure, special considerations. <ul style="list-style-type: none"> - Application to skin - Application to mucous - Direct application of liquids- gargle and swabbing the throat # Insertion of drug into body activity: Suppository/ medicated packing in rectum/vagina - # Instillation: ear, eye, nasal, bladder, & rectal. - # Irrigation: ear, eye, nasal, bladder, & rectal. # Spraying nose & throat. • Inhalation : Nasal, oral, endotracheal/ tracheal (steam, oxygen, and medication) purposes, 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 • Preoperative phase <ul style="list-style-type: none"> - Preparation of patient for surgery • Intra operative <ul style="list-style-type: none"> - Operation 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 wounds: types, equipments, procedure and special considerations <ul style="list-style-type: none"> - Dressing, suture care, - Care of drainage - Application of bandages, binders, splints, and slings - Heat & cold therapy 	10 hrs
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. 	15 hrs

	<ul style="list-style-type: none"> - Functioning of sensory organs (visual & hearing impairment) Assessment and management. - Communication method and special consideration - Mobility (physically challenged, cast) Assessment and management. - Mental state (mentally challenged) Assessment and management. - Communication methods & special considerations - Respiration (distress), Types, assessment, management - Comfort – (pain) nature, types, factors influencing pain, coping Assessment and management. • Treatment related to gastrointestinal system, Nasogastric suction, gastric Irrigation, gastric analysis. 	
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 - Medico legal issue - Care of dead care - Equipment, procedure, and care of unit. • Autopsy • Embalming 	5 hrs
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: Peplau's, Henderson, Orem's, Neumann's, Roger's, and Roy's • Linking theories with nursing process. 	6 hrs

NURSING FOUNDATION PRACTICAL

Placement First year

**Practical -650 hrs
(200 labs and 450 clinics)**

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

UNIT	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 <ul style="list-style-type: none"> - New patient - Transfer in • 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 & outcome selection of interventions. • Write nursing care plan. • Give s care as per the plan. <p>Communication</p> <ul style="list-style-type: none"> • Use verbal and non verbal communication techniques <p>Prepare a plan for patient teaching session</p>	<p>200 450 min practice time clinical area.</p>

	<p>Write patient report</p> <ul style="list-style-type: none"> • Change of shift reports, transfer reports, incident report etc • Present patient report <p>Vital signs</p> <ul style="list-style-type: none"> • Measure, record, and interpret alteration in body temperature, pulse, respiration and blood pressure. <p>Health assessment</p> <ul style="list-style-type: none"> • Health history taking • Perform assessment - General - Body systems • Use various methods of physical examinations • Inspection, palpation, Percussion, Auscultation, Olfaction. • Identification of system wise deviations. <p>Prepare patients unit</p> <ul style="list-style-type: none"> • Prepare beds: - 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"> • 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 • Perineal care • Catheterization care • Care of urinary drainage <p>Bladder irrigation</p> <p>Assisting bowel elimination</p> <ul style="list-style-type: none"> • Insertion of flatus tube • Enemas • Insertion of suppository <p>Bowel wash</p> <p>Body alignment and mobility:</p> <ul style="list-style-type: none"> - Range of motion exercises - Positioning: Recumbent, lateral, fowlers, Sims, lithotomy, prone, trendelburg position. - Assist patient in moving, lifting, transferring, walking - Restraints. <p>Oxygen administration</p> <p>Suctioning: oropharyngeal, nasopharyngeal</p> <p>Chest physiotherapy</p> <p>CPR-basic life support</p> <p>Intravenous therapy</p> <p>Blood and blood components therapy</p> <p>Collect/ assist for collection of specimen for investigations, urine, sputum, faeces, vomitus, blood and other body fluids.</p>	
--	--	--

	<p>Perform lab tests</p> <ul style="list-style-type: none"> • Urine: sugar, albumin and acetone • Blood : sugar (with stripe/ glucometer) <p>Hot and cold applications: Local and general sitz bath. Communicating and assisting self care of visually and hearing impaired patient's Communicating and assisting self care of mentally challenged / disturbed patient's Recreational and diversional therapies.</p> <p>Caring of patients 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 equipment and unit:- <ul style="list-style-type: none"> - Surgical asepsis - # sterilization - # handling sterilization equipments - # Calculate strengths of lotions - # Prepare lotions • Care of articles. <p>Pre and post operative care</p> <ul style="list-style-type: none"> • Skin preparation for surgery: local • Preparation of post operative unit • Pre and post operative unit • Pre & post operative teaching and counseling • Pre and post operative monitoring • Care of wound • Dressing: suture care, care of drainage, application of bandage, binders, splint and slings. • 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 intravenous medication • Drug measurement and dose calculation • Preparation of lotions and solutions. • Administer topical applications. • Insertion of drug into body cavity: suppository & medicated packing • 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 supportive grieving relatives • Terminal care of unit 	
--	--	--

PSYCHOLOGY

Placement: First year

Theory -60 hrs

Course Description: This course is designed to help the students to acquire knowledge of fundamentals of psychology and develop an insight in 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	2 hrs

	<ul style="list-style-type: none"> • History and origin of science of psychology • Definition & scope of psychology • Relevance to nursing • Methods of psychology 	
UNIT-2	Biology of behavior <ul style="list-style-type: none"> • Body mind relationship- modulation process in health and illness • Genetics and behavior – heredity and environment • Brain and behavior- nervous system, neurons and synapse • Association cortex, Rt and Lt hemisphere • Psychology of sensation • Muscular and glandular controls of behavior • Nature 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 alteration. • Perception: meaning, principles, factors affecting, errors • Learning: Nature, types, learner and learning, factors influencing. Laws and theories, process, transfer, study habits • Memory: Meaning, types, nature, factors influencing development theories and methods of memorizing and forgetting • Thinking: types and levels, stages of development, relationship with language and communication. • Intelligence: Meaning, classification, uses, theories • Attitude: concept, types, and levels, stages of development • Psychometric assessment of cognitive processes • Alteration in cognitive processes • Application. 	20 hrs
UNIT-4	Motivation and Emotion 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. • Stress: stressors, cycle, affect, adaptation and coping • Attitude: meaning, nature, development , factors affecting <ul style="list-style-type: none"> - Behavior and attitude - Attitudinal changes • Psychometric assessment of emotions and attitudes • Alteration in emotion • Application 	8 hrs
UNIT-5	Personality <ul style="list-style-type: none"> • Definition, topography, types, theories • Psychometric assessment of personality • Alteration in personality • Application 	7 hrs
UNIT-6	Developmental psychology <ul style="list-style-type: none"> • Psychology of people at different stages from infancy to old age. 	7 hrs

	<ul style="list-style-type: none"> • Psychology of vulnerable individual- challenged, women sick. • Psychology of groups 	
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 mechanisms and implication • Personal and social adjustment • Guidance and counseling • Role of nurse 	8 hrs
UNIT-8	Psychological assessments and tests <ul style="list-style-type: none"> • Types, development, characteristics, principles, uses, • interpretation and role of nurse in psychological assessment 	4 hrs

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	
		Th	Pr

UNIT-1	Introduction <ul style="list-style-type: none"> • Concepts of computers • Hardware and software: trends and technology • Application of computer in nursing 	3
UNIT-2	<ul style="list-style-type: none"> • Introduction to disk operating system - DOS - Windows(All versions) • Introduction - MS- Word - MS -Excel with pictorial presentation - MS-Access - MS- Power point 	6	20
UNIT-3	<ul style="list-style-type: none"> • Multimedia: types and uses • Computer aided teaching and testing 	2	3
UNIT-4	<ul style="list-style-type: none"> • Use of internet : email 	1	3
UNIT-5	<ul style="list-style-type: none"> • Statistical Package: types and their features 	2	2
UNIT-6	<ul style="list-style-type: none"> • Hospital management system: types and uses 	1	2

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 	1 hr
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 	3 hrs
UNIT-3	Culture <ul style="list-style-type: none"> • Nature of culture • Evolution of culture • Diversity and uniformity of culture • Culture and socialization • Trans cultural society • Influence on health and disease 	3 hrs
UNIT-4	Social groups and processes <ul style="list-style-type: none"> • The meaning and classification of groups • Primary and secondary group • In-group V/s outgroup, class, tribe, caste • Economic, political, religious groups, mob, crowd, public, and audience interaction and social processes • Accommodation, assimilation, and isolation 	4 hrs
UNIT-5	Population <ul style="list-style-type: none"> • Society and population • Population distribution in India. • Malthusian theory of population • Population explosion in India and its impact on health status • Family welfare programme 	6 hrs
UNIT-6	Family and marriage <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 <ul style="list-style-type: none"> • Changes and legislation on family and marriage in India- Marriage acts <ul style="list-style-type: none"> • Marriage: forms and functions of marriage • Marriage and family problems in India • Family, marriage and their influence on health and health practice 	5 hrs
UNIT-7	Social Stratification	7 hrs

	<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. 	
UNIT-8	Types of communication in India (rural, urban regional) <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 urban 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 health and health practice • Major urban problems- urban slums • Region : problems and impact on health 	6 hrs
UNIT-9	Social change <ul style="list-style-type: none"> • Nature and process of social change • Factors influencing social change: cultural change, cultural lag • Introduction to theories of social change: linear, cyclical, Marxi Functional • Role of nurse – change agents 	4 hrs
UNIT-10	Social Organization and social change <ul style="list-style-type: none"> • Social Organization: elements, types • Democratic and authoritarian modes of participation • Voluntary associations • Social system: definition, and types of social system • Inter-relationship of institutions. 	4 hrs
UNIT-11	Social Control <ul style="list-style-type: none"> • Nature and process of social control • Political, legal, religion, educational, economic, industrial and technological systems, norms and values- Folkways & mores, customs, laws and fashion • Role of nurse 	2 hrs
UNIT- 12	Social problems <ul style="list-style-type: none"> • Social disorganization • Control and planning: poverty, housing, illiteracy, food 	15 hrs

	supplies, prostitution, rights of women and children Vulnerable groups: elderly, handicapped, minority groups and marginalized groups, child labor, substance abuser, HIV / AIDS. • Social welfare programme in India Role of nurse	
--	---	--

