



(Established under Galgotias University Uttar Pradesh Act No. 14 of 2011)

# **School of Nursing**

**(ANNUAL PROGRAM)**

## **Program: BSC NURSING**

Syllabus as approved by Indian nursing council. New Delhi

**Scheme:2019-2023**

Date of BoS:3<sup>rd</sup> June 2019

## Curriculum

1 <sup>st</sup> year									
Sl. No	Course Code	Name of the Course					Assessment Pattern		
			L	T	P	C	IA	MTE	ETE
1	BSCN1001	ANATOMY AND PHYSIOLOGY	4	0	0	4	15	5+5	75
2	BSCN1002	NUTRITION AND BIOCHEMISTRY	3	0	0	3	15	5+5	75
3	BSCN1003	NURSING FOUNDATIONS (THEORY)	9	0	7	16	15	5+5	75
4	BSCN1004	PSYCHOLOGY	2	0	0	2	15	5+5	75
5	BSCN1005	MICROBIOLOGY	2	0	0	2	15	5+5	75
6	BSCN1006	ENGLISH	2	0	0	2	-	-	50
7	BSCN1007	INTRODUCTION TO COMPUTERS	1	0	1	2	-	-	50
8	BSCN1008	NURSING FOUNDATIONS (PRACTICAL)	0	0	15	151	100	-	100
<b>Total</b>			<b>23</b>	<b>0</b>	<b>23</b>	<b>182</b>			
IInd year									
Sl No	Course Code	Name of the Course					Assessment Pattern		
			L	T	P	C	IA	MTE	ETE
1	BSCN2001	SOCIOLOGY THEORY	2	0	0	2	15	5+5	75
2	BSCN2002	PHARMACOLOGY, PATHOLOGY & GENETICS THEORY	3	0	0	3	15	5+5	75
3	BSCN2003	MEDICAL SURGICAL NURSING-I (THEORY)	7	0	0	7	15	5+5	75
4	BSCN2004	COMMUNITY HEALTH NURSIN-I (THEORY)	3	0	0	3	15	5+5	75
5	BSCN2005	COMMUNICATION & EDUCATION TECHNOLOGY THEORY	3	0	0	3	15	5+5	75
6	BSCN2006	MEDICAL SURGICAL NURSING-I (PRACTICAL)	0	0	4.5	12	100	-	100
7	BSCN2007	COMMUNITY HEALTH NURSIN-I (PRACTICAL)	0	0	3	3	-	-	-
<b>Total</b>			<b>18</b>	<b>0</b>	<b>7.5</b>	<b>33</b>			
IIIrd year									
Sl No	Course Code	Name of the Course					Assessment Pattern		
			L	T	P	C	IA	MTE	ETE
1	BSCN3001	MEDICAL SURGICAL NURSING-II (THEORY)	4	0	0	4	15	5+5	75
2	BSCN3002	CHILD HEALTH NURSING (THEORY)	3	0	0	3	15	5+5	75
3	BSCN3003	MENTAL HEALTH NURSING (THEORY)	3	0	0	3	15	5+5	75
4	BSCN3004	MIDWIFERY & OBSTETRICAL NURSING (THEORY)**	1.5	0	0	1.5	15	5+5	75
5	BSCN3005	NURSING RESEARCH & STATISTICS theory	1.5	0	0	1.5	15	5+5	75

6	BSCN3006	ENVIRONMENTAL STUDIES THEORY	1.5	0	0	1.5	15	5+5	75
7	BSCN3007	MEDICAL SURGICAL NURSING-II (PRACTICAL)	0	0	4.5	4.5	50	-	50
8	BSCN3008	CHILD HEALTH NURSING (PRACTICAL)	0	0	4.5	4.5	50	-	50
9	BSCN3009	MENTAL HEALTH NURSING (PRACTICAL)	0	0	4.5	4.5	50	-	50
10	BSCN3010	MIDWIFERY & OBSTETRICAL NURSING (PRACTICAL)**	0	0	3	3	-	-	-
<b>Total</b>			<b>18</b>	<b>0</b>	<b>10</b>	<b>23</b>			

**IVth year**

Sl No	Course Code	Name of the Course					Assessment Pattern		
			L	T	P	C	IA	MTE	ETE
1	BSCN4001	MIDWIFERY & OBSTETRICAL NURSING (THEORY)	1.5	0	0	15	5+5	75	75
2	BSCN4002	COMMUNITY HEALTH NURSING-II (THEORY)	3	0	0	15	5+5	75	75
3	BSCN4003	MANAGEMENT OF NURSING SERVICES & EDUCATION (THEORY)	2	0	1	15	5+5	75	75
4	BSCN4004	MIDWIFERY & OBSTETRICAL NURSING (PRACTICAL)	0	0	3	50	50	-	50
5	BSCN4005	COMMUNITY HEALTH NURSING-II (PRACTICAL)	0	0	2.5	50	50	-	50
6	BSCN4006	INTERNSHIP	0	0	19	100	-	-	-
<b>Total</b>			<b>6.5</b>	<b>0</b>	<b>25.5</b>	<b>245</b>			

## Detailed Syllabus

## BSC NURSING 1<sup>ST</sup> YEAR

<b>Name of The Course</b>	Anatomy & Physiology			
<b>Course Code</b>	BSCN1001			
<b>Prerequisite</b>	10+2 with PCB 55%			
<b>Corequisite</b>	Anatomy physiology lab with models, charts, log book, Group projects, Video film, Anatomy & Physiology Atlas.			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	4	0	0	4

### Course Objectives:

1. To enable students to acquire knowledge of normal structure of human body system
2. To enable students to acquire knowledge of normal functions of each body system
3. To identify any deviations from normal to abnormal
4. To apply knowledge of anatomy and physiology to treat disease conditions in hospital settings.

### Course Outcomes

<b>CO1</b>	Describe anatomical terminology, organization of human body, structure of cell & tissues and its implications in nursing.
<b>CO2</b>	Explain & demonstrate normal structure (Anatomy) of various human body systems.
<b>CO3</b>	Explain & demonstrate normal functions (physiology) of various human body systems
<b>CO4</b>	Identify and demonstrate the alteration in anatomical structures in diseases and practice of nursing.
<b>CO5</b>	Identify and demonstrate the alteration in physiological parameters in diseases and practice of nursing.

### Text Book (s)

1. Cohen – Memmler's Structure & Function of Human Body, 2009, LWW.
2. Waugh – Ross & Wilson Anatomy & Physiology, 2008, Elsevier.
3. Tortora – Anatomy & Physiology, 2007, Wiley

### Reference Book (s)

1. Chaurasia – Human Anatomy, 2005, CBS Publishers
2. Standring - Gray's Anatomy, 2006, Elsevier
3. Snell – Clinical Anatomy by Regions, WK.

### Course Content:

<b>Unit-1 Introduction to Anatomical terms organization of the human body and Cell Physiology</b>	<b>5 + 4 Hours</b>
<b>Anatomy</b>	
Human Cell structure. Tissues – Definition, Types, characteristics, classification, location, functions & formation. Membranes and glands – classification and structure	
<b>Physiology</b>	
Cell Physiology. Tissue formation, repair. Membranes & glands – functions	
Alterations in disease .Applications and implications in nursing	
<b>Unit-2 The Skeletal System</b>	<b>6+4 Hours</b>

<p><b>Anatomy</b> Bones – types, structure, Axial &amp; Appendicular Skeleton, Bone formation and growth, Description of bones, Joints classification and structure</p> <p><b>Physiology</b> Bone formation &amp; growth. Bones – Functions and movements of bones of axial and appendicular skeleton, bone healing, Joints and joint movement Alterations in disease. Applications and implications in nursing</p>	
<p><b>Unit-3 The Muscular System</b></p> <p><b>Anatomy</b> Types and structure of muscles, Muscle groups</p> <p><b>Physiology</b> Muscle movements, Muscle tone, Physiology of muscle contraction, levels and maintenance of posture , Alterations in disease, Applications and implications in nursing</p>	<b>7+4 Hours</b>
<p><b>Unit-4 The nervous System</b></p> <p><b>Anatomy</b> Structure of neurologia &amp; neurons, Somatic Nervous system, Structure of brain, spinal cord, cranial nerves, spinal nerves, peripheral nerves Autonomic Nervous System –Sympathetic, parasympathetic, Structure, location</p> <p><b>Physiology</b> Functions of Neurologia &amp; neurons, Stimulus &amp; nerve-impulse- definitions and mechanism, Functions of brain, spinal cord, cranial and spinal nerves Cerebrospinal fluid-composition, circulation and function Reflex arc, Reflex action and reflexes, Automatic functions –Pain: somatic, visceral and referred, Automatic learning and biofeedback Alterations in disease, Applications and implications in nursing</p>	<b>6+7 Hours</b>
<p><b>Unit-5 The Sensory Organs</b></p> <p><b>Anatomy</b> Structure of skin, eye, ear, nose tongue, (Auditory and olfactory apparatus)</p> <p><b>Physiology</b> Functions of skin, eye, ear, nose, tongue, Alterations in disease, Applications and implications in nursing</p>	<b>6+4 Hours</b>
<p><b>Unit -6 Circulatory and lymphatic system</b></p> <p><b>Anatomy</b> The Circulatory System: Blood – Microsoft structure, Structure of Heart, Structure of blood vessels- Arterial &amp; Venous System, Circulation: Systemic, pulmonary, coronary, Lymphatic System, Lymphatic vessels &amp; lymph, Lymphatic tissues: Thymus gland, Lymph nodes, Spleen, Lymphatic tissues</p> <p><b>Physiology</b> Blood formation, composition, blood groups, blood coagulation, Hemoglobin: Structure, Synthesis and breakdown, Variation of molecules, estimation, Functions of Heart, Conduction, Cardiac cycle, circulation-Principles, Control, factors influencing BP and Pulse, Alterations in disease, Applications and implications in nursing</p>	<b>7+8 Hours</b>
<p><b>Unit -7 The Respiratory System</b></p> <p><b>Anatomy</b> Structure of the organs of respiration, Muscles of respiration: Intercostals and Diap Hoursagm</p> <p><b>Physiology</b> Functions of respiratory organs, Physiology of respiration, Pulmonary ventilation, Volume</p>	<b>5+6 Hours</b>

, Mechanics of respiration, Gaseous exchange in lungs, Carriage of oxygen & carbon-dioxide, Exchange of gases in tissues, Regulation of respiration  
Alterations in disease, Applications and implications in nursing

**Unit – 8 The Digestive System** **6+6 Hours**

**Anatomy:** structure of Alimentary tract and accessory organs of digestion

**Physiology**

Functions of organs of digestive tract. Movements of alimentary tract, Digestion in mouth, stomach, small intestines, Large intestines, Absorption of food. Functions of liver, gall bladder and pancreas. Metabolism of carbohydrates, protein and fat.

**Unit – 9 The Excretory system (Urinary)** **4+5 Hours**

**Anatomy**

Structure of organs of urinary System: Kidney, Ureters, urinary, bladder, uret Housa, structure of skin.

**Physiology**

Functions of kidneys, ureters, urinary bladder & uret Housa. Composition of urine. Mechanism of urine formation. Functions of skin. Regulation of body temperature. Fluid and electrolyte balance

**Unit -10 The Endocrine system** **4+5 Hours**

**Anatomy**

Structure of Pituitary, Pancreas, thyroid, Parathyroid, thymus and adrenal glands

**Physiology**

Functions of Pituitary, pineal body, thymus, Thyroid, parathyroid, pancreas, Suprarenal, Placenta and ovaries & Testes

**Unit – 11 Reproductive System including breast** **4+5 Hours**

**Anatomy**

Structure of female reproductive organs, Structure of male reproductive organs, Structure of breast, Alterations in disease.

**Physiology**

Reproduction of cells – DNA, Mitosis, Meiosis, spermatogenesis, oogenesis. Functions of female reproductive organs; Functions breast, Female sexual cycle. Introduction to embryology. Functions of male reproductive organs, Male function in reproduction, Male fertility system. Alterations in disease. Applications and implications in nursing.

**Unit – 12 The Lymphatic and immunological system** **2 Hours**

Circulation of lymph. Immunity. Formation of T-cells and B cells. Types of Immune response. Antigens. Cytokines. Antibodies

**Continuous Assessment Pattern**

Internal Assessment (IA)	Mid Term Exam (MTE)	End Term Exam (ETE)	Total Marks
15	5+5	75	100

<b>Name of The Course</b>	<b>NUTRITION &amp; BIOCHEMISTRY</b>			
<b>Course Code</b>	<b>BSCN1002</b>			
<b>Prerequisite</b>	<b>10+2 with PCB 55%</b>			
<b>Corequisite</b>	<b>Nutrition &amp; Biochemistry lab, charts, log book, Group projects, Video film, Cooking, preservation of food</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	3	0	0	3

### Course Objectives:

1. To enable students to acquire knowledge of the classification, functions, sources and recommended daily allowances of food in health and disease conditions.
2. TO enable students to acquire knowledge in metabolism of Fat, Carbohydrates and Proteins.
3. Describe the classification, functions, sources and recommended daily allowances (RDA) of Fats, carbohydrates, proteins, and water. (N)
4. To assist the students to acquire knowledge of the normal biochemical composition and functioning of human body and understand the alterations in biochemistry in diseases for practice of nursing. (B)
5. To apply knowledge of nutrition and biochemistry to treat disease conditions in hospital settings.

### Course Outcomes

<b>CO1</b>	(N) Describe relationship between health and nutrition (B) Describe structure, composition and functions of cell and its membranes; differentiate between prokaryote and eukaryote cells.
<b>CO2</b>	(N) Describe classification, functions, sources and recommended daily allowances (RDA) of carbohydrates, fats, proteins, vitamins, minerals, water and electrolytes. (B) Explain the composition and metabolism of carbohydrates, lipids, amino acids and proteins, vitamins and minerals.
<b>CO3</b>	(N) Describe balanced diet, cookery rules and preservation of nutrients, plan and prepare therapeutics diets and balanced diet for different age groups and disease conditions. (B) Describe immunochemistry and role of nurse to correct the immune system of people.
<b>CO4</b>	((N) Describe the role of nurse in various National nutritional programs, assessment of nutritional status of vulnerable group and nutritional education.
<b>CO5</b>	(N) Identify and recognize any deviation/nutritional deficiencies in different age groups/sick individuals and take corrective measures.

### Text Book (s)

1. Nutrition and Biochemistry for Nurses ,2nd Edition Authors: Venkatraman S Hourseemathy Sucheta P Dandekar ,Paperback ISBN: 9788131235850 ,eBook ISBN: 9788131240205 Imprint: Elsevier Published Date: 20th May 2015
2. Text book of Biochemistry for Nurses , year: 2011

### Reference Book (s)

1. Medical Biochemistry for nurses as per INC, DR. SHWETA SINGH, Kumar publisher
2. Nutrition and health for nurses, by AK JAIN, Anchal publishing co
3. Biochemistry & Nutrition for B.Sc. Nursing, Textbook by Manjula Shantaram.



<b>Unit-1 Describe the relationship between nutrition &amp; Health (N)</b> <b>Introduction To Biochemistry (B)</b>	<b>4+3 Hours</b>
<p><b>Nutrition:</b> History, Concept, Role of nutrition in maintaining health, Nutritional problems in India, National nutritional policy, Factors affecting food and nutrition: socio-economic, cultural, tradition, production, system of distribution, life style and food habits etc. Role of food and its medicinal value, Classification of foods, Food standards, Elements of nutrition: macro and micro Calorie, BMR.</p> <p><b>Biochemistry:</b> Definition and significance in nursing, Review of structure, Composition and functions of cell Prokaryote and Eukaryote, cell organization, Microscopy.</p>	
<b>Unit-2 Carbohydrates(N)</b> <b>Cell membrane (B)</b>	<b>2+6 Hours</b>
<p><b>Nutrition:</b> Classification, Calorie Value, Recommended daily allowances, Dietary sources, Functions, Digestion, absorption and storage, metabolism of Carbohydrates.</p> <p><b>Biochemistry:</b> Structure and functions of Cell membrane: Fluid mosaic model tight junction, Cytoskeleton, Transport mechanism: diffusion osmosis, filtration, active channel, sodium pump, Acid base balance-maintenance &amp; diagnostic tests, Ph buffers.</p>	
<b>Unit-3 FATS (N)</b> <b>metabolism of Carbohydrates (B)</b>	<b>2 +6 Hours</b>
<p><b>Nutrition:</b> Fats: Classification, Caloric value, Recommended daily allowances, Dietary sources, Functions, Digestion absorption and storage, metabolism, Malnutrition: Deficiencies and over consumption.</p> <p><b>Biochemistry:</b> Composition and metabolism of Carbohydrates: Types, structure, composition and uses: Monosaccharide, Disaccharides, Polysaccharides Oligosaccharides, Metabolis: Pathways of glucose: Glycolysis, Gluconeogenesis: Cori's cycle, Tricarboxylic acid (TCA) cycle, Glycogenolysis: Pentose phosphate, Pathways (Hexose monophosphate) Regulation of blood glucose level, Investigations and their interpretation.</p>	
<b>Unit-4 Vitamins(N)</b> <b>metabolism of Lipids (B)</b>	<b>2+4 Hours</b>
<p><b>Nutrition:</b> Vitamins: Classification, Recommended daily allowances, Dietary sources, Functions Absorption, synthesis, metabolism storage and, excretion, Deficiencies, Hyperminosis.</p> <p><b>Biochemistry:</b> Composition and metabolism of Lipids (B): Nomenclature, Roles and Prostaglandins, Metabolism of fatty acid Breakdown, Synthesis, Metabolism of triacylglycerols, Cholesterol metabolism:, Biosynthesis and its Regulation Bile salts and bilirubin ,Vitamin D, Steroid hormones. Lipoproteins and their functions: VLDLs- IDLs, LDLs and HDLs Transport of lipids Atherosclerosis, Investigations and their interpretations</p>	
<b>Unit-5 Daily calorie requirement for different categories of people(N)</b> <b>Composition and metabolism of Amino acids and Proteins (B)</b>	<b>3+6 Hours</b>
<p><b>Nutrition:</b> Energy: Unit of Energy – Kcal Energy requirements of different categories of people, Measurements of energy ,Body Mass Index (BMI) and basic metabolism, Basal Metabolic Rate (BMR) - determination and factors affecting BMR.</p> <p><b>Biochemistry:</b> Composition and metabolism of Amino acids and Proteins, Types, structure, composition and uses of Amino acids and Proteins, Metabolism of Amino acids and Proteins ,Protein synthesis, targeting and Glycosylation , C Hoursomatography, Electrophoresis Sequencing, Metabolism of Nitrogen ,Fixation and Assimilation, Urea Cycle,</p>	

Hemes and chlorophylls, Enzymes and co-enzymes; Classification, Properties, Kinetics and inhibition, Control, Investigations and their interpretations.	
<b>Unit-6 Vitamins (N)</b> <b>Composition of Vitamins and minerals(B)</b>	<b>4+2 Hours</b>
<p><b>Nutrition:</b> Vitamins: Classification, Recommended daily allowance, Dietary sources, Functions: Absorption, synthesis, metabolism, storage and excretion, Deficiencies Hypervitaminosis.</p> <p><b>Biochemistry:</b> Composition of Vitamins and minerals, Vitamins and minerals: Structure, Classification, Properties, Absorption, Storage &amp; transportation, Normal Concentration, Investigations and their interpretation.</p>	
<b>Unit-7 Minerals ( N)</b>	<b>4+3 Hours</b>
<p><b>Nutrition:</b> Classification ,Recommended daily allowances, Dietary sources, Functions, Absorption, synthesis, metabolism storage and excretion, Deficiencies, Over consumption and toxicity</p> <p><b>Biochemistry:</b> Immune response, structure &amp; classification of Immunoglobulin's, Mechanism of antibody production, Antigens- HLA typing, Free radical &amp; antioxidants, Specialized proteins- collagen, elastin, keratin, myosin, lens protein, Electrophoretic &amp; quantitative determination of immunoglobulin's- ELISA. Etc., Investigations &amp; their interpretation.</p>	
<b>Unit-8 Sources, functions and requirements of water &amp; electrolytes (N)</b>	<b>3 Hours</b>
Water & electrolytes: Water: Daily requirement, regulation of water metabolism, and distribution of body water, Electrolytes: Types, sources, composition of body fluids, Maintenance of fluid & electrolyte balance, Over hydration, dehydration and water intoxication, electrolyte imbalances.	
<b>Unit-9 Cookery rules and preservation of nutrients (N)</b>	<b>5 Hours</b>
* Principles, methods of cooking and serving, ,Preservation of nutrients ,,Safe Food handling-toxicity, Storage of food, Food preservation, food additives and its principles, prevention of food adulteration Act (PFA), Food standards, Preparation of simple beverages and different types of food.	
<b>Unit-10 Balanced diet ((N)</b>	<b>7 Hours</b>
Balanced diet: Elements, Food groups, Recommended Daily allowance, Nutritive value of foods, Calculation of balanced diet for different categories of people, Planning menu, Budgeting of food, Introduction to therapeutic diets: Naturopathy – diet.	
<b>Unit-11 Role of nurse in nutritional programmes (N)</b>	<b>4 Hours</b>
National programmes related to nutrition: Vitamin A deficiency programme, National iodine deficiency disorders (IDD) programme, Mid-day meal programme, Integrated child development scheme (ICDS), National and International agencies working towards food/nutrition ,NIPCCD, CARE, FAO, NIN, CFTRI (Central food technology and research institute) etc., Assessment of nutritional status, Nutrition education and role of nurse	

### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTE)	End Term Exam (ETE)	Total Marks
15	5+5	75	100

<b>Name of The Course</b>	<b>Nursing Foundations</b>			
<b>Course Code</b>	<b>BSCN1003</b>			
<b>Prerequisite</b>	<b>10+2 PCB 55%</b>			
<b>Corequisite</b>	<b>Demonstration, Group projects, Video film, charts</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	9	0	7	16

### Course Objectives:

This course is designed to help the students to develop and 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, understandings and skills & techniques of nursing and practice them in supervised clinical settings

### COURSE OUTCOME

<b>CO1</b>	Describe the concept of health, illness and health care agencies
<b>CO2</b>	Explain the concept of nursing & scope of nursing profession and also describe values, code of ethics and professional contacts for nurses in India.
<b>CO3</b>	Demonstrate and perform various basic nursing procedures to provide safe and quality patient care by using nursing process and accurate documentation/ reporting
<b>CO4</b>	Develop effective communication.
<b>CO5</b>	Demonstrate, perform and document health assessment of each human body system.
<b>CO6</b>	Identify various machinery, equipments used in patient care and their maintenance.
<b>CO7</b>	Describe principle and technique for infection control measures and BMW management in clinical settings.
<b>CO8</b>	Describe principles, routes, effects of administration of medicine and injections.
<b>CO9</b>	Demonstrate peri operative patient care and surgical asepsis
<b>CO10</b>	Describe the basics physiological and psychological needs of patients. Demonstrate the principles and techniques for meeting needs of patients.
<b>CO11</b>	Explain and demonstrate the care of the terminally ill patient and dying patients

