

Table 1. First year Basic B.Sc. Nursing

Subjects	Theory Hours	Practical / Clinical Hours	Hours
1. English	60		
2. Anatomy	60		
3. Physiology	60		
4. Nutrition	60		
5. Biochemistry	30		
6. Nursing Foundations	265 + 200	450	
7. Psychology	60		
8. Microbiology	60		
9. Introduction to Computers	45		
10 Kannada	30		
11 Library work / Self Study			50
12 Co-curricular activities			50
TOTAL	930	450	100
TOTAL HOURS = 1480 HRS			

Table2. Second Year Basic B.Sc. Nursing

Subjects	Theory Hours	Practical / Clinical Hours	Hours
1. Sociology	60		
2. Pharmacology	45		
3. Pathology	30		
4. Genetics	15		
5. Medical Surgical Nursing (Adult including geriatrics)	210	720	
6. Community Health Nursing	90	135	
7. Communication and Educational Technology	60 + 30		
8. Library work / Self Study			50
9. Co-curricular activities			35
TOTAL	540	855	85
TOTAL HOURS = 1480 HRS			

9. Scheme of Examination

First year

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

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

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

All practical examinations must be held in the respective clinical areas.
One internal and one external examiner should jointly conduct practical /clinical examination for each student.

Second Year

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

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

Sociology

Placement : Second Year

Time: Theory 60 Hours

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

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activity
I	1	* State the importance of sociology in Nursing	<p>Introduction</p> <ul style="list-style-type: none"> * Definition of Sociology * Nature and Scope of the discipline * Importance and application of Sociology in Nursing <p>Teaching Learning Activity</p> <ul style="list-style-type: none"> * Lecture Discussion
II	3	* Describe the inter-relationship of individual in society and community	<p>Individual and Society</p> <ul style="list-style-type: none"> * Society and Community * Nature of Society * Difference between Society and Community * Process of Socialization and individualization * Personal disorganization <p>Teaching Learning Activity</p> <ul style="list-style-type: none"> * Lecture Discussion
III	3	*Describe the influence of culture and disease	<p>Culture</p> <ul style="list-style-type: none"> * Nature of culture * Evolution of culture * Diversity and uniformity of culture * Culture and socialization * Transcultural society * Influence on health and disease <p>Teaching Learning Activity</p> <ul style="list-style-type: none"> * Lecture Discussion * Panel Discussion
IV	4	*Identify various social groups and their interactions	<p>Social groups and processes</p> <ul style="list-style-type: none"> * The meaning and classification of groups * Primary & Secondary group * In-group V/s. Out-group, class tribe, caste * Economic, Political, Religious, groups, Mob, Crowd, Public and Audience Interaction & Social

			<p>Processes</p> <ul style="list-style-type: none"> * Co-operation, Competition, Conflict * Accommodation, Assimilation & Isolation <p>Teaching Learning Activity</p> <ul style="list-style-type: none"> * Lecture Discussion
V	6	<ul style="list-style-type: none"> * Explain the growth of population in India and its impact on health 	<p>Population</p> <ul style="list-style-type: none"> * Society and population * Population distribution in India Demographic characteristics * Malthusian theory of Populations * Population explosion in India and its impact on health status * Family welfare programmes <p>Teaching Learning Activity</p> <ul style="list-style-type: none"> * Lecture Discussion * Community identification
VI	5	<ul style="list-style-type: none"> * Describe the Institutions of family and marriage in India 	<p>Family and Marriage</p> <ul style="list-style-type: none"> * Family – functions * Types – Joint, Nuclear, blended and extended family: characteristics * The modern family changes, problems – dowry etc, welfare services * Changes and legislations on family and marriage in India – Marriage acts * Marriage: forms and functions of marriage * Marriage and family problems in India * Family, Marriage and their influence on health and health practices <p>Teaching Learning Activity</p> <ul style="list-style-type: none"> * Lecture Discussion * Family case study
VII	7	<ul style="list-style-type: none"> * Describe the class and caste system and their influence on health and health practices 	<p>Social stratification</p> <ul style="list-style-type: none"> * Meaning and types of social stratification * The Indian caste system-origin and features * Features of caste in India today * Social class system and status * Social Mobility –Meaning & types * Race as a biological concept, criteria of racial classification * Salient features of Primary races-Racism * Influence of Class, Caste and Race on health and health practices

			<p>Teaching Learning Activity</p> <ul style="list-style-type: none"> * Lecture Discussion * Community survey
VIII	6	<ul style="list-style-type: none"> * Describe the types of communities in India, their practices and the impact on health 	<p>Types of Communities in India (Rural, Urban and Regional)</p> <ul style="list-style-type: none"> * Features of village community and characteristics of Indian villages Panchayat system, social dynamics * Community Development project & planning * Changes in Indian Rural life * Availability of health facilities in rural and its impact on health and health practices * Urban–Community – features * The growth of cities: urbanization and its impact on health and health practices * Major Urban problems – Urban Slums * Region: Problems and impact on Health <p>Teaching Learning Activity</p> <ul style="list-style-type: none"> * Lecture Discussion * Visits to rural and urban community * Community survey
IX	4	<ul style="list-style-type: none"> * Explain the process of Social Change 	<p>Social Change</p> <ul style="list-style-type: none"> * Nature and process of social change * Factors influencing Social change: cultural change, Cultural lag. * Introduction to Theories of social change: :Linear, Cyclical, Marxian, Functional Role of nurse-Change agents <p>Teaching Learning Activity</p> <ul style="list-style-type: none"> * Lecture Discussion
X	2	<ul style="list-style-type: none"> * Describe the Social system and inter-relationship of social organizations 	<p>Social Organization and Social System</p> <ul style="list-style-type: none"> * Social organization: elements, types * Democratic and authoritarian modes of participation * Voluntary association * Social system: Definition and Types of social system * Role and Status as structural elements of social system * Inter-relationship of institutions <p>Teaching Learning Activity</p> <ul style="list-style-type: none"> * Lecture Discussion * Observation visits

XI	2	* Explain the nature and process of social control	<p>Social control</p> <p>* Nature and process of social control</p> <p>* Political, Legal, Religious, Educational, Economic, Industrial and Technological system, Norms & Values – Folkways & Mores Customs, Laws and fashion</p> <p>Role of Nurse</p> <p>Teaching Learning Activity</p> <p>* Lecture Discussion</p> <p>* Community survey</p>
XII		* Describe the role of the nurse in dealing with social problems in India	<p>Social Problems</p> <p>* Social disorganization</p> <p>* Control & planning: poverty, housing, illiteracy, food supplies, prostitution, rights of women & children, vulnerable groups: Elderly, handicapped, minority groups and other marginalized groups, child labour, child abuse, delinquency and crime, substance abuse, HIV/Aids</p> <p>* Social welfare programmes in India</p> <p>Role of Nurse</p> <p>Teaching Learning Activity</p> <p>* Lecture Discussion</p> <p>* Institutional visits</p>

Scheme of University Examination: Sociology

- **Theory**

There shall be one paper of three hours duration carrying 100 marks

Distribution of Type of Questions and Marks for Sociology

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

No Practical Examination.