PHARMACOLOGY

PLACEMENT: Second year

Theory: 45 hrs

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 • Pharmacodynamics: Action, therapeutic • Adverse toxic • Pharmacokinetic: absorption, 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 - Cephalosporin - Amino glycosides - Macrolide and broad spectrum antibiotics - Sulfonamides - Quinolones - Antiamalaria - Antihelementics - Antiscabies agents - Antiviral and antifungal agents - Antitubercular drugs - Antileprosy drugs - Anticancer drugs - Immunosuppressants <p>Composition: action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects, toxicity and role of nurse.</p> <p>-</p>	6 hrs
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>	2 hrs

	<ul style="list-style-type: none"> • Disinfectants • Insecticides 	
UNIT-4	<p>Drugs acting on GI system</p> <ul style="list-style-type: none"> • Pharmacology of commonly used - Antiemetics - Emetics - Purgatives - Antacids - Cholinergic - Anticholinergic - Fluid and electrolyte therapy - Anti diarrheals - 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 acting on respiratory system</p> <ul style="list-style-type: none"> • Pharmacology of commonly used - Antiasthmatics - Mucolytics - Decongestants - Expectorants - Antitussives - Bronchodilators - Antihistamines <p>Composition: action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects, toxicity and role of nurse.</p>	2 hrs
UNIT-6	<p>Drugs acting in urinary system</p> <ul style="list-style-type: none"> • Pharmacology of commonly used - Diuretics and anti diuretics - Urinary antiseptics - Cholinergic and Anticholinergic - Acidifiers and alkalinizers <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 • Drugs used in CPR and emergency • Vitamins and minerals immunosuppressant • Antidotes • 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 effects, toxicity and role of nurse</p>	1 hr

UNIT-9	<p>Drugs acting on nervous system</p> <ul style="list-style-type: none"> • Basic applied pharmacology of commonly used • Analgesics and anesthetics <ul style="list-style-type: none"> - 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 # Gases : oxygen, nitrous oxide, carbon di oxide • Cholinergic and Anticholinergic <ul style="list-style-type: none"> - Muscle relaxants - Major tranquilizers - Antipsychotic - Antidepressant - Anticonvulsant - Adrenergics - Nonadrenergics - Mood stabilizers Acetylcholine - Stimulants <p>Composition: action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects, toxicity and role of nurse.</p>	8 hrs
UNIT-10	<p>Cardiovascular drugs</p> <ul style="list-style-type: none"> • Hematinics • Cardiotonics • Anti anginals • Anti hypertensive and vasodilators • Anti – arrhythmic • Plasma expanders • Coagulants & anticoagulants • Antiplatelets and thrombolytics • Hypolipidemics <p>Composition: action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects, toxicity and role of nurse.</p>	5 hrs
UNIT-11	<p>Drugs used for hormonal disorders and supplements, contraception and medical termination of pregnancy</p> <ul style="list-style-type: none"> • Insulin and oral hypoglycemic • Thyroid supplement and suppressants • Steroids, antibiotics • Uterine stimulants and relaxants • Oral contraceptives • Other estrogen – progesterone preparation • Corticotrophin & gonadotropines • Adrenaline • Prostaglandins • Calcitonins • Calcium salts 	4 hrs

	<ul style="list-style-type: none"> • Calcium regulators 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 system of medicine * Ayurveda, Homeopathy, Unani and Sidha etc...	6 hrs

PATHOLOGY AND GENETICS

SECTION-A – PATHOLOGY

PLACEMENT: Second year

Time: Theory 30 hours

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

UNIT	CONTENT	TIME (HRS)	
		Th	Pr
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 • Inflation and infection • Wound healing • Vascular changes Cellular growth, Neoplasm's <ul style="list-style-type: none"> • Normal and cancer cell • Benign and malignant growth • In situ carcinoma Disturbances in fluid and electrolyte imbalance	3	
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 obstructive pulmonary disease & tumors Cardio-vascular system <ul style="list-style-type: none"> • Pericardial effusion 	10	5

	<ul style="list-style-type: none"> • Rheumatic heart disease • Infective endocarditis, atherosclerosis • Ischemia, infarction & aneurysm <p>Gastro Intestinal Tract</p> <ul style="list-style-type: none"> • Peptic ulcer, typhoid • Carcinoma of GI tract- buccal, esophageal • Gastric and intestinal <p>Liver Gall bladder & pancreas</p> <ul style="list-style-type: none"> • Hepatitis, Chronic liver abscess, cirrhosis • Tumors of liver gall bladder and pancreas • Cholecystitis <p>Kidneys and Urinary tract</p> <ul style="list-style-type: none"> • Glumerulonephritis, pyelonephritis • Calculi, renal failure, renal carcinoma & cystitis. <p>Male genital systems</p> <ul style="list-style-type: none"> • Cryptochidism, testicular atrophy • Prostatic hyperplasia, carcinoma penis & prostrate. <p>Female genital system</p> <ul style="list-style-type: none"> • Fibroids • Carcinoma cervix and endometrium • Vesicular mole, choriocarcinoma • Etopic gestation • Ovarian cyst & tumors • Cancer breast <p>Central nervous system</p> <ul style="list-style-type: none"> • Hydrocephalus, Meningitis, Encephalitis • Vascular disorders- thrombosis, embolism • Stroke, paraplegia, quadriplegia • Tumors, meningiomas- gliomas • Metastatic tumor <p>Skeletal system</p> <ul style="list-style-type: none"> • Bone healing, osteoporosis, osteomyelitis <p>Arthritis & tumors.</p>		
<p>UNIT-3</p>	<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 cells, & 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. • Inference and normal values. 	<p>4</p>	<p>3</p>

UNIT-4	Examination of body cavity fluids, transduates and exudates <ul style="list-style-type: none"> • The laboratories tests used in CSF analysis • Examination of other body cavity fluids, transduates 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 • Methods of collection of CSF & other cavity fluids, specimen for various clinical pathology, biochemistry, microbiology tests • Inference and normal values. 	2	1
UNIT-5	Urine and faeces # Urine <ul style="list-style-type: none"> • Physical characteristics • Analysis • Culture and sensitivity # Faeces <ul style="list-style-type: none"> • Characteristics • Stool examination: occult blood, ova, parasite and cyst Reducing substances etc.... .Methods of collection for various tests, Inference and normal values.	1	1

SECTION-B GENETICS

Placement: Second Year

Time Theory-15 hours

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

UNIT	CONTENT	TIME (HRS)
-------------	----------------	-------------------

UNIT-1	Introduction <ul style="list-style-type: none"> • Practical application of genetics in Nursing • Impact of genetic conditions 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"> # Mendalian theory of inheritance # Multiple allots and blood groups # Sex linked inheritance # Errors in transmission (Mutation) 	3
UNIT-2	Maternal, prenatal, and genetic influences on development of defects and diseases. <ul style="list-style-type: none"> • Conditions affecting the mother: genetic and infections. • Consanguinity atopy • Prenatal nutrition and food allergies • Maternal age • Maternal drug therapy • Prenatal testing and diagnosis • Effect of radiation, drugs and chemicals • Infertility • Spontaneous abortion • Neural tube defects and role of folic acid in lowering the risk • Downs syndrome (Trisomy 21) 	3
UNIT-3	Genetic testing in neonates and children <ul style="list-style-type: none"> • Screening for <ul style="list-style-type: none"> # congenital abnormalities # Developmental delay # Dysmorphism 	2
UNIT-4	Genetic conditions of adolescents and adults <ul style="list-style-type: none"> • Cancer genetics- familial cancer • Inborn errors of metabolism • Blood group alleles and hematological disorders • Genetic hemochromatosis • Huntington’s disease • Mental illness 	2
UNIT-5	Services related to genetics <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 Surgical Nursing

(Adult including Geriatrics)-1

Placement: Second Year

Time Theory – 210hours

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 varieties of health care settings and at home.

UNIT	CONTENT	TIME (HRS)
UNIT-1	<p>INTRODUCTION</p> <ul style="list-style-type: none">• Introduction to medical surgical nursing-Evolution and trends of medical and surgical nursing.• Review of Concepts of health and illness Disease-concepts causations, classification-International Classification Diseases (ICD-10 or later version). Acute illness chronic illness, 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.<ul style="list-style-type: none">○ 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○ Immunity.○ Wound healing.○ Care of Surgical Patient○ Pre-operative○ Intra-operative	15

	<ul style="list-style-type: none"> ○ Post-operative 	
UNIT-II	<p>Common signs and symptoms and management.</p> <ul style="list-style-type: none"> • Fluid and electrolyte imbalance • Vomiting • Dyspnea and cough, respiratory obstruction. • Fever • Shock • Unconsciousness, Syncope • Pain • Incontinence • Edema • Age related problems-Geriatric 	15
UNIT-III	<p>Nursing management of patients (adult including elderly) with respiratory problems.</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of respiratory systems. • Nursing Assessment-History and Physical assessment • Etiology, Pathophysiology clinical manifestations diagnosis treatment modalities and medical. Surgical dietetics & nursing management of adults including elderly with- <ul style="list-style-type: none"> ○ Upper Respiratory tract infections. ○ Bronchitis ○ Asthma ○ Emphysema ○ Empyema ○ Atelectasis ○ Chronic Obstructive Pulmonary Diseases (COPD) ○ Bronchiectasis ○ Pneumonia ○ Pulmonary tuberculosis ○ Lung abscess ○ Pleural effusion ○ Cysts and tumors ○ Chest injuries 	20

	<ul style="list-style-type: none"> ○ 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, tongue, salivary glands and teeth. ○ Esophagus-inflammation, structure obstruction bleeding and tumors. ○ Stomach and Duodenum- hiatus hernia. Gastritis, peptic ulcer duodenum ulcer bleeding, tumors, pyloric stenosis. ○ Small intestinal disorders- inflammation and infection, enteritis, malabsorption, obstruction, bleeding and tumor and perforation. ○ Large intestinal disorders- Colitis inflammation and infection enteritis obstruction tumor and lump. ○ Hernias ○ Appendix- inflammation, mass, abscess, rupture. ○ Anal & Rectum, hemorrhoids, fissures and fistulas ○ Peritonitis/acute abdomen. ○ Pancreas, inflammation, cyst, abscess and tumor. ○ Liver: inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure and tumor. ○ Gall Bladder: inflammation, obstruction, stones and tumor. <p>Special therapies, alternative therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of disorders of digestive systems.</p>	30
UNIT V	<p>Nursing management of patients (adult including elderly) with blood and cardiovascular problems.</p>	30