### Text Book (s)

1. Taylor – Fundamentals of Nursing, 2007, LWW
2. Kozier – Fundamentals of Nursing, 2007, Pearson
3. Potter – Basic Nursing, 2008, Elsevier

### Reference Book (s)

1. Lynn – Taylor's Clinical Nursing Skills, 2008, LWW
2. Craven – Fundamentals of Nursing, 2010, LWW
3. LWW – Lippincott's Nursing Procedure, 2008, LWW.
3. Jacob – Clinical Nursing Skills & Procedures, 2008, Jaypee

### Course Content:

<b>Unit-1 Introduction</b>	<b>10 Hours</b>
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<p>Concept of Health: Health – Illness continuum, Factors influencing health, Causes and risk factors for developing illness, Body defenses: Immunity and immunization, Illness and illness Behavior: Impact of illness on patient and family, Health Care Services: Health Promotion and prevention and Primary Care, Diagnosis, Treatment, Rehabilitation and Continuing Care, Health care teams, Types of health care agencies, Hospitals: Types, Organization Functions, Health Promotion and Levels of Disease Prevention, Primary health care and its delivery: Role of nurse.</p>	
<b>Unit-2 Nursing as a profession</b>	<b>16 Hours</b>
<p>Definition and Characteristics of a profession , Nursing: Definition, Concepts, philosophy, objectives, Characteristics, nature and scope of nursing practice, Functions of nurse ,Qualities of a nurse - Categories of nursing personnel, Nursing as a Profession, History of Nursing in India, Values: Definition, Types, Values, Clarification and values in professional Nursing: Caring and Advocacy Ethics: Definition and Ethical Principles, Code of ethics and professional conduct for nurses.</p>	
<b>Unit-3 Hospital admission and discharge</b>	<b>4 Hours</b>
<p>Admission to the hospital, Unit and its preparation admission bed, Admission procedure Special considerations, Medico-legal issues Roles and Responsibilities of the nurse, Discharge from the hospital - Types: Planned discharge, LAMA and abscond, Referrals and transfers, Discharge Planning, Discharge procedure, Special considerations, Medico--legal issues, Roles and Responsibilities of the nurse, Care of the unit after discharge.</p>	
<b>Unit-4 Communication &amp; Nurse patient relationship</b>	<b>10 Hours</b>
<p>Communication: Levels, Elements, Types, Modes, Process, Factors influencing Communication- Methods of Effective Communication,- Attending skills, Rapport building skills, Empathy skills, Barriers to effective communication, Helping Relationships (NPR): Dimensions of Helping Relationships, Phases of a helping relationship, • Communicating effectively with patient, families and team members and maintain effective human relations with special reference to communicating with vulnerable group(children, women, physically and mentally challenged and elderly) • Patient Teaching: Importance, Purposes, Process, role of nurse and Integrating teaching in nursing process.</p>	
<b>Unit-5 The Nursing Process</b>	<b>15 Hours</b>
<p>Critical Thinking and Nursing Judgment Critical Thinking: Thinking and Learning, o Competencies, Attitudes for Critical Thinking, Levels of critical thinking in Nursing • Nursing Process Overview: Application in Practice o Nursing process format: INC, current format o Assessment Collection of Data: Types, Sources, Methods - Formulating Nursing judgment: Data interpretation of Nursing diagnosis - Identification of client problems - Nursing diagnosis statement and Difference between medical and nursing diagnosis, o Planning, Implementation, Evaluation of patient care, Documentation &amp; reporting.</p>	
<b>UNIT-6 Documentation and Reporting</b>	<b>4 Hours</b>
<p>• Documentation: Purposes of Recording and reporting • Communication within the Health Care Team, • Types of records; ward records, medical/nursing records, • Common Record-keeping forms, Computerized documentation • Guidelines for Reporting: Factual Basis, Accuracy, Completeness, currentness, Organization, confidentiality • Methods of Recording,• Reporting: Change-of shift reports: Transfer reports, Incident reports • Minimizing legal Liability t Hoursough effective record keeping.</p>	
<b>UNIT-7 Vital Signs</b>	<b>15 Hours</b>
<p><b>Importance</b>, Guidelines for taking vital signs: Body temperature: Physiology, Regulation, Factors affecting body temperature, Assessment of body temperature: sites, equipments and technique, special considerations Temperature alterations: Heatstroke, Hypothermia Hot and cold applications , Pulse Physiology and Regulation, Characteristics of the pulse, Factors affecting pulse Assessment of pulse: sites, location, equipments and technique, special considerations, Alterations in pulse: Respiration: Physiology and Regulation, Mechanics of breathing, Characteristics of the respiration</p>	

Factors affecting respiration. Assessment of respirations: technique, special considerations, Alterations in respiration Blood pressure: Physiology and Regulation, Characteristics of the blood pressure, Factors affecting blood pressure Assessment of blood pressure: sites, equipments and technique, special considerations Alterations in blood pressure, Recording of vital signs.	
<b>UNIT-8 Health Assessment</b>	<b>30 Hours</b>
Purposes, Process of Health assessment- Health history, Physical examination: Methods- inspection, Palpation, Percussion, Auscultation, Olfaction. General assessment , Assessment of each body System Recording of health assessment.	
<b>UNIT-9 Machinery, equipments &amp; linen</b>	<b>5 Hours</b>
Types: Disposables and re-usable- Linen, rubber goods, glass ware, metal, plastics, furniture, machinery Introduction: - Indent - Maintenance – Inventory.	
<b>UNIT-10 Meeting needs of patient</b>	<b>60 Hours</b>
Basic needs (Activities of daily living) Providing safe and clean environment: - Physical -environment: Temperature, Humidity, Noise, Ventilation, light, Odour, pests control - Reduction of Physical hazards: fire, accidents - Safety devices: Restraints, side rails, airways, trapez etc - Role of nurse in providing safe and clean environment Hygiene: - - Factors Influencing Hygienic Practice - Hygienic care: Care of the Skin-Bath and pressure points, feet and nail, Oral cavity, Hair Care, Eyes, Ears, and Nose • Assessment, Principles, Types, Equipments, Procedure, Special Considerations - Patient environment: Room Equipment and linen, • Making patient beds Types of beds and bed making Comfort: - - Factors Influencing Comfort - Comfort devices Physiological needs: -Sleep and Rest: - Physiology of sleep - Factors affecting sleep - Promoting Rest and sleep, Sleep Disorders Nutrition: - - Importance - Factors affecting nutritional - Assessment of nutritional needs: Variables - Meeting Nutritional needs: Principles, equipments, procedure and special considerations -Oral - Enteral: Naso/ Orogastric, gastrostomy - Parenteral: - Urinary Elimination - Review of Physiology of Urine Elimination, Composition and characteristics of urine Factors Influencing Urination Alteration in Urinary Elimination Types and Collection of urine specimen: Observation, urine testing Facilitating urine elimination: assessment, types, equipments, procedures and special considerations - Providing urinal / bed pan o Condom drainage o Perineal care o Catheterization o Care of urinary drainage o Care of urinary diversions o Bladder irrigation f Bowel Elimination - Review of Physiology of Bowel Elimination, Composition and characteristics of faeces - Factors affecting Bowel elimination - Alteration in Bowel Elimination - Types and Collection of specimen of faeces: Observation - Facilitating bowel elimination: assessment, equipments, procedures and special considerations Passing of Flatus tube Enemas Suppository Sitz bath Bowel wash Care of Ostomies Mobility and Immobility - Principles of Body Mechanics - Maintenance of normal body dignment and mobility - Factors affecting body Alignment and mobility - Hazards associated with immobility - Alteration in body Alignment and mobility - Nursing interventions for impaired Body Alignment and Mobility: assessment, types, devices used, method and special considerations, rehabilitation aspects Range of motion exercises o Maintaining body alignment: Positions Moving Lifting Transferring Walking Restraints - Oxygenation - Review of Cardiovascular and respiratory Physiology - Factors Affecting Oxygenation - Alterations in oxygenation - Nursing interventions in oxygenation: assessment, types, equipment used, procedure and special considerations Maintenance of patent airway Oxygen administration Suction Inhalations: dry and moist Chest physiotherapy and postural drainage .Care of Chest drainage Pulse oxirnetry CPR- Basic life support Fluid, Electrolyte, and Acid — Base Balances - Review of Physiological Regulation of Fluid, Electrolyte, and Acid -Base Balances - Factors Affecting Fluid, Electrolyte, and Acid - Base Balances - Alterations in Fluid, Electrolyte, and Acid - Base Balances Nursing interventions in Fluid, Electrolyte, and Acid - Base imbalances: assessment, types, equipment, procedure and special considerations o Measuring fluid intake and output Correcting Fluid, Electrolyte Imbalance: Replacement of fluids: Oral and Parenteral Venipuncture, regulating IV Flow rates, changing IV solutions and tubing, Changing IV dressing, Administering Blood transfusion Restriction of fluids Psychosocial Needs Concepts of Cultural Diversity, Stress and Adaptation, Self-concept, Sexuality, Spiritual Health, Coping with loss, death and grieving Assessment of psychosocial needs - Nursing intervention for psychosocial needs - Assist with coping and adaptation - Creating therapeutic environment o Recreational and diversional therapies.	
<b>UNIT-11 Infection control in clinical settings</b>	<b>20 Hours</b>

Infection control Nature of infection Chain of infection transmission Defenses against infection: natural and acquired Hospital acquired infection (Nosocomial infection) • Concept of asepsis: medical asepsis, and surgical asepsis Isolation precautions (Barrier nursing): - Hand washing: simple, hand antisepsis and surgical antisepsis (scrub) - Isolation: source and protective - Personal protecting equipments: types, uses and technique of wearing and removing - Decontamination of equipment and unit - Transportation of infected patients - Standard safety precautions (Universal precautions) - Transmission based precautions • Biomedical waste management: - Importance - Types of hospital waste - Hazards associated with hospital waste - Decontamination of hospital waste - Segregation and Transportation and disposal of hospital waste.

**UNIT-12 Administration of medication**

**40 Hours**

General principles, consideration, purposes of medication, rights of the patients. Safety in administering medication. Medications and Medication Errors; Drug Forms; Routes of administration Storage and maintenance of drug, Broad classification of drugs:- Therapeutic Effect, Side Effects, Toxic Effects, Idiosyncratic Reactions, Allergic Reactions, Drug Tolerance, Drug Interactions,  
 - Factors Influencing drug Actions, - Systems of Drug Measurement: Metric System, Apothecary System, Household Measurements, Solutions. Converting Measurements Units: Conversion within one system, Conversion between systems, Dosage Calculation, Terminologies and abbreviations used in prescriptions of medications Oral Drugs Administration: Oral Sub-lingual and Buccal: Equipment, procedure, Parenteral- General principles: decontamination and disposal of syringes and needles  
 Types of parenteral therapies, Types of syringes, needles, canula, and infusion sets, Protection from Needle stick Injuries : Giving Medications with a safety syringes, Routes of parenteral therapies  
 Intra-dermal: purpose, site, equipment, procedure, special considerations, Subcutaneous: purpose, site, equipment, procedure, special considerations, Intramuscular: purpose, site, equipment, procedure, special considerations, Intra Venous: purpose, site, equipment, procedure, special considerations and Nurses responsibility.- Advanced techniques: epidural, intra-thecal, intra-osseous, intra-peritoneal, intra-plural, intra-arterial-Role of nurse, Topical Administration: purposes, site, equipment, procedure, special considerations for Application to Skin Application to mucous membrane- Direct application of liquids-Gargle and swabbing the t Hoursoat- Insertion of Drug into body cavity: Suppository, medicated packing in rectum/vagina- Instillations:, Ear, Eye, Nasal, Bladder, and Rectal- Irrigations: Eye, Ear, Bladder, Vaginal and Rectal- Spraying: Nose and t Hoursoat Inhalation: Nasal, oral, endotracheal (steam, oxygen and medications) purposes, types, equipment, procedure, special considerations  
 - Recording and reporting of medications administered.

**UNIT-13 Meeting needs of Peri-operative patients**

**10 Hours**

Definition and concept of Peri operative Nursing, Preoperative Phase- Preparation of patient for surgery Intra-operative, Operation theatre Set up and environment., Role of nurse, Postoperative Phase, Recovery unit Post operative unit, Postoperative care, Wounds: types, Classifications, wound Healing Process, Factors affecting Wound, Complications of Wound Surgical asepsis, Care of the wound: types, equipments, procedure and special considerations- Dressings, Suture Care,- Care of Drainage- Application of Bandages, Binders, Splints & Slingss- Heat and Cold Therapy and Healing.

**UNIT-14 Meeting special needs of patient**

**15 Hours**

Care of patients having alteration in: - Temperature (hyper and hypothermia); Types, Assessment, Management Sensorium (Unconsciousness); Assessment, Management - Urinary Elimination (retention and incontinence); Assessment Management - Functioning of sensory organs: ( Visual & hearing impairment) - Assessment of Self-Care ability Communication Methods and special considerations - Mobility (physically challenged, cast), assessment of Self-Care ability: Communication Methods and special considerations - Mental state (mentally challenged), assessment of Self-Care ability; - Communication Methods and special considerations - Respiration (distress); Types, Assessment, Management Comfort - (Pain) - Nature, Factors influencing Pain, Coping, Assessment, Management; Treatment related gastrointestinal system: nasogastric suction, gastric irrigation, gastric – analysis

**UNIT-15 Care of Terminally ill patient**

**5 Hours**

Concepts of Loss, Grief, grieving Process - Signs of clinical death - Care of dying patient: special considerations - Advance directives: euthanasia, will, dying declaration, organ donation etc - Medico-legal issues - Care of dead body: equipment procedure and care of unit - Autopsy – Embalming.

<b>UNIT-16 Professional Nursing concepts and practices</b>	<b>5 Hours</b>
Conceptual and theoretical models of nursing practice: Introduction to models- holistic model, health belief model, health promotion model etc Introduction to Theories in Nursing; Peplau's, Henderson's, Orem's, Neuman's, Roger's and Roy Linking theories with nursing process.	

**Continuous Assessment Pattern**

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTEI+MTEII)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
15	5+5	75	100

<b>Name of The Course</b>	<b>Psychology</b>			
<b>Course Code</b>	<b>BSCN1004</b>			
<b>Prerequisite</b>	<b>10+2 PCB 55%</b>			
<b>Corequisite</b>	<b>Demonstration, Group projects, Video film, charts</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	2	0	0	2

**Course Objectives:**

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

**Course Outcomes**

<b>CO1</b>	<b>Describe the history, scope, methods and biology of Human behavior.</b>
<b>CO2</b>	<b>Describe and identify cognitive processes and role of nurse in managing altered cognitive processes.</b>
<b>CO3</b>	<b>Describe the Motivation and emotional processes and their influence on behaviour</b>
<b>CO4</b>	<b>Explain the concepts of personality and its influence on behavior.</b>
<b>CO5</b>	<b>Describe psychology of people during developmental phase of life and identify ego defense mechanism and its implication on mental health.</b>
<b>CO6</b>	<b>Illustrate role of nurse in psychological assessment and testing.</b>

**Text Book (s)1.**

- R Sreevani – Psychology for Nurses , 2012, Jaypee Brothers Medical Publishers.
- Basavanthappa BT- Psychology for Nursing, 2010, Jaypee Brothers Medical Publishers.
- A.B Salgado –Introductory Psychology for Nursing and Allied Health Sciences, 2010, Jaypee Brothers Medical Publishers

**Reference Book (s)** 1. Mark Breedlove – Principles of Psychology, 2005, Oxford University Press.

- I Clement – Textbook on Psychology, 2016, Jaypee.
- Madhavi & pratibha – A Textbook of Psychology,2015, Vijayam Publications.

**Course Content:**

<b>Unit-1 Introduction</b>	<b>2 Hours</b>
History and origin of science of psychology, Definitions & Scope of Psychology, Relevance to nursing, Methods of Psychology.	
<b>Unit-2 Biology of behaviour</b>	<b>7 Hours</b>



<b>Body mind relationship-</b> modulation process in health and illness; <b>Genetics and behaviour:</b> Heredity and environment; <b>Brain and Behaviour-</b> nervous system, neurons and synapse, Association Cortex, Rt and Lt Hemispheres, Psychology of Sensations, Muscular and glandular controls of behavior, Nature of behaviour of an organism/Integrated_responses.	
<b>Unit-3 Cognitive processes</b>	<b>24 Hours</b>
<b>Attention:</b> Types, determinants Duration & degree, alterations; <b>Perception:</b> Meaning, Principles factors affecting, Errors; <b>Learning:</b> Nature, Types, learner and learning, Factors influencing, laws and theories, process, transfer, study habits; <b>Memory:</b> Meaning, Types, Nature Factors influencing, Development Theories and methods of memorizing and Forgetting <b>Thinking:</b> Types and levels, stages of development, Relationship with language and communication; <b>Intelligence:</b> Meaning, classification, uses, theories; <b>Aptitude:</b> Concept, types, Individual differences and variability; Psychometric assessments of cognitive processes; Alterations in cognitive processes; Applications	
<b>Unit-Motivation</b>	<b>12 Hours</b>
Definition, Purpose, scope and need, Basic principles, Organization of counseling services, Types of counseling approaches ,Role and preparation of counselor, Issues for counseling in nursing: students and practitioners, Counseling process — steps & techniques, tools of counselor ,Managing disciplinary problems, Management of crisis & referr <b>Motivation:</b> Meaning, Concepts, Types, Theories, Motives and behavior, Conflicts and frustration, conflict resolution. <b>Emotions &amp; stress</b> Emotion: Definition, components, Changes in emotions, theories emotional adjustments, emotions in health and illness. Stress: stressors, cycle, effect, adaptation & coping. <b>Attitude:</b> Meaning, nature, development, factors affecting, <b>Behaviour and attitudes</b> Attitudinal change, Psychometric assessments of emotions and attitudes, Alterations in emotions Applications.	
<b>Unit-5 Personality</b>	<b>9 Hours</b>
Definitions, topography, types, Theories, Psychometric assessments of personality, Alterations in personality, Applications, Alterations in disease, Applications and implications in nursing	
<b>UNIT-6 Developmental psychology</b>	<b>9 Hours</b>
Psychology of people at different ages from infancy to old age.,Psychology of vulnerable individuals- challenged, women, sick, etc.,Psychology of groups.	
<b>UNIT-7 Mental hygiene and mental health</b>	<b>11 Hours</b>
Concepts of mental hygiene and mental health., Characteristics of mentally healthy person., Warning signs of poor mental health.,Promotive and Preventive mental health- strategies and services, Ego Defense mechanisms and implications., Personal and social adjustments., Guidance and counseling., Role of nurse.	
<b>UNIT-8 Psychological assessment &amp; tests</b>	<b>6 Hours</b>
Types, development, Characteristics, Principles, Uses, Interpretations and Role of nurse in psychological assessment.	

**Continuous Assessment Pattern**

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTEI+MTEII)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
10	5+5	75	100

<b>Name of The Course</b>	<b>Microbiology</b>			
<b>Course Code</b>	<b>BSCN1005</b>			
<b>Prerequisite</b>	<b>10+2 PCB 55%</b>			
<b>Corequisite</b>	<b>Demonstration, Group projects, Video film, charts</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	3	0	0	3

### Course Objectives:

This course is designed to enable students to acquire understanding of fundamentals of Microbiology and identification of various micro-organisms. It also provides opportunities for practicing infection control measures in hospital and community settings.

### Course Outcomes

<b>CO1</b>	Describe concepts and principles of microbiology.
<b>CO2</b>	Identify structure, classification, morphology of microbes and demonstrate various laboratory methods used to study microbes.
<b>CO3</b>	Describe measures for infection control and role of nurse to prevent infection in the hospital by providing health education.
<b>CO4</b>	Summarize different types of disease producing microorganism and parasites in human body.
<b>CO5</b>	Demonstrate role of nurse in utilizing aseptic technique while collecting, handling and transportation of various specimens.
<b>CO6</b>	Explain the basic concept and importance of immune system and appreciate the importance of immunization and immunoprophylaxis to prevent infectious disease.

### Text Book (s)

1. Dr. C.P Baweja – Textbook of Microbiology for Nursing , 2007, Jaypee
2. Dr. Arora – Essentials of Microbiology for BSc Nursing Students, 2008, CBS
3. Anju Dhir– Textbook of Microbiology for BSc & Post Basic Nursing Students , 2019, Atithi Medical Books.

### Reference Book (s)

1. Dr. Reeba Kanungo – Ananthanarayan and Paniker's Textbook of Microbiology, 10<sup>th</sup> Edition, Jaypee
2. **2.CP Baveja – Textbook of Microbiology ,6<sup>th</sup> Edition, 2019,Arya Publications**
3. 3.Apurba S Sastry –Essentials ofMicrobiology ,2018.
4. Apurba S Sastry – Review of Microbiology and Immunology ,2019,

**Course Content:**

<b>Unit-1 Introduction</b>	<b>5 Hours</b>
Importance and relevance to nursing, Historical perspective, Concepts and terminology, Principles of microbiology	
<b>Unit-2 General Characteristics of Microbes</b>	<b>14+7 Hours</b>
Structure and classification of Microbes, Morphological types, Size and form of bacteria, Motility Colonization, Growth and nutrition of microbes, Temperature, Moisture, Blood and body fluids Laboratory methods for Identification of Microorganisms, Staining techniques, Gram staining, Acid fast staining, Hanging drop preparation Culture; various medias	
<b>Unit-3 Infection control</b>	<b>14+2 Hours</b>
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, Protocols, collection of samples, preparation of report and status of rate of infection in the unit/hospital, nurse's accountability, continuing education etc	
<b>Unit-4 Pathogenic organisms</b>	<b>16+6 Hours</b>
Micro-organisms - Cocci — gram positive and gram negative, bacilli— gram positive and gram negative, Spirochaete, Mycoplasma, Rickettsiae, Chlamydiae, Viruses - Fungi -Superficial and Deep, mycose, Parasites, Rodents & vectors, Characteristics, Source, portal of entry, transmission of infection Identification of disease producing micro-organisms, Collection, handling and transportation of various specimens.	
<b>Unit-5 Immunity</b>	<b>11+5 Hours</b>
Immunity-Types, classification, Antigen and antibody reaction, Hypersensitivity — skin test Serological tests, Immunoprophylaxis, Vaccines & sera -Types & Classification, storage and handling, cold chain, Immunization for various diseases, Immunization Schedule.	