Pharmacology

Placement : Second Year

Time : Theory – 45 hours

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

Unit	Time (Hrs)	Learning Objectives	Content and Teaching learning Activities
I	3	<ul style="list-style-type: none"> Describe pharmacokinetics, classification and the principles of drug administration 	<p>Introduction to pharmacology</p> <ul style="list-style-type: none"> Definitions Sources Terminology used Types: Classification Pharmacodynamics: Actions, therapeutic Adverse, toxic Pharmacokinetics : absorption, distribution, metabolism, interaction, excretion Review: Routes and principles of administration of drugs Indian pharmacopoeia : Legal issues Rational use of drugs Principles of therapeutics <p><i>Teaching learning Activities</i> * Lecture Discussion</p>
II	6	<ul style="list-style-type: none"> Explain Chemotherapy of specific infections and infestations and nurse's responsibilities 	<p>Chemotherapy</p> <ul style="list-style-type: none"> Pharmacology of commonly used; <ul style="list-style-type: none"> □ Penicillin □ Cephalosporins □ Aminoglycosides □ Macrolide & Broad Spectrum Antibiotics □ Sulfonamides □ Quinolones □ Antiamoebic □ Antimalarials □ Anthelmintics □ Antiscabies agents □ Antiviral & anti-fungal agents □ Antitubercular drugs □ Anti leprosy drugs □ Anticancer drugs

			<ul style="list-style-type: none"> ❑ Immuno-suppressants <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p> <p>Teaching learning Activities</p> <ul style="list-style-type: none"> * Lecture Discussion * Drug study/ presentation
III	2	<ul style="list-style-type: none"> • Describe Antiseptics disinfectants, insecticides and nurse's responsibilities 	<p>Pharmacology of commonly used antiseptics, disinfectants and insecticides</p> <ul style="list-style-type: none"> • Antiseptics; • Disinfectants • Insecticides <p>Teaching learning Activities</p> <ul style="list-style-type: none"> * Lecture Discussion * Drug study/ presentation
IV	2	<ul style="list-style-type: none"> • Describe Drugs acting on Gastro Intestinal system and nurse's responsibilities 	<p>Drugs acting on G.I. system</p> <ul style="list-style-type: none"> • Pharmacology of commonly used – ❑ Antiemetics, ❑ Emetics ❑ Purgatives ❑ Antacids ❑ Cholinergic ❑ Anticholinergics ❑ Fluid and electrolyte therapy ❑ Anti diarrhoeals ❑ Histamines <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p> <p>Teaching learning Activities</p> <ul style="list-style-type: none"> * Lecture Discussion * Drug study/ presentation
V	2	<ul style="list-style-type: none"> • Describe Drugs used on Respiratory systems and nurse's responsibilities 	<p>Drugs used on Respiratory Systems</p> <ul style="list-style-type: none"> • Pharmacology of commonly used – ❑ Antiasthmatics ❑ Mucolytics ❑ Decongestants ❑ Expectorants ❑ Antitussives ❑ Bronchodilators ❑ Broncho constrictors ❑ Antihistamines

			<p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p> <p>Teaching learning Activities * Lecture Discussion * Drug study/ presentation</p>
VI	2	<ul style="list-style-type: none"> Describe Drugs used on Urinary System and nurse's responsibilities 	<p>Drugs used on Urinary System</p> <ul style="list-style-type: none"> Pharmacology of commonly used – <ul style="list-style-type: none"> Diuretics and antidiuretics Urinary antiseptics Cholinergic and anticholinergics Acidifiers and alkalanizers <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p> <p>Teaching learning Activities * Lecture Discussion * Drug study/ presentation</p>
VII	4	<ul style="list-style-type: none"> Describe Drugs used in Dead diction, emergency, deficiency of vitamins & minerals, poisoning, for immunization and immuno-suppression and nurse's responsibilities 	<p>Miscellaneous</p> <ul style="list-style-type: none"> Drugs used in de-addiction Drugs used in CPR and emergency Vitamins and minerals Immunosuppresants Antidotes Antivenom Vaccines and sera <p>Teaching learning Activities * Lecture Discussion * Drug study/ presentation</p>
VIII	1	<ul style="list-style-type: none"> Describe Drugs used on skin and mucous membranes and nurse's responsibilities 	<p>Drugs used on skin and mucous membranes</p> <ul style="list-style-type: none"> Topical applications for skin, eye, ear, nose and buccal cavity Antipruritics <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p> <p>Teaching learning Activities * Lecture Discussion <ul style="list-style-type: none"> Drug study/ presentation </p>

IX	8	<ul style="list-style-type: none"> • Describe Drugs used on Nervous System and nurse's responsibilities 	<p>Drugs acting on Nervous system</p> <ul style="list-style-type: none"> • Basic & applied Pharmacology of commonly used : • Analgesics and Anaesthetics <ul style="list-style-type: none"> □ Analgesics <ul style="list-style-type: none"> - Non steroidal anti-inflammatory (NSAID) drugs □ Antipyretics □ Hypnotics and Sedatives <ul style="list-style-type: none"> - Opioids - Non-Opioids - Tranquilizers - General & local anesthetics - Gases : oxygen, nitrous oxide, carbon-dioxide • Cholinergic and anti-cholinergics: <ul style="list-style-type: none"> □ Muscle relaxants □ Major tranquilizers □ Anti-psychotics □ Antidepressants □ Anticonvulsants □ Adrenergics □ Noradrenergics □ Mood stabilizers □ Acetylcholine □ Stimulants <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p> <p><i>Teaching learning Activities</i></p> <ul style="list-style-type: none"> * Lecture Discussion * Drug study/ presentation
X	5	<ul style="list-style-type: none"> • Describe Drugs used on Cardiovascular System and nurse's responsibilities 	<p>Cardiovascular drugs</p> <ul style="list-style-type: none"> • Haematinics • Cardiotonics • Anti anginals • Anti-hypertensives & Vasodilators • Anti-arrhythmics • Plasma expanders • Coagulants & anticoagulants • Antiplatelets & thrombolytics • Hypolipidemics <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>

			<p>Teaching learning Activities * Lecture Discussion * Drug study/ presentation</p>
XI	4	<ul style="list-style-type: none"> Describe drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities 	<p>Drugs used for hormonal disorders & supplementation, contraception and medical termination of pregnancy</p> <ul style="list-style-type: none"> Insulins & Oral hypoglycemics Thyroid supplements and suppressants Steroids, Anabolics Uterine stimulants and relaxants Oral contraceptives Other estrogen-progestrone preparations Corticotrophine & Gonadotropines Adrenaline Prostaglandins Calcitonins Calcium salts Calcium regulators <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p> <p>Teaching learning Activities * Lecture Discussion * Drug study/ presentation</p>
XII	6	<ul style="list-style-type: none"> Demonstrate awareness of the common drugs used in alternative system of medicine 	<p>Introduction to Drugs used in alternative systems of medicine:</p> <ul style="list-style-type: none"> Ayurveda, Homeopathy, Unani and Siddha etc. <p>Teaching learning Activities * Lecture Discussion * Observational Visits</p>