	<ul style="list-style-type: none"> • Review of anatomy and physiology of blood and cardio vascular systems. • Nursing Assessment- History and Physical assessment. • Etiology, Pathophysiology clinical manifestations, diagnosis treatment modalities and medical surgical dietetics & nursing management of – • Vascular system. <ul style="list-style-type: none"> ○ Hypertension, hypotension ○ Arteriosclerosis ○ Raynaud’s disease ○ Aneurysm and Peripheral vascular disorder <p>Heart</p> <ul style="list-style-type: none"> • Coronary artery diseases <ul style="list-style-type: none"> ○ Ischemic Heart Disease ○ Coronary arteriosclerosis. ○ Angina pectoris ○ Myocardial infraction. • Vascular disorders of the heart <ul style="list-style-type: none"> ○ Congenital and acquired ○ Rheumatic Heart diseases <p>Endocarditis, percarditis Myocarditis</p> <ul style="list-style-type: none"> • Cardio Myopathies • Cardiac dysrhythmias. Heart Block • Congestive cardiac failure <ul style="list-style-type: none"> ○ Cor-pulmonale, pulmonary edema, cardiogenic shock cardiac tamponade • Cardiac emergencies and arrest • Cardio pulmonary Resuscitation (CPR) • Blood <ul style="list-style-type: none"> ○ Anemia’s ○ Polycythemia ○ Bleeding disorders, clotting factor defects and platelets defects ○ Thalassemia ○ Leukaemias ○ Leukopenias and agranulocytosis ○ Lymphomas ○ Myelomas 	
--	---	--

	<ul style="list-style-type: none"> ○ Myelomas ● Special therapies <ul style="list-style-type: none"> ○ Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, record for blood transfusion ○ Management and counseling of blood donor's phlebotomy procedure and post donation management. Blood bank functioning and hospital transfusion committee Bio-safety and waste management in relation of Blood transfusion. ○ Role of a nurse in organ donation, retrieval and banking ○ Alternative therapies ○ Nursing procedures <p>Drugs used in treatment of blood and cardio vascular disorder.</p>	
<p>Unit VI</p>	<p>Nursing management of patients (adult including elderly) with Gention-Urinary problems</p> <ul style="list-style-type: none"> ● Review of anatomy and physiology of Gention-Urinary systems. ● Nursing Assessment-History and physical assessment ● Etiology, Pathophysiology clinical manifestation diagnosis treatment modalities and medical surgical dietetics & nursing management of- ● Nephritis ● Nephrotic syndrome ● Nephrosis ● Renal calculus ● Tumors ● Acute renal failure ● Chronic renal failure ● End stage renal disease ● Dialysis renal transplant ● Congenital disorders urinary infections ● Benign prostate hypertrophy ● Disorders of ureters. Urinary bladder and urethra-inflammation infection structure obstruction tumor prostate. <p>Special therapies alternative therapies</p> <p>Nursing procedures</p>	<p>10</p>

	Drugs used in treatment of disorder of Gento-Urinary systems	
UNIT VII	<p>Nursing Management of disorders of male (adult 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 • Hypospadiasis, Epispadiasis • Infection • Testis and adjacent structures • Penis • Prostrate Inflammation infection hypertrophy tumor • 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 (adult including elderly) with disorders of endocrine systems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of endocrine systems • Nursing Assessment – History and Physical assessment <p>Etiology, Pathophysiology clinical manifestation diagnosis treatment modalities and medical surgical dietetics & nursing management of –</p> <ul style="list-style-type: none"> ○ Disorders of Thyroid and Parathyroid ○ Diabetes mellitus ○ Adrenal tumour ○ Pituitary disorders <p>Special therapies, alternative therapies</p>	10

	Nursing procedures Drugs used in treatment of disorders of endocrine systems	
UNIT IX	<p>Nursing management of Patients (adults including elderly) 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 – <ul style="list-style-type: none"> ○ Lesions and abrasions ○ Infection and infestations Dermatitis ○ Dermatoses: infectious and infectious “ Inflammatory Dermatoses” ○ Acne Vulgaris ○ Allergies and Eczema ○ Psoriasis ○ Malignant melanoma ○ Alopecia <p>Special therapies, alternative therapies Nursing procedures. Drugs used in treatment of disorders of Integumentary systems</p>	15
UNIT X	<p>Nursing management of Patients (adult 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. <ul style="list-style-type: none"> ○ Muscles Ligaments and Joints- inflammation, infection trauma. ○ Bones- inflammation, infection dislocation fracture tumour and trauma ○ Osteomalacia and osteoporosis ○ Arthritis ○ Congenital deformities 	15

	<ul style="list-style-type: none"> ○ Spinal column-defects and deformities, tumour, prolapsed inter vertebral disc, pott's spine ○ Paget's disease <ul style="list-style-type: none"> ● Amputation ● Prosthesis ● Transplant & replacement surgeries ● Rehabilitation <p>Special therapies alternative therapies</p> <p>Nursing procedures</p> <p>Drugs in treatment of disorders of musculoskeletal system</p>	
<p>UNIT XI</p>	<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 manifestation diagnosis treatment modalities and medical surgical dietetics & nursing management of – <ul style="list-style-type: none"> ○ Immunodeficiency disorder4 ○ Primary immuno deficiency ○ Phagocyric dysfunction ○ B-cell and T-cell deficiency ○ Secondary immuno deficiency ○ Acquired immuno deficiency syndrome (AIDS) ○ Incidence of HIV & AIDS ○ Epidemiology ○ Transmission-Prevention of Transmission ○ Standard safety precautions ○ Role of Nurse Counseling ○ Health Education and home care consideration ○ National AIDS control program- NACO, various national and international agencies ○ Infection control program ○ Rehabilitation <p>Special therapies alternative therapies</p> <p>Nursing procedures</p>	<p>10</p>

	Drugs used in treatment of disorders of Immunological systems	
UNIT XII	<p>Nursing management of Patients (adult including elderly) with Communicable Diseases</p> <ul style="list-style-type: none"> • Overview of infectious disease the infectious process • Nursing Assessment- History and Physical assessment • Epidemiology, infectious process, clinical manifestation diagnosis treatment, prevention and dietetics. Control and eradication of common Communicable disease- <ul style="list-style-type: none"> ○ Tuberculosis ○ Diarrhoeal disease ○ Hepatitis A-E ○ Herpes ○ Chickenpox ○ Small pox ○ Typhoid ○ Meningitis ○ Gas gangrene ○ Leprosy ○ Dengue ○ Plague ○ Malaria ○ Diphtheria ○ Pertussis ○ Poliomyelitis ○ Measles ○ Mumps ○ Influenza ○ Tetanus ○ Yellow fever ○ Filariasis ○ HIV/AIDS • Reproductive infection • Special infection control measures notification, isolation quarantine, immunization, infection disease hospitals 	20

	<p>Special therapies alternative therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of communicable</p>	
UNIT XIII	<p>Perioperative nursing care</p> <ul style="list-style-type: none"> • Organization and physical set-up of the operation theatre (OT) <ul style="list-style-type: none"> ○ Classification ○ O.T DESIGN ○ Staffing ○ Members of OT team ○ Duties and responsibilities of nurse in O.T ○ Principles of health and operating room attire ○ Instruments ○ Suture and sutures material ○ Equipments ○ O.T tables and set for common surgical procedures ○ Position and draping for common surgical procedures ○ Scrubbing procedures ○ Gowning and gloving ○ Preparation of OT sets Monitoring the patient during surgical procedures • Maintenance of therapeutic environment in OT • Standard safety measures <ul style="list-style-type: none"> ○ Infection control fumigation disinfections and sterilization ○ Biomedical waste management ○ Prevention of accidents and hazards in OT • Anesthesia <ul style="list-style-type: none"> ○ Types ○ Methods of administration ○ Effects and stages ○ Equipments ○ Drugs • Cardiopulmonary resuscitation (CPR) • Pain management techniques <ul style="list-style-type: none"> ○ Legal aspects 	25

MEDICAL SURGICAL NURSING
(Adult including Geriatrics)-I

Practical

Placement: Second year

TIME: 720 HRS

AREA	SKILLS	DURATION (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 deviation	6

	<ul style="list-style-type: none"> • Practice medical surgical asepsis- standard safety measures • Administer medication <ul style="list-style-type: none"> - Oral, IV IM Subcutaneous • IV therapy <ul style="list-style-type: none"> - IV canulation - Maintenance and monitoring • Oxygen therapy by different methods • Nebulization • Chest physiotherapy • Naso gastric feeding • Assist in common diagnostic • Perform/Assist in therapeutic procedures • Blood and component therapy • Throat suctioning • Collect specimen for common investigations • Maintain elimination Catheterization, Bowel wash Enema, Urinary drainage • Maintain intake output and documentation • Counsel and teach related to specific disease conditions 	
<p>General Surgical Ward (GI, Urinary, CTVS)</p>	<ul style="list-style-type: none"> • Practice medical surgical asepsis • Standard safety measures • 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 • Ambulation and exercise • Naso gastric aspiration • Care of chest drainage 	<p>6</p>

	<ul style="list-style-type: none"> • 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 recording 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 • Assists in application and removal prosthesis • Physiotherapy and range of motion exercises 	2

	(ROM), muscle strengthening exercises <ul style="list-style-type: none"> • Crutch maneuvering technique • Activities of daily living • Ambulation • Teach and counsel patients and families 	
Operation theatre	<ul style="list-style-type: none"> • Scrubbing, gowning, 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 intubations • Assisting in minor and major operations • Handling specimens • Disposal of waste as per guidelines 	6

INTERNSHIP

TIME: 260 HOUR (9 WEEKS)