**Continuous Assessment Pattern**

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTEI+MTEII)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
15	5+5	75	100

<b>Name of The Course</b>	ENGLISH			
<b>Course Code</b>	BSCN1006			
<b>Prerequisite</b>	10+2 with PCB 55%			
<b>Corequisite</b>	<b>10+2 PASS WITH ENGLISH AS COMPULSARY SUBJECT, Group Projects, Video Film Of English Authors, English Films</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	2	0	0	2

### Course Objectives:

1. Speak and write grammatically correct English.
2. Develop ability to read, understand and express meaningfully the prescribed text.
3. Develop skills in spoken English.
4. Develop skill in listening, comprehension.

### Course Outcomes

<b>CO1</b>	Develop ability to Speak and write grammatically correct English
<b>CO2</b>	Develop ability to read, comprehend and express meaningfully the prescribed text.
<b>CO3</b>	Develop writing skills
<b>CO4</b>	Develop skills in spoken English such as oral report, discussion, debate, telephonic conversation
<b>CO5</b>	Develop skills in listening, comprehension such as media, audio, video, speeches etc.to communicate with patients and their families in hospital setting and community.

### Text Book (s)

1. Selva Rose. 1997, Career English for Nurses. Chennai: Orient Longman Ltd.
2. Thomson A. J. and Maitland A. V. 1987, A Practical English Grammar, Delhi: Oxford University Press.

### Reference Book (s)

1. General English for B.Sc Nursing, 1<sup>st</sup> edition, Meena sharma
2. O' Connor J. D, 1986. Better English handwriting. Cambridge: University Press.
3. Bywater F. V. A. 1982, Proficiency Course in English. London: 1- loder and Stronglton.
4. Oxford advanced Learners Dictionary, 1996

### Course Content:

<b>Unit-1 Introduction to English</b> <b>Review of Grammar Remedial study of Grammar, Building Vocabulary, Phonetics, Public Speaking.</b> Demonstrate use of dictionary, Class room Conversation, Exercise on use of grammar, Practice in public speaking	<b>10 Hours</b>
<b>Unit-2 Develop ability to read, understand and express meaningfully the prescribed text, Read and comprehend prescribed course books</b>  Reading, Summarizing, Comprehension	<b>30 Hours</b>

<b>Unit-3 Various forms of Composition</b>	<b>10 Hours</b>
Letter writing, Note taking, Precise writing, Nurses notes, Anecdotal records, Diary writing, Reports on health problems etc., Resume/CV	
Letter writing, Nurses Notes, Precise, Diary, Anecdote, Health problems, Story writing, Resume/CV, Essay Writing, Discussion on written reports/ documents	
<b>Unit-4 Spoken English</b>	<b>6 Hours</b>
Oral report, Discussion, Debate, Telephonic Conversation	
Debating, Participating in Seminar, panel, symposium, Telephonic Conversation	
<b>Unit-5 Learning Comprehension</b>	<b>4 Hours</b>
Media, audio, video, speeches etc	
Listening to audio, video tapes and identify the key points	

#### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTEI+MTEII)	End Term Exam (ETE)	Total Marks
-	-	50	50

<b>Name of The Course</b>	<b>Nursing Foundations Practical</b>			
<b>Course Code</b>	<b>BSCN1008</b>			
<b>Prerequisite</b>	<b>10+2 PCB 55%</b>			
<b>Corequisite</b>	<b>Demonstration, Group projects, Video film, charts</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	0	0	15	15

### Course Objectives:

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

### Course Outcomes

<b>CO1</b>	Perform admission, discharge and patient assessment procedures and provide nursing care by using steps of nursing process.
<b>CO2</b>	Demonstrate all basic nursing procedures as per the log book/procedure manual prescribed by INC, for providing nursing care to patients in the hospital and community setting.
<b>CO3</b>	Perform infection control procedure and practice standard safety precautions (universal precautions) while caring for the patient.
<b>CO4</b>	Communicate effectively with patient, families and team members and maintain effective IPR.
<b>CO5</b>	Administer drugs; provide care to the dying and dead, counsel and support relatives.

### Text Book (s)

1. Taylor – Fundamentals of Nursing, 2007, LWW
2. Kozier – Fundamentals of Nursing ,2007,Pearson
3. Potter – Basic Nursing ,2008,Elsevier

### Reference Book (s)

- 1 Lynn – Taylor’s Clinical Nursing Skills,2008,LWW
2. Craven – Fundamentals of Nursing ,2010,LWW
3. LWW – Lippincott’s Nursing Procedure, 2008, LWW.
4. Jacob – Clinical Nursing Skills & Procedures ,2008,Jaypee

### Course Content:

<b>Unit-1 Hospital admission &amp; discharge</b>	<b>5 Hours</b>
Admission, Prepare unit for new patient, Prepare admission bed, Perform admission procedure- new patient, transfer in, Prepare patient records, Discharge/Transfer out, Discharge counseling, Perform discharge procedure, Prepare records of discharge/transfer, dismantle & disinfect unit and equipment after discharge/transfer.	
<b>Unit-2 Perform Assessment</b>	<b>5 Hours</b>
History taking, Nursing diagnosis, problem list, Prioritization, Goals & expected outcomes, selection of intervention, Write nursing care plan, Giving care as per the plan.	
<b>Unit-3 Communication &amp; Reporting</b>	<b>5 Hours</b>
Use verbal & non verbal communication techniques, prepare a plan for patient teaching session, change of shift reports, transfer reports, Incident reports etc. , present patients report.	
<b>Unit-4 Vital Signs</b>	<b>5 Hours</b>

Measure, Records and interpret alterations in body temperature, Pulse, Respiration and Blood pressure	
<b>Unit-5 Health Assessment</b>	<b>30 Hours</b>
Health history taking, Perform assessment- general, body systems, Use various methods of physical examination, Inspection, Palpation, Percussion, Auscultation, Olfaction, Identification of system wise deviations.	
<b>UNIT-6 Prepare patient's unit</b>	<b>15 Hours</b>
Prepare beds- open, closed, occupied, operation, amputation, cardiac, fracture, burn, divided & fowlers bed, Pain assessment and provision for comfort, Use of comfort devices.	
<b>UNIT-7 Meeting needs of the patient</b>	<b>70 Hours</b>
Hygienic care- oral hygiene, bath & care of pressure points, Hair wash, Pediculosis treatment, Feeding- Oral, Enteral, Naso/Orogastric, gastrostomy & parental feeding, Naso-gastric insertion, suction & irrigation, Assisting patient in urinary elimination- provide urinal/bed pan, Condom drainage, Perineal care, Catheterization, Care of urinary drainage, Bladder irrigation assisting bowel elimination- Insertion of flatus tube, Enemas, Insertion of suppository, Bowel wash, Body alignment & mobility- Range of motion exercises, Positioning- Recumbent, Lateral, Fowlers, Sims, Lithotomy, Prone, Trendelenburg position, Assist patient in moving, lifting, transferring, walking, Restraints, Oxygen administration, Suctioning, Chest PT and postural drainage, Care of chest drainage, CPR-Basic life support, Intravenous therapy, Blood & blood component therapy, Specimen collection for investigations, Perform lab tests, Hot & cold applications, Communicating & assisting with self-care of – visually & hearing impaired patients, mentally challenged & disturbed patients, alteration of sensorium, Recreational & diversional therapies.	
<b>UNIT-8 Infection control</b>	<b>15 Hours</b>
Perform following procedures- Hand washing techniques, Simple, Hand antisepsis, surgical antisepsis(scrub), Prepare isolation unit in lab/ward, Practice technique of wearing & removing Personal protective equipment (PPE), Practice standard safety precautions, Decontamination of equipment & unit-Surgical asepsis: sterilization, Handling sterilized equipment, calculate strength of lotions, Prepare lotions, Care of articles.	
<b>UNIT-9 Pre &amp; perioperative care</b>	<b>15 Hours</b>
Skin preparation for surgery, Preparation of post operative unit, Pre and post operative teaching and counseling, pre and post operative monitoring, Care of the wound- Dressing, suture care, care of drainage, Application of Bandages, Binders, Splints & Slings, Bandaging of various parts.	
<b>UNIT-10 Administration of medication</b>	<b>30 Hours</b>
Administer medications in different forms & routes- Oral, Sublingual & Buccal, Parental- Intradermal, Subcutaneous, Intramuscular, Intravenous, assist in intravenous medications, Drug measurement & dose calculation, Preparations of lotions & solutions, Administers topical application, Insertion of drug into body cavity- suppository & medicated packing, Instillation of medication and spray into ear, Eyes, Nose & T Hoursoat, Irrigations- Eye & Ear, Bladder, Vagina & Rectum, Inhalations- Dry & moist.	
<b>UNIT-11 Care of dying patient</b>	<b>5 Hours</b>
Caring & Packing of the dead body, counseling & supporting grieving relatives, Terminal care of the unit.	

### Continuous Assessment Pattern

Internal Assessment (IA)	End Term Exam (ETE)	Total Marks
100	100	200

<b>Name of The Course</b>	Introduction to computer			
<b>Course Code</b>	BSCN1007			
<b>Prerequisite</b>	10+2 with PCB 55%			
<b>Corequisite</b>	Computer Lab, Group projects, Video film			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	1.5	0	0	1.5

### Course Objectives:

1. To enable students to Identify & define various concepts used in computer and application of computer in nursing
2. To enable students to demonstrate skill in the use of MS Office, internet and Email and multi-media.
3. To Identify features of computer aided teaching and testing
4. To apply knowledge of computer to describe and use the statistical packages and the use of Hospital Management System

### Course Outcomes

<b>CO1</b>	Aquire basic knowledge and skills of computer science and its application in Nursing, education, research and service.
<b>CO2</b>	Demonstrate and develop skills in preparing multimedia and its utility in teaching learning process.
<b>CO3</b>	Describe the use of various statistical packages used in hospital/nursing management system.

### Text Book (s)

1. Sood Ranju. "Computer for Nursing".1<sup>st</sup> edition 2014; Avichal.
2. Shendurnikar Niranjan. "Computer for Nurses". 1<sup>st</sup> edition 201y; Jaypee brothers.

### Reference Book (s)

1. Nursing informatics:Scielo.br

### Course Content:

<b>Unit-1 Introduction</b>	<b>3 Hours</b>
<ul style="list-style-type: none"> <li>• Concepts of Computers</li> <li>• Hardware and software; trends and technology</li> <li>• Application of computers in nursing.</li> <li>• Charts</li> </ul>	
<b>Unit-2 Introduction to disk – operating system</b>	<b>6 Hours</b>
<ul style="list-style-type: none"> <li>○ DOS</li> <li>○ Windows (all version)</li> </ul> <p>* Introduction</p> <ul style="list-style-type: none"> <li>○ MS-Word</li> <li>○ MS-Excel with pictorial presentation</li> <li>○ MS-Access</li> <li>○ MS-Power point</li> </ul>	
<b>Unit-3 Multimedia</b>	<b>2 Hours</b>
Multimedia; types & uses	



* Computer aided teaching & testing	
<b>Unit-4 Internet</b> Use of Internet and: e-mail	<b>1 Hours</b>
<b>Unit-5 Statistical Packages</b> * Statistical packages: types and their features	2 Hours
<b>Unit-6 Hospital Management</b> * Hospital Management System: Types and uses	<b>1 Hours</b>

#### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTEI+MTEII)	End Term Exam (ETE)	Total Marks
-		50	50

## BSC NURSING 2<sup>ND</sup> YEAR

<b>Name of The Course</b>	Sociology			
<b>Course Code</b>	BSCN2001			
<b>Prerequisite</b>	10+2 with PCB 55%			
<b>Corequisite</b>	Sociology books			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	2	0	0	2

### Course Objectives:

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.

### Course Outcomes

<b>CO1</b>	Describe the concept, importance of sociology and interrelationship of individuals in the society
<b>CO2</b>	Explain influence of culture on health and diseases
<b>CO3</b>	Identify social group and their interaction among each other
<b>CO4</b>	Describe the growth of population in India and its impact on health
<b>CO5</b>	Describe institution of family, marriage and their influence on health and health practices
<b>CO6</b>	Describe the role of nurse in social stratification, rural urban community, social change, social organization, social system, social control and social problems in India.

### Text Book (s)

1. KP Neeraja "Text book of Sociology for nursing students".1<sup>st</sup> edition 20014; Jaypee publishers
2. TK Indrani " Text book of sociology for nurses" 2<sup>nd</sup> th edition 2012; Jaypee publishers
3. Jyoti Srivastava " Textbook of sociology for nursing students" 2<sup>st</sup> edition 2016, Kumar Publishing House

### Reference Book (s)

1. I Clement " Sociology for nurses" 2<sup>nd</sup> edition 2010,pearson publishers
2. Krishne Gowda " sociology for nurses" 2<sup>nd</sup> edition , CR Publishing house
3. Karen willis and Shandell Elmer " Society, culture and health " 1<sup>st</sup> edition, Oxford publications

### Course Content:

<b>Unit-1 INTRODUCTION</b> Definition of Sociology Nature and Scope of the discipline Importance and application of Sociology in Nursing	<b>1 hour</b>
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<p><b>Unit-2 Individual &amp; Society</b></p> <p>Society and Community  Nature of Society, Difference between Society and Community  Process of Socialization and individualization  Personal disorganization</p>	<b>3 Hours</b>
<p><b>Unit-3 Culture</b></p> <p>Nature of culture, Evolution of culture</p> <ul style="list-style-type: none"> <li>• Diversity and uniformity of culture</li> <li>• Culture and socialization, Transcultural society</li> <li>• Influence on health and disease</li> </ul>	<b>5 Hours</b>
<p><b>Unit-4 Social groups and processes</b></p> <p>The meaning and classification of groups primary and secondary groups  Group: In-group V/s. Out-group,  Class Tribe, Caste, Economic, Political, Religious groups, Mob, Crowd, Public and Audience Interaction &amp; Social Processes  Co-operation, Competition, Conflict  Accommodation, Assimilation &amp; Isolation</p>	<b>6 Hours</b>
<p><b>Unit-5 Population</b></p> <p>Society and population</p> <ul style="list-style-type: none"> <li>• Population distribution in India- Demographic characteristics</li> <li>• Malthusian theory of Populations</li> <li>• Population explosion in India and its impact on health status</li> <li>• Family welfare programmes</li> </ul>	<b>8 Hours</b>
<p><b>Unit-6 Family and marriage</b></p> <p>Family- Functions</p> <ul style="list-style-type: none"> <li>• Types-Joint, Nuclear, Blended and extended family:</li> </ul> <p>Characteristics</p> <ul style="list-style-type: none"> <li>• The Modern Family — Changes, Problems-Dowry etc., welfare Services</li> <li>• Changes &amp; legislations on family and marriage in India - marriage acts</li> <li>• Marriage: Forms and functions of marriage,</li> <li>• Marriage and family problems in India</li> <li>• Family, marriage and their influence on health and health practices</li> </ul>	<b>7 Hours</b>
<p><b>Unit-7 Social stratification meaning and types of social stratification</b></p> <p>The Indian Caste System- origin &amp; features, Features of Caste in India Today</p> <ul style="list-style-type: none"> <li>• Social Class system and status</li> <li>• Social Mobility-Meaning &amp; Types</li> <li>• Race as a biological concept, criteria of racial classification</li> <li>• Salient features of Primary races- Racism</li> </ul> <p>• Influence of Class, Caste and Race on health and health practices</p>	<b>9 Hours</b>
<p><b>Unit-8 Types of communities in India</b></p> <p><b>Types of Communities in India</b>  (Rural, Urban and Regional)</p> <p>Features of village ,community&amp; Characteristics of Indian villages- Panchayat system, social dynamics  Community Development, project &amp; 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</p>	<b>8 Hours</b>

<b>Unit-9 Social change</b>		<b>6 Hours</b>
<ul style="list-style-type: none"> <li>• Nature and process of Social Change</li> <li>• Factors influencing Social change: cultural change, Cultural lags.</li> <li>• Introduction to Theories of social change: Linear, Cyclical, Marxian, Functional</li> </ul>		
Role of nurse-Change agents		
<b>Unit-10 Social organization and social system</b>		<b>6 Hours</b>
<ul style="list-style-type: none"> <li>• Democratic and authoritarian modes of participation,</li> <li>• Voluntary associations</li> <li>• Social system: Definition and Types of social system</li> <li>• Role and Status as structural elements of social system</li> </ul>		
Inter-relationship of institutions		
<b>Unit-11 Social Control</b>		<b>4 Hours</b>
<ul style="list-style-type: none"> <li>• Nature and process of social control</li> <li>• Political, Legal, Religious, Educational, Economic, Industrial and Technological systems, Norms &amp; Values- Folkways &amp; Mores, Customs, Laws and Fashion</li> </ul>		
Role of Nurse.		
<b>Unit-12 Social problems</b>		<b>17 Hours</b>
Social disorganization		
<ul style="list-style-type: none"> <li>• Control &amp; planning: poverty, housing, illiteracy, food supplies, prostitution, rights of women &amp; children, vulnerable groups: Elderly, handicapped, minority groups and other marginalized groups, child labour, child abuse, delinquency and crime, substance abuse, HIV/AIDS.</li> <li>• Social Welfare programmes in India</li> </ul>		
Role of nurse		

### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTE1+MTE2)	End Term Exam (ETE)	Total Marks
15	5+5	75	100

<b>Name of The Course</b>	Pharmacology, Pathology ,Genetics			
<b>Course Code</b>	BSCN2002			
<b>Prerequisite</b>	KNOWLEDGE of anatomy ,physiology and microbiology			
<b>Corequisite</b>	Pathology lab with models, charts, log book, Group projects, Video film, Pathology Atlas, Pharmacology lab with models, charts, log book, Group projects, Video film, Pharmacology Atlas Genetic lab with models, charts, log book, Group projects			
<b>Antirequisite</b>				
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	3	0	0	3

### Course Objectives:

1. This course is designed to enable students to acquire knowledge of pathology of various disease conditions and apply this knowledge in practice of nursing.
2. This course is designed to enable students to acquire understanding of Pharmacodynamics, Pharmacokinetics and Principles of Therapeutics and Nursing implications.
3. This course is designed to enable students to acquire understanding of Genetics, its role in causation and management of defects and diseases.

### Course Outcomes

<b>COA1</b>	Explain the importance of study of pathology in nursing and differentiate between normal and abnormal structure and function of human body system.
<b>COA2</b>	Demonstrate and Identify pathological changes in disease condition of various systems.
<b>COA3</b>	Demonstrate various laboratory tests for examination of blood, urine and other body fluids to monitor disease conditions and role of nurse in infection control.
<b>COB1</b>	Describe pharmacodynamics, pharmacokinetics and principles of drug administration.
<b>COB2</b>	Demonstrate chemotherapy used for specific infection & infestations.
<b>COB3</b>	Recognize action, side effects, dosage, routes of drugs used for treating diseases relating to all body systems.
<b>COB4</b>	Demonstrate drugs used in emergency, CPR, de-addiction, vaccine & sera, vitamins and minerals deficiency and alternative system of medicine and role of nurse.
<b>COC1</b>	Explain the nature, principle and perspectives of heredity and genetics and its practical application in counseling patient with genetic disorders.
<b>COC2</b>	Demonstrate maternal and genetic influences on developmental defects and diseases in children and their management.
<b>COC3</b>	Demonstrate screening methods used for genetic defects and diseases in neonates, children, adolescents and adults.

### Text Book (s)

1. Swaminathan K – Pathology for Nurses, 2009, Jaypee Brothers Medical Publishers
2. Sharma Suresh K– Textbook of Pharmacology, Pathology and Genetics for Nurses (2 Volumes), 2016, Jaypee Brothers Medical Publishers.
3. Tara Shanbhag Veena NayakSmita Shenoy – Pharmacology for Nurses, 2011, Elsevier.
4. Sharma Suresh K– Textbook of Pharmacology, Pathology and Genetics for Nurses (2 Volumes), 2016, Jaypee Brothers Medical Publishers.
5. Sharma Suresh K – Human Genetics in Nursing, 2010, Jaypee Brothers Medical Publishers.
6. Sharma Suresh K– Textbook of Pharmacology, Pathology and Genetics for Nurses (2 Volumes), 2016, Jaypee Brothers Medical Publishers.

### Reference Book (s)

1. Stanley L Robbins– Robbins and Cotran Pathologic Basis of Disease, 2005, Elsevier/Saunders
2. Harsh Mohan – Textbook of Pathology, 2015, Jaypee Brothers Medical Publishers
3. K.D Tripathi– **Essentials Of Medical pharmacology** , 2008, Jaypee Brothers Medical Publishers.
4. Karen Whalen – Lippincott Illustrated Reviews: Pharmacology 6th edition, 2018, Jaypee Brothers Medical Publishers.
5. Stanley L Robbins– Robbins and Cotran Pathologic Basis of Disease, 2005, Elsevier/Saunders
6. Harsh Mohan – Textbook of Pathology, 2015, Jaypee Brothers Medical Publishers

## **PATHOLOGY**

### **Unit-1 INTRODUCTION**

**5 Hours**

Importance of the study of pathology, Definition of terms, Methods and techniques, Cellular and Tissue changes, Infiltration and regeneration, Inflammations and Infections, Wound healing, Vascular changes, Cellular growth, Neoplasms Normal and Cancer cell, Benign and Malignant growths, In situ carcinoma, Disturbances of fluid and electrolyte imbalance.

### **Unit-2 Pathological changes in disease conditions of various systems:**

**14 Hours**

**Respiratory tract**-Tuberculosis, Bronchitis, Pleural effusion and pneumonia, Lung abscess, emphysema, bronchiectasis, Bronchial asthma, Chronic obstructive Pulmonary disease & tumours.

#### **Cardiovascular system**

Pericardial effusion, Rheumatic heart disease, Infective endocarditis, atherosclerosis, Ischemia, infarction & aneurysm

#### **Gastro Intestinal Tract**

- Peptic ulcer, typhoid,

**Carcinoma of GI tract** - buccal, Esophageal,

**Gastric & intestinal**, Liver, Gall bladder & pancreas, Hepatitis, Chronic liver abscess, cirrhosis, Tumours of liver, gall bladder and pancreas, Cholecystitis

#### **- Kidneys & Urinary tract**

- Glomerulonephritis, pyelonephritis, Calculi, renal failure, renal, carcinoma & cystitis

#### **- Male genital systems**

Cryptorchidism testicular, atrophy, Prostatic hyperplasia, Carcinoma Penis & prostate

#### **- Female genital system.**

Fibroids, Carcinoma cervix and Endometrium, Vesicular mole, choriocarcinoma, Ectopic gestation, Ovarian cyst & tumours, Cancer Breast.