Section A – Pathology

Placement : Second Year

Time : Theory – 45 hours

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

Unit	Time (Hrs)		Objectives	Content and Teaching Learning Methods
	Th.	Pr.		
I	3		<ul style="list-style-type: none"> • Define the common terms used in pathology • Appreciate the deviations from normal to abnormal structure and functions of the body system 	<ul style="list-style-type: none"> • Introduction <ul style="list-style-type: none"> □ Importance of the study of pathology □ Definition of terms □ Methods and techniques □ Cellular and Tissue changes □ Infiltration and regeneration □ Inflammations and Infections □ Wound healing □ Vascular changes • Cellular growth, Neoplasms <ul style="list-style-type: none"> □ Normal and Cancer cell □ Benign and Malignant growths □ In situ carcinoma • Disturbances of fluid and electrolyte imbalance <p><i>Teaching learning Activities</i></p> <ul style="list-style-type: none"> • Lecture Discussion • Explain using charts
II	10	5	<ul style="list-style-type: none"> • Explain Pathological changes in disease conditions of various systems 	<p>Special pathology</p> <ul style="list-style-type: none"> • Pathological changes in disease conditions of various systems: • Respiratory tract <ul style="list-style-type: none"> □ Tuberculosis, Bronchitis, Pleural effusion and pneumonia □ Lung abscess, emphysema, bronchiectasis □ Bronchial asthma, Chronic obstructive Pulmonary disease and tumours
				<ul style="list-style-type: none"> • Cardio-vascular system <ul style="list-style-type: none"> □ Pericardial effusion □ Rheumatic heart disease □ Infective endocarditis, atherosclerosis □ Ischemia, infarction & aneurysm

				<ul style="list-style-type: none"> • Gastro Intestinal Tract <ul style="list-style-type: none"> □ Peptic ulcer, typhoid □ Carcinoma of GI tract-buccal, Esophageal, □ Gastric & intestinal • Liver, Gall bladder & pancreas <ul style="list-style-type: none"> □ Hepatitis, Chronic liver abscess, cirrhosis □ Tumours of liver, gall bladder and pancreas, □ Cholecystitis • Kidneys & Urinary tract <ul style="list-style-type: none"> □ Glomerulonephritis, pyelonephritis □ Calculi, renal failure, renal carcinoma & cystitis • Male genital systems <ul style="list-style-type: none"> □ Cryptorchidism, testicular atrophy □ Prostatic hyperplasia, carcinoma Penis & prostate • Female genital system <ul style="list-style-type: none"> □ Fibroids □ Carcinoma cervix and Endometrium □ Vesicular mole, choriocarcinoma □ Ectopic gestation □ Ovarian cyst & tumours • Cancer Breast • Central Nervous system <ul style="list-style-type: none"> □ Hydrocephalus, Meningitis, encephalitis, □ Vascular disorders – thrombosis, embolism □ Stroke, paraplegia, quadriplegia □ Tumours, meningiomas-gliomas • Metastatic tumour • Skeletal system <ul style="list-style-type: none"> □ Bone healing, osteoporosis, osteomyelitis • Arthritis & tumours <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Explain using charts, slides, specimen, X-rays and scans • Visit to Pathology lab, endoscopy unit and OT
III	4	3	<ul style="list-style-type: none"> • Describe various laboratory tests in assessment and monitoring of disease conditions 	<p>Clinical pathology</p> <ul style="list-style-type: none"> • Various blood and bone marrow tests in assessment and monitoring of disease conditions <ul style="list-style-type: none"> □ Hemoglobin □ RBC, White cell & platelet counts □ Bleeding time, clotting time and prothrombine time □ Blood grouping and cross matching □ Blood chemistry

				<ul style="list-style-type: none"> ❑ Blood culture ❑ Serological and immunological tests ❑ Other blood tests ❑ Examination of Bone marrow ❑ Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values <p>Teaching learning Activities</p> <ul style="list-style-type: none"> ● Lecture Discussion ● Demonstration ● Visit to Clinical Pathology & Bio-Chemistry lab and Blood bank
IV	2	1	<ul style="list-style-type: none"> ● Describe the laboratory tests for examination of body cavity fluids, transudates and exudates 	<p>Examination of body cavity fluids, transudates and exudates</p> <ul style="list-style-type: none"> ● The laboratories tests used in CSF analysis ● Examination of other body cavity fluids, transudates and exudates –sputum, wound discharge etc ● Analysis of gastric and duodenal contents ● Analysis of semen-sperm count, motility and morphology and their importance in infertility ● Methods of collection of CSF and other cavity fluids specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values <p>Teaching learning Activities</p> <ul style="list-style-type: none"> ● Lecture Discussion ● Demonstration
V	1	1	<ul style="list-style-type: none"> ● Describe laboratory tests for examination of Urine and faeces 	<p>Urine and faeces</p> <ul style="list-style-type: none"> ● Urine ❑ Physical characteristics ❑ Analysis ❑ Culture and sensitivity ● Faeces ❑ Characteristics ❑ Stool examination : occult blood, ova, parasite and cyst, reducing substance etc. ● Methods of collection for various tests, inference and normal values <p>Teaching learning Activities</p> <ul style="list-style-type: none"> ● Lecture Discussion ● Demonstration

Section B – Genetics

Placement : Second Year

Time : Theory – 15 hours

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

Unit	Time (Hrs)	Objectives	Content and Teaching Learning Activities	Teaching Learning Activities
I	3	<ul style="list-style-type: none"> Explain nature, principles and perspectives of heredity 	<p>Introduction :</p> <ul style="list-style-type: none"> Practical application of genetics in Nursing Impact of genetic condition on families Review of cellular division mitosis and meiosis. Characteristics and structure of genes Chromosomes – sex determination Chromosomal aberrations <p>Patterns of inheritance</p> <ul style="list-style-type: none"> <input type="checkbox"/> Mendalian theory of inheritance <input type="checkbox"/> Multiple allots and blood groups <input type="checkbox"/> Sex linked inheritance <input type="checkbox"/> Mechanism of inheritance <input type="checkbox"/> Errors in transmission (Mutation) <p><i>Teaching learning Activities</i></p> <ul style="list-style-type: none"> Lecture Discussion Explain using charts, slides 	<ul style="list-style-type: none"> Lecture Discussion <ul style="list-style-type: none"> Explain using charts, slides
II	3	<ul style="list-style-type: none"> Explain Maternal, prenatal and genetic influences on development of defects and diseases 	<p>Maternal, prenatal and genetic influences on development of defects and diseases</p> <ul style="list-style-type: none"> Conditions affecting the mother : genetic and infections Consanguinity atopy Prenatal nutrition and food allergies Maternal Age 	<ul style="list-style-type: none"> Lecture Discussion <ul style="list-style-type: none"> Explain using charts, slides

			<ul style="list-style-type: none"> • Maternal drug therapy • Prenatal testing and diagnosis • Effect of Radiation, drugs and chemicals • Infertility • Spontaneous abortion • Neural Tube Defects and the role of folic acid in lowering the risks • Down syndrome (Trisomy 21) <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Explain using charts, slides 	
III	2	<ul style="list-style-type: none"> • Explain the screening methods for genetic defects and diseases in neonates and children 	<p>Genetic testing in the neonates and children</p> <ul style="list-style-type: none"> • Screening for <ul style="list-style-type: none"> □ Congenital abnormalities □ Developmental delay □ Dysmorphism <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Explain using charts, slides 	<ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, slides
IV	2	<ul style="list-style-type: none"> • Identify genetic disorders in adolescents and adults 	<p>Genetic conditions of adolescents and adults</p> <ul style="list-style-type: none"> • Cancer genetics – Familial Cancer • Inborn errors of metabolism • Blood group alleles and haematological disorder • Genetic haemochromatosis • Huntington’s disease • Mental illness <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Explain using charts, slides 	<ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, slides
V	5	<ul style="list-style-type: none"> • Describe the role of nurse in genetic services and counselling 	<p>Services related to Genetics</p> <ul style="list-style-type: none"> • Genetic testing • Human genome project • Gene therapy • The Eugenics movement • Genetic Counselling 	<ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, slides

			Legal and Ethical issues Role of nurse <i>Teaching learning Activities</i> <ul style="list-style-type: none">• Lecture Discussion• Explain using charts, slides	
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Scheme of University Examination:

- Theory

Pharmacology, Pathology and Genetics,

There shall be one paper of three hours duration carrying 100 marks for the subjects Pharmacology, Pathology and Genetics.