ICU, CCU, CARDIAC OT.	<ul style="list-style-type: none"> • Assist in arterial puncture for blood gas analysis • Perform ECG and interpret accordingly • Conduct and analysis pulse oxymetry • Care with artificial airway • Assist in endotracheal intubations 	2
-----------------------	---	---

	<ul style="list-style-type: none"> • Setting up ventilators • Giving care in ventilators • Drug sheet • Observation of special procedure in OT 	
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 Neuro surgery patients 	2
Burns and plastic reconstructive surgery	<ul style="list-style-type: none"> • Nursing 	2
OT, Laparoscopic, Orthopedic, EYE, ENT	<ul style="list-style-type: none"> • 	3

COMMUNITY HEALTH NURSING –I

Placement: Second Year

Theory-90hrs

Practical- 135Hours

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

UNIT	CONTENT	HOURS
UNIT-1	<p>Introduction</p> <ul style="list-style-type: none"> • Community health nursing • Definition concept and dimension one of health • Promotion of health • Maintenance of health 	2hrs.
UNIT-2	<p>Determinants of health</p> <ul style="list-style-type: none"> • Eugenics • 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 carries and immunity - Arthropods and rodents • Food hygiene: production, preservation, purchase, preparation consumption • Act regulating 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 	20hrs

	<p>groups and sick persons</p> <ul style="list-style-type: none"> • Life style • Hygiene • Physical activity <ul style="list-style-type: none"> - Recreation and sleep - Sexual life - Spiritual life philosophy - 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 an mortality: measurement • Level of prevention • Methods of epidemiology <ul style="list-style-type: none"> - Descriptive - Analytical: Epidemic investigation - Experimental 	10hrs
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 	25 hrs

	<ul style="list-style-type: none"> - Rubella - ARI's and Pneumonia - Mumps - Diphtheria - Whooping cough - Meningococcal Meningitis - Tuberculosis - SARS • Intestinal infection <ul style="list-style-type: none"> - Poliomyelitis - Cholera - Diarrhoeal disease - Typhoid fever - Food poisoning - Amoebas - Hook worm infection - Ascariasis - Dracunculiasis • Arthropods infection <ul style="list-style-type: none"> - Dengue - Malaria - Filariasis • Zoonoses • Viral <ul style="list-style-type: none"> - Rabies - Yellow fever - Japanese encephalitis - Kyasnur forest disease • Bacterial <ul style="list-style-type: none"> - Brucellosis - Plague - Human Relationship - Anthrax - Leptospirosis • Rickettsial disease 	
--	--	--

	<ul style="list-style-type: none"> - Rickettsial Zoonoses - Scrub typhus - Murine typhus - Tick typhus - Q fever • Parasitic 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 • Cancer • Diabetes mellitus • Blindness • Accidents • Mental illness • Obesity • Iodine deficiency • Flurosis • Epilepsy 	10 Hrs

UNIT-6	Demography <ul style="list-style-type: none"> • Definition concept and scope • Methods of collection analysis and interpretation of demographic data • Demographic rates and ratio 	6 Hrs
UNIT-7	Population and its control <ul style="list-style-type: none"> • Population explosion and its impact on social economic development of individual society and country • Population control <ul style="list-style-type: none"> - Overall development: Women empowerment social economic and educational development. • Limitation family size <ul style="list-style-type: none"> - Promotion of small family norm - Methods: spacing (natural, biological, chemical mechanical methods etc) - Terminal surgical methods - Emergency contraception 	17 Hrs

COMMUNITY HEALTH NURSING-1-PRACTICAL

Placement: Second Year

Practical: 135hours

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 	2 wks urban and 2 weeks rural

	- Health promotion	
--	--------------------	--

MICROBIOLOGY

Placement: First Year

Hours: 60 (Theory 45+15lab)

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

UNIT	CONTENT	HOURS	
		Th	Pr
UNIT-1	Introduction <ul style="list-style-type: none"> • Importance and relevance to nursing • Historical prospective • Concept and terminology • Principles of microbiology 	5hrs	-----

UNIT-2	<p>General characteristics of microbes</p> <ul style="list-style-type: none"> • Structure and classification of microbes • Morphological types • Size and form of bacteria • Motility • Colonization • Growth and nutrition of microbes <ul style="list-style-type: none"> - Temperature - Moisture - Blood and body fluids • Laboratory methods for identification of micro organisms • Staining techniques, gram staining , acid fast staining, hanging drop preparation • Culture various medias 	10hrs	5hrs
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 of rate of infection in the unit/ hospital nurses accountability continuing education etc. 	10 Hrs	2 Hrs

UNIT-4	Pathogenic organisms <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 - Rickettsial - Chyamyaide • Viruses • Fungi-Superficial and deep mycosis • Parasites • Rodents and vectors <p>Characteristics sources, portal of entry, transmission of infection, identification of disease producing organisms, Collection, handling and transportation of various specimens</p>	12 Hrs	4 Hrs
UNIT-5	Immunity <ul style="list-style-type: none"> • Immunity- types , classification • Antigen and antibody reaction • Hypersensitivity- skin test • Serological test <ul style="list-style-type: none"> - Vaccines & sera-types and classification, storage and handling, cold chain - Immunization for various diseases - Immunization schedule 	8Hrs	4Hrs

B.S.C. NURSING
THIRD YEAR

**MEDICAL SURGICAL NURSING
(ADULT INCLUDING GERIATRICS)-II**

Placement: Third Year

Theory-120hrs

Practical -270Hours

Course Description: The purpose of this course is to acquire knowledge and develop proficiency in caring for patient with medical surgical disorders in varieties 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 physically assessment • Etiology, Pathophysiology, clinical manifestation, diagnosis treatment modalities and medical and surgical nursing management of ear nose and throat disorders. <ul style="list-style-type: none"> ○ External ear: deformities otalgia foreign bodies and tumors ○ Middle year- impacted wax, tympanic, membrane perforation, otitis media, and tumors. ○ Inner ear- Menier’s disease, lybrinthitis, ototoxicity tumors ○ Upper airway infections – Common cold, sinusitis ethinitis, rhinitis, pharyngitis, tonsillitis and adenoiditis, peritonsilar abscess, laryngitis. • Upper respiratory airway – epitaxis • Nasal obstruction, laryngeal obstruction, cancer of the larynx • Cancer of the oral cavity • Speech defects and speech therapy 	15 Hrs

	<ul style="list-style-type: none"> • Deafness • Prevention control and rehabilitation • Hearing aids, implanted hearing devices <p>Special therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of disorders of ear, nose and throat</p> <p>Role of nurse communication with hearing impaired and muteness</p>	
UNIT-2	<p>Nursing management of patient with disorder 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: <ul style="list-style-type: none"> ○ Refractive errors ○ Eyelids – infection, tumour and deformities ○ Conjunctiva – inflammation and infection bleeding ○ 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>Drugs used in treatment of disorder of eye</p>	15 Hrs

<p>UNIT-3</p>	<p>Nursing management of patient with neurological disorders</p> <p>Review of anatomy and physiology of the neurological system</p> <ul style="list-style-type: none"> • Nursing assessment – history and physical and neurological assessment and Glasgow coma scale • Etiology, Pathophysiology, clinical manifestation, 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 ○ Quadriplegia • 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 – Beli’s palsy trigeminal neuralgia • Peripheral Neuropathies : Guillainbarr's Syndrome • Myasthenia gravis • Multiple sclerosis • Degenerative disease <ul style="list-style-type: none"> ○ Delirium ○ Dementia ○ Alzheimer’s disease ○ Parkinson’s disease 	<p>16hrs</p>
----------------------	--	---------------------

	<ul style="list-style-type: none"> • 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 <p>Role of nurse in long stay facility (institution) and at home</p> <p>Special therapies</p> <p>Nursing procedures</p> <p>Drug used in treatment of neurological disorders</p>	
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 manifestation, diagnosis treatment modalities and medical and surgical nursing management of disorder of female reproductive system • Congenital abnormalities 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 disorder: infection cysts, tumors • Diseases of Breasts: deformities infection, cysts and tumors • Menopause and hormonal replacement therapy • Infertility • Contraception types methods risk and effectiveness 	16 Hrs

	<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 <p>Special therapies</p> <p>Nursing procedures</p> <p>Drug used in treatment of gynecological disorders</p> <p>National family welfare programme</p>	
UNIT-5	<p>Nursing management of patient with burns, reconstructive and cosmetic surgery</p> <ul style="list-style-type: none"> ● Review of anatomy and physiology of the skin and connective tissues and various deformities ● Nursing assessment – History and physical assessment and assessment of burns and fluid and electrolyte loss ● Etiology, Pathophysiology, clinical manifestation, diagnosis treatment modalities and medical surgical nursing management of burns and reconstructive and cosmetic surgery ● Types of r-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 <p>Nursing procedures</p> <p>Drug used in treatment of burns, constructive and cosmetic surgery</p>	10 Hrs
UNIT-6	<p>Nursing management of patient with Oncological conditions</p> <ul style="list-style-type: none"> ● Structure and characteristics of normal and cancer cells ● Nursing assessment- history and physically assessment 	10 Hrs

	<ul style="list-style-type: none"> • 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, larynxes. Lung, stomach, and colon, liver, leukemia's 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 bon marrow transplants ○ Gene therapy ○ Other forms of treatment • Psychological aspects of cancer • 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 situation Disaster Nursing;</p> <ul style="list-style-type: none"> • Concept and principals of disaster nursing • Causes and types of disaster; Natural and manmade <ul style="list-style-type: none"> ○ Earthquake, floods, epide3mics, cyclones ○ Fire, explosion, accidents ○ Violence, terrorisom, biochemical, war • Policies related to emergency/disaster management: institutional 	10 Hrs