#### **Central Nervous system**

Hydrocephalus, Meningitis, encephalitis,

#### **Vascular disorders**

Thrombosis, embolism, Stroke, paraplegia, quadriplegia

- Tumours, meningiomas	
<b>Unit-3 Clinical pathology</b> Various blood and bone marrow tests in assessment and monitoring of disease conditions Hemoglobin .RBC. White cell & platelet counts, Bleeding time, clotting time and prot Hoursombine time, Blood grouping and cross matching, Blood chemistry, Blood culture, Serological and immunological tests, Other blood tests, Examination of Bone marrow, Methods of collection of blood, specimen for various clinical, pathology, biochemistry, microbiology tests, inference and normal values	<b>6 Hours</b>
<b>Unit-4 Examination of body cavity fluids, transudates and exudates</b> 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.	<b>4 Hours</b>
<b>Unit-5 Urine and Faeces</b>  <b>Urine</b> - Physical characteristics, Analysis, Culture and sensitivity. <b>Faeces</b> Characteristics, Stool examination: occult blood, ova, parasite and cyst, reducing substance etc. Methods of collection for various tests, inference and normal values.	<b>1 Hour</b>
<b>PHARMACOLOGY</b>	
<b>Unit-1 Introduction to Pharmacology</b> •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	<b>8 Hours</b>
<b>Unit-2 Chemotherapy</b> Pharmacology of commonly used; 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 •Immuno-suppressants Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.	<b>6 Hours</b>
<b>Unit-3 Pharmacology of commonly used antiseptics, disinfectants and insecticides.</b> • Antiseptics; Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse • Disinfectants • Insecticides	<b>2 Hours</b>
<b>Unit-4 Drugs acting on G.I. system</b> • Pharmacology of commonly used- Antiemetics, - Emetics – Purgatives – Antacids - Cholinergic-Anticholinergics - Fluid and electrolyte therapy - Anti diarrhoeals - Histamines Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse	<b>2 Hours</b>
<b>Unit-5 Drugs used on Respiratory Systems</b> • Pharmacology of commonly used- - Antiasthmatics, Mucolytics, Decongestants, Expectorants, Antitussives Bronchodilators, Broncho constrictors, Antihistamines, Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, Adverse effects, toxicity and role of Nurse.	<b>2 Hours</b>
<b>Unit-6 Drugs used on Urinary System Pharmacology of commonly used</b> •Diuretics and antidiuretics •Urinary antiseptics •Cholinergic and •anticholinergics Acidifiers and alkalanizeis •Composition, action, •dosage, route, indications,• contraindications, drug interactions, side effects, adverse • effects, toxicity and role of Nurse.	<b>2 Hours</b>
<b>Unit-7 Miscellaneous</b> • Drugs used in de-addiction • Drugs used in CPR and emergency • Vitamins and minerals • Immunosuppressant • Antidotes • Antivenom • Vaccines and sera	<b>4 Hours</b>
<b>Unit-8 Drugs used on skin and mucous membranes</b>	<b>2 Hours</b>

Topical applications for skin, eye, ear, nose and buccal cavity, Antipruritics, Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse			
<b>Unit-9 Drugs acting on Nervous system</b>		<b>8 Hours</b>	
Basic & applied pharmacology of commonly used: Analgesics and Anaesthetics Analgesics - Non steroidal anti Inflammatory (NSAID) drugs Antipyretics Hypnotics and Sedatives- Opioids - Non-Opioids – Tranquilizers - General l & local anesthetics - Gases: oxygen, nitrousoxide,carbon dioxide Cholinergic and anti-cholinergic: Musclerelaxants Major tranquilizers, Anti-psychotics, Antidepressants Anticonvulsants., Adrenergics, Noradregenics, Mood stabilizers, Acetylcholine, Stimulants, Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.			
<b>Unit-10 Cardiovascular drugs</b>		<b>2 Hours</b>	
• Haematinics • Cardiotonics, • Anti anginals • Anti-hypertensives & Vasodilators • Anti-arrhythmics Plasma expanders • Coagulants & anticoagulants • Antiplatelets & t Hoursombolytics • Hypolipidemics Composition, action, dosage, route, indications, contraindications, drug interactions, side effects,adverse effects, toxicity, role of Nurse			
<b>Unit-11 Drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy</b>		<b>4 Hours</b>	
• Insulins & Oral hypoglycemic • Thyroid supplements and suppressants • Steroids, Anabolics • Uterine stimulants and relaxants • Oral contraceptives • Other estrogen-progestrone preparations • Corticotrophine & Gonadotropines • Adrenaline. • Prostaglandins - • Calcitonins • Calcium salt • Calcium regulators Composition, action, dosage, route, indications, contraindications, drug interactions, side effects,adverse effects, toxicity and role of nurse.			
<b>Unit-12 Introduction to Drugs used in alternative systems of medicine:</b>		<b>6 Hours</b>	
• Ayurveda, Homeopathy,Unani and Siddha etc			
<b>GENETICS</b>			
<b>Unit-1 Introduction:</b>		<b>4 Hours</b>	
• Practical application of genetics in Nursing • Impact of genetic condition on families • Review of cellular division mitosis and meiosis. • Characteristics and structure of genes • C Hoursomosomes — sex determination • C Hoursosomal aberrations Patterns of inheritance Mendalian theory of inheritance Multiple allots and blood groups Sex linked inheritance. Mechanism of inheritance. Errors in transmission (Mutation)			
<b>Unit-2 Maternal, prenatal and genetic influences on development of defects and diseases</b>		<b>4 Hours</b>	
• 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. Nueral Tube defects and the role of folic acid in lowering the risk. DownsSyndrome(Trisomy 21)			
<b>Unit-3 Genetic testing in the neonates and children</b>		<b>3 Hours</b>	
• Screening for - Congenital abnormalities - Developmental delay- Dysmorphism			
<b>Unit-4 Genetic conditions of adolescents and adults</b>		<b>3 Hours</b>	
• Cancer genetics — Familial Cancer • Inborn errors of metabolism • Blood group alleles and haematological disorder • Genetic haemoc Hoursomoatosis • Huntington’s disease• Mental illness			
<b>Unit-5 Services related to Genetics</b>		<b>6 Hours</b>	
. Genetic testing • Human genome project • Gene therapy • The Eugenics movement • Genetic Counselling Legal and Ethical issues Role of nurse			

**Continuous Assessment Pattern**

Internal Assessment (IA)	Mid Term Exam (MTEI+MTEII)	End Term Exam (ETE)	Total Marks
15	5+5	75	100

<b>Name of The Course</b>	Medical Surgical Nursing-1
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<b>Course Code</b>	BSCN2003			
<b>Prerequisite</b>	KNOWLEDGE of anatomy ,physiology and microbiology			
<b>Corequisite</b>	<b>Anatomy physiology lab with models, charts, log book, Group projects, Video film, Anatomy &amp; Physiology Atlas</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	4	0	0	4

### Course Objectives:

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.

### Course Outcomes

<b>CO1</b>	Describe and appreciate the emerging trends in medical and surgical nursing conditions and role of nurse in caring the adult patient in hospital and community.
<b>CO2</b>	Demonstrate common sign and symptoms, problems of specific disease conditions and their specific nursing interventions.
<b>CO3</b>	Explain and identify etiology, pathophysiology, clinical manifestations, diagnostic measures, management and prevention of complications of adult patients suffering with various medical conditions.
<b>CO4</b>	Explain and identify etiology, pathophysiology, clinical manifestations, diagnostic measures, management and prevention of complications of adult patients suffering with various surgical conditions.
<b>CO5</b>	Explain and identify etiology, pathophysiology, clinical manifestations, diagnostic measures, management and prevention and control of communicable diseases in adult and elderly patients.
<b>CO6</b>	Describe and identify the organization, physical set up, instruments/ equipments used, infection control & standard safety measures taken by nurses while working in operation theatre, intensive care unit and coronary care unit and dialysis unit etc.

### Text Book (s)

1. Smeltzer – Brunner & Suddharth Textbook of Medical Surgical Nursing, 2010,
2. LWW Black – Medical Surgical Nursing,2009,Elsevier

### Reference Book (s)

1. Lewis – Medical Surgical Nursing,2008,Elsevier
2. Webber – Health assessment In Nursing ,2010,WK
3. Nettina – Lippincott manual of Nursing Practice,2009,LWW
4. Carpenito – Nursing Care Plans & Documentation Carpenito – Nursing Diagnosis ,2009,LWW

### Course Content:

<b>Unit-1 Introduction</b>	<b>15 Hours</b>
Introduction to medical surgical nursing	

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 C Hoursonic illness & Terminal illness, stages of illness, Review of concepts of comprehensive nursing care in medical surgical conditions based on nursing process, Role of Nurse, patient and family in care of adult patient, Role and responsibilities of a nurse in medical surgical settings: Outpatient department. - In-patient unit, Intensive care unit. Home and Community settings Introduction to Medical Surgical asepsis Inflammation and Infection – Immunity Wound healing Care of Surgical Patient -Pre-operative Intra operative -Post Operative	
<b>Unit-2</b>	<b>15 Hours</b>
<b>Common signs and symptoms and management</b>	
Fluid and electrolyte imbalance. Vomiting, Dyspnea and cough, Incontinence respiratory obstruction, Fever□□Shock, Unconsciousness, Edema Syncope, Pain Age related problems-geriatric	
<b>Unit-3</b>	<b>20 Hours</b>
<b>Nursing management of patients (adults including elderly) with respiratory problems</b>	
Review of anatomy and physiology of respiratory system, • Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of adults including elderly with – Upper Respirator’ that infection Bronchitis Asthma Emphysema Empyema Atelectasis C Hoursonic Obstructive Pulmonary Diseases (COPD) Bronchiectasis Pneumonia• Pulmonary tuberculosis • Lung abscess Pleural effusion Cysts and Tumours • Chest injuries Respiratory arrest and insufficiency Pulmonary embolism special therapies, alternativeTherapies Nursing procedures Drugs used in treatment of respiratory disorders	
<b>Unit-4</b>	<b>30 Hours</b>
<b>Nursing management of patient (adults including elderly) with disorders of digestive system</b>	
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 Oral cavity- lips, gums, and teeth Oesophagus —inflammation? stricture, obstruction, bleeding and tumours Stomach and deudenumhiatus hernia, gastritis, peptic and deudenal ulcer, bleeding, tumours, pyloric stenosis Small intestinal disorders inflammation and 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; hemorrhoids, fissures, Fistulas • Peritonitis/acute abdomen Pancreas; inflammation, cyst, abscess and tumours Liver; inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumours Gall Bladder; inflammation, obstruction, stones and tumours Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of digestive system	
<b>Unit-5</b>	<b>30 Hours</b>
<b>Nursing management of patient (adults including elderly) with blood and cardio vascular problems</b>	
Review of anatomy and physiology of blood and cardio vascular system, Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of-Vascular system Hypertension, Hypotension - Artherio sclerosis Raynaud’s disease Aneurism and Peripheral vascular disorders Heart Coronary artery diseases • Ischemic Heart Disease, Cornory atherosclerosis Angina pectoris Myocardial infarction Valvular disorders of the heart Congenital and acquired - Rheumatic Heart diseases Endocarditis, Pericarditis Myocarditis Cardio Myopathies Cardiac dysrhythmias, Heart Block Congestive cardiac failure Cor-pulmonale, pulmonary edema, cardiogenic shock, cardiac tamponade Cardiac emergencies and arrest Cardio Pulmonary Resuscitation (CPR) • Blood Anaemias Polycythemia Bleeding disorders; clotting factor defects and platelets defects Thalassemia Leukaemias Leukopenias and agranulocytosis Lymphornas Myelornas Special therapies Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reactions:, records for blood transfusion. Management and counseling of blood donors, phlebotomy procedure, and post donation management. Blood hank functioning and hospital transfusion committee. Bio-safety and waste management in relation to blood transfusion Role of a nurse in Organ donation, retrieval and banking Alternative therapies Nursing procedures Drugs used in treatment of blood and cardio vascular disorders	
<b>Unit-6</b>	<b>10 Hours</b>
<b>Nursing management of patient (adults including elderly) with genito-urinary problems</b>	
Review of anatomy and physiology of genito-urinary system Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of- Nep Hoursitis Nep Hoursoitic syndrome • Nep Hoursosis Renal calculus • Tumours Acute renal failure C Hoursonic renal failure End stage renal disease Dialysis, renal transplant Congenital disorders, urinary infections Benign prostate hypertrophy. • Disorders of ureter, urinary bladder and urethera inflammation, infection, stricture, obstruction,	

tumour, prostrate Special therapies, alternative therapies Nursing procedures Drugs used in treatment of genitourinary disorders	
<b>Unit-7</b>	<b>5 Hours</b>
<b>Nursing Management of disorders of male(adults including elderly) reproductive system</b>	
Review of anatomy and physiology of male reproductive system Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of male reproductive system Congenital malformations; Hypospadiasi A lospadiasis, Epispadiasis • Infections Testis and adjacent structures Penis Prostate: inflammation, infection, hypertrophy, tumour Sexual Dysfunction Infertility Contraception Breast; gynecomastia, tumour • Climacteric changes Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of male reproductive system.	
<b>Unit-8</b>	<b>10 Hours</b>
<b>Nursing management of patient(adults including elderly) with disorders of endocrine system</b>	
Review of anatomy and physiology of endocrine system Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of- Disorders of Thyroid and Parathyroid Diabetes mellitus Diabetes insipidusAdrenal tumour Pituitary disorders. Special therapies, alternative' therapies Nursing procedures Drugs used in treatment of disorders of endocrine system.	
<b>Unit-9</b>	<b>10 Hours</b>
<b>Nursing management of patient (adults including elderly) with disorders of Integumentary system</b>	
Review of anatomy and physiology of Skin and its appendages Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of skin and its appendages –Lesions and abrasions Infection and infestations; Dermatitis Dermatoses; infect mis and Non infectious “inflammatory dermatoses”Acne VulgarisAllergies and Eczema • Psoriasis Malignant melanoma • Alopecia Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of Integumentary system.	
<b>Unit-10</b>	<b>15 Hours</b>
<b>Nursing management of patient (adults including elderly) with musculoskeletal problems</b>	
Review of anatomy and physiology of musculoskeletal system, Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of -Disorders of:Muscles, Ligaments and Joints - inflammation, infection, trauma Bones-inflammation, infection, dislocation, fracture, tumour and trauma • Osteomalacia and osteoporosis Art Hoursitis Congenital deformities Spinal column- defects and deformities, Tumor, Prolapsed inter vertebral disc, pott’s spine Paget’s disease Amputation Prosthesis Transplant & replacement surgeries Rehabilitation. Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of musculoskeletal system.	
<b>Unit-11</b>	<b>10 Hours</b>
<b>Nursing management of patient (adults including elderly) with Immunological problems</b>	
Review of Immune system, Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis. treatment modalities and medical, surgical, dietetics & nursing management of- Immunodeficiency disorder. • Primary immuno deficiency.Phagocytic dysfunction B-cell and T-cell deficiencies, Secondary immunodeficiencies Acquired immunodeficiency 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. Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of immune logical system.	
<b>Unit-12</b>	<b>20 Hours</b>
<b>Nursing management of patient (adults including elderly) with Communicable Diseases</b>	
• Overview of infectious disease, the infectious process • Nursing Assessment-History and Physical assessment • Epidemiology, infectious process, clinical manifestations, diagnosis, treatment, prevention and dietics. Control and eradication of common Communicable Diseases Tuberculosis diarrhoeal diseases hepatitis A - E herpeschickenpox • smallpox, typhoid, meningitis,gas gangrene • leprosy.Dengue • Plague • Malaria Diptheria • Pertussis Poliomyelitis • Measles Mump Influenza • Tetanus Yellow fever • Filarias HIV, AIDS Reproductive Tract Infections • Special infection control measures: Notification, Isolation, Quarantine, Immunization, Infectious Disease Hospital Special therapies, alternative therapies Nursing procedures Drugs used in treatment of Communicable diseases	
<b>Unit-13</b>	<b>25 Hours</b>

**Peri operative nursing**

- Organization and Physical set up of the Operation Theatre (OT): Classifications - O.T. DESIGN - Staffing
- Members of the OT team. Duties and responsibilities of nurse in O.T. Principles of Health and operating room attire.
- Instruments, Sutures and suture materials • Equipments O.T. tables and sets for common surgical procedures
- Positions and draping for common surgical procedures • Scrubbing procedures • Gowning and gloving Preparation of O.T. Sets • Monitoring the patient during surgical procedures Maintenance of therapeutic environment in O.T. Standard Safety measures Infection control; fumigation, disinfection and sterilization
- Biomedical waste management • Prevention of accidents and hazards in O.T Anaesthesia • Types
- Methods of administration Effects and Stages Equipments • Drugs Cardio Pulmonary Resuscitation (CPR)
- Pain management techniques • Legal Aspects

**Continuous Assessment Pattern**

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTEI+MTEII)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
15	5+5	75	100

<b>Name of The Course</b>	<b>Community Health Nursing - I</b>			
<b>Course Code</b>	<b>BSCN2004</b>			
<b>Prerequisite</b>	<b>10+2 PCB 55%,</b>			
<b>Corequisite</b>	<b>Community Health Nursing lab with charts, posters, log book</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	3	0	0	3

### Course Objectives:

This course is designed for students to appreciate the principles of prevention, promotion and maintenance of health for individuals, families and community that will help to identify communicable and non-communicable diseases and participate in family welfare programs at different community settings.

### Course Outcomes

<b>CO1</b>	<b>Describe concept, dimensions and determinants of health</b>
<b>CO2</b>	<b>Explain, concept, scope, uses, methods and approaches of epidemiology.</b>
<b>CO3</b>	<b>Elaborate epidemiology and nursing management of common communicable disease and role of nurse in prevention and control.</b>
<b>CO4</b>	<b>Describe epidemiology and nursing management of non communicable diseases.</b>
<b>CO5</b>	<b>Describe the concepts and scope of demography and identify the impact of population explosion and methods of population control</b>

**Text Book** (s)1. Park - A Textbook of Social and Preventive Medicine, 2015, Banarsidas Bhanot  
2. Simrat - Community Health Nursing – I for B.Sc Nursing students, 2013, Lotus

**Reference Book** (s) 1. Allender – Community Health Nursing, 2009,LWW  
2. Stanhope – Community Health Nursing,2008,Elsevier  
3. Basvanthappa B T- Essentials of Community Health Nursing,2011 , Jaypee  
4. Gulani - Community Health Nursing(principles and practice), 2012, Kumar

### Course Content:

<b>UNIT-1 INTRODUCTION</b>	<b>2 Hours</b>
Community Health Nursing : Definition, concept and Dimensions of health, Promotion of health, Indicators of health, Maintenance of health	
<b>UNIT- 2 DETERMINANTS OF HEALTH</b>	<b>20 Hours</b>
Eugenics, Environment, Acts regulating environment, Bacterial, Viral Agents, Arthropods and rodents, Food Hygiene and Acts regulating Food Hygiene, Drug cosmetic Act, Marriage system- custom, Taboos, Life Style, Dietary pattern, Financial Management	
<b>UNIT-3 EPIDEMIOLOGY</b>	<b>10 Hours</b>
Definition<concept, aims, scope, uses and terminology used in epidemiology, Dynamics of disease transmission, Epidemiological triad, Morbidity and mortality measurements, Levels of prevention, Methods of Epidemiology	
<b>UNIT-4 EPIDEMIOLOGY AND NURSING MANAGEMENT OF COMMUNICABLE DISEASES</b>	<b>25 Hours</b>
Respiratory infections- Chicken pox, Measles, Rubella, Influenza, Mumps, Intestinal infections, Whooping cough, Tuberculosis, ARI with pneumonia, Meningococcal meningitis, Cholera, Poliomyelitis, Diarrhoeal Diseases, Typhoid fever, Food poisoning, Zoonoses, Arthropod infections, Dengue Malaria, Filariasis, Ant Hoursax, Typhus fever, Scrub typhus, Murine typhus, Hookworm infection, Leismaniasis, Ascariasis, Trachoma, Leprosy, Rabies, STD & RTI, HIV/AIDS	

<b>UNIT-5 EPIDEMIOLOGY AND NURSING MANAGEMENT OF NON COMMUNICABLE DISEASES</b> <b>10 Hours</b>	
Malnutrition, Nutritional deficiencies, Anaemia, Hypertension, Diabetes Mellitus, Stroke, Rheumatic heart disease, Coronary heart disease, Blindness, accidents, Mental illness, obesity, Iodine deficiency, Epilepsy, Fluorosis, Cancer	
<b>UNIT-6 DEMOGRAPHY</b>	<b>6 Hours</b>
Definition, Concepts, Scope, Methods of Collection, Analysis and Interpretation of demographic data, Demographic rates and ratios.	
<b>UNIT-7 POPULATION AND ITS CONTROL</b>	<b>17 Hours</b>
Population Explosion and its impact on social, economic development of individual, society and country, population control: overall development: women empowerment, social, economic and educational development, Limiting family size : Promotion of small family norm, Methods : spacing Natural, biological, chemical, mechanical methods, etc , Terminal: Surgical methods.	

#### Continuous Assessment Pattern

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTEI+MTEII)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
15	5+5	75	100

<b>Name of The Course</b>	<b>Communication &amp; Educational Technology</b>			
<b>Course Code</b>	<b>BSCN2005</b>			
<b>Prerequisite</b>	<b>Knowledge regarding Importance and aspects of communication</b>			
<b>Corequisite</b>	<b>Demonstration, Group projects, Video film, charts</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	3	0	0	3

### Course Objectives:

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

### Course Outcomes

<b>CO1</b>	Review & demonstrate communication process, interpersonal relations & human relation skills in context of nursing.
<b>CO2</b>	Develop basic skill of guidance and counseling process used in nursing
<b>CO3</b>	Describe philosophy, principles, teaching-learning process & various methods used in teaching in classroom, hospitals and community setting.
<b>CO4</b>	Demonstrate teaching skills using various teaching methods in clinical, classroom & community settings.
<b>CO5</b>	Demonstrate the preparation & used of different types of educational media in teaching effectively.
<b>CO6</b>	Demonstrate & develop various innovative assessment strategies to assess knowledge, skills and attitudes.
<b>CO7</b>	Prepare students to use & plan IEC activities by using various methods & medias to educate individuals, groups & community at large.