Section A shall be Pharmacology with 50 marks, Section B shall be Pathology with 35 marks and Genetics with 15 marks. The distribution of type of questions and marks shall be as follows:

Table 7(B): Distribution of Type of Questions and Marks for Pharmacology (50 marks)

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

Pathology and Genetics**Table 7 (C): Distribution of Type of Questions and Marks for Pathology (35 marks)**

Type of Questions	No. of Questions	Marks	Sub-total
Long Essay (LE)	-	-	
Short Essay (SE)	4	5	20
Short Answer (SA)	5	3	15
Total Marks			35

Table 7(D): Distribution of Type of Questions and Marks for Genetics (18 marks)

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

No practical examination.

Medical Surgical Nursing

(Adult including Geriatrics) – I

Placement : Second Year

Time : Theory – 210 hours

Practical – 720 hours

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

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Activities
I	15	<ul style="list-style-type: none"> • Appreciate the trends in medical and surgical nursing • Describe the role of nurse in caring for adult patient in hospital and community • Describe the concepts of medical surgical asepsis 	<p>Introduction :</p> <ul style="list-style-type: none"> • Introduction to medical surgical nursing – Evolution and trends of medical and surgical nursing • Review of Concepts of Health and illness Disease - concepts, causations, classification diseases (ICD -10 or later version), Acute illness Chronic illness & Terminal illness, stages of illness • Review of concepts of comprehensive nursing care in medical surgical conditions based on nursing process • Role of nurse, patient and family in care of adult patient • Role and responsibilities of a nurse in medical surgical settings : <ul style="list-style-type: none"> ❑ Outpatient department ❑ In-patient unit ❑ Intensive care unit ❑ Home and Community settings • Introduction to Medical Surgical asepsis <ul style="list-style-type: none"> ❑ Inflammation & Infection ❑ Immunity ❑ Wound healing • Care of Surgical Patient <ul style="list-style-type: none"> ❑ Pre-operative ❑ Intra operative ❑ Post operative <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Demonstration • Practice session • Supervised clinical practice

II	15	<ul style="list-style-type: none"> • Describe the common signs, symptoms, problems and their • Specific nursing interventions 	<p>Common signs and symptoms and management</p> <ul style="list-style-type: none"> • Fluid and electrolyte imbalance • Vomiting • Dyspnea and cough, respiratory obstruction • Fever • Shock • Unconsciousness, Syncope • Pain • Incontinence • Edema • Age related problems – geriatric <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Seminar • Case discussion
III	20	<ul style="list-style-type: none"> • Describe the etiology, pathophysiology clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of respiratory systems 	<p>Nursing management of patients (adults including elderly) with respiratory problems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of respiratory system, • Nursing Assessment –History and Physical assessment • Etiology, Pathophysiology clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of adults including elderly with – <ul style="list-style-type: none"> <input type="checkbox"/> Upper Respiratory tract infections <input type="checkbox"/> Bronchitis <input type="checkbox"/> Asthma <input type="checkbox"/> Emphysema <input type="checkbox"/> Empyema <input type="checkbox"/> Atelectasis <input type="checkbox"/> Chronic Obstructive Pulmonary Diseases (COPD) <input type="checkbox"/> Bronchiectasis <input type="checkbox"/> Pneumonia <input type="checkbox"/> Pulmonary tuberculosis <input type="checkbox"/> Lung abscess <input type="checkbox"/> Pleural effusion <input type="checkbox"/> Cysts and Tumours <input type="checkbox"/> Chest injuries <input type="checkbox"/> Respiratory arrest and insufficiency <input type="checkbox"/> Pulmonary embolism <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of respiratory disorders</p>

			<p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book/ presentation
IV	30	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of digestive systems 	<p>Nursing management of patient (adults including elderly) with disorders of digestive system</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of digestive system • Nursing Assessment –History and physical assessment • Etiology, Pathophysiology clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management • Disorders of <ul style="list-style-type: none"> □ Oral cavity – lips, gums, tongue, salivary glands and teeth □ Oesophagus-inflammation stricture, obstruction, bleeding and tumours □ Stomach and deudenum-hiatus hernia, gastritis, peptic and deudenal ulcer, bleeding, tumours, pyloric stenosis □ Small intestinal disorders- inflammation & infection, entritis, malabsorption, obstruction, tumour and perforation □ Large intestinal disorders-Colitis, inflammation and infection, obstruction and tumour and lump □ Hernias □ Appendix – inflammation, mass, abscess, rupture □ Anal & Rectum ; hemorrhoides, fissures, Fistulas □ Peritonitis/acute abdomen □ Pancreas; inflammation, cyst, abscess and tumours □ Liver; inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours □ Gall Bladder; inflammation, obstruction, stones and tumours <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of digestive system</p> <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion

			<ul style="list-style-type: none"> • Explain using charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book/ presentation • Assessment of skills with check list • Assessment of patient management problem
V	30	<ul style="list-style-type: none"> • Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with blood and cardiovascular problems • Describe the vascular conditions and its nursing management 	<p>Nursing management of patient (adults including elderly) with blood and cardiovascular problems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of blood and cardiovascular system, • Nursing Assessment –History and Physical assessment • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities & medical, surgical, dietetics & nursing management of – • Vascular system <ul style="list-style-type: none"> □ Hypertension, Hypotension □ Arteriosclerosis □ Raynaud’s disease □ Aneurism and Peripheral vascular disorders Heart <ul style="list-style-type: none"> • Coronary artery diseases <ul style="list-style-type: none"> □ Ischemic Heart Disease □ Coronary atherosclerosis □ Angina pectoris □ Myocardial infarction • Valvular disorders of the heart <ul style="list-style-type: none"> □ Congenital and acquired □ Rheumatic Heart diseases • Endocarditis, Pericarditis Myocarditis • 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"> □ Anaemias □ Polycythemia □ Bleeding disorders; clotting factor defects and platelets

			<p>defects</p> <ul style="list-style-type: none"> ❑ Thalassemia ❑ Leukaemias ❑ Leukopenias and agranulocytosis ❑ Lymphomas ❑ Myelomas • Special therapies ❑ Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion. ❑ Management & counseling of blood donors, phlebotomy procedure, & post donation management Blood bank functioning & hospital transfusion committee. Bio-safety and waste management in relation to blood transfusion ❑ Role of a nurse in Organ donation, retrieval and banking <p>Alternative therapies Nursing procedures Drugs used in treatment of blood and cardio vascular disorders</p> <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book/ presentation • Visit to blood bank • Participation in blood donation camps • Counselling • Assessment of skills with check list • Assessment of patient management problem
VI	10	<ul style="list-style-type: none"> • Describe the etiology, pathophysiology, clinical manifestations, diagnostic 	<p>Nursing management of patient (adults including elderly) with genito-urinary problems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of genito-urinary system • Nursing Assessment –History and Physical assessment • Etiology, Pathophysiology clinical manifestations, diagnosis, treatment modalities & medical, surgical, dietetics and nursing management of –