	<p>national state, institutional</p> <ul style="list-style-type: none"> • Disaster preparedness • Team, guidelines, protocols, equipments, resources • Co-ordination and involment 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 disorder • Rehabilitation: physical, psychosocial, financial relocation Emergency nursing • Concept, priorities, principles and scope and emergency nursing • Organization of emergency services: physical set-up, staffing equipment and supplies, protocols, concept 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 manifestation, staging, clinical manifestation, diagnosis, treatment modalities and medical and surgical nursing management of patient with medical and surgical emergency • Principles of emergency management • Common emergencies • Cardiac emergencies • Shock and hemorrhage • Pain • Poly-trauma, road accidents, crush, injuries, wound • Bites • Poisoning: food, gas, drugs and chemical poisoning • Seizures • Thermal emergencies; heat and cold injuries • Pediatric emergencies • Psychiatric emergencies • Obstetrical emergencies 	
--	--	--

	<ul style="list-style-type: none"> • 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 • Aging • Demography: Myths and realities • Concepts and theories of ageing • Cognitive aspects 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"> ○ Psychosocial and sexual ○ 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	Nursing management of patients in critical units	10 Hrs

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

MEDICAL SURGICAL NURSING
(Adult and Geriatrics)- II Practical

Placement: Third Year

Time Theory- 120hrs

Practical- 270hrs

Internship-430hrs

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 • Perform 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 procedure • Perform/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 diagnostic procedures • 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 procedures • Assist with therapeutic procedures • Teach patient and families • Teach self Breast examination • Assist with PAP smear collection 	1
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 	1

	<ul style="list-style-type: none"> - Dressing • Perform active and passive exercises • Practical medical and surgical asepsis • Counsel and teach patient and families • Participate in rehabilitation program 	
Oncology Unit	<ul style="list-style-type: none"> • Screen for common cancers-TNM classification • Assist with diagnostic procedures <ul style="list-style-type: none"> - Biopsies - Pap smear - Bone-marrow aspiration • Breast examination • Assist with therapeutic procedures • Participate in various modalities of treatment <ul style="list-style-type: none"> - Chemotherapy - Radiotherapy - Pain management - Stomaltherapy - Hormonal therapy - Immuno therapy - Gene therapy - Alternate therapy • Participate in palliative care • Counsel and teach patient families <ul style="list-style-type: none"> - Self Breast Examination - Warning signs • Participate in rehabilitation program 	1
Critical care unit	<ul style="list-style-type: none"> • Monitoring of patients in ICU • Maintain flow sheets • Care of patient on ventilators • Perform Endotracheal suction • Demonstration use of ventilators, cardiac monitors etc. 	2

	<ul style="list-style-type: none"> • Collect specimen and interprets ABG analysis • Assist in arterial puncture • Maintain CVP line • Pulse oxymetry • CPR-ALS • 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 	
Casualty/Emergency	<ul style="list-style-type: none"> • Practice “triage” • Assist with assessment, examination, investigations and their interpretation, in emergency and disaster situation • Assist in documentations • 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

Area	Skills	Duration (in Weeks)
Medical Ward	Integrated Practice	2
Surgical ward		2
Critical care unit/ICCU		1
Casualty/Emergency		2
Operation theatre		2
(Eye, ENT, Neuro)		

B.Sc. NURSING

THIRD YEAR

**MEDICAL SURGICAL NURSING
(ADULT INCLUDING GERIATRICS)-II**

**Placement: Third Year
Hours**

Theory-120

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 varieties of 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 physically assessment • Etiology, Pathophysiology, clinical manifestation, diagnosis treatment modalities and medical and surgical nursing management of ear nose and throat disorders. <ul style="list-style-type: none"> ○ External ear: deformities otalgia foreign bodies and tumors ○ Middle year- impacted wax, tympanic, membrane perforation, otitis media, and tumors. ○ Inner ear- Menier’s disease, lybrinthitis, ototoxicity 	15 Hrs

	<p>tumors</p> <ul style="list-style-type: none"> ○ Upper airway infections – Common cold, sinusitis, ethinitis, rhinitis, pharyngitis, tonsillitis and adenoiditis, peritonsillar abscess, laryngitis. <ul style="list-style-type: none"> ● Upper respiratory airway – epistaxis ● Nasal obstruction, laryngeal obstruction, cancer of the larynx ● Cancer of the oral cavity ● Speech defects and speech therapy ● Deafness <ul style="list-style-type: none"> ● Prevention control and rehabilitation ● Hearing aids, implanted hearing devices <p>Special therapies</p> <p>Nursing procedures</p> <p>Drugs used in treatment of disorders of ear, nose and throat</p> <p>Role of nurse communication with hearing impaired and muteness</p>	
<p>UNIT-2</p>	<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: <ul style="list-style-type: none"> ○ Refractive errors ○ Eyelids – infection, tumour and deformities ○ Conjunctiva – inflammation and infection bleeding ○ 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 	<p>15 Hrs</p>

	<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>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 manifestation, 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 ○ Quadriplegia • 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 – Beli’s palsy trigeminal neuralgia • Peripheral Neuropathies : Guillainbarr’s Syndrome • Myasthenia gravis • Multiple sclerosis 	16 hrs

	<ul style="list-style-type: none"> • Degenerative disease <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 <p>Role of nurse in long stay facility (institution) and at home</p> <p>Special therapies</p> <p>Nursing procedures</p> <p>Drug used in treatment of neurological disorders</p>	
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 manifestation, diagnosis treatment modalities and medical and surgical nursing management of disorder of female reproductive system • Congenital abnormalities 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 disorder: infection cysts, tumors 	16 hrs

	<ul style="list-style-type: none"> • 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 <p>Special therapies</p> <p>Nursing procedures</p> <p>Drug used in treatment of gynecological disorders</p> <p>National family welfare programme</p>	
<p>UNIT-5</p>	<p>Nursing management of patient with burns, reconstructive and cosmetic surgery</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of the skin and connective tissues and various deformities • Nursing assessment – History and physical assessment and assessment of burns and fluid and electrolyte loss • Etiology, pathophysiology, clinical manifestation, diagnosis treatment modalities and medical surgical nursing management of burns and reconstructive and cosmetic surgery • Types of r-constructive and cosmetic surgery for burns, congenital deformities, injuries and cosmetic purposes • Role of nurse • Legal aspects • Rehabilitation • Special therapies • Psychosocial aspects <p>Nursing procedures</p>	<p>10 hrs</p>

	Drug used in treatment of burns, constructive and cosmetic surgery	
UNIT-6	<p>Nursing management of patient with Oncological conditions</p> <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, larynxes. Lung, stomach, and colon, liver, leukemia's 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 bon marrow transplants ○ Gene therapy ○ Other forms of treatment • Psychological aspects of cancer • 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 	10 Hrs
Unit-7	<p>Nursing management of patient in EMERGENCY AND DISASTER situation</p> <p>Disaster Nursing;</p>	10 Hrs

	<ul style="list-style-type: none"> • Concept and principals of disaster nursing • Causes and types of disaster; Natural and manmade <ul style="list-style-type: none"> ○ Earthquake, floods, epide3mics, 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 involment 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 disorder • Rehabilitation: physical, psychosocial, financial relocation Emergency nursing • Concept, priorities, principles and scope and emergency nursing • Organization of emergency services: physical set-up, staffing equipment and supplies, protocols, concept 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 manifestation, staging, clinical manifestation, diagnosis, treatment modalities and medical and surgical nursing management of patient with medical and surgical emergency • Principles of emergency management • Common emergencies • Cardiac emergencies • Shock and hemorrhage • Pain • Poly-trauma, road accidents, crush, injuries, wound • Bites 	
--	--	--

	<ul style="list-style-type: none"> • Poisoning: food, gas, drugs and chemical poisoning • Seizures • Thermal emergencies; heat and cold injuries • Pediatric emergencies • Psychiatric 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 • Aging • Demography: Myths and realities • Concepts and theories of ageing • Cognitive aspects 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"> ○ Psychosocial and sexual ○ 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) 	10 Hrs

	<ul style="list-style-type: none"> • Legal and ethical issues • Provision and programme for elderly, privileges, community programs and health services • Home and institutional care 	
UNIT-9	<p>Nursing management of patients in critical 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 • Protocols, equipments, ventilators, cardiac monitors, defibrillators • Resuscitation equipments • Infection control and protocols 	10 Hrs

MEDICAL SURGICAL NURSING

(Adult and Geriatrics)- II Practical

Placement: Third Year

Time Theory- 120hrs

Practical- 270hrs

Internship-430hrs

Areas	Skills to be developed	Duration (In weeks)
ENT	<ul style="list-style-type: none"> • Perform examination of ear, nose and throat 	1

	<ul style="list-style-type: none"> • Assist with diagnostic procedures • Assist with therapeutic procedures • Instillation of drops • Perform/assist with irrigations • Apply ear bandage • Perform tracheotomy care • Teach patient and families 	
Ophthalmology	<ul style="list-style-type: none"> • Perform examination of eye • Assist with diagnostic procedures • Assist with therapeutic procedure • Perform/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 diagnostic procedures • 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 procedures • Assist with therapeutic procedures • Teach patient and families • Teach self Breast examination • Assist with PAP smear collection 	1
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 	1

	<ul style="list-style-type: none"> - Record intake/output • Care of burns wound <ul style="list-style-type: none"> - Bathing - Dressing • Perform active and passive exercises • Practical medical and surgical asepsis • Counsel and teach patient and families • Participate in rehabilitation program 	
Oncology Unit	<ul style="list-style-type: none"> • Screen for common cancers-TNM classification • Assist with diagnostic procedures <ul style="list-style-type: none"> - Biopass - Pap smear - Bone-marrow aspiration • Breast examination • Assist with therapeutic procedures • Participate in various modalities of treatment <ul style="list-style-type: none"> - Chemotherapy - Radiotherapy - Pain management - Stomalththerapy - Hormonal therapy - Immuno therapy - Gene therapy - Alternate therapy • Participate in palliative care • Counsel and teach patient families <ul style="list-style-type: none"> - Self Breast Examination - Warning signs • Participate in rehabilitation program 	1
Critical care unit	<ul style="list-style-type: none"> • Monitoring of patients in ICU • Maintain flow sheets • Care of patient on ventilators • Perform Endotracheal suction • Demonstration use of ventilators, cardiac monitors 	2