### Text Book (s)

1. Sankar Narayanan – Education & Communication Technology, 2007, Brainfill
2. Young – Teaching Nursing, 2008, LWW
3. K.P Neeraja – Nursing Education, 2008, Jaypee

### Reference Book (s)

1. Bosek – Ethical Component of Nursing Education, LWW
2. Mariner – Teaching Nursing, 2008, Elsevier
3. Smith - The Legal, Professional and Ethical Dimensions of Higher Education, Kluwer
4. Keating – Curriculum Development Nursing ,WoltersKluwer.

### Course Content:

<b>Unit-1 REVIEW OF COMMUNICATION PROCESS</b>	<b>6 Hours</b>
Process; elements And channel ,Facilitators ,Barriers and methods of overcoming Techniques	
<b>Unit-2 INTERPERSONAL RELATIONS</b>	<b>6 Hours</b>
Purpose & types ,Phases ,Barriers & methods of overcoming, Johari Window	

<b>Unit-3 HUMAN RELATIONS</b>	<b>6 Hours</b>
Understanding self ,Social behavior, motivation, social attitudes, Individual and groups, Groups & individual, Human relations in context of nursing, Group dynamics, Team work	
<b>UNIT-4 GUIDANCE &amp; COUNSELING</b>	<b>12+5 Hours</b>
Definition, Purpose, scope and need, Basic principles, Organization of counseling services, Types of counseling approaches ,Role and preparation of counselor, Issues for counseling in nursing: students and practitioners, Counseling process — steps & techniques, tools of counselor ,Managing disciplinary problems, Management of crisis & referral	
<b>UNIT-5 PRINCIPLES OF EDUCATION &amp; TEACHING LEARNING PROCESS</b>	<b>6 Hours</b>
Education: meaning, philosophy, aims, functions & principles, Nature and Characteristics of learn, Principles and maxims of teaching, Formulating objectives; general and specific, Lesson planning, Classroom management.	
<b>UNIT-6 METHODS OF TEACHING</b>	<b>11+10 Hours</b>
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.	
<b>UNIT-7 EDUCATIONAL MEDIA</b>	<b>11+8 Hours</b>
Purposes and types of A.V. Aids, Principles & Sources etc., Graphic aids: chalk board, chart, graphs, posters, flash cards, flannel graph, bulletin, cartoon, 3 Dimensional Aids: Objects, Specimens, Models, Puppets, Printed Aids: Pamphlets & leaflets. Projected Aids: Slides, OHP, Films, TV, VCR/ VCD, Camera, Microscope, LCD. Audio Aids: Tape recorder, public address system. Computer.	
<b>UNIT-8 ASSESSMENT</b>	<b>6+7 Hours</b>
Purpose and scope of evaluation and 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 Check List, Practical Exam, Viva, Objective Structured clinical examination (OSCE) Assessment of attitude: Attitude scales.	
<b>UNIT-9 INFORMATION, EDUCATION &amp; COMMUNICATION FOR HEALTH (IEC)</b>	<b>6 Hours</b>
Health behavior & health education, Planning for health education, Health education with individuals, groups & communities, Communicating health messages, Methods & media for communicating health messages, Using mass media	

### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTEI+MTEII)	End Term Exam (ETE)	Total Marks
15	5+5	75	100



<b>Name of The Course</b>	<b>Medical Surgical Nursing-1</b>			
<b>Course Code</b>	<b>BSCN2006</b>			
<b>Prerequisite</b>	<b>Basic Nursing procedures</b>			
<b>Corequisite</b>	<b>Med Surg lab with models, charts, log book, procedure manual, Practice sessions, Video film, Group projects</b>			
<b>Antirequisite</b>	<b>NA</b>			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	0	0	15	15

### Course Objectives:

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

### Course Outcomes

<b>CO1</b>	Develop skills in providing nursing care to adult patients with medical and surgical conditions concerning all systems of human body and prepare them for home care.
<b>CO2</b>	Identify instruments and equipments used for common surgical and medical procedures in the wards, operation theatre and critical care units.
<b>CO3</b>	Develop skills in advanced nursing procedures to practice in all medical and surgical conditions including emergencies and critical care settings.
<b>CO4</b>	Develop skills in infection control practices and bio medical waste management to prevent nosocomial infection in the hospital and community settings.

### Text Book (s)

1. Smeltzer – Brunner & Suddharth Textbook of Medical Surgical Nursing, 2010,
2. LWW Black – Medical Surgical Nursing,2009,Elsevier
3. Jacob–Clinical Nursing Skills& Procedures, 2008,Jaypee
4. LWW – Lippincott’s Nursing Procedure, 2008, LWW

### Reference Book (s)

1. Lewis – Medical Surgical Nursing,2008,Elsevier
2. Webber – Health assessment In Nursing ,2010,WK
3. Nettina – Lippincott manual of Nursing Practice,2009,LWW
4. Carpenito – Nursing Care Plans & Documentation Carpenito – Nursing Diagnosis ,2009,LWW
5. Taylor – Fundamentals of Nursing, 2007, LWW
6. Kozier – Fundamentals of Nursing ,2007,Pearson
7. Potter – Basic Nursing ,2008,Elsevier
8. Lynn – Taylor’s Clinical Nursing Skills,2008,LWW

<b>Unit-1 Introduction</b>	<b>180 Hours</b>
General Medical Ward (Respiratory. Endocrine, Renal,)	
Assessment of the Patient Taking history Perform general and specific physical examination.	
Identify alterations and deviations• Practice medical surgical asepsis- Standard safety measures Administer	

<p>medications Oral, IV, IM, Subcutaneous• IV therapy IV canulation Maintenance and monitoring Oxygen therapy by different methods• Nebulization Chest physio therapy Naso gastric feeding Assist in common diagnostic</p> <p>Perform Assist in therapeutic procedures Blood and component therapy T Hoursoat Suctioning Collect specimens for common investigations. Maintain elimination Caricaturisation Bowel wash Enema Urinary drainage Maintain Intake, output and documentation Counsel and teach related to specific disease conditions</p>
<p><b>Unit-2</b> <span style="float: right;"><b>180 Hours</b></span></p> <p>General Surgical Ward (GI, Urinary, CTVS)</p> <ul style="list-style-type: none"> <li>• Practice medical surgical asepsis- Standard safety measures• Pre operative preparation of patients Post operative care — Receiving Pt, assessment, monitoring, care,Care of wounds and drainage Suture removal</li> <li>• Ambulation and exercise Naso gastric aspiration Care of chest drainage Ostomy care Gastrostomy Colostomy Enterostomy Blood and component therapy Practice universal precautions</li> </ul>
<p><b>Unit-3</b> <span style="float: right;"><b>150 Hours</b></span></p> <p><b>Cardiology ward</b></p> <p>Physical examination of the 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</p>
<p><b>Unit-4</b> <span style="float: right;"><b>30 Hours</b></span></p> <p><b>Skin &amp; Communicable disease Ward</b></p> <p>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 disease</p>
<p><b>Unit-5</b> <span style="float: right;"><b>80 Hours</b></span></p> <p><b>Orthopaedic</b></p> <p>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 living Ambulation Teach and counsel patients and families</p>
<p><b>Unit-6</b> <span style="float: right;"><b>70 Hours</b></span></p> <p><b>Operation theatre</b></p> <p>Scrubbing, gowning, gloving Identify instruments, suturing materials for common operations Disinfection, Carbolization, 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</p>
<p><b>Unit-7</b> <span style="float: right;"><b>5 Hours</b></span></p> <p><b>ICU,CCU, CARDIAC OT.</b></p> <p>Assist in arterial puncture for blood gas analysis.Perform ECG and interpret accordingly.Conduct and analysis pulse oximetry.Care with artificial airway.Assist in endotracheal intubation.Setting up ventilator,Giving care in ventilator.</p>

### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTE1+MTE2)	End Term Exam (ETE)	Total Marks
100	NA	100	200

<b>Name of The Course</b>	<b>Community Health Nursing – I Practical</b>			
<b>Course Code</b>	<b>BSCN2007</b>			
<b>Prerequisite</b>	<b>10+2 PCB 55%</b>			
<b>Corequisite</b>	<b>Community Health Nursing lab with charts, posters, log book</b>			
<b>Antirequisite</b>	<b>NA</b>			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	0	0	3	3

### Course Objectives:

This practical experience is designed for students to apply the principles of prevention, promotion and maintenance of health by educating individuals, families and community. This practical exposure will also provide students a base to participate in different health clinics and practice primary health care at primary health centre and in community setting.

### Course Outcomes

<b>CO1</b>	Build and maintain rapport with the health care team in the community
<b>CO2</b>	Identify demographic characteristics, health determinants and community health resources.
<b>CO3</b>	Diagnose health needs of individuals, families and community by conducting survey and plan health care activities.
<b>CO4</b>	Provide primary health care in primary health centers, sub centers and MCH centers and community hospitals and also educate people about healthy life style for health promotions.

### Text Book (s)

1. Park - A Textbook of Social and Preventive Medicine, 2015, Banarsidas Bhanot
2. Simrat - Community Health Nursing – I for B.Sc Nursing students, 2013, Lotus
3. Sunil & Ramendra. Clinical case record for Community Health Nursing, 2015, Kumar
4. Vijay. Cumulative Record of Clinical/Practical Experiences for Basic B.Sc. Nursing (As per the New Syllabus of Indian Nursing Council), 2012, Kumar

### Reference Book (s)

1. Allender – Community Health Nursing, 2009, LWW
2. Stanhope – Community Health Nursing, 2008, Elsevier
3. Basvanthappa B T- Essentials of Community Health Nursing, 2011, Jaypee
4. Gulani - Community Health Nursing (principles and practice), 2012, Kumar
5. Suresh. Community Nursing Procedure Manual, 2016, CBC

<b>Unit-1 Community Health posting/Primary Health Centre Hours</b>	<b>135</b>
Community Health Nursing <ul style="list-style-type: none"> <li>• Introduction- Use Techniques of IPR</li> <li>• Health Determinants</li> <li>• History taking</li> <li>• Physical Examination</li> <li>• Sample collection</li> <li>• Performing lab tests</li> <li>• Administer vaccines and medications to adults</li> <li>• Counsel and teach • individual, family and community</li> </ul>	

### Continuous Assessment Pattern

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTE)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
NA	NA	NA	NA

## BSC NURSING 3<sup>RD</sup> YR

<b>Name of The Course</b>	Medical and surgical nursing ii			
<b>Course Code</b>	BSCN3001			
<b>Prerequisite</b>	Knowledge regarding MSN-I			
<b>Corequisite</b>	<b>Med Surg lab with models, charts, log book, procedure manual</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	4	0	0	4

### Course Objectives:

1. To enable students gain knowledge etiology, clinical manifestations for managing patient with eye and ENT disorders.
2. To enable students to understand neurological disorders and their management.
3. To enable students to understand the concept of female reproductive system & concepts of reproductive health and family welfare programme and manage patients with disorders of reproductive system.
4. To enable students to provide nursing care of patients with Burns, reconstructive surgeries and various types of malignancies & various geriatric conditions.
5. To enable students to help patients in emergency, critical care units and disaster situations.
6. To enable students to apply knowledge of medical surgical using in providing patient care in the hospital and community settings with all the conditions.

### Course Outcomes

<b>CO1</b>	Explain and identify etiology, pathophysiology, clinical manifestations, diagnostic measures, management and prevention of complications of adult patients suffering with various medical disease conditions
<b>CO2</b>	Explain and identify etiology, pathophysiology, clinical manifestations, diagnostic measures, management and prevention of complications of adult patients suffering with various surgical conditions
<b>CO3</b>	Describe and identify the concepts, needs, problems (physical, social, economical, psychological, and spiritual) of elderly and role of nurse and society in taking care of elderly patient.
<b>CO4</b>	Describe the role of nurse in disaster management and management of common emergency conditions in hospital and community settings.
<b>CO5</b>	Demonstrate the organization set up of critical care unit and role of nurse in managing critically ill patients

<b>CO6</b>	Describe and identify the occupational and industrial health problems of workers and role of nurse in managing these disease conditions.
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**Text Book (s)**

1. Smeltzer – Brunner & Suddharth Textbook of Medical Surgical Nursing, 2010,
2. LWW Black – Medical Surgical Nursing,2009,Elsevier

**Reference Book (s)**

1. Lewis – Medical Surgical Nursing,2008,Elsevier
2. Webber – Health assessment In Nursing ,2010,WK
3. Nettina – Lippincott manual of Nursing Practice,2009,LWW
4. Carpenito – Nursing Care Plans & Documentation Carpenito – Nursing Diagnosis ,2009,LWW

<b>Unit-1 Nursing management of Patient with disorders of Ear Nose and T Hoursoat</b>	<b>15 Hours</b>
Review of anatomy and physiology of the Ear Nose and T Hoursoat, Nursing Assessment-History and Physical assessment, Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of Ear Nose and T Hoursoat disorders: External ear: deformities otalgia, foreign bodies, and tumors Middle Ear- Impacted wax, Tympanic membrane perforation, otitis media, otosclerosis, mastoiditis, tumours, Inner ear- Meniere’s Disease, labyrinthitis, ototoxicity, tumors, Upper airway infections — Common cold, sinusitis, ethinitis, rhinitis, pharyngitis, tonsillitis and adenoiditis, peritonsilar abscess, laryngitis Upper respiratory airway —epistaxis, Nasal obstruction, laryngeal, obstruction, cancer of the larynx-Cancer of the oral cavity, Speech defects and speech therapy, Deafness -Prevention, control and rehabilitation Hearing Aids, implanted hearing devices Special therapies nursing procedures Drugs used in treatment of disorders of Ear Nose and T Hoursoat Role of nurse Communicating with hearing impaired and muteness.	
<b>Unit-2 Nursing management of patient with eye disorders</b>	<b>15 HOURS</b>
Review of anatomy and physiology of the eye-Nursing Assessment-History and Physical assessment, Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities, medical & surgical management of eye disorders, Refractive errors, Eyelids-infection, tumours and deformities, Conjunctiva- inflammation and infection, bleeding, Cornea- inflammation and infection, Lens-Cataracts, Glaucoma, Disorder of the urinary tract, Ocular tumours, Disorders of posterior chamber and retina: Retinal and vitreous problems, Retinal detachment, Ocular emergencies and their prevention Blindness National blindness control. Program Eye Banking, Eye prostheses and Rehabilitation Role of a nurse Communication with visually impaired Patient, Eye camps Special therapies Nursing procedures Drugs used in treatment of disorders of eye.	
<b>Unit-3 Nursing management of patient with neurological disorder</b>	<b>16 Hours</b>

Review of anatomy and physiology of the neurological system: Nursing Assessment-History and Physical and neurological assessment and Glasgow coma scale • Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of neurological disorders, Congenital malformations, Headache Head Injuries Spinal Injuries: Paraplegia Hemiplegia, Quadraplegia, Spinal cord compression herniation of intervertebral disc, Tumors of the brain & spinal cord Intra cranial and cerebral aneurysms Infections: Meningitis, Encephalitis, Brain abscess, neurocysticercosis, Movement disorders: Chorea Seizures, Epilepsies Cerebro Vascular Accidents (CVA) Cranial, Spinal Neuropathies — Bell's palsy, trigeminal neuralgia, Peripheral Neuropathies; Guillain Barr'e Syndrome Myasthenia gravis Multiple sclerosis Degenerative diseases Delirium, Dementia Alzheimer's disease - Parkinson's disease, Management of unconscious, patients and patients with stroke • Role of the nurse in communicating with patient having neurological deficit, Rehabilitation of patients with neurological deficit, Role of nurse in long stay facility (institutions) and at home Special therapies Nursing procedures Drugs used in treatment of neurological disorders.

**Unit-4 Nursing management of patients with disorders of female reproductive system 16 Hours**

Review of anatomy and physiology of the female reproductive system Nursing Assessment-History and Physical assessment Breast Self Examination Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management disorder of female reproductive system Congenital abnormalities of female reproductive system, Sexuality and Reproductive Health Sexual Health Assessment Menstrual Disorders; Dysmenorrhea, Amenorrhea, Premenstrual Syndrome Abnormal Uterine Bleeding; Menorrhagia, Metrorrhagia Pelvic Inflammatory Disease-Ovarian and fallopian tube disorders; infections, cysts, tumours Uterine and cervical disorders; Endometriosis, polyps, Fibroids, Cervical and uterine tumours, uterine displacement, Cystocele/Uret Hoursocelel Rectocele Vaginal disorders; Infections and Discharges, Fistulas, Vulvur disorders; Infections, cysts, tumours Diseases of breasts; Deformities, Infections, Cysts and Tumours, Menopause and Hormonal, Replacement Therapy • Infertility, Contraception; Types Methods, Risk and effectiveness Spacing Methods, Barrier methods, Intra Uterine Devices, Hormonal, Post Conceptional Methods, Terminal methods, Sterilization, Emergency Contraception methods • Abortion -Natural, Medical and surgical abortion - MTP Act, Toxic Shock Syndrome, Injuries and Trauma; Sexual violences, Special therapies Nursing procedures Drugs used in treatment of gynaecological disorders, National family welfare programme etc.

**Unit-5 Nursing management of patients with Burns, reconstructive and cosmetic surgery 10 HOURS**

Review of anatomy and physiology of the skin and connective tissues and various deformities, Nursing Assessment-History and Physical assessment and Assessment of burns and fluid and electrolyte loss, Etiology, Classification, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of Burns and Re-constructive and Cosmetic surgery; Types of Re-constructive and Cosmetic surgery; for burns, congenital deformities, injuries and cosmetic purposes Role of Nurse Legal aspects Rehabilitation Special therapies Psycho social aspects of nursing aspects Nursing procedures, Drugs used in treatment of Burns reconstructive and cosmetic surgery

**UNIT-6 Nursing management of patients with oncological conditions 10 HOURS**

Structure & characteristics of normal & cancer cells Nursing Assessment-History and Physical assessment Prevention, Screening, Early detection, Warning signs of cancer • Epidemiology, Etiology, Classification, Pathophysiology, Staging, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of oncological conditions, Common malignancies of various body systems; Oral, larynx, lung, Stomach and Colon, Liver, Leukemias and lymphomas, Breast, Cervix, Ovary, Uterus, Sarcoma, Brain, Renal, Bladder, Prostate etc Oncological emergencies, Modalities of treatment Immunotherapy, Chemotherapy Radiotherapy, Surgical Interventions Stem cell and Bone marrow transplants Gene therapy Other forms of treatment, Psychosocial aspects of cancer. • Rehabilitation, Palliative care Symptom and Pain Management, Nutritional support, Home care, Hospice care Stoma Therapy, Special therapies Psycho social aspects • Nursing procedures

**UNIT-7 Nursing management of patient in EMERGENCY & DISASTER situations Disaster Nursing 10 HOURS**

Concepts and principles of Disaster Nursing: Causes and Types of Disaster: Natural and Man-made Earthquakes, Floods, Epidemics, Cyclones, Fire, Explosion, Accidents Violence, Terrorism; bio-chemical, War Policies related to emergency/disaster management; International, national, state, institutional Disaster preparedness: Team, Guidelines, protocols, Equipments, Resources Coordination and involvement of; Community, various govt. departments, non-Government organizations and International agencies Role of nurse: working Legal Aspects of Disaster Nursing Impact on Health and after effects; Post Traumatic Stress Disorder Rehabilitation; physical, psychosocial, Financial, Relocation, Emergency Nursing Concept, priorities, principles and Scope of emergency nursing Organization of emergency services: physical setup, staffing, equipment and supplies, protocols, Concepts of triage and role of triage nurse Coordination and involvement of different departments and facilities Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of patient with medical and surgical Emergency Principles of emergency management Common Emergencies; Respiratory Emergencies Cardiac Emergencies Shock and Hemorrhage Pain Poly-Trauma, road accidents, crush injuries, wound Bites Poisoning; Food, Gas, Drugs & chemical poisoning Seizures Thermal Emergencies; Heat stroke & Cold injuries Pediatric Emergencies Psychiatric Emergencies Obstetrical Emergencies Violence, Abuse, Sexual assault Cardio Pulmonary Resuscitation Crisis Intervention, Role of the nurse; Communication and Inter Personal Relations, Medico-Legal Aspects,

**UNIT-8 Nursing care of the elderly 10 HOURS**

Nursing Assessment-History and Physical assessment Aging; Demography; Myths and realities • Concepts and theories of aging Cognitive Aspects of Aging Normal biological aging Age related body systems changes Psychosocial Aspects of Aging Medications and elderly Stress & coping in older adults Common Health Problems & Nursing Management; Cardiovascular, Respiratory, Musculoskeletal, Endocrine, genito-urinary, gastrointestinal Neurological, Skin and other Sensory organs Psychosocial and Sexual Abuse of elderly, Role of nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual, Role of nurse for caregivers of elderly Role of family and formal and non-formal caregivers Use of aids and prosthesis (hearing aids, dentures, Legal & Ethical Issues Provisions and Programmes for elderly; privileges, Community Programs and health services; Home and institutional care.

**UNIT-9 Nursing management of patient in critical care units 10 Hours**

Nursing Assessment-History and Physical assessment Classification, Principles of critical care nursing • Organization; Physical setup, Policies, staffing norms, Protocols, equipment and supplies • Special equipments; ventilators, cardiac monitors, defibrillator, Resuscitation equipments, Infection Control Protocols, Nursing management of critically ill patient; Monitoring of critically ill patient CPR-Advance Cardiac Life support Treatments and procedures. Transitional care, Ethical and Legal Aspects Communication with patient and family Intensive care records Crisis Intervention Death and Dying-coping with Drugs used in critical care unit

**UNIT-10 Nursing management of patients adults including elderly with Occupational and Industrial Disorders 8 Hours**

Nursing Assessment-History and Physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis, diagnosis, treatment modalities and medical & surgical nursing management of occupational and industrial health disorders Role of nurse Special therapies, alternative therapies Nursing procedures Drugs used in treatment of Occupational and Industrial disorders

**Continuous Assessment Pattern**

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTE1+MTE2)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
15	05+05=10	75	100



<b>Name of The Course</b>	<b>Child health Nursing</b>			
<b>Course Code</b>	<b>BSCN3002</b>			
<b>Prerequisite</b>	<b>10+2 with PCB 55%</b>			
<b>Corequisite</b>	<b>Maternal &amp; Child Health Nursing lab with charts, posters, log book</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>

### Course Objectives:

1. To enable students to learn the modern concept of child care, its principles national policies, programs.
2. To enable students to identify the needs of children at different ages, monitor growth & development of children at different ages and appreciate role of nurse.
3. To apply knowledge in providing care to normal and high risk neonates, perform neonatal resuscitation and manage common neonatal problems.
4. To enable students to acquire knowledge of nursing management of common childhood disorders and behavioural and social problems in children.