		<p>measures and management of patients (adults including elderly) with disorders of genito-urinary system</p>	<ul style="list-style-type: none"> • Nephritis • Nephrotic syndrome • Nephrosis • Renal calculus • Tumours • Acute renal failure • Chronic renal failure • End stage renal disease • Dialysis, renal transport • Congenital disorders, urinary infections • Benign prostate hypertrophy • Disorders of ureter, urinary bladder and urethra-inflammation, infection, stricture.obstruction, tumour, prostate Special therapies, alternative therapies <p>Nursing procedures Drugs used in treatment of genito-urinary disorders</p> <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book/ presentation
VII	5	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of male reproductive 	<p>Nursing management of disorders of male (adults including elderly) reproductive system</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of male reproductive system • Nursing Assessment -History and physical assessment • Etiology,Pathophysiology, clinical manifestations, diagnosis, treatment modalities & medical, surgical, dietetics & nursing management of disorders of male reproductive system • Congenital malformations; cryptorchidism • Hypospadiasis, Epispadiasis • Infections • Testis and adjacent structures • Penis • Prostate: inflammation, infection, hypertrophy, tumour • Sexual Dysfunction

		<p>system</p> <ul style="list-style-type: none"> • Infertility • Contraception • Breast ; gynecomastia, tumour • Climacteric changes <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of male reproductive system</p> <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book/ presentation 	
VIII	10	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of endocrine system 	<p>Nursing management of patient (adults including elderly) with disorders of endocrine system</p> <ul style="list-style-type: none"> • Review of anatomy and physiology endocrine system • Nursing Assessment -History and Physical assessment • Etiology,Pathophysiology, clinical manifestations, diagnosis, treatment modalities & medical, surgical, dietetics & nursing management of – <ul style="list-style-type: none"> □ Disorders of Thyroid and Parathyroid □ Diabetes mellitus □ Diabetes insipidus □ Adrenal tumour □ Pituitary disorders <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of endocrine system</p> <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice

			<ul style="list-style-type: none"> • Drug book/ presentation • Assess-ment of skills with check list <p>Assess-ment of patient manage-ment problem</p>
IX	10	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology clinical manifesta-tions, diagnostic measures and mana-gement of patients (adults including elderly) with disorders of skin 	<p>Nursing management of patient (adults including elderly) with disorders of Integumentary system</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of Skin and its appendages • Nursing Assessment -History and Physical assessment • Etiology,Pathophysiology, clinical manifestations, diagnosis, treatment modalities & medical, surgical, dietetics & nursing management of disorders of skin and its appendages <ul style="list-style-type: none"> <input type="checkbox"/> Lesions and abrasions <input type="checkbox"/> Infection and infestations; Dermatitis <input type="checkbox"/> Dermatoses ; infectious and Non infectious “inflammatory dermatoses” <input type="checkbox"/> Acne Vulgaris <input type="checkbox"/> Allergies and Eczema <input type="checkbox"/> Psoriasis <input type="checkbox"/> Malignant melanoma <input type="checkbox"/> Alopecia <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of Integumentary system</p> <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book/ presentation • Assess-ment of skills with check list <p>Assess-ment of patient manage-ment problem</p>
X	15	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology clinical 	<p>Nursing management of patient (adults including elderly) with musculo-skeletal problems</p> <ul style="list-style-type: none"> • Review of anatomy and physiology of musculo-skeletal system • Nursing Assessment -History and Physical assessment

		<p>manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of musculo – skeletal system</p>	<ul style="list-style-type: none"> ● Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities & medical, surgical, dietetics & nursing management of – ● Disorders 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 □ Spinal column – defects & deformities, Tumor, Prolapsed inter vertebral disc, pott’s spine □ Paget’s disease ● Amputation ● Prosthesis ● Transplant & replacement surgeries ● Rehabilitation <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of musculoskeletal system</p> <p>Teaching learning Activities</p> <ul style="list-style-type: none"> ● Lecture Discussion <ul style="list-style-type: none"> ● Explain using charts, graphs ● Models, films, slides ● Demonstration ● Practice session ● Case discussions/ Seminar ● Health education ● Supervised clinical practice ● Drug book/ presentation ● Assess-ment of skills with check List ● Assess-ment of patient manage-ment problem
XI	10	<ul style="list-style-type: none"> ● Describe the etiology, patho-physiology clinical manifestations, diagnostic measures and management 	<p>Nursing management of patient (adults including elderly) with Immunological problems</p> <ul style="list-style-type: none"> ● Review of Immune system ● Nursing Assessment -History and Physical assessment ● Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities & medical, surgical, dietetics & nursing management of – ● Immunodeficiency disorder ● Primary immuno deficiency ● Phagocytic dysfunction

		<p>of patients (adults including elderly) with disorders of musculo – skeletal system</p>	<ul style="list-style-type: none"> • B-cell and T-cell deficiencies • Secondary immuno-deficiencies • Acquired immuno-deficiency syndrome (AIDS) <ul style="list-style-type: none"> ○ 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 Nursing procedures Drugs used in treatment of disorders of immunological system</p> <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book/ presentation • Orientation visit to Hospital Control system • Assessment of skills with check list • Assessment of patient management problem
XII	20	<ul style="list-style-type: none"> • Describe the etiology, patho-physiology clinical manifestations, diagnostic measures and management of patients (adults including 	<p>Nursing management of patient (adults including elderly) with Communicable Diseases</p> <ul style="list-style-type: none"> • Overview of infectious disease, the infectious process • Nursing Assessment -History and Physical assessment • Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention and dietetics. Control and eradication of common Communicable Diseases- <ul style="list-style-type: none"> <input type="checkbox"/> Tuberculosis <input type="checkbox"/> Diarrhoeal diseases <input type="checkbox"/> Hepatitis A- E <input type="checkbox"/> Herpes <input type="checkbox"/> Chickenpox

		<p>elderly) with Communicable Diseases</p>	<ul style="list-style-type: none"> ❑ Smallpox ❑ Typhoid ❑ Meningitis ❑ Gas gangrene ❑ Leprosy ❑ Dengue ❑ Plague ❑ Malaria ❑ Diphtheria ❑ Pertussis ❑ Poliomyelitis ❑ Measles ❑ Mumps ❑ Influenza ❑ Tetanus ❑ Yellow fever ❑ Filariasis ❑ HIV, AIDS • Reproductive Tract Infections • Special Infection control measures : Notification, Isolation, Quarantine, Immunization, Infectious Disease Hospitals <p>Special therapies, alternative therapies Nursing procedures Drugs used in treatment of Communicable diseases</p> <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, graphs • Models, films, slides • Demonstration • Practice session • Case discussions/ Seminar • Health education • Supervised clinical practice • Drug book/ presentation • Assessment of skills with check list • Assessment of patient management problem
XIII	25	<ul style="list-style-type: none"> • Describe the Organisation and physical set up of operation theatre 	<p>Peri operative nursing:</p> <ul style="list-style-type: none"> • Organisation and Physical set up of the Operation Theatre (OT) : ❑ Classifications ❑ O.T. DESIGN ❑ Staffing ❑ Members of the OT team