	<p>etc.</p> <ul style="list-style-type: none"> • Collect specimen and interprets ABG analysis • Assist in arterial puncture • Maintain CVP line • Pulse oxymetry • CPR-ALS • Defibrillators • Pace makers • Bag-mask ventilation • Emergency tray/trolley- Crash Cart • Administration of drugs <ul style="list-style-type: none"> - Infusion pump - Epidural - Intra thecal - Intracardiac • Total parenteral therapy • Chest physiotherapy • Perform active and passive exercises • Counsel the patient and family in dealing with grieving and bereavement 	
Casualty/Emergency	<ul style="list-style-type: none"> • Practice “triage” • Assist with assessment, examination, investigations and their interpretation, in emergency and disaster situation • Assist in documentations • 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

Area	Skills	Duration (in Weeks)
------	--------	---------------------

Medical Ward	Integrated Practice	2
Surgical ward		2
Critical care unit/ICCU		1
Casualty/Emergency		2
Operation theatre (Eye, ENT, Neuro)		2

Child Health Nursing

Placement: Third Year

Time: Theory-90hrs

Practical-270hrs

Internship – 145hrs

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

UNIT	CONTENT	TIME (HRS)
I	<p>Introduction</p> <p>Modern concept of child care</p> <ul style="list-style-type: none"> • Internationally accepted rights of the child • National policy and legislation 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 • 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 procedures 	15
II	<p>The healthy child</p> <ul style="list-style-type: none"> • Principles of grows and development • Factors-effecting growth and development • Growth and development from birth to adolescence 	20

	<ul style="list-style-type: none"> • The needs of normal children through the stages of development 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 	
III	Nursing care of neonates <ul style="list-style-type: none"> • Nursing care of a normal new born/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	Integrated management of neonatal and childhood illness (IMNCI)	10
V	Nursing management in common childhood disease <ul style="list-style-type: none"> • Nutritional deficiency disorders • Respiratory disorder 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 tumour, infection and congenital disorder • Neurological infections and disorder conclusions, epilepsy meningitis hydrocephalus, spina-bifida • Hematological disorders, club feet hip dislocation and fracture • Disorder of skin eye and ears • Common communicable disease in children their identification nursing management in hospital and home and prevention 	20

	<ul style="list-style-type: none"> • Child health emergencies: poisoning foreign bodies, hemorrhage burns and drowning • Nursing care of infant and children with HIV/AIDS 	
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

Time-270hrs

Fourth year

Internship – 145hours 93 weeks)

Areas	Skills	Duration (in weeks)
Pediatric Medicine Ward	<ul style="list-style-type: none"> • Taking pediatric history • Physical examination and assessment of children • Administer of oral, I/M and I/V medicine/Fluids • Calculation of fluids replacement • Prepare different methods • Give baby bath • Feed children by katori, spoon, etc • Collect specimen for common investigation • Assist with common diagnostic procedure • Teach mothers/parents <ul style="list-style-type: none"> ○ Malnutrition ○ Oral rehydration therapy ○ Feeding and wearing ○ Immunization schedule ○ Play therapy ○ Specific disease conditions • Calculate prepare and administer I/V fluids • Do bowel wash • Care ostomies <ul style="list-style-type: none"> ○ Colostomy irrigation ○ Ureterostomy ○ Gastrostomy 	3 Wks

	<ul style="list-style-type: none"> ○ Enterostomy ● Urinary catheterization and drainage ● Feeding <ul style="list-style-type: none"> ○ Naso-gastric ○ Gasrostomy ○ Jejunostomy ● Care of surgical wounds <ul style="list-style-type: none"> ○ Dressing ○ 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"> ○ Colostomy irrigation ○ Uretestomy ○ Gastrostomy ○ Enterostomy ● Urinary catheterization and drainage ● Feeding <ul style="list-style-type: none"> ○ Naso-gastric ○ Gasrostomy ○ Jejunostomy ● Care of surgical wounds <ul style="list-style-type: none"> ○ Dressing ○ Suture removal 	3Wks
Pediatric OPD/ Immunization	<ul style="list-style-type: none"> ● Assessment of children <ul style="list-style-type: none"> ○ Health assessment ○ Development assessment ○ Anthropometrics assessment ● Immunization ● Health / Nutrition education 	1Wk
Pediatric Medicine & Surgical ICU	<ul style="list-style-type: none"> ● Care of baby in incubator/warmer ● Care of child on ventilator ● Endotracheal suction ● Chest physiotherapy 	1+1Wks

	<ul style="list-style-type: none"> • Administer fluids with infusion pump • Total parenteral nutrition • Phototherapy • Monitoring of babies • Cardio pulmonary resuscitation 	
	INTERNSHIP	
Pediatric Medicine Ward/ICU	Integrated practice	1wk
Pediatric Surgery Ward/ICU	Integrated practice	1wk
NICU	Integrated Practice	1Wk

MENTAL HEALTH NURSING

Placement: Third Year

Theory-90hrs

Practical-270Hours

Internship – 95Hours (2 weeks)

Course Description: This course is designed for developing and understanding of the modern approach to mental health, identification, prevention and nursing management of common mental problem with special emphasis on therapeutic intervention for individual's family and community.

UNIT	CONTENT	HOURS
UNIT-1	Introduction <ul style="list-style-type: none">• Perspectives of mental health and mental health nursing evolution of mental health services, treatments and nursing practices• Prevalence and incidence of mental health problems and disorders• Mental health Act.• National mental health policy• National mental health programme• Mental health team	5 hrs

	<ul style="list-style-type: none"> • Nature and scope of mental health nursing • Role and functions of mental health nurse in various settings and factors affecting the level of nursing practice • Concepts of normal and abnormal behavior 	
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: ICD • Review of personality development defense 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 nurse <ul style="list-style-type: none"> ○ Existential model ○ Psycho- analytical model ○ Behavior model ○ Interpersonal model 	8 hrs
UNIT-3	<p>Assessment of mental health status</p> <ul style="list-style-type: none"> • History taking • Mental health examination • Mini mental health examination • Neurological examination review • Investigations related blood EEG, ECT, MRI • Psychological tests <p>Role and responsibilities of nurse</p>	8 Hrs
UNIT-4	<p>Therapeutic communication and the nurse-patient relationship</p> <ul style="list-style-type: none"> • Therapeutic communication types techniques, characteristics 	6 Hrs

	<ul style="list-style-type: none"> • Types of relationship • Ethics and responsibilities • Element of nurse patient contract • Review of technique of JPR – Johari windows • Goals, phases, tasks, therapeutic techniques • Therapeutics impasse and its intervention 	
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 meditation, bio feedback • Alternative system of medicine • Occupational therapy • Physical therapy; electro conclusive therapy • Geriatric considerations <p>Role of nurse in above therapies</p>	14 hrs
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 • Follow-up and home care and rehabilitation 	5 Hrs
UNIT-7	<p>Nursing management of patient with mood disorders</p> <ul style="list-style-type: none"> • Mood disorders: Bipolar affective disorder, Mania depression 	5 hrs

	<p>and dysthymia etc.</p> <ul style="list-style-type: none"> • Etiology, psycho-pathology, types clinical manifestations diagnosis • Nursing assessment – history and physical assessment • Treatment modalities and nursing management of patient with mood disorder • Geriatric considerations • Follow-up and home care and rehabilitation 	
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, obsessive compulsive disorder somatoform disorder, post traumatic disorder • Etiology, psycho-pathology clinical manifestations, diagnosis • Nursing assessment – History physical and mental assessment • Treatment modalities and nursing management of patients • Geriatric considerations • Follow-up and home care and rehabilitation 	8 Hrs
UNIT-9	<p>Nursing management of patient with substance use and disorder</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 rehabilitation 	5 hrs

UNIT-10	Nursing management of patient with personality, sexual and eating disorders <ul style="list-style-type: none"> • Classification of disorders • Etiology, psycho-pathology, clinical manifestation, 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 of 	4 Hrs
UNIT-11	Nursing management of childhood and adolescent disorders including mental deficiency <ul style="list-style-type: none"> • Classification • Etiology, psycho-pathology clinical manifestation, diagnosis • Nursing assessment- History, physical, mental assessment and IQ assessment • Treatment modalities and nursing management of childhood and adolescent disorder including mental deficiency • Follow-up and home care and rehabilitation 	6 hrs

B.Sc. NURSING
FOURTH YEAR

MIDWIFERY AND OBSTETRICAL NURSING

Placement: Fourth Year

Theory – 90 hrs.

Practical – 180 Hours.

Course Description: This course is designed for students to appreciate the concept any principles of midwifery and obstetrical nursing. It helps them to acquire knowledge and skills in rendering nursing care to normal and high risk pregnant women during antenatal, natal & postnatal periods in hospital and community settings. It also helps to develop skills in managing normal an high risk neonates and participates 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 & preparing for parenthood.○ Role of nursing in midwifery & obstetrical care.○ National policy and legislation in relation to ,maternal health and welfare.	3 hrs.

	<ul style="list-style-type: none"> ○ Maternal morbidity, mortality and fertility rates. ○ Prenatal morbidity, mortality rates. 	
UNIT - 2	<p>Review of anatomy and physiology of female reproductive and fetal development.</p> <ul style="list-style-type: none"> ● Female pelvis- general description of the bones joint. Ligaments, planes of the pelvis diameters of the true pelvis. Important landmarks, variations in pelvic shapes. ● Female organs of reproductive: external genital, 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"> ○ Conception ○ Review of fertilization, implantation, development of the embryo and placenta at term functions. Abnormalities, the fetal sac amniotic fluid the umbilical chord. ○ Fetal circulation, fetal skull, bones, sutures and measurement. ● Review of genetics. 	8 hrs.
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"> ○ Reproductive system ○ Cardiovascular system ○ Respiratory system ○ Urinary system ○ Gastro intestinal system ○ Metabolic changes ○ Skeletal changes ○ Skin changes ○ Endocrine system ○ Physiological changes ○ Discomfort of pregnancy ● Diagnosis of pregnancy <ul style="list-style-type: none"> ○ Signs ○ Differential diagnosis ○ Confirmatory tests. ● Ante natal care <ul style="list-style-type: none"> ○ Objectives ○ Assessment <ul style="list-style-type: none"> - History and physical examination - Antenatal examination - Signs of previous child birth <ul style="list-style-type: none"> ○ Relationship of fetus to uterus and pelvic lie, attitude, presentation, position. ○ Pervaginal examination 	8 hrs.