### Course Outcomes

<b>CO1</b>	Describe the latest trends and challenges in child health care.
<b>CO2</b>	Identify growth and development, nutritional and psychological needs of children at different age groups and appreciate the preventive measure to be taken concerning child related illness.
<b>CO3</b>	Identify and differentiate between normal and sick neonates and provide nursing care as per the module of IMNCI as provided by INC.
<b>CO4</b>	Identify and demonstrate promotive, preventive, curative and rehabilitative measures for childhood disease and problems.
<b>CO5</b>	Identify and manage a child with behavioral and social problems , educate and counsel parents and make timely referral for child welfare services.

### Text Book (s)

1. Parul Dutta – Pediatric Nursing, 2014, Jaypee
2. Marlow – Textbook of Pediatric Nursing, 1996, Elsevier.

### Reference Book (s)

1. Kyle – Essentials of Pediatric Nursing, 2009, LWW.
2. Rimple Sharma – Essentials of Pediatric Nursing, 2013, Jaypee.
3. Hockenberry – Essentials of Pediatric Nursing, 2008, Elsevier.
4. Potts – Pediatric Nursing , 2007, Thomson Learning.

<b>Unit-1 Introduction Modern concepts of childcare</b>	<b>15 Hours</b>
Internationally accepted rights of the Child, National policy and legislation in relation to child health and welfare, National programmes related to child health and welfare, Agencies related to welfare services to the children, Changing trends in hospital care, preventive, promotive and curative aspects of child health, Child morbidity and mortality rates, Differences between an adult and child, Hospital environment for a sick child Impact of hospitalization on the child and family, Grief and bereavement, The role of a Child health nurse in caring for a hospitalized child, Principles of pre and post operative, care of infants and children, Child health nursing procedures.	
<b>Unit-2 The healthy child</b>	<b>20 Hours</b>
Principles of growth and development, Factors affecting growth & development, growth and development from birth to adolescence, the needs of normal children through the stages of development and parental guidance, nutritional needs of children & infants: breast feeding, exclusive breast feeding supplementary/artificial feeding and weaning, baby friendly hospital concept, accidents: causes and prevention, value of play and selection of play material, preventive immunization programme and cold chain, preventive pediatrics, care of under-five & under five clinics/well baby clinics	
<b>Unit-3 Nursing care of a neonate</b>	<b>15 Hours</b>
Nursing care of a normal new-born/ Essential new-born care, Neonatal resuscitation, nursing management of low birth weight baby, kangaroo mother care, Nursing management of a low birth baby, nursing management of common neonatal disorders, organization of neonatal unit, Identification & nursing management of common congenital malformations.	
<b>Unit-4 Integrated management of neonatal and childhood illnesses (IMNCI)</b>	<b>10 Hours</b>
Integrated management of neonatal and childhood illnesses (IMNCI)	
<b>Unit-5 Nursing management in common childhood diseases</b>	<b>20 Hours</b>
Nutritional deficiency disorders, respiratory disorders and infections, gastrointestinal infections, infestations and congenital defects and rheumatic fever, rheumatic heart disease, genitor- urinary disorders; acute glomerulonephritis, nephrotic syndrome, wilms' tumour, infection & congenital disorders, neurological infections & disorders; convulsions, epilepsy, meningitis, hydrocephalus, spina-bifida, haematological disorders, anaemias, thalassemia, ITP, leukemia, haemophilia, endocrine disorders, juvenile diabetes mellitus, orthopedic disorders: club feet, hip dislocation and fracture, disorders of skin, eye, and ears, common communicable diseases in children, their identification, nursing management in hospital, home and prevention, Child health emergencies: poisoning, foreign bodies, haemorrhage, burns and drowning, nursing care of infant and children with HIV/AIDS	
<b>Unit 6- Management of behavioural &amp; social problems in children</b>	<b>10 Hours</b>
Management of common behavioural disorders, management of common psychiatric problems, management of challenged children: mentally, physically & socially challenged, welfare services for challenged children in India, child guidance clinics	

### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTE1+MTE 2)	End Term Exam (ETE)	Total Marks
15	05+05	75	100

<b>Name of The Course</b>	Mental health Nursing			
<b>Course Code</b>	BSCN3003			
<b>Prerequisite</b>	Knowledge regarding psychology			
<b>Corequisite</b>	<b>Mental Health(Psychiatric) Nursing with, Power point, charts, log book,</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	3	0	0	3

### Course Objectives:

1. To enable students to acquire knowledge of concepts, Historical trends dimensions, Principles and determinates of Mental Health Nursing
2. To enable student to define various terms and classification used in Mental Health Nursing
3. To explain Student about the and psycho dynamics of maladaptive behaviour
4. To make Student Learn about nature, purpose and process of assessment of mental health status Examination
5. To enable student to learn and define various therapeutic communication technique
6. To explain Student about treatment modalities and therapies used in mental disorders and role of the nurse
7. To enable Students to describe the etiology, psychopathology, clinical manifestations , diagnostic criteria and management of patients with Schizop Hoursenia and other psychotic disorders
8. To enable student to learn describe the etiology, psycho- pathology, clinical manifestations , diagnostic criteria and management of mood disorder
9. To Enable student to describe the etiology, psycho- pathology, clinical manifestations , diagnostic criteria and management of patients with neurotic, stress related and somatization disorders
10. To make student acquire learning about in details of Substance abuse, Eating, Sexual and personality disorder
11. To enable student to acquire brief knowledge of Childhood and Adolescent disorders including mental deficiency
12. To make student aware about identification of psychiatric emergencies, Legal aspects( Various laws) and Community mental health nursing

## Course Outcomes

<b>CO1</b>	Describe historical development, latest trends, epidemiology, scope, legal & ethical issues in psychiatric nursing & role of nurse in caring for mentally ill patients in the hospital and community setting.
<b>CO2</b>	Define various terms used in mental health nursing and describe principles, classification, etiological factors, psychopathology, conceptual models and standards of mental health nursing practice.
<b>CO3</b>	Differentiate between neurotic and psychotic mental and organic brain syndrome & describe the etiology, psychopathology, signs and symptoms, medical management of all psychotic and neurotic disorder and Mood disorder..
<b>CO4</b>	Assess mental health status of mentally ill patient and provide nursing care based on the status
<b>CO5</b>	Identify therapeutic communication techniques, nurse patient relationship and provide therapeutic intervention and treatment modalities for mental disorders
<b>CO6</b>	Identify psychiatric emergencies and role of nurse in crisis intervention management referral with hospital and community center
<b>CO7</b>	Explain treatment modalities and therapies used in mental disorders and role of the nurse
<b>CO8</b>	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with substance use disorders.
<b>CO9</b>	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of childhood and adolescent disorders including mental deficiency
<b>CO10</b>	Describe the model of preventive psychiatry, Legal psychiatry and community mental health services and role of nurse.

### Text Book (s)

1. Townsend – Psychiatric Mental Health Nursing,2007.F.A.Davis
2. Stuart – Principles & Practice of Psychiatric Nursing,2008,Elsevier

### Reference Book (s)

1. Sreevani – Psychiatric Mental Health Nursing,2008,Jaypee
2. Shives – Basic Concepts in Psychiatric Mental Health Nursing,2007,LWW
3. KP Neeraja, Mental Health Nursing,2006Potts
4. Kappor Bimla, Mental Health Nursing, 2006

## Course Content:

<b>Unit-1 Introduction</b>	<b>5 Hours</b>
<ul style="list-style-type: none"><li>• 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.</li><li>• Mental Health Act</li><li>• National Mental health policy vis a vis National Health Policy • National Mental Health programme</li><li>• Mental health team</li><li>• Nature and scope of mental health nursing</li><li>• Role and functions of mental health nurse in various settings and factors affecting the level of nursing practice</li><li>• Concepts of normal and abnormal behaviour</li></ul>	
<b>Unit 2- Principles and Concepts of Mental Health Nursing</b>	<b>5 Hours</b>
<ul style="list-style-type: none"><li>• Definition: mental health nursing and terminology used Classification of mental disorders:</li><li>• ICD Review of personality development, defense mechanisms</li><li>• Maladaptive behaviour of individuals and groups: stress, crisis and disaster(s)</li><li>• 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 practice</li><li>• Conceptual models and the role of nurse: • Existential Model</li><li>• Psycho-analytical models</li><li>• Behavioural model Interpersonal model</li></ul>	
<b>Unit-3 Assessment of mental health status</b>	<b>08 Hours</b>
<ul style="list-style-type: none"><li>• History taking</li><li>• Mental status examination</li><li>• Mini mental status examination</li><li>• Neurological examination:</li></ul> <p>Review Investigations: Related Blood chemistry, EEG, CT &amp; MRI • Psychological tests Role and responsibilities of nurse</p>	
<b>Unit-4 Therapeutic communication and nurse-patient relationship</b>	<b>06 Hours</b>
Therapeutic communication: Types, techniques, characteristics Types of relationship, Ethics and responsibilities Elements of nurse patient contract Review of technique of IPR-Johari Window Goals, phases, tasks, therapeutic techniques Therapeutic impasse and its	
<b>Unit-5 Treatment modalities and therapies used in mental disorders</b>	<b>14 Hours</b>

<ul style="list-style-type: none"> <li>• Psycho Pharmacology</li> <li>• Psychological therapies: Therapeutic community, psycho therapy-Individual: psycho-analytical, cognitive and supportive, Family, Group, Behavioural, Play, Psycho-drama, Music, Dance, Recreational and Light therapy, Relaxation therapies: Yoga, Meditation, bio feedback</li> <li>• Alternative systems of medicine</li> <li>• Occupational therapy • Physical Therapy: electro convulsive therapy • Geriatric considerations</li> </ul> <p>Role of nurse in above therapies</p>
<p><b>Unit 6- Nursing management of patient with Schizop Hoursenia, and other psychotic disorders</b> <b>05 Hours</b></p>
<p>Classification: ICD  Etiology, psycho-pathology, types, clinical manifestations, diagnosis  Nursing Assessment-History,  Physical and mental assessment  Treatment modalities and nursing management of patients with Schizop Hoursenia and other psychotic disorders  Geriatric considerations  Follow-up and home care and  Rehabilitation</p>
<p><b>Unit 7- Nursing management of patient with mood disorders</b> <span style="float: right;"><b>05 Hours</b></span></p>
<ul style="list-style-type: none"> <li>• Mood disorders: Bipolar affective disorder, Mania depression and dysthymia etc</li> <li>• Etiology, psycho-pathology, clinical manifestations, diagnosis,</li> </ul> <p>Nursing Assessment-History, Physical and mental assessment</p>
<p><b>Unit 8- Nursing management of patient with neurotic, stress related and somatization disorders</b> <span style="float: right;"><b>8 Hours</b></span></p>
<ul style="list-style-type: none"> <li>• Anxiety disorder, Phobias, Dissociation and Conversion disorder, Obsessive compulsive disorder, somatoform disorders, Post traumatic stress disorder</li> <li>• Etiology, psycho-pathology, clinical manifestations, diagnosis Nursing Assessment-History, Physical and mental assessment</li> <li>• Treatment modalities and nursing management of patients with neurotic, stress related and somatization disorders Geriatric considerations Follow-up and home care and rehabilitation</li> </ul>
<p><b>Unit 9- Nursing management of patient with Substance use disorders</b> <span style="float: right;"><b>5 Hours</b></span></p>
<p>Commonly, used psychotropic substance: Classification, forms, routes, action, intoxication and withdrawal  Etiology of dependence:  tolerance, psychological and physical dependence, withdrawal syndrome, diagnosis,  Nursing Assessment-History, Physical, mental assessment and drug assay.  Treatment (detoxification, anti abuse and narcotic antagonist therapy and harm reduction) and nursing management of patients with substance use disorders Geriatric considerations  Follow-tip and home care and rehabilitation</p>
<p><b>Unit 10- Nursing management of patient with Personality, Sexual and Eating disorders</b> <span style="float: right;"><b>04 Hours</b></span></p>

<ul style="list-style-type: none"> <li>• Classification of disorders • Etiology, psycho-pathology, characteristics, diagnosis, • Nursing Assessment- History, Physical and mental assessment</li> <li>• Treatment modalities and nursing management of patients with Personality, Sexual and Eating disorders</li> <li>• Geriatric considerations</li> </ul> <p>Follow-up and home care and rehabilitation</p>	
<b>Unit 11- Nursing management of childhood and adolescent disorders including mental deficiency</b>	
<b>06 Hours</b>	
<p>Classification Etiology, psychopathology, characteristics, diagnosis Nursing Assessment-History, Physical, mental and IQ assessment</p> <p>Treatment modalities and nursing management of childhood disorders including mental deficiency</p> <p>Follow-up and home care and rehabilitation</p>	
<b>Unit 12- Nursing management of organic brain disorders</b>	
<b>05 Hours</b>	
<p>Classification: ICD?</p> <ul style="list-style-type: none"> <li>• Etiology, psycho-pathology, clinical features, diagnosis and Differential diagnosis (parkinsons and alzheimers)</li> <li>• Nursing Assessment-History, Physical, mental and neurological assessment • Treatment modalities and nursing management of organic brain disorders • Geriatric considerations</li> </ul> <p>Follow-up and home care and</p>	
<b>Unit 13- Psychiatric emergencies and crisis intervention</b>	
<b>06 Hours</b>	
<p>Types of psychiatric emergencies and their management</p> <p>Stress adaptation Model: stress and stressor, coping, resources and mechanism</p> <p>Grief: Theories of grieving process, principles, techniques of counseling Types of crisis Crisis Intervention:</p> <p>Principles, Techniques and Process</p> <p>Geriatric considerations Role and responsibilities of nurse</p>	
<b>Unit 14- Legal issues in Mental Health Nursing</b>	
<b>04 Hours</b>	
<ul style="list-style-type: none"> <li>• The Mental Health Act 1987: Act, Sections, Articles and their implications etc.</li> <li>• Indian Lunacy Act.1912</li> <li>• Rights of mentally ill clients</li> <li>• Forensic psychiatry</li> <li>• Acts related to narcotic and psychotropic substances and illegal drug trafficking • Admission and discharge procedures</li> </ul> <p>Role and responsibilities of nurse</p>	
<b>Unit 15- Community Mental Health Nursing</b>	
<b>04 Hours</b>	

- Development of Community Mental Health Services:
- National Mental Health Programme

Institutionalization Versus

Deinstitutionalization • Model of Preventive psychiatry: Levels of Prevention

Mental Health Services available at the primary secondary, tertiary levels including rehabilitation and

Role of nurse

- Mental Health Agencies:

Government and voluntary,

National and International • Mental health nursing issues for special populations:

Children, Adolescence, Women, Elderly, Victims of violence and abuse, Handicapped, HIV /AIDS etc.

#### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTE1+MTE 2)	End Term Exam (ETE)	Total Marks
15	05+05	75	100



<b>Name of The Course</b>	Midwifery and Obstetrical Nursing			
<b>Course Code</b>	BSCN3004			
<b>Prerequisite</b>	Knowledge regarding anatomy and physiology of reproductive system			
<b>Corequisite</b>	Maternal and child health nursing lab with dummy, Stimulators ,charts, log book, group project, Video film, Models			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	2	0	0	2

### Course Objectives:

1. To enable students to acquire knowledge of anatomy and physiology of female reproductive system.
2. To enable students to acquire knowledge of normal pregnancy and its management.
3. To understand the physiology and management of stages of labour and puerperium
4. To apply knowledge of midwifery and obstetrics nursing in care of patient at hospital and community settings

### Course Outcomes

<b>CO1</b>	Acquire knowledge regarding male and female reproductive system so as to understand the concept of midwifery and obstetrics nursing.
<b>CO2</b>	Recognize new trends and challenges in midwifery and obstetrics nursing
<b>CO3</b>	Demonstrate diagnosis and management of women during antenatal, intranatal and postnatal period of pregnancy and labor
<b>CO4</b>	Demonstrate assessment and management of normal new born baby in the hospital and community setting.

**Text Book (s):** 1. Myles. "Text book for midwives".7<sup>th</sup> edition 2004; Churchill livingstone.

2. D.C.Dutta. Text book of Obstetrics. 6<sup>th</sup> edition 2004; New central book agency.

**Reference Book (s):** 1. Orshan – Maternity Nursing ,2009,LWW

2. Ricci – Essentials of maternity nursing, 2009, Lippincotts

3. William’s Obstetrics,2009,Mcgrahill

4. Lowdermilk – Maternity Nursing,2008,Elsevier

## Course Content:

<b>Unit-1 Introduction</b>	<b>5 Hours</b>
Introduction to concepts of midwifery and obstetrical nursing, Trends in midwifery and obstetrical nursing, Historical perspectives and current trends, Legal and ethical aspects, preconception care and preparing for parenthood, Role of nurse in midwifery and obstetrical nursing, National policy and legislation in relation to maternal health and welfare, Maternal morbidity, mortality and fertility rates, perinatal morbidity and mortality rates.	
<b>Unit-2</b>	<b>10 Hours</b>
<b>Anatomy and physiology of female reproductive system and foetal development</b>	
Female pelvis — general description of the bones joints, ligaments planes of the pelvis diameters of the true pelvis, important landmarks, variations in pelvis shape. Female organs of reproduction - external genitalia, internal genital organs and their anatomical relations, musculature — blood- supply, nerves, lymphatics, pelvic cellular, tissue, pelvic peritoneum., Physiology of menstrual cycle, Human sexuality, Foetal development, Conception. Review of fertilization; implantation (embedding of the ovum), development of the embryo and placenta at term — functions, abnormalities, the foetal sac, amniotic fluid, the umbilical cord foetal circulation, foetal skull, bones, sutures and measurements. Review of Genetic	
<b>Unit-3</b>	<b>10 Hours</b>
<b>Assessment and management of pregnancy (ante-natal)</b>	
<ul style="list-style-type: none"><li>• Normal pregnancy</li><li>• Physiological changes during</li></ul>	
Pregnancy, Reproductive system, Cardio vascular system, Respiratory system, Urinary system, Gastro intestinal system, Metabolic changes, Skeletal changes, Skin changes, Endocrine system, Psychological changes, Discomforts of pregnancy, Diagnosis of pregnancy, Signs, Differential diagnosis, Confirmatory tests, Ante-natal care C Objectives, Assessment, History and physical examination, Antenatal Examination, Signs of previous child-birth, Relationship of foetus to uterus and pelvis: Lie, Attitude, Presentation, Position	
- Per vaginal examination.	
<ul style="list-style-type: none"><li>• Screening and assessment for high risk; Risk approach, History and Physical Examination, Modalities of diagnosis; Invasive &amp; Non-Invasive, ultrasonic, cardio tomography, NST, CST</li><li>• Antenatal preparation, Antenatal counseling, Antenatal exercises Q Diet, Substance use, Education for child-birth, Husband and families, Preparation for safe-confinement, Prevention from radiation, Psycho-social and cultural, aspects of pregnancy, Adjustment to pregnancy, Unwed mother, Single parent, Teenage pregnancy, Sexual violence</li></ul>	
•Adoption	

<b>Unit-4</b>	<b>12 Hours</b>
<b>Assessment and management of intra-natal period</b>	
<ul style="list-style-type: none"> <li>• Physiology of labour,,mechanism of labour, Management of labor. First stage: Signs and symptoms of onset of labour; normal and abnormal, Duration, Preparation of: Labour room, Woman, Assessment and observation of women in labour; partogram-maternal and foetal monitoring , Active management of labour, Induction of labour</li> <li>- Second stage:, Signs and symptoms; normal and abnormal, Duration, Conduct of delivery; Principles and techniques in relief and comfort in labour, Episiotomy (only if required),Receiving the new born</li> <li>- 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</li> <li>• Third stage: Signs and symptoms; normal and abnormal, Duration, Method of placental expulsion, Management; Principles and techniques. Examination of the placenta, Examination of perineum, Maintaining records and reports, Fourth Stage</li> </ul>	
<b>Unit-5</b>	<b>15 Hours</b>
<b>Assessment and management of women during post natal period</b>	
<p>Normal puerperium; Physiology, Duration  Postnatal assessment and management  Promoting physical and emotional well-being  Lactation management and Immunization  Family dynamics after child-birth, Family welfare services; methods, counseling, Follow-up  Records and reports</p>	
<b>Unit-6</b>	<b>10 Hours</b>
<b>Assessment and management of normal neonates</b>	
<p>Normal Neonate; Physiological adaptation, Initial &amp; Daily assessment, Essential newborn care; Thermal control, Breast feeding, prevention of infections,Immunization,Minor disorders of newborn and its management</p> <p>Levels of Neonatal care (level I,II, &amp; III) ,At primary, secondary and tertiary levels, Maintenance of Reports and Records</p>	

### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTE1 + MTE 2)	End Term Exam (ETE)	Total Marks
15	(5+5=10)	75	100

<b>Name of The Course</b>	Nursing research and statistics
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<b>Course Code</b>	BSCN3005			
<b>Prerequisite</b>	10+2 with PCB 55%			
<b>Corequisite</b>	Nursing research and statistics books			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	2	0	0	2

### Course Objectives:

1. To enable students to understand the importance of research in nursing.
2. To enable the students to apply concepts of research in nursing.
3. To identify various sources of review of literature.
4. To explain the use of statistics, scales of measurement and graphical presentation.

### Course Outcomes

<b>CO1</b>	Describe the concept, terminology, and steps used in nursing research process.
<b>CO2</b>	Identify research problem, state objectives and review the related literature.
<b>CO3</b>	Describe research approaches, design, sampling and Data collection techniques.
<b>CO4</b>	Analyze, Interpret and summarize the data by using descriptive and inferential statistics.
<b>CO5</b>	Communicate and utilize the research findings in Nursing Practice, education and administration.

### Text Book (s):

1. Mrs Sunanda S Roy Choudhary “Textbook of nursing research”1<sup>st</sup> edition ,KPH publishers
2. BT Basavanthappa “ Essentials of nursing research “ jaypee publishers
3. Prof Arun Kumar Jindal “Nursing research and statistics” KPH publishers

### Reference Book (s):

1. Denise F Polit “Essential of nursing research” 8<sup>th</sup> edition , Lippincott publishers.
2. Suresh K Sharma “ Nursing Research and statistics”2<sup>nd</sup> edition , Elsevier publishers
3. Elizabeth heavey “statistics for nursing “1<sup>st</sup> edition , Lippincott publishers .