		<ul style="list-style-type: none"> • Identify the various instruments and equipments used for common surgical procedures • Describe the infection control measures in the operation theatre • Describe the role of the nurse in the Peri Operative nursing care 	<ul style="list-style-type: none"> □ Duties and responsibilities of nurse in O.T. □ Principles of Health and operating room attire □ Instruments, □ Sutures & suture materials □ Equipments □ O.T. tables and sets for common surgical procedures □ Positions and draping for common surgical procedures □ Scrubbing procedures □ Gowning and gloving □ Preparation of O.T. Sets □ Monitoring the patient during surgical procedures • Maintenance of therapeutic environment in O.T • Standard Safety measures □ Infection control ; fumigation, disinfection and sterilisation □ Biomedical waste management □ Prevention of accidents and hazards in O.T. • Anaesthesia □ Types □ Methods of administration □ Effects and Stages □ Equipments □ Drugs • Cardio Pulmonary Resuscitation (CPR) • Pain management techniques • Legal Aspects <p><i>Teaching learning Activities</i></p> <ul style="list-style-type: none"> • Lecture Discussion <ul style="list-style-type: none"> • Explain using charts, graphs, Models, films, slides • Demonstration • Practice session • Supervised clinical practice • Drug book/ presentation • Assessment of skills with check list • Assessment of patient management problem
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Medical Surgical Nursing -I Practical

(Adult including Geriatrics)

Placement : Second Year

Time : 720 hours

Areas	Duration (in week)	Objectives	Skills	Assignments	Assessment Methods
General Medical Ward (*Respiratory, GI,Endo-crine, Renal, Hematology)	6	<ul style="list-style-type: none"> • Provide nursing care to adult patients with medical disorders • Counsel and educate patients and families 	<ul style="list-style-type: none"> • Assessment of the patient <ul style="list-style-type: none"> □ Taking history □ Perform general and specific physical examination □ Identify alterations and deviations • Practice medical surgical asepsis-standard safety measures • Administer medications <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 specimens for common investigations • Maintain elimination <ul style="list-style-type: none"> □ Catheterisation □ Bowel wash 	<ul style="list-style-type: none"> • Plan and give care to 3 - 4 assigned patients • Nursing care plan- 2 • Nursing case study/ presentation – 1 • Drug presentation- 1 • Maintain drug book • Maintain Practical record book 	<ul style="list-style-type: none"> • Assess performance with rating scale • Assess each skill with checklist • Evaluation of case study/presentation • Completion of practical record

			<ul style="list-style-type: none"> ❑ Enema ❑ Urinary drainage • Maintain Intake, output and documentation • Counsel and teach related to specific disease conditions 		
General Surgical Ward (GI, Urinary, CTVS)	6	<ul style="list-style-type: none"> • Provide pre and post operative nursing care to adult patients with surgical disorders • Counsel and educate patients and families 	<ul style="list-style-type: none"> • Practice medical surgical asepsis-standard safety measures • Pre operative preparation of patients • Post operative care- Receiving pt, assess – ment, monitoring care • Care of wounds and drainage • Suture removal • Ambulation and exercise • Naso gastric aspiration • Care of chest drainage • Ostomy care ❑ Gastrostomy ❑ Colostomy • Blood & component therapy • Practice universal precautions 	<ul style="list-style-type: none"> • Plan and give care to 3 - 4 assigned patients • Nursing care plan- 2 • Nursing case study/ presentation – 1 • Maintain drug book 	<ul style="list-style-type: none"> • Assess performance with rating scale • Assess each skill with checklist • Evaluation of case study/presentation • Completion of activity record
Cardiology ward	2	<ul style="list-style-type: none"> • Provide nursing care to patients with cardiac disorders • Counsel and educate patients and families 	<ul style="list-style-type: none"> • Physical examination of cardio vascular system Recording and interpreting ECG • Monitoring of patients • Preparation and assisting in non-invasive and invasive diagnostic procedures • Administer cardiac drugs • Cardio pulmonary Resuscitation • Teach patients and families 	<ul style="list-style-type: none"> • Plan and give care to 2 - 3 assigned patients • Nursing care plan- 1 • Nursing case study/ presentation/Health talk – 1 	<ul style="list-style-type: none"> • Assess performance with rating scale • Assess each skill with checklist • Evaluation of case study/pr

			<ul style="list-style-type: none"> Practice medical and surgical asepsis – Standard safety measures 	<ul style="list-style-type: none"> Maintain drug book 	<ul style="list-style-type: none"> e-resentation/health talk Completion of activity record
Skin & Communicable diseases Ward	1	<ul style="list-style-type: none"> Identify skin problems Provide nursing care to patients with skin disorders & Communicable diseases Counsel and educate patients and families 	<ul style="list-style-type: none"> Assessment of patients with skin disorders Assist in diagnostic and therapeutic procedures Administer topical medication Practice medical surgical asepsis – Standard safety measures Use of personal protective equipment (PPE) Give medicated baths Counseling HIV positive patients Teach prevention of infectious diseases 	<ul style="list-style-type: none"> Plan and give care to 2 - 3 assigned patients Health talk /Counseling HIV positive patients and families – 1 Maintain drug book 	<ul style="list-style-type: none"> Assess performance with rating scale Evaluation on health talk /Counseling session Completion of activity record
Orthopaedic ward	2	<ul style="list-style-type: none"> Provide nursing care to patients with musculo -skeletal disorders Counsel and educate patients and families 	<ul style="list-style-type: none"> Assessment of orthopaedic patients Assist in application of plaster cast and removal of cast Apply skin traction-buck's extension traction Assist in application and removal of prosthesis Physiotherapy -Range of motion exercises (ROM), muscle strengthening exercises Crutch maneuvering technique Activities of daily 	<ul style="list-style-type: none"> Plan &give care to 2-3 assigned patients Nursing care plan- 1 Nursing case study/ presentation – 1 Maintain drug book 	<ul style="list-style-type: none"> Assess performance with rating scale Evaluation of nursing care plan & nursing case study /presentation Completion of activity record

			<ul style="list-style-type: none"> living Ambulation Teach and counsel patients & families 		
Operation Theatre	6	<ul style="list-style-type: none"> Identify instruments used in common operations Participate in Infection control practices in the Operation Theatre Set-up the table/trolleys for common operative procedures Assist in giving anesthesia Assist in the operative procedures Provide peri operative nursing care 	<ul style="list-style-type: none"> Scrubbing, gowning gloving Identify instruments suturing materials for common operations Disinfection, Carbonization, fumigation Preparation of instrument sets for common operations Sterilization of sharps and other instruments Prepare the OT table depending upon the operation Positioning and monitoring of patients Endotracheal intubation Assisting in minor and major operations Handling specimens Disposal of waste as per the guidelines 	<ul style="list-style-type: none"> Assist as a circulatory nurse in Major cases- 10 Minor cases – 5 Assist as a scrub nurse in Major cases- 10 Minor cases – 5 Maintain drug book 	<ul style="list-style-type: none"> Assess performance with rating scale Completion of activity record

Clinical Training

Time : 260 hours (9 weeks)

Areas	Duration (in week)	Objectives	Skills	Assignments	Assessment Methods
ICU, CCU, CARDIAC OT	2	<ul style="list-style-type: none"> To gain proficiency in ICU nursing Develop advance skill in special procedures used in critical care unit Identify 	<ul style="list-style-type: none"> Assist in arterial puncture for blood gas analysis Perform ECG and interpret accordingly. Conduct & analysis pulse oximetry Care with artificial airway 	<ul style="list-style-type: none"> Arterial puncture –5 Taking out ECG stripe – 5 Tracheal 	<ul style="list-style-type: none"> Record book Checking with supervisor