	<ul style="list-style-type: none"> • 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"> ○ Antenatal counseling ○ Antenatal exercise ○ Diet, Substance use ○ Education for child birth, Husband and families ○ Preparation for self confinement ○ Prevention fro radiation • Psycho – social and cultural aspects. <ul style="list-style-type: none"> ○ Adjustment to pregnancy ○ Unwed mother ○ Single parent ○ Teenage pregnancy ○ sexual violence • Adoption 	
<p>UNIT – 4</p>	<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"> ○ Sign & symptoms of onset of labor normal and abnormal ○ Duration ○ Preparation of <ul style="list-style-type: none"> ✓ Labour room ✓ Woman ○ Assessment and observation of women in labor. Partogram – maternal and fetal monitoring ○ Active management of labour, induction of labour. ○ Pain relief and comfort in labours • Second stage <ul style="list-style-type: none"> ○ Sign & symptoms : normal & abnormal ○ Duration ○ Conduct of delivery : principles and technique ○ Episiotomies (only if required) ○ Receiving the new born <ul style="list-style-type: none"> - Neonatal resuscitation : initial steps and subsequent resuscitation - Care of umbilical cord. - Immediate assessment including screening for congenital anomalies. - Identification - Bonding - Initiate feeding - Screening and transportation of the neonate. • Third stage <ul style="list-style-type: none"> ○ Sign & symptoms : normal & abnormal 	<p>12 hrs.</p>

	<ul style="list-style-type: none"> ○ Duration ○ Method of placenta expulsion ○ Management : principles and technique ○ Examination of the placenta ○ 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"> ○ Promoting physical and emotional well big ○ Lactation management ○ Immunization 	5 hrs
	<ul style="list-style-type: none"> ● Family dynamics after child birth ● Family welfare services , method , 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"> ○ Physiological adaptation ○ Initial and daily assessment ○ Essential newborn care , thermal control ○ Breast feeding, prevention of infections ● Immunization ● Minor disorders of newborn and its management ● Level of neonatal care (level I,III & III) ● At primary , secondary & tertiary levels. ● Maintenance o reports and records. 	6 hrs.
UNIT -7	<p>High risk pregnancy – assessment and management</p> <ul style="list-style-type: none"> ● screening and assessment <ul style="list-style-type: none"> ○ Ultrasonic, cardio tomography, NST, CST, ○ Non invasive and invasive. ○ Newer modalities of diagnosis ● High risk and approach ● Levels of care primary , secondary and tertiary levels ● Disorders of pregnancy <ul style="list-style-type: none"> ○ Hyper – emesis gravid arum bleeding in early pregnancy, ,abortion ectopic ○ Pregnancy , vesicular mole ○ Ante – partum hemorrhage ● Uterine abnormality and displacement ● Diseases complicating pregnancy <ul style="list-style-type: none"> ○ Medical and surgical conditions ○ Infection , RTI (STD), UTI HIV, TORCH ○ Gynecological disease complicating pregnancy ○ Pregnancy included hypertension and diabetes, toxemia of pregnancy, hydramnios. ○ Rh incompatibility 	10 hrs.

	<ul style="list-style-type: none"> ○ Mental pregnancy ○ Abnormalities of placenta and cord ○ Intra – Uterine growth retardation ○ Nursing management of mothers with high risk pregnancy ○ Maintenance of records and reports. 	
UNIT -8	<p>Abnormal labor – assessment and management</p> <ul style="list-style-type: none"> ● Disorders in labour <ul style="list-style-type: none"> ○ CPD and contracted pelvis ○ Mal position and Mal presentations 	
	<ul style="list-style-type: none"> ○ Premature labour, disorders of uterine action precipitate labor prolonged labour. ○ Complication of third stage : injuries to birth canal ● Obstetrical emergencies and their management : <ul style="list-style-type: none"> ○ Presentation and prolapsed of cord. Vasa- praveia. Amniotic fluid, embolism, rupture of uterus, shoulder dystocia, obstetrical shock. ● Obstacles procedure and operation : <ul style="list-style-type: none"> ○ Introduction of labour, forceps, vacuum version. Manual removal of placenta, caesarean section destructive operations. ● Nursing management of women undergoing obstetrical operation and procedures. 	
UNIT - 9	<p>Abnormalities during postnatal period.</p> <ul style="list-style-type: none"> ● Abnormalities and management of woman with postnatal complications <ul style="list-style-type: none"> ○ Puerperal infection, breast engorgement and infections, and infection, UTI thromboembolic disorders, post partum hemorrhage, eclampsia and sub involution. ○ Psychological complications : <ul style="list-style-type: none"> - post partum blues - post partum depression - post partum psychosis 	4 hrs.
UNIT -10	<p>Assessment and management of high risk newborn</p> <ul style="list-style-type: none"> ● Admission of neonates in the neonatal intensive unit's protocols. ● Nursing management of <ul style="list-style-type: none"> ○ Low birth wait babies ○ Infection ○ Respiratory problems ○ Hemolytic disorders ○ Birth injuries ○ Malformation ● Monitoring of high risk neonates ● Feeding of high risk neonates 	10 hrs.

	<ul style="list-style-type: none"> • Organization and management of neonatal intensive care units. • Infection control in neonatal intensive care units. • Maintenance of reports and records. 	
UNIT -11	<p>Pharmaco – therapeutic in obstetrics</p> <ul style="list-style-type: none"> • Indication, dosage, action, contraindication and side effects of drugs. • Effects of drugs on pregnancy , labour and puerperium • Nursing responsibilities in the administration of drugs in obstetrics – oxytocins , antihypertensive , diuretics, tocolytic agents, anticonvulsants; 	
	<ul style="list-style-type: none"> • Analgesics and anesthesia in obstetrics • Effect of maternal medication on fetus on fetus and neonate 	
UNIT -12	<p>Family welfare programme</p> <ul style="list-style-type: none"> • Population trends and problems in India • Concepts, Aims, importance and history of family welfare programme. • National population dynamic, policy and education. • National family welfare programme, RCH, ICDS, MCH, Safe motherhood. • Organization and administration at national, state, district block and village level. • Methods of contraception’s spacing , temporary and permanent emergency contraception’s • Infertility and its management • Counseling for family welfare. • Latest research in contraception’s • Maintenance of vital statistics. • Role of nurse in family welfare programme. • Training supervision/ collaboration with other functionaries in communities like ANMs, LHV’s, and Anganwadi workers. BA (Traditional Birth Attendant Dai) 	12 hrs.

Midwifery and Obstetrical

Nursing Practical

**Placement: Third Year
Fourth Year**

**Time: Practical -180 hrs. (Third year)
Internship -240 hrs.**

Area	Skills	Durations (in weeks)
Antenatal Clinic 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 • 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 labor and birth record. • Arrange for and assist with caesarean section and care for woman 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 	4

	<ul style="list-style-type: none"> • Perineal care • Lactation management • Breast feeding • Baby bath • Immunization • Teaching postnatal mother : <ul style="list-style-type: none"> ○ Mother craft ○ Post natal care ○ Exercise 	
Newborn nursery	<ul style="list-style-type: none"> • Newborn assessment • Admission of neonates • Feeding of at risk neonates • Katori spoon. • Paladin, 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 • Teaching and counseling of parents • Maintenance of neonatal records. • Counseling techniques • Insertion of IUD • Teaching on use family planning methods • Arrange for and assist with family planning operations. • Maintenance • Of record and reports 	
Family planning clinic		
	<ul style="list-style-type: none"> * Essential Requirements for registration a midwife * Antenatal examination * Conducting normal delivers in hospital/ home health center * Vaginal examination * Episiotomy suturing * Neonatal resuscitation * Assist with caesarean section * Witness /Assist abnormal deliveries. * Postnatal cases nursed in hospital/ home /health center * Insertion of IUD 	<p>30</p> <p>20</p> <p>5</p> <p>5</p> <p>5</p> <p>2</p> <p>5</p> <p>20</p> <p>5</p>
	NOTE: All casebooks must be certified by teacher on complication of essential requirements.	

Internship Obstetrical Nursing

Internship Duration 5 weeks

Area	skills	Duration (In weeks)
Labour ward	<ul style="list-style-type: none">• Integrated practices.	2
Neonatal intensive care unit /NICU		1
Antenatal		2

COMMUNITY HEALTH NURSING – II

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

UNIT	CONTENT	HOURS
UNIT -1	Introduction <ul style="list-style-type: none"> • Definition, concept and scope of community health and community health nursing • Historical development of <ul style="list-style-type: none"> ○ Community health ○ Community health nursing ○ Pre-independence ○ Post independence 	4 hrs
UNIT-2	Health planning and policies and problems <ul style="list-style-type: none"> • National health planning in India Five year Plans • Varies communities and commission on health and family welfare. <ul style="list-style-type: none"> ○ Central council of health and family welfare (CCH & FW) ○ National health policies (1986-2002) ○ National Health Policy • Health problems in India. 	6 hrs
UNIT-3	Delivery of community health services <ul style="list-style-type: none"> • Planning, budgeting and material management of SCs, PHC & CHC. • Rural, organization , staffing and function of rural health service provided by government at : <ul style="list-style-type: none"> ○ Village ○ Sub centre ○ Primary health & centre ○ Community health centre / subdivision ○ Hospitals ○ District ○ State ○ Centre • Urban : organization , staffing and function of urban health services <ul style="list-style-type: none"> ○ Slums ○ Dispensaries ○ Maternal and child health centers 	15 hrs
	<ul style="list-style-type: none"> ○ Special clinics ○ Hospitals ○ Corporation municipality board • Components of health services <ul style="list-style-type: none"> ○ Environmental sanitation ○ Health education 	

	<ul style="list-style-type: none"> ○ Vital statistic ○ MCH: antenatal, natal, postnatal, MTP act, female feticide act, child adoption act. ○ Family welfare ○ National health programme ○ School health services ○ Occupation health ○ Defense services ○ Institutional services ● System of medicine and health care <ul style="list-style-type: none"> ○ Allopathy ○ Indian system of medicine and homeopathy ○ Alternative health care system like yoga, meditation ● Social & 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"> ○ Nursing theories and nursing process ○ Epidemiologic approach ○ Problem solving approach ○ Evidence based approach ○ Empowering people to care for themselves. ● Concepts of primary health care <ul style="list-style-type: none"> ○ Equitable distribution ○ Community participation ○ Focus on prevention ○ Use of appropriate technology ○ Multi- sectorial approach ● Rules & responsibilities of community health nursing personnel in <ul style="list-style-type: none"> ○ Family health services ○ Information education communication (IEC) ○ Management information system(MIS) maintenance of records & reports ○ Training and supervision of various categories of health workers ○ National health programmes ○ Environmental sanitation ○ Maternal and child health family welfare. 	25 hrs.
	<ul style="list-style-type: none"> ○ Treatment of minor ailments ○ School health services ○ Occupational health ○ Organization of clinics, camps, types, preparation, planning. ○ Waste management in the centers, clinics etc. ● Home visit, concept, principles, process, techniques, bag technique and home visit 	
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 individuals, families and group in 	15 hrs.