<b>Unit-1 Research and research process</b>	<b>5 Hours</b>
<ul style="list-style-type: none"> <li>• Introduction and need for nursing research</li> <li>• Definition of Research &amp; nursing research</li> <li>• Steps of scientific method</li> <li>• Characteristics of good research</li> <li>• Steps of Research process – overview</li> </ul>	
<b>Unit-2 Research Problem Question</b>	<b>4 Hours</b>
<p>Identification of problem area</p> <ul style="list-style-type: none"> <li>• Problem statement</li> <li>• Criteria of a good research problem.</li> <li>• Writing objectives</li> </ul>	
<b>Unit-3 Review of literature</b>	<b>4 Hours</b>
<ul style="list-style-type: none"> <li>• Location</li> <li>• Sources</li> <li>• On line search; CINHAI, COC HOURSANE etc</li> <li>• Purposes</li> <li>• Method of review</li> </ul>	
<b>Unit-4 Qualitative and Quantitative designs</b>	<b>6 Hours</b>
<b>Unit-5 Sampling and data collection</b>	<b>8 Hours</b>
<ul style="list-style-type: none"> <li>• Definition of Population, Sample, Sampling criteria, factors influencing • sampling process, types of sampling techniques.</li> <li>• Data- why, what, from whom, when and where to collect.</li> <li>• Data collection methods and instruments:</li> </ul> <p>Methods of data collection, Questioning, interviewing, Observations, record analysis and measurement, Types of instruments, Validity &amp; Reliability of the Instrument, Pilot study, Data collection procedure</p>	
<b>Unit-6 Analysis of data</b>	<b>4 hour</b>
<p>Compilation, Tabulation, classification, summarization, presentation, interpretation of data</p>	
<b>Unit-7 Introduction to statistics</b>	<b>15 Hours</b>
<ul style="list-style-type: none"> <li>• Definition, use of statistics, scales of measurement.</li> <li>• Frequency distribution and graphical presentation of data</li> <li>• Mean, Median, Mode, Standard deviation</li> <li>• Normal Probability and tests of significance</li> <li>• Co-efficient of correlation.</li> <li>• Statistical packages and its application</li> </ul>	

**Unit-8 Communication and utilization of research****4 Hours**

Communication of research findings

Verbal report

Writing research report

- Writing scientific article/paper ,Critique review of published research ,utilization of research findings

**Continuous Assessment Pattern**

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTE1 + MTE 2)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
15	(5+5=10)	75	100

<b>Name of The Course</b>	ENVIRONMENTAL STUDIES			
<b>Course Code</b>	BSCN3006			
<b>Prerequisite</b>	10+2 with PCB 55%			
<b>Corequisite</b>	Demonstration, Group projects, Video film, charts			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	1.5	0	0	1.5

### Course Objectives:

1. Describe scope and importance of Environmental studies.
2. Describe renewable and non-renewable resources of Environmental Studies.
3. Describe the concept and functions of ecosystem
4. Describe ecosystem diversity and conservation of biodiversity
5. Describe causes, effects and measures of environmental pollutions
6. Describe social issues affecting environmental health and acts for maintaining environment
7. Describe Population growth and its effects on environment

### Course Outcomes

<b>CO1</b>	Introduce multidisciplinary nature of environment studies and need for public awareness.
<b>CO2</b>	Demonstrate natural resources and role of society and uses conservation of natural resources for sustaining life.
<b>CO3</b>	Appreciate the concept, structure function of ecosystem and biodiversity role of society in conserving biodiversity at global, natural and local level.
<b>CO4</b>	Describe various kinds and causes of environment pollution and role of society in preventing free environment.
<b>CO5</b>	Identify social issues pertaining the environment and impact of population explosion on environment and human health.

### Text Book (s)

1. A textbook of Environmental Studies for Nurses\
2. Prof. (Dr.) NV Muninarayanappa,
3. Eldo Raju & Sandeep K Raju.

### Reference Book (s)

1. medlineplus.gov>encyclopedia
2. ncbi.nlm.nih.gov>pub med

**Course Content:**

<b>Unit-1 Multidisciplinary Nature of environmental studies.</b>	<b>2 Hours</b>
Definition, Scope and importance, Need for public awareness	
<b>Unit-2 Natural resources Renewable and nonrenewable resources.</b>	<b>7 Hours</b>
Natural resources and associated problems, <b>Forest resources:</b> Use and over-exploration, deforestation and case studies .Timber extraction, Timber extraction, mining, dams and their effects on forest and tribal people, <b>Water resources:</b> Use and Over utilization of surface and ground water , floods , droughts , conflicts over water ,dam benefits and problems, <b>Mineral resources:</b> use and exploitation ,environmental effects of extracting and using mineral resources and case studies, <b>Food resources:</b> world food problems ,changes caused by agriculture and over , grazing ,effects of modern agriculture , fertilizer, pesticide problems , water logging ,salinity , case studies, <b>Energy resources:</b> growing energy needs renewable and nonrenewable energy resources , use of alternate energy sources, case studies, <b>Land resources:</b> land as a resources land degradation , man induced landslides soil erosion , and desertification, Role of an individual in the conservation of natural resources, Equitable use of resources for sustainable lifestyles.	
<b>Unit-3 Ecosystems</b>	<b>5 Hours</b>
Concept of an ecosystem, Structure and function of an ecosystem, Producers ,consumers and decomposers, Energy flow in ecosystem, Ecological succession, Food chains, food webs and ecological pyramids, Introduction , types ,characteristic feature Structure and function of the following Ecosystems: Forest ecosystem Grassland ecosystem desert ecosystemaquatic ecosystem (ponds ,stream ,lake rivers oceans ,estuaries	
<b>Unit-4 Biodiversity and Its Conservation</b>	<b>8 Hours</b>
Introduction-definition, genetic, species and ecosystem diversity, Bio geographical classification of India. Value of biodiversity: consumptive use. productive use, social, ethical, aesthetic and option values, Biodiversity at global, national and local LevelIndia as a mega-diversity nation, Hot-spots of bi diversity, T Hourseats to bio diversity :habit loss, poaching of wildlife, man-wildlife conflicts, Endangered and endemic species of India, Conservation of biodiversity: in –situ and Ex-situ conservation of biodiversity	
<b>Unit-5 Environmental Pollution</b>	<b>8 Hours</b>
Definition, Causes, effects and control measures of: Air pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear pollution Solid waste management: causes, effects and control measures of urban and industrial waste Role of an individual in the prevention of pollution, Pollution case studies Disaster management: flood, earthquakes, cyclones and land slides	
<b>Unit-6 Social issues and the Environment.</b>	<b>10 Hours</b>
From unsustainable to sustainable development. Urban problems related to energy, Water conservations,rain water harvesting, water shed management, Resettlement and rehabilitation of people. Its problems and concerns .case study. Environmental ethics: issues and possible solutions. Climate changes, global warming, acid rain, ozone layer depletion, nuclear accident, and hole cast. Case studies, Waste land reclamation. Consumerism and waste product. Environmental protection act. Air (prevention and control of pollution) act. Water (prevention and control of pollution ) Act, Wild life protection act, Forest conservation act Issues involved in the enforcement of environmental legislation, Public awareness	
<b>Unit -7 Human population and the environment</b>	<b>5 Hours</b>
Population growth,variation among nations, Population explosion- family welfare program, Environmental and human health.Human rights.Value education.HIV/AIDS Women and child welfare.Role of information technology in environment human health	



### Continuous Assessment Pattern

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTE1+MTE2)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
15	05+05=10	75	100

<b>Name of The Course</b>	Medical and Surgical Nursing II (P)			
<b>Course Code</b>	BSCN3007			
<b>Prerequisite</b>	Knowledge regarding MSN-I			
<b>Corequisite</b>	<b>Med Surg lab with models, charts, log book, procedure manual</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	0	0	15	15

### Course Objectives:

1. To enable students to provide nursing care to adult patients with various medical & surgical disorders.
2. To enable students in providing care to patients suffering from occupational disorders.
3. To enable students to identify various instruments used in common operations
4. To enable students to participate in infection control practices in the operation theatre.
5. To enable students to provide care to geriatric patients

### Course Outcomes

<b>CO1</b>	Develop skills to provide nursing care to adult patients with medical and surgical conditions concerning all systems of human body and prepare patient and family for home care.
<b>CO2</b>	Perform assessment and examination and assist with therapeutic procedure in all medical and surgical conditions, related to all systems of the human body.
<b>CO3</b>	Demonstrate advanced nursing procedures to handle, medical and surgical conditions including emergencies during trauma, disaster, war etc
<b>CO4</b>	Develop skills in infection control practices and bio medical waste management to prevent nosocomial infections in the hospital and community settings.

### Text Book (s)

1. Jacob–Clinical Nursing Skills& Procedures, 2008,Jaypee
2. LWW – Lippincott’s Nursing Procedure, 2008, LWW

### Reference Book (s)

1. Taylor – Fundamentals of Nursing, 2007, LWW
2. Kozier – Fundamentals of Nursing ,2007,Pearson
3. Potter – Basic Nursing ,2008,Elsevier
4. Lynn – Taylor’s Clinical Nursing Skills,2008,LWW

<b>Unit-1 ENT</b>	<b>30 hour</b>
Perform examination of ear, nose and t Hoursoat Assist with diagnostic procedures Assist with therapeutic procedures Instillation of drops Perform/assist with irrigations. Apply ear bandage Perform tracheotomy care Teach patients and families.	
<b>Unit-2 Ophthalmology</b>	<b>180 Hours</b>
Perform examination of eye Assist with diagnostic procedures Assist with therapeutic procedures Perform/assist with Irrigations. Apply eye bandage Apply eye drops ointments Assist with foreign body removal. Teach patients and families.	
<b>Unit-3 Neurology</b>	<b>60 Hours</b>
Perform Neurological Examination Use Glasgow coma scale Assist with diagnostic procedures Assist with therapeutic procedures Teach patients & families Participate in rehabilitation program.	
<b>Unit-4 Gynecology ward</b>	<b>30 Hours</b>
Assist with gynecological Examination Assist with diagnostic procedures: Assist with therapeutic Procedures Teach patients families Teaching self Breast Examination. Assist with PAP smear collection.	
<b>Unit-5 Burns Unit</b>	<b>25 Hours</b>
Assessment of the burns patient Percentage of burns Degree of burns. Fluid & electrolyte replacement therapy Assess Calculate Replace Record intake/output Care of Bum wounds Bathing Practice medical & Dressing Perform active & passive exercises surgical asepsis Counsel & Teach patients and families Participate in rehabilitation program.	
<b>UNIT-6 Oncology Unit</b>	<b>50 Hours</b>
Screen for common cancers-TNM Classification Assist with diagnostic Procedures Biopsies Pap smear Bone-marrow aspiration Breast examination Assist with therapeutic procedures Participates in various modalities of Treatment Chemotherapy Radiotherapy Pain management Stoma therapy Hormonal therapy Immunotherapy • Gene therapy Alternative therapy Participate in palliative care Counsel and teach patients families	
<b>UNIT-7 Critical care unit</b>	<b>50 Hours</b>
Assist in arterial puncture for blood gas analysis.Perform ECG and interpret accordingly.Conduct and analysis pulse oximetry.Care with artificial airway.Assist in endotracheal intubation.Setting up ventilator,Giving care in ventilator.	

### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTE1+MTE2)	End Term Exam (ETE)	Total Marks
50	NA	50	100

<b>Name of The Course</b>	<b>Child Health Nursing (Practical)</b>			
<b>Course Code</b>	<b>BSCN3008</b>			
<b>Prerequisite</b>	<b>anatomy and physiology, medical surgical nursing</b>			
<b>Corequisite</b>	<b>Maternal and child health nursing lab with models, dummy, charts, log book</b>			
<b>Antirequisite</b>	<b>NA</b>			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	0	0	4.5	4.5

**Course Objectives:** This course is designed for developing skills in assessment of growth and development of children and learns to identify various medical, surgical and malformations in children which will aid in performing independent nursing care of children and educate their families.

### Course Outcomes

<b>CO1</b>	Develop skills to provide nursing care to pediatric patient with medical and surgical conditions concerning all the system of human body and prepare parents and families for home care.
<b>CO2</b>	Perform assessment, examination and assist with therapeutic procedures in children with all medical and surgical conditions.
<b>CO3</b>	Demonstrate and develop skills in basic and advanced pediatric nursing procedures to handle all medical and surgical conditions including emergencies.
<b>CO4</b>	Develop skills in infection control practices and biomedical waste management to prevent nosocomial infections in children during their stay in the hospital.

### Text Book (s)

Parul – Pediatric Nursing, 2014, Jaypee

Marlow – Textbook of Pediatric Nursing, 1996, Elsevier

### Reference Book (s)

1. Padmaja – Pediatric Procedure Manual, 2014, Jaypee

2. Ghai – Essentials of Pediatrics, 2009, CBS

3. Lakshmana's – Clinical Pediatrics, Lakshmana Publications

4. Hockenberry – Wong's Nursing Care of the Infants & Children, 2007, Elsevier

<b>Unit-1</b> Pediatric Medical ward	<b>90 Hours</b>
<ul style="list-style-type: none"> <li>➤ Pediatric history taking, Physical examination and assessment of children</li> <li>➤ Administer oral, I/M &amp; IV medicine/fluids</li> <li>➤ Calculation of fluid requirements</li> <li>➤ Prepare different strengths of I.V. fluids</li> <li>➤ Apply restraints</li> <li>➤ Administer O2 inhalation by different methods</li> <li>➤ Give baby bath</li> </ul>	

<ul style="list-style-type: none"> <li>➤ Feed children by katori spoon, etc.</li> <li>➤ Collect specimens for common investigations</li> <li>➤ Assist with common diagnostic procedures</li> <li>➤ Teach mothers/parents- malnutrition, oral rehydration therapy, feeding &amp; weaning, Immunization schedule, play therapy, specific disease.</li> </ul>
<b>Unit-2 Pediatric Surgery Ward</b> <span style="float: right;"><b>90 Hours</b></span>
<ul style="list-style-type: none"> <li>➤ Calculate, prepare and administer I/V fluids</li> <li>➤ Do bowel wash</li> <li>➤ Care for ostomies- Colostomy irrigation, ureterostomy, gastrostomy, enterostomy</li> <li>➤ Urinary catheterization and drainage</li> <li>➤ Feeding</li> <li>➤ Naso-gastric</li> <li>➤ Gastrostomy</li> <li>➤ Jejunostomy</li> <li>➤ Care of surgical wounds- dressing, suture removal.</li> </ul>
<b>Unit-3 Pediatric OPD/Immunization room</b> <span style="float: right;"><b>30 Hours</b></span>
<ul style="list-style-type: none"> <li>➤ Assessment of children- Health assessment, Developmental assessment, anthropometric assessment</li> <li>➤ Immunization</li> <li>➤ Health/Nutritional Education</li> </ul>
<b>Unit-4 Pediatric medicine and surgery ICU</b> <span style="float: right;"><b>60 Hours</b></span>
<ul style="list-style-type: none"> <li>➤ Care of baby in incubator/warmer</li> <li>➤ Care of a child on ventilator</li> <li>➤ Endotracheal suction</li> <li>➤ Chest physiotherapy</li> <li>➤ Administer fluids with infusion pump</li> <li>➤ Total parenteral nutrition</li> <li>➤ Phototherapy</li> <li>➤ Monitoring of babies</li> <li>➤ Cardio pulmonary resuscitation</li> </ul>

#### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTE)	End Term Exam (ETE)	Total Marks
50	NA	50	100

<b>Name of The Course</b>	Mental health Nursing (PRACTICAL)			
<b>Course Code</b>	BSCN3009			
<b>Prerequisite</b>	Knowledge regarding psychology			
<b>Corequisite</b>	<b>Demonstration, group project, MHN practical log book</b>			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	0	0	4.5	4.5

### Course Objectives:

1. To enable student to Assess patients with mental health problems ,assist in therapy and council patient and family
2. To enable students to assess children with various mental health problems, council and educate children and their family
3. To enable students to provide nursing care for patients with various mental health Problems and assist in various in therapy
4. To enable students to identify patients with mental disorders , motivate patients for early treatment and assist for follow up clinics

### Course Outcomes

<b>CO1</b>	Develop skills in assessing, observing and assisting patient with various mental health problems & prepare patient and families for home care
<b>CO2</b>	Acquire skills in assessing adult and children's mental health status, assist in various therapies and provide need based care in mental health hospitals, and community.
<b>CO3</b>	Acquire skills in various procedure and therapies used to treat patient with all kinds of mental health problems.
<b>CO4</b>	Identify individual with mental health problem in community setting, organize awareness camps to educate and council family members, patients and community to make timely crisis intervention and referral to nearby health care services.

### Text Book (s)

1. Townsend – Psychiatric Mental Health Nursing,2007.F.A.Davis
2. Stuart – Principles & Practice of Psychiatric Nursing,2008,Elsevier

### Reference Book (s)

1. . Boyd – Psychiatric Nursing,2007,LWW
2. Kaplan – Kaplan & Sadock's Synopsis of Pyschiatry,2007,LWW

3. Shives – Basic Concepts in Psychiatric Mental Health Nursing,2007,LWW
4. Lalitha - Psychiatric Mental Health Nursing ,VMG Publishers

<b>Unit-1 <u>Psychiatric OPD</u></b>	
(Assess patients with mental health problems Observe and assist in Therapies Counsel and educate patient, and families)	<b>30 Hours</b>
History taking Perform mental status examination (MSE) Assist in Psychometric assessment Perform Neurological examination Observe and assist in therapies Teach patients and family	
<b>Unit 2- <u>Child Guidance clinic</u></b>	
(Assessment of children with various mental health problems Counsel and educate children, families and significant others )	<b>60 Hours</b>
History taking Assist in psychometric assessment Observe and assist in various therapies Teach family and significant others	
<b>Unit 3- <u>Inpatient ward</u></b>	
<b>180 Hours</b>	
Assess patients with mental health problems To provide nursing care for patients with various mental health problems Assist in various therapies Counsel and educate patients, families and significant	
<b>Others- 180 Hours</b>	
History taking Perform mental status examination (MSE) Perform Neurological examination Assist in psychometric Assessment Record therapeutic , communication Administer medications Assist in Electro- convulsive Therapy (ECT) Participate in all therapies Prepare patients for Activities of Daily	
<b>Unit 4- <u>Community Psychiatry</u></b>	
<b>30 Hours</b>	
To identify' patients with various mental disorders To motivate patients for early treatment and follow up To assist' in follow up clinic Counsel and educate patient, family and community	
Conduct case work Identify individuals with mental health problems Assists in mental health camps and clinics Counsel and Teach family members, patients and community	

### Continuous Assessment Pattern

<b>Internal Assessment (IA)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
50	50	100



<b>Name of The Course</b>	Midwifery and Obstetrical Nursing (Practical)			
<b>Course Code</b>	BSCN3010			
<b>Prerequisite</b>	Knowledge of anatomy and physiology of reproductive system			
<b>Corequisite</b>	Maternal and child health nursing lab with dummy, charts, log book, group project, Midwifery case book, Clinical posting at maternity wards			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	0	0	3	3

### Course Objectives:

1. To enable students to acquire knowledge of anatomy and physiology of female reproductive system
2. To enable students to acquire knowledge of normal pregnancy and its management.
3. To provide comprehensive care to the mother and neonates.
4. To apply knowledge of midwifery and obstetrics nursing in care of patient at hospital and community settings.

### Course Outcomes

<b>CO1</b>	Assess, educate and manage pregnant women during antenatal, intranatal and postnatal period
<b>CO2</b>	Prepare mother and family for parenthood.
<b>CO3</b>	Assess and provide nursing care to normal and normal new born.
<b>CO4</b>	Counsel and motivate mother for using family welfare services and contraceptive methods.

### Text Book (s):

1. Myles. "Text book for midwives".7<sup>th</sup> edition 2004; Churchill livingstone.
2. D.C.Dutta. Text book of Obstetrics. 6<sup>th</sup> edition 2004; New central book agency.