		<p>potential problems and provide accordingly</p> <ul style="list-style-type: none"> • Skill in setting and handling ventilator • Administer injection in infusion pump • Record accurately findings and medications • Develop IPR with family members • Acquaint with OT technique 	<ul style="list-style-type: none"> • Assist in endotra-cheal intubation • Setting up ventilator • Giving care in ventilator • Drug sheet • Observation of special procedure in OT. 	<p>suction-5</p> <ul style="list-style-type: none"> • For all assigned patients • Oxygen administration by CPAP mask and use Ambu bag. • Assessment for all assigned patients • Nursing care in ventilator • Drug sheet 	
Neuro ICU, ITU, OT	2	<ul style="list-style-type: none"> • Develop skill in neurological assessment • Give care to the pt with head injury and spinal injury • Care with chest surgery and cranial surgery 	<ul style="list-style-type: none"> • Assess neurological status • Implement care to head injury spinal injury patients • Drug sheet • Pre and postoperative care with neuro surgery patients 	<ul style="list-style-type: none"> • Assessment for all assigned patients • Nursing care plan-2 • Drug sheet 	<ul style="list-style-type: none"> • Record book • Observation checklist
Burns & plastic Reconstructive surgery	2	<ul style="list-style-type: none"> • Assess the severity of burns • Administer rehydration therapy • Observe reconstructive 	<ul style="list-style-type: none"> • Nursing care 		

		surgery			
OT Lapro – scopic Orthopaedi c Eye ENT	3	<ul style="list-style-type: none"> • Identify instruments • Assist in OT set up • Supervise sterilization • Assist in OT table lay out • Observe immediately after operation • Supervise infection control 		<ul style="list-style-type: none"> • Assist - 5 cases 	<ul style="list-style-type: none"> • Record book

Community Health Nursing – I

Placement : Second Year

Time : Theory – 90 hours

Practical – 135 hours

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

Unit	Time (Hrs)	Learning Objectives	Content and Teaching Learning Methods
I	2	<ul style="list-style-type: none"> • Describe concept and dimensions of health 	<p>Introduction</p> <ul style="list-style-type: none"> • Community health nursing • Definition, concept and dimensions of health • Promotion of health • Maintenance of health <p><i>Teaching learning Activities</i></p> <ul style="list-style-type: none"> • Lecture discussion
II	20	<ul style="list-style-type: none"> • Describe determinants of health 	<p>1. Determinants of health</p> <ul style="list-style-type: none"> • Eugenics • Environment : <ul style="list-style-type: none"> □ Physical : Air, light, Venti-lation, Water, Housing, Sanitation; disposal of waste, disposal of dead bodies, Forestation, Noise, Climate, Communication: infrastructure facilities and Linkages □ Acts regulating the environment: National Pollution control board □ Bacterial & viral: Agents, host carriers and immunity □ Arthropods and Rodents • Food hygiene: Production, Preservation, Purchase, Preparation, Consumption • Acts regulating food hygiene- Prevention of food adulteration act, drugs and cosmetic act • Socio-cultural <ul style="list-style-type: none"> □ Customs, taboos □ Marriage system □ Family structure □ Status of special groups; Females, Children, Elderly, challenged groups and Sick persons • Life Style

			<ul style="list-style-type: none"> • Hygiene • Physical activity □ Recreation and sleep □ Sexual life □ Spiritual life philosophy □ Self reliance □ Dietary pattern □ Education □ Occupation • Financial Management □ Income □ Budget □ Purchasing power □ Security <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs, Models, films, slides • Visits to water supply, sewage disposal, milk plants, slaughter house etc
III	10	<ul style="list-style-type: none"> • Describe concept, scope, uses methods and approaches of epidemiology 	<p>Epidemiology</p> <ul style="list-style-type: none"> • Definition, concept, aims, scope, uses and terminology used in epidemiology • Dynamics of disease transmission : epidemiological traid • Morbidity and mortality : measurements • Levels of prevention • Methods of epidemiology of □ Descriptive □ Analytical: Epidemic investigation □ Experimental <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs • Models, films, slides
IV	25	<ul style="list-style-type: none"> • Describe Epidemiology and nursing management of common Communicable diseases 	<p>Epidemiology and nursing management of common Communicable Diseases</p> <ul style="list-style-type: none"> • Respiratory infections □ Small Pox □ Chicken Pox □ Measles □ Influenza □ Rubella □ ARI's & Pneumonia

			<ul style="list-style-type: none"> <input type="checkbox"/> Mumps <input type="checkbox"/> Diphtheria <input type="checkbox"/> Whooping cough <input type="checkbox"/> Meningococcal meningitis <input type="checkbox"/> Tuberculosis <input type="checkbox"/> SARS • Intestinal Infections <input type="checkbox"/> Poliomyelitis <input type="checkbox"/> Viral Hepatitis <input type="checkbox"/> Cholera <input type="checkbox"/> Diarrhoeal diseases <input type="checkbox"/> Typhoid Fever <input type="checkbox"/> Food poisoning <input type="checkbox"/> Amoebiasis <input type="checkbox"/> Hook worm infection <input type="checkbox"/> Ascariasis <input type="checkbox"/> Dracunculiasis • Arthropod infections <input type="checkbox"/> Dengue <input type="checkbox"/> Malaria <input type="checkbox"/> Filariasis • Zoonoses 	
			<ul style="list-style-type: none"> <input type="checkbox"/> Rabies <input type="checkbox"/> Yellow fever <input type="checkbox"/> Japanese encephalitis <input type="checkbox"/> Kyasnur Forest Disease • Bacterial <input type="checkbox"/> Brucellosis <input type="checkbox"/> Plague <input type="checkbox"/> Human Salmonellosis <input type="checkbox"/> Anthrax <input type="checkbox"/> Leptospirosis • Rickettsial diseases <input type="checkbox"/> Rickettsial Zoonoses <input type="checkbox"/> Scrub typhus <input type="checkbox"/> Murine typhus <input type="checkbox"/> Tick typhus <input type="checkbox"/> Q fever • Parasitic zoonoses <input type="checkbox"/> Taeniasis <input type="checkbox"/> Hydatid disease <input type="checkbox"/> Leishmaniasis • Surface infection <input type="checkbox"/> Trachoma <input type="checkbox"/> Tetanus 	Viral

			<ul style="list-style-type: none"> ❑ Leprosy ❑ STD & RTI ❑ Yaws ❑ HIV/AIDS <p>Any other</p> <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs • Models, films, slides • Seminar • Supervised field practice - health centers, clinics and homes • Group projects/ Health education
V	10	<ul style="list-style-type: none"> • Describe Epidemiology and nursing management of common Non- communicable diseases 	<p>Epidemiology and nursing management of Non - communicable diseases</p> <ul style="list-style-type: none"> • Malnutrition: under nutrition, over nutrition, nutritional deficiencies • Anaemia • Hypertension • Stroke • Rheumatic Heart Disease • Coronary Heart Disease • Cancer • Diabetes mellitus • Blindness • Accidents • Mental illness • Obesity • Iodine deficiency • Fluorosis • Epilepsy <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture discussion • Explain using Charts, graphs • Models, films, slides • Seminar • Supervised field practice - health centers, clinics and homes • Group projects/ Health education
VI	6	<ul style="list-style-type: none"> • Describe the concepts & scope of Demography 	<p>2. Demography</p> <ul style="list-style-type: none"> • Definition, concept and scope • Methods of collection, analysis & interpretation of