	<p>A. Assessment of self & family</p> <ul style="list-style-type: none"> ○ Monitoring growth and development - Mile stone - Weight measurement - Social development ○ Temperature and blood pressure monitoring ○ Menstrual cycle ○ Breast self examination testicles ○ Warning sign of various diseases ○ Teats : urine sugar and albumin, blood sugar <p>B. Seek health service for</p> <ul style="list-style-type: none"> ○ Routine check up ○ Immunization ○ Counseling ○ Diagnosis ○ Treatment ○ Follow –up <p>C. Maintains of health records for self and family</p> <p>D. Continue medical care and follow –up in community For various disease and disabilities.</p> <p>E Carryout therapeutic procedure as prescribed required For self and the family.</p> <p>F. Waste Management</p> <p>G. Sensitize and handle social issues affecting health and development for self and family</p> <ul style="list-style-type: none"> ● Women empowerment ● Women and child abuse ● Abuse o elders ● Female feticide ● Commercial sex worker Food adulteration ● Substance abuse <p>H. Utilize community resources for self and family</p>	
	<ul style="list-style-type: none"> ○ Trauma services ○ Old age homes ○ Orphanage ○ Homes of physically and mentally challenged individuals ○ Homes for destitute 	
UNIT-6	<p>National health and family welfare programme s and the role of a nurse</p> <ul style="list-style-type: none"> ● National ARI programme ● Revised national tuberculosis programme (RNTCP) ● National anti- malaria programme ● National filarial control programme ● National guinea worm eradication programme ● National AIDS control programme ● National blindness control programme ● Expanded programme on immunization ● National family welfare programme ● National water supply and sanitation programme ● Minimum need programme ● National diabetes control programme 	20 hrs.

	<ul style="list-style-type: none"> • Polio eradication programme • National cancer control programme • Yaws eradication programme • National nutrition anemia prophylaxis programme • 20 points programme • ICDS programme • Mid day meal applied nutritional programme • National mental health programme • Health schemes <ul style="list-style-type: none"> ○ ESIS ○ CGHS ○ Health insurance 	
UNIT-7	<ul style="list-style-type: none"> • Health agencies <ul style="list-style-type: none"> ➤ International – WHO, UNPPA, 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 –H-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 adoption of common procedure• Home visit bag technique	1 week for urban & 4 weeks for rural

	<ul style="list-style-type: none"> • Organization and conduct clinics- antenatal postnatal, well baby clinic, camps etc. • Screen manage and referrals for <ul style="list-style-type: none"> ○ High risk mothers and neonates ○ Accidents and emergencies ○ Illness : physical and mental ○ Disabilities • Conductive delivery at home/ centre : Episiotomy and suturing • Resuscitate newborn • School health programme <ul style="list-style-type: none"> ○ Screen manage , refer children • Collaborate with health and allied agencies • Train and supervise health workers • Provide family welfare services insertion of (UI) • Counsel and teach individual, family and community about: HIV, T.B., Diabetes, Hypertension, Mental Health, adolescents, elderly health, physically and mentally challenged individuals. • Collect and calculate vital health statistics • Document and maintain <ul style="list-style-type: none"> ○ Individual, family and administrative records. ○ Write reports- center, disease and national health programme/ projects. 	
Area	Skills	Duration
Urban	<ul style="list-style-type: none"> • 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. Research process and statistics. It is further structured to conduct participate in need based research studies in various setting and utilize the research findings to provide quality nursing care. The hours for practical will be utilized the research findings to provide quality nursing care. The hours for practical will be utilized for conducting individual / group research project.

Unit	Content	Time (hrs.)
I	Research and research process <ul style="list-style-type: none"> • Introduction and need for nursing • Definition of research and nursing research • Steps of scientific method • Characteristics of good research • Steps of Research process- overview. 	4
II	Research Problem Question <ul style="list-style-type: none"> • Identification of problem area • Problem statement • Criteria of a good research problem • Writing objectives 	3
III	Review of Literature <ul style="list-style-type: none"> • location • sources • On line search; CINHAI, COCHRANE, etc..... • Purpose • Methods of review 	3
IV	Research approaches and designs <ul style="list-style-type: none"> • Historical , survey and experimental • Qualitative and quantitative designs 	4

V	Sampling and data collection <ul style="list-style-type: none"> • Definition of population , sample, sampling criteria , factors influencing sampling techniques • 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 measurement 	8
	<ul style="list-style-type: none"> ○ Types of instruments ○ Validity and reliability of the instruments ○ Pilot study ○ Data collection procedure 	
VI	Analysis of data <ul style="list-style-type: none"> • Complication, Tabulation, classification summarization, presentation interpretation of data. 	4
VII	Introduction to statistics <ul style="list-style-type: none"> • Definition, use of statistic, 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 	15
VIII	Communication and utilization of Research <ul style="list-style-type: none"> • Communication of research findings <ul style="list-style-type: none"> ○ Verbal report ○ Writing research report ○ Writing scientific article/ paper - critical review of published research - utilization of research findings 	4

Management of Nursing Services and Education

Placement: Fourth Year

Time: Theory – 90 hrs.

Course Description: This course is designed to enable students 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)	
		T	P
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	5	

	<ul style="list-style-type: none"> • Planning mission, philosophy, objectives operation plan. • Staffing, philosophy, staffing study, norms, activities patient classification system, scheduling. • Human resource management: recruiting, selecting, development, retaining, promoting, super annuation etc. • Budgeting concept, principles, types, costs, benefit analysis, audit. • Material management equipments supplies. • Directing process (Leading) • Controlling quality management • Program Evaluation Review Techniques (PERT) Bench marketing , activity plan(Gantt Chart) 		
III	<p>Management of nursing services in hospital and community</p> <ul style="list-style-type: none"> • Planning <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. ○ Patient / population classification system ○ Patient / population assignment and nursing care responsibilities. 	8	20
IV	<ul style="list-style-type: none"> • Staff development and welfare <p>Budgeting: proposal projecting requirements for staff equipments and supplies for.</p> <ul style="list-style-type: none"> ○ Hospital and patients care units ○ Emergency and disaster management <ul style="list-style-type: none"> • Directing and leading delegations, participatory management. <ul style="list-style-type: none"> ○ Assessment , rotation, delegations ○ Supervision and guidance ○ Implement standards, policies, procedures and practices. ○ Staff development and welfare ○ Maintenance of discipline • Controlling / Evaluation <ul style="list-style-type: none"> ○ Nursing <ul style="list-style-type: none"> - Rounds /Visit - Nursing protocols - Manuals ○ Quality assurance model documentation ○ Records and reports Performance appraisal 		
IV	Organizational behavior and human relations	5	

	<ul style="list-style-type: none"> • Concepts and theories of organizational behaviors • Review of channels of communication • Leadership styles • Review of motivation • Concepts and theories • Group dynamic • Technique of <ul style="list-style-type: none"> ○ Communication and ○ Interpersonal relationship ○ Human relationship • Public relation in context of nursing. • Relation with professional associations and employee union and collectives bargaining. 		
V	<p>In service education</p> <ul style="list-style-type: none"> • Nature and scope of n service education program. • Organization of in service education • Principles of adult learning • Planning for in service education programme. Techniques, methods and evaluation of staff educating program. • Preparation of report 	5	
VI	<p>Management of nursing educational institution</p> <ul style="list-style-type: none"> • Establishment of nursing educational institutions : INC norms and guidelines. • Co- ordination with- <ul style="list-style-type: none"> ○ Regulation bodies ○ Accreditation ○ Affiliation ○ Philosophy/objectives organization ○ Structure ○ Comities ○ Physical facilities ○ College/ school ○ Hostel- students ○ Selection ○ Admission ○ Guidance and counseling ○ Maintaining discipline - faculty and staff <ul style="list-style-type: none"> ○ Selection ○ Recruitment ○ Job description ○ Placement ○ Performance appraisal ○ Development and welfare • Budgeting • Equipments and supplies, audio- visual equipment, laboratory equipment, books, journals etc. 	10	

	<ul style="list-style-type: none"> • Curriculum, planning, implementation and evaluation. • Clinical facilities • Transport facilities • Institutional records and reports- administrative faculty, staff and students. 		
VII	<p>Nursing as a profession</p> <ul style="list-style-type: none"> ○ Philosophy ; nursing practice ○ Aims and objectives ○ Characteristics of a professional nurse. ○ Regulatory bodies; INS, SNC Acts; - constitution, functions. ○ Current trends and issue in nursing ○ Professional ethics ○ Code of ethic :INC, ICN ○ Code of professional conduct :INC, ICN 	10	
	<ul style="list-style-type: none"> • Practice standards for nursing, INC. • Consumer protection act • Legal aspects in nursing • Legal terms related to practice; registration and licensing Laws related to nursing practice Breach and penalties • Malpractices and negligence. 		
VIII	<p>Professional Advancement</p> <ul style="list-style-type: none"> • Continuing education • Career opportunities • Collective bargaining • Membership with professional organization on : national and International • Participate in research activities • Publications; journals; newspapers etc. 	3	