		<ul style="list-style-type: none"> Describe methods of data collection, analysis & interpretation of demographic data 	<p>demographic data</p> <ul style="list-style-type: none"> Demographic rates and ratios <p>Teaching learning Activities</p> <ul style="list-style-type: none"> Lecture discussion Community identification survey Assessment of survey report
VII	17	<ul style="list-style-type: none"> Identify the impact of population explosion in India Describe methods of population control 	<p>Population and its control</p> <ul style="list-style-type: none"> Population explosion and its impact on social, economic development of individual, society and country Population control : <ul style="list-style-type: none"> Overall development: Women empowerment, social, economic and educational development Limiting 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 <p>Teaching learning Activities</p> <ul style="list-style-type: none"> Lecture discussion Population survey Counseling Demonstration Practice session Supervised field practice Assessment of survey report

Community Health Nursing I – Practical

Placement : Second Year

Time : Practical – 135 hours

Areas	Duration (in week)	Objectives	Skills	Assignments	Assessment methods
Community health nursing	2 wks urban and 2 wks rural	<ul style="list-style-type: none"> • Build and Maintain rapport • Identify demogra-phic characteristics, health deter - minants & community health resources • Diagnose health needs of individual and families • Provide primary care in health centre • Counsel & educate individual, family & community 	<ul style="list-style-type: none"> • Use techniques of inter-personal relationship • Identification of health determinants of community • History taking • Physical examination • Collect specimens- sputum, malaria smear • Perform simple lab tests at centre - blood for Haemoglobin and sugar, urine for albumin and sugar • Administer vaccines and medications to adults • Counsel and teach individual, family and community <input type="checkbox"/> Nutrition <input type="checkbox"/> Hygiene <input type="checkbox"/> Self health monitoring <input type="checkbox"/> Seeking health services <input type="checkbox"/> Healthy life style <input type="checkbox"/> Family welfare methods <input type="checkbox"/> Health promotion 	<ul style="list-style-type: none"> • To work with 2 assigned families each in urban & rural • Family study –1 • Observa- tion report of comm- unity – 1 • Health talks 2 (1 in urban & in rural) 	<ul style="list-style-type: none"> • Assess clinical per- formance with rating scale • Assess each skill with checklist • Evaluation of family study, observation report and health talk • Completion of activity record

Communication & Educational Technology

Placement : Second Year

Time : Theory – 90 hours

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

Unit	Time		Learning Objectives	Content and Teaching Learning Activities
	Th.	Pr.		
I	5		<ul style="list-style-type: none"> Describe the communication process Identify techniques of effective communication 	<p>Review of Communication Process</p> <ul style="list-style-type: none"> Process; elements and channels Facilitators Barriers and methods of overcoming Techniques <p><i>Teaching learning Activities</i></p> <ul style="list-style-type: none"> Lecture Discussion Role plays Exercises with audio/video tapes Respond to critical incidents
II	5		<ul style="list-style-type: none"> Establish effective interpersonal relations with patients families & co-workers 	<p>Interpersonal relations</p> <ul style="list-style-type: none"> Purpose & types Phases Barriers & methods of overcoming Johari Window <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> Lecture Discussion Role plays Exercises with audio/video tapes Process recording
III	5		<ul style="list-style-type: none"> Develop effective human relations in context of nursing 	<p>Human relations</p> <ul style="list-style-type: none"> Understanding self Social behaviour, motivation, social attitudes Individual and groups Groups & individual Human relations in context of nursing Group dynamics Team work

				<p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Sociometry • Group games • Psychometric exercises followed by discussion • Respond to critical incidents
IV	10	5	<ul style="list-style-type: none"> • Develop basic skill of counselling and guidance 	<p>Guidance & counselling</p> <ul style="list-style-type: none"> • Definition • Purpose, scope & need • Basic principles • Organization of counselling services • Types of counselling approaches • Role and preparation of counselor • Issues for counseling in nursing: students and practitioners • Counselling process – steps & techniques, tools of counselor • Managing disciplinary problems • Management of crisis & referral <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Role play on counselling in different situations followed by discussion • Assess performance in role play situations
V	5		<ul style="list-style-type: none"> • Describe the philosophy & principles of education • Explain the teaching learning process 	<p>Principles of education & teaching learning process</p> <ul style="list-style-type: none"> • Education: meaning, philosophy, aims, functions & Principles • Nature and characteristics of learning, • Principles and maxims of teaching, <p>Formulating objectives: general and specific</p> <ul style="list-style-type: none"> • Lesson planning • Classroom management <p><i>Teaching learning Activities</i></p> <ul style="list-style-type: none"> • Lecture Discussion • Prepare lesson plan • Micro teaching • Exercise on writing objectives • Assess lesson plans & teaching sessions

VI	10	10	<ul style="list-style-type: none"> Demonstrate teaching skill using various teaching methods in clinical, classroom & community settings 	<p>Methods of teaching</p> <ul style="list-style-type: none"> Lecture, demonstration, group discussion, seminar symposium, panel discussion, role play, project, field trip, workshop, exhibition, programmed instruction, computer assisted learning, micro teaching problem based learning, Self instructional module and simulation etc. Clinical teaching methods : case method, nursing round & reports, bedside clinic, conference (individual & group) process recording <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> Lecture Discussion Conduct 5 teaching sessions using different methods & media Assess teaching sessions
VII	10	8	<ul style="list-style-type: none"> Prepare and use different types of educational media effectively 	<p>Educational media</p> <ul style="list-style-type: none"> Purposes & types of A.V. Aids, principles and sources etc. Graphic aids: chalk board, chart, graph, poster, flash cards, flannel graph, bulletin, cartoon Three dimensional aids : objects, specimens, models, puppets Printed aids: pamphlets & leaflets Projected aids : slides, overhead projector, films, TV, VCR/VCD, camera, microscope, LCD Audio aids : tape recorder public address system Computer <p>Teaching learning Activities</p> <ul style="list-style-type: none"> Lecture Discussion Demonstration Prepare different teaching aids- projected & non projected Assess the teaching aids prepared
VIII	5	7	<ul style="list-style-type: none"> Prepare different types of questions for assessment of knowledge, skills and attitudes 	<p>Assessment</p> <ul style="list-style-type: none"> Purpose & scope of evaluation & assessment Criteria for selection of assessment techniques and methods Assessment of knowledge : essay type questions, Short answer questions (SAQ), Multiple choice questions (MCQ) Assessment of skills : observation checklist, practical exam, Viva, Objective structured clinical examination (OSCE)

			<ul style="list-style-type: none"> • Assessment of Attitudes: Attitude scales <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Exercise on writing different types of assessment tools
IX	5	<ul style="list-style-type: none"> • Teach individuals, groups and communities about health with their active participation 	<p>Information, Education & communication for health (IEC)</p> <ul style="list-style-type: none"> • Health behaviour & health education • Planning for health education • Health education with individuals, groups & communities • Communicating health messages • Methods & media for communicating health messages • Using mass media • Assess the strategies used in practice teaching sessions and exercise sessions <p>Teaching learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Plan & conduct health education sessions for individuals, group & communities • Assess the planning & conduct of the educational session