### Reference Book (s):

1. Orshan – Maternity Nursing, 2009, LWW
2. Ricci – Essentials of maternity nursing, 2009, Lippincotts
3. William’s Obstetrics,2009, Mcgrahill
4. Lowdermilk – Maternity Nursing, 2008, Elsevier

<p><b>Unit-1 Antenatal clinic/OPD</b></p> <ul style="list-style-type: none"> <li>➤ Antenatal history taking, Physical examination,</li> <li>➤ Recording of Weight &amp; B.P,Hb.&amp; Urine testing for sugar and albumin</li> <li>➤ Antenatal examination-abdomen and breast, Immunization</li> <li>➤ Assessment of risk status, Teaching antenatal mothers</li> <li>➤ Maintenance of Antenatal records</li> </ul>	<b>60 Hours</b>
<p><b>Unit-2 Labour room /OT</b></p> <ul style="list-style-type: none"> <li>➤ Assessment of Woman in labour</li> <li>➤ Per vaginal examinations and interpretation</li> <li>➤ Monitoring and caring of woman in labour</li> <li>➤ Maintenance of partograph,Conduct normal delivery</li> <li>➤ Newborn assessment and immediate care</li> <li>➤ Resuscitation of newborns</li> <li>➤ Assessment of risk status of newborn</li> <li>➤ Episiotomy and suturing</li> <li>➤ Maintenance of labour and birth records</li> <li>➤ Arrange for and assist with Cesarean section and care for woman&amp; baby during Cesarean</li> <li>➤ Arrange for and assist with MTP and other surgical procedures</li> </ul>	<b>150 Hours</b>
<p><b>Unit-3 Post natal Ward</b></p> <ul style="list-style-type: none"> <li>➤ Examination and assessment of mother and Baby</li> <li>➤ Identification of deviations</li> <li>➤ Care of postnatal mother and baby</li> <li>➤ Perineal care, Lactation. Management, Breast feeding,Babybath</li> <li>➤ Immunization,</li> <li>➤ Teaching postnatal mother:</li> <li>➤ Mother craft</li> <li>➤ Post natal care &amp;Exercises and Immunization</li> </ul>	<b>120 Hours</b>
<p><b>Unit-4 Newborn nursery</b></p> <ul style="list-style-type: none"> <li>➤ Newborn assessment: Admission of neonates, Feeding of at neonates ,Risk Katori, spoon,paladi, tube feeding, total parenteral nutrition</li> <li>➤ Thermal management of neonates, kangaroo mother care, care of baby in incubator</li> <li>➤ Monitoring and care of neonates, Administering medications, Intravenous therapy</li> <li>➤ Assisting with diagnostic procedure, Assisting with exchange transfusion</li> <li>➤ Care of baby on ventilator,Phototherapy,Infection control,protocols in the nursery</li> <li>➤ Teaching and counseling of parents, Maintenance of Neonatal records</li> </ul>	<b>70 Hours</b>

**Unit-5 Family planning clinic****30 Hours**

- Counseling technique
- Insertion of IUD
- Teaching on use of family planning methods
- Arrange for and Assist with family planning operations
- Maintenance of records and reports

**Continuous Assessment Pattern**

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTE1 + MTE 2)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
NA	NA	NA	NA

## BSC NURSING 4<sup>TH</sup> YEAR

<b>Name of The Course</b>	Midwifery and obstetrical nursing			
<b>Course Code</b>	BSCN4001			
<b>Prerequisite</b>	1.Knowledge regarding anatomy and physiology of reproductive system 2.Knowledge regarding normal pregnancy, labour, puerperium and newborn			
<b>Corequisite</b>	Maternal and child health nursing lab with models, dummy, charts, log book, case book			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	1.5	0	0	1.5

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

### Course Outcomes

<b>CO1</b>	Describe and identify the management of women with high risk pregnancy during Antenatal, intranatal and postnatal period.
<b>CO2</b>	Demonstrate indications, dosage, action, side effect of drugs used during pregnancy, labor and postnatal period
<b>CO3</b>	Identify and assess high risk neonates and their management
<b>CO4</b>	Appreciate the role of nurse in national family welfare programme and contraceptive methods

### Text Book (s)

1. Myles. "Text book for midwives". 7th edition 2004; Churchill livingstone.
2. D.C.Dutta. Text book of Obstetrics. 6 th edition 2004; New central book agency.
3. Orshan – Maternity Nursing, 2009,LWW
4. Ricci – Essentials of maternity nursing, 2009, Lippincotts

### Reference Book (s)

1. William's Obstetrics, 2009, Mcgrahill
2. Lowdermilk – Maternity Nursing, 2008, Elsevier

3. A Comprehensive Textbook of Midwifery and Gynecological Nursing, Third Edition, by Annama Jacob, JP publisher.

<p><b>Unit-1 High-risk pregnancy – assessment &amp; management</b></p> <ul style="list-style-type: none"> <li>• Screening and assessment - Ultrasonics, cardiotomography, NST, CST, non-invasive &amp; invasive, Newer modalities of diagnosis</li> <li>• High-risk approach <ul style="list-style-type: none"> <li>• Levels of care; primary, secondary and tertiary levels</li> </ul> </li> <li>• Disorders of pregnancy - Hyper-emesis gravidarum, bleeding in early pregnancy, abortion, ectopic - Pregnancy, vesicular mole, - Ante-partum haemorrhage</li> <li>• Uterine abnormality and displacement.</li> <li>• Diseases complicating pregnancy - Medical and surgical conditions - Infections, RTI (STD), UTI, HIV, TORCH - Gynaecological diseases complicating pregnancy, Pregnancy induced hypertension &amp; diabetes, Toxemia of pregnancy, hydramnios, Rh incompatibility &amp; Mental disorders <ul style="list-style-type: none"> <li>• Adolescent pregnancy, Elderly primi and grand multipara</li> <li>• Multiple pregnancy, Abnormalities of placenta &amp; cord</li> <li>• Intra-uterine growth retardation</li> </ul> </li> <li>• Nursing management of mothers with high-risk pregnancy Maintenance of Records and Report</li> </ul>	<p><b>10 Hours</b></p>
<p><b>Unit-2 Abnormal Labour – assessment and management</b></p> <ul style="list-style-type: none"> <li>• Disorders in labour - CPD and contracted pelvis - Malpositions and malpresentations - Premature labour, disorders of uterine actions - precipitate labour, prolonged labour</li> <li>- Complications of third stage: injuries to birth canal</li> <li>• Obstetrical emergencies and their management; - Presentation and prolapse of cord, Vasa praevia, amniotic fluid embolism, rupture of uterus, shoulder dystocia, obstetrical shock</li> <li>• Obstetrical procedures and operations; <ul style="list-style-type: none"> <li>- Induction of labour, forceps, vacuum version, manual removal of placenta, cesarean section, destructive operations</li> </ul> </li> <li>• Nursing management of women undergoing Obstetrical operations and procedures</li> </ul>	<p><b>10 Hours</b></p>
<p><b>Unit-3 Abnormalities during Postnatal Periods</b></p> <p>Assessment and management of woman with postnatal Complications: Puerperal infections, breast engorgement &amp; infections, thrombo-Embolic disorders, post- partum haemorrhage, Eclampsia and subinvolution, Psychological complications: - Post partum Blues - Post partum Depression - Post partum Psychosis</p>	<p><b>3 Hours</b></p>
<p><b>Unit-4 Assessment and management of High risk newborn</b></p> <ul style="list-style-type: none"> <li>• Admission of neonates in the neonatal intensive care units- protocols Nursing management of:- Low birth weight babies - Infections - Respiratory problems - hemolytic disorders- Birth injuries – Malformations <ul style="list-style-type: none"> <li>• Monitoring of high risk neonates</li> <li>• Feeding of high risk neonates, Organization and management of neonatal intensive care units, Infection control in neonatal intensive care units</li> <li>• Maintenance of reports and records.</li> </ul> </li> </ul>	<p><b>8 Hours</b></p>

**Unit-5 Pharmaco-therapeutics in obstetrics****4 Hours**

Indication, dosage, action, contra indication and side effects of drugs  
 Effect of drugs on pregnancy, labour & puerperium, Nursing responsibilities in the  
 Administration of drug in Obstetrics - oxytocins, antihypertensives, diuretics, tocolytic agents, anti convulsants; Analgesics and anesthetics in obstetrics. Effects of maternal medication on foetus and neonate.

**Unit-6 Family Welfare Programme****10 Hours**

- Population trends and problems in India • Concepts, aims, importance and history of family welfare programme • National Population: dynamics, policy and education
- National family welfare programme; RCH, ICDS, MCH. Safe motherhood
- Organization and administration; at national, state, district, block and village levels • Methods of contraception; spacing, temporary and permanent, Emergency contraception
- Infertility and its management
- Counseling for family welfare
- Latest research in contraception
- Maintenance of vital statistics
- Role of national, international and voluntary organizations
- Role of a nurse in family welfare programme , Training / Supervision /Collaboration with other functionaries in community like ANMs. LHVs, Anganwadi workers, TBAs (Traditional birth attendant - Dai)

**Continuous Assessment Pattern**

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTE1+MTE2)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
15	5+5	75	100

<b>Name of The Course</b>	COMMUNITY HEALTH NURSING-II			
<b>Course Code</b>	BSCN4002			
<b>Prerequisite</b>	Knowledge of community health nursing-I			
<b>Corequisite</b>	Fully Equipped Classrooms with computer, LCD Projector, Whiteboard, CHN Lab			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	3	0	0	3

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

### Course Outcomes

<b>CO1</b>	Define and demonstrate the concept, scope, principles and historical development of community health nursing
<b>CO2</b>	Describe health planning, national health policies, various health committees and health problems in India.
<b>CO3</b>	Describe the system of delivery of community health services in rural and urban area and the chain of referral system
<b>CO4</b>	Describe community health nursing approaches, concepts and roles and responsibilities of nursing personnel
<b>CO5</b>	Describe and appreciate the activities of community health nurse in assisting individuals, families and community to promote and maintain their health and make them self sufficient
<b>CO6</b>	Describe role of nurse in national health and family welfare programs and various s health schemes.
<b>CO7</b>	Explain roles and functions of various national and international health agencies and role of community health nurse.

### Text Book (s)

1. K. Park – Social and Preventive Medicine ,Banott Publishers
2. KK Gulani “ Community health nursing” 2nd edition, Kumar publishing house
3. Ravi Prakash Saxena, Community Health Nursing- II for B.Sc Nursing students, 2012
4. Neelam Kumar “ A Textbook of community health Nursing-II” 2ND edition, Pee Vee Publishers

### Reference Book (s)

1. Mary Jo Clark “Community Assessment reference guide” 5th edition , Elsevier Publication
2. Mary A Neis “ Community/Public Health Nursing” 6th edition,Elsevier Publication
- 3 Bijayalaskhmi Dash “ A comprehensive textbook of community health nursing” 1st edition, Jaypee Publications
- 4 Mary Ann Hogan “ community health nursing”1st edition , Vango publishers

### Course Content:

<b>Unit-1 Introduction</b>	<b>4 Hours</b>
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Definition, concept & scope of Community Health and Community Health Nursing

- Historical development of Community health
- Community health Nursing.
- Pre-independence
- Post-independence

**Unit-2 Health planning and policies and problems**

**6 Hours**

National health planning in India- Five Year Plans

- Various committees and commissions on health and family welfare
- Central council for health and family welfare (CCH and FW), National health policies (1983,2002)
- National population policy
- Health problems in India

**Unit-3 Delivery of community health services**

**15 Hours**

Planning, budgeting and material management of SCs , PHC and,CHC

Rural: Organization, staffing and functions of rural health services provided by government at:

- Village, Sub centre, Primary health centre, Community health center /sub divisional,Hospitals,District,State,Center
- Urban: Organization, staffing and functions of urban health services provided by government at:
- Slums,Dispensaries,Maternal and child health centers, Special Clinics , Hospitals, Corporation / Municipality /Board, Components of health services, Environmental sanitation, Health education, Vital statistics,M.C.H.-antenatal, natal, postnatal, MTP Act, female foeticide act, child adoption act
- Family Welfare, National health programmes, School health services, Occupational health,Defence services ,Institutional services, Systems of medicine and health care
- Allopathy,Indian System of Medicine and Homeopathy
- Alternative health care systems like yoga, meditation, social and spiritual healing etc
- Referral system

**Unit-4 Community health nursing approaches, concepts and roles and responsibilities of nursing**

**25 Hours**

• Approaches, Nursing theories And Nursing process, Epidemiological approach, Problem solving approach

- Evidence based approach, Empowering people to care for themselves
  - Concepts of Primary Health Care:
    - Equitable distribution
    - Community participation
    - Focus on prevention
    - Use of appropriate technology
    - Multi-sectoral approach
  - Roles and responsibilities of Community health nursing personnel in
  - Family health services
  - Information Education Communication (IEC)
  - Management Information System (Mis): Maintenance of Records & reports
  - Training and supervision of various categories of health workers
  - National Health Programmes
  - Environmental sanitation
  - Maternal and child health and Family welfare
  - Treatment of Minor ailments
  - School Health Services
  - Occupational Health
  - Organization of clinics, camps: Types, Preparation, planning, conduct and evaluation
  - Waste management in the center, clinics etc.
- Home visit: Concept, Principles, Process, Techniques: Bag technique home visit, Qualities of Community Health Nurse



**Unit-5 Job Description of Community health nursing personnel 15 Hours**

Assisting individuals and groups to promote and maintain their health

Empowerment for self care of individuals, families and groups in

A. Assessment of self and family, Monitoring growth and development, Mile stones, Weight measurement, Social development, Temperature and Blood pressure monitoring, Menstrual cycle, Breast self examination and testicles, Warning Signs of various diseases

- Tests : Urine for sugar and albumin, blood sugar

B. Seek health services for Routine checkup, Immunization Counseling, Diagnosis, Treatment, Follow up, Maintenance of health records for self and family

- Continue medical care and follow up in community for various diseases and disabilities

E. Carryout therapeutic procedures as prescribed! Required for self and family

F. Waste Management

- Collection and disposal of waste at home and community

G. Sensitize and handle social issues affecting health and development for self and family

- Women Empowerment

- Women and child abuse,

- Abuse of elders, Female Foeticide, Commercial sex workers

- Food adulteration, Substance abuse, Utilize community resources for self and family Trauma services

- Old age homes, Orphanage, Homes for physically and mentally challenged individuals, Homes for destitute

**UNIT 6 National Health & Family Welfare Programmes and the Role of Nurse 12 Hours**

National ARI Programme, Revised National Tuberculosis Control Programme (RNTCP) National Anti-Malaria Programme, National Filaria control Programme, National Guinea worm eradication Programme, National Leprosy Eradication Programme, National AIDS Control Programme, STD Control Programme, National Programme for Control of Blindness Iodine Deficiency Disorder Programme, Expanded Programme on Immunization

National Family Welfare Programme – RCH Programme

Historical Development, Organization, Administration, Research, Constraints

National Water Supply & Sanitation Programme, Minimum need programme, National Diabetics Control Programme, Polio Eradication, Pulse Polio Programme, National Cancer Control Programme, Yaws eradication programme, National Nutritional Anemia Prophylaxis Programme

, 20 Point Programme, ICDS Programme Mid-day Meal Applied Nutritional Programme, National Mental Health Programme, Health Schemes ESI, CGHS, Health Insurance

**UNIT 7 Health Agencies****5 Hours**

International - WHO, UNFPA, UNDP, World Bank, FAO, UNICEF, DANIDA, European Commission (EC), Red cross, USAID, UNESCO, Colombo Plan, ILO, CARE etc. National - Indian Red Cross, Indian Council for child welfare, Family Planning Association of India (FPAI), Tuberculosis Association India, Hindu Kush Nivaran Sangh, Central Social Welfare Board, All India women's conference, Blind Association of India etc.

**Continuous Assessment Pattern**

Internal Assessment (IA)	Mid Term Exam (MTEI+MTE II)	End Term Exam (ETE)	Total Marks
15	5+5	75	100

<b>Name of The Course</b>	Management of nursing service and education			
<b>Course Code</b>	BSCN4003			
<b>Prerequisite</b>	10+2 with PCB 55%			
<b>Corequisite</b>	organizational charts, White board, LCD projector, Log book			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	2	0	0	2

### Course Objectives:

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

### Course Outcomes

<b>CO1</b>	Acquire knowledge about principles, functions, elements and process of management in nursing.
<b>CO2</b>	Describe management of nursing services and nursing educational institutions.
<b>CO3</b>	Explain the concepts, theories and techniques of organizational behaviors and human relations in context to nursing service, management and education.
<b>CO4</b>	Participate in planning and organizing in-service education and staff development program
<b>CO5</b>	Describe ethical and legal responsibilities of a professional nurse and explain nursing practice standards.

### Text Book (s)

3. *Jogindra Vati "principles and practice of nursing management and administration".2<sup>nd</sup> edition 2004; jaypee Publications*
4. *Clement "management of nursing services and education " 2<sup>nd</sup> edition 2007, Elsevier publications*
5. *Shabnam masih"Essentials of nursing management in service and education" 2<sup>nd</sup> edition 2011, lotus publishers*

### Reference Book (s)

5. *C. Manivannam , T Latha manivannam, J Baskaran "Textbook of nursing management in service and education" 2<sup>nd</sup> edition, 2016, Atithi publishers*
6. *Anita Finkelman" Leadership and management for nurses" 2<sup>nd</sup> edition 2013, Lotus Publishers*
7. *Patricia Kelly, Janice Tazbir "Essentials of nursing leadership and management" , 3<sup>rd</sup> edition 2016, Health care publishers*
8. *Linda roussel, Patricia L Thomas, James L Harris " management and leadership for nurse administrators " 7<sup>th</sup> edition, 2016, Jones and barlett publishers*

### Course Content:

<b>Unit-1 Introduction</b>	<b>4 Hours</b>
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<b>Introduction to management in nursing</b>	
Definition, concepts and theories <ul style="list-style-type: none"> <li>• Functions of management</li> <li>• Principles of Management</li> <li>• Role of Nurse as a manager</li> </ul>	
<b>Unit-2</b>	<b>5 Hours</b>
<b>Describe the elements and process of management</b>	
Management process Planning; mission, philosophy, objectives, operational plan Staffing: philosophy, staffing study, norms, activities, patient classification systems, scheduling Human resource management; recruiting, selecting, deployment, retaining, promoting, superannuation etc Budgeting: concept, principles, types, cost benefit analysis, audit Material management: equipment and supplies Directing process, (Leading )Controlling: Quality management, Program Evaluation review technique (PERT), Bench marking, Activity Plan (Gantt Chart),	
<b>Unit-3</b>	<b>8 Hours</b>
<ul style="list-style-type: none"> <li>• Planning: Hospital and patients care units including ward management, Emergency and disaster management</li> <li>• Human resource management: Recruiting, selecting, deployment, retaining, promoting, superannuation etc             <ul style="list-style-type: none"> <li>- Recruiting, selecting , deployment, retaining , promoting, superannuation etc.</li> <li>- Categories of nursing personnel including job description of all levels</li> <li>- Patient/ population assignment and nursing care responsibilities</li> <li>- Staff development and welfare                 <ul style="list-style-type: none"> <li>• Budgeting : Proposal, projecting requirements for staff, equipments and supplies for</li> <li>• Hospital and patient care units</li> <li>• Emergency and disaster management</li> <li>• Material management , procurement , inventory control, auditing and maintenance in hospital and patient care units, emergency and disaster management</li> <li>• Directing and leading: delegation , participatory management , assignments , rotations , delegations, supervision and guidance, implement standards, policies , procedures and practices</li> <li>• Staff development and welfare, maintenance of discipline , controlling/evaluation, nursing rounds/visits, nursing protocols, manuals, quality assurance , model, documentation, records and reports, performance appraisal</li> </ul> </li> </ul> </li> </ul>	
<b>Unit-4</b>	<b>5 Hours</b>
<b>Organizational behavior and human relations:</b>	
Concepts and theories of organizational behaviors <ul style="list-style-type: none"> <li>• Review of Channels of communication, Leadership styles, Review of Motivation; concepts and theories</li> <li>• Group dynamics, Techniques of Communication; Interpersonal relationships, Human relations; Public relations in context of nursing, Relations with professional associations and employee unions and Collective bargaining</li> </ul>	
<b>Unit-5</b>	<b>5 Hours</b>
<b>In-service education</b>	
Nature & scope of in service education program, Organization of in service education	

- Principles of adult learning, Planning for in-service education program, techniques, methods & evaluation of staff education program
- Preparation of report

**Unit-6**

**10 Hours**

**Management of nursing educational institutions**

- Establishment of Nursing educational institution-INC norms and guidelines
- Co-ordination with Regulatory bodies, Accreditation, Affiliation, Philosophy! objectives  
- Organization Structure, Committees, Physical facilities, College/School, Hostel Students Selection, Admission
- Guidance and Counselling, Maintaining discipline, Faculty and staff, Selection Recruitment Job description
- Placement ,Performance appraisal, Development and welfare  
Budgeting ,Equipments and supplies: audio visual equipments, laboratory equipment, books, journals etc
  - Curriculum; Planning, implementation and evaluation, clinical facilities, transport facilities, institutional records and reports, administrative , faculty , staff and students

**Continuous Assessment Pattern**

<b>Internal Assessment (IA)</b>	<b>Mid Term Exam (MTEI+MTE II)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
50	5+5	50	100

<b>Name of The Course</b>	Midwifery and obstetrical nursing (practical)			
<b>Course Code</b>	BSCN4004			
<b>Prerequisite</b>	1. Knowledge regarding abnormal antenatal, intranatal ,postnatal and newborn assessment 2. Knowledge regarding conducting normal and abnormal delivery			
<b>Corequisite</b>	Maternal and child health nursing lab with models, dummy, charts, log book			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	0	0	3 CLINICAL	3 CLINICAL

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

**Course Outcomes**

<b>CO1</b>	Assess, educate and manage high risk pregnant women during antenatal, intranatal and postnatal period
<b>CO2</b>	Prepare high risk mother and family for parenthood.
<b>CO3</b>	Assess and provide nursing care to normal and sick new born
<b>CO4</b>	Counsel and motivate mother for using family welfare services and contraceptive methods.

**Text Book (s)**1. Myles. “Text book for midwives”.7th edition 2004; Churchill livingstone.

2.D.C.Dutta. Text book of Obstetrics. 6 th edition 2004; New central book agency

**Reference Book (s)**

1. Orshan – Maternity Nursing ,2009,LWW

2.Ricci – Essentials of maternity nursing, 2009, Lippincotts

3. William’s Obstetrics,2009,Mcgrahill

4.Lowdermilk – Maternity Nursing,2008,Elsevier

**Course Content:**

<b>Unit-1 Assessment of high risk pregnant women</b>	<b>60 Hours</b>
Assessment of risk status Antenatal history taking Physical examination, Recording of Weight & B.P, Hb.& Urine testing for sugar and albumin, Antenatal examination- abdomen and breast, Immunization, Teaching antenatal mothers, Maintenance of Antenatal records	
<b>Unit-2 Assessment of Woman in labour</b>	<b>120 Hours</b>
Per vaginal examinations and interpretation, Monitoring and caring of woman in labour, Maintenance of partograph, Conduct normal delivery, Newborn assessment and immediate care, Resuscitation of newborns. Assessment of risk status of newborn Episiotomy aid suturing, Maintenance of labour and birth records,	

Arrange for and assist with Cesarean section and care for woman& baby during Cesarean Arrange for and assist with MTP and other surgical procedures	
<b>Unit-3 Examination and assessment of mother and Baby</b>	<b>120 Hours</b>
Identification of deviations, Care of postnatal mother and baby Perineal care, Lactation. Management, Breast feeding, Babybath , Immunization, Teaching postnatal mother: Mother craft, Post natal care & Exercises Immunization	
<b>Unit-4 Newborn assessment</b>	<b>70 Hours</b>
Admission of neonates, Feeding of at neonates risk, • Katori spoon, paladi, tube feeding, total parenteral nutrition • Thermal management of neonates-kangaroo mother care, care of baby in incubator •Monitoring and care of Neonates • Administering medications. Intravenous therapy • Assisting with diagnostic procedure Assisting with exchange transfusion • Care of baby on ventilator • Phototherapy •Infection control protocols in the nursery, Teaching and counseling of parents Maintenance of Neonatal	
<b>Unit-5 Family planning clinic</b>	<b>30 Hours</b>
Insertion of IUD, Teaching on use of family planning methods, Arrange for and Assist with family planning Operations, Maintenance or records and reports	

#### Continuous Assessment Pattern

Internal Assessment (IA)	Mid Term Exam (MTE1+MTE2)	End Term Exam (ETE)	Total Marks
50	NA	50	100

<b>Name of The Course</b>	Community health Nursing -II (PRACTICAL)			
<b>Course Code</b>	BSCN4005			
<b>Prerequisite</b>	Knowledge regarding CHN -I			
<b>Corequisite</b>	Community health nursing labs, charts, community bags, log book			
<b>Antirequisite</b>	NA			
	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	0	0	2.5	2.5

### Course Objectives:

1. To enable students to Identify prevalent communicable and non communicable diseases in community
2. To enable students to acquire knowledge and Diagnose health needs of Individual, families and community
3. To understand the importance of Vital health statistics in the community
4. To encourage the students to participate in various health programs in the community

### Course Outcomes

<b>CO1</b>	Perform community survey to identify community profile, diagnose health needs and problems, plan, provide and evaluate health care and collect vital statistics
<b>CO2</b>	Participate in school health program, national health programs, family welfare services, immunization, and council and educate public towards promotion of their health.

### Text Book (s)

1. K.Park –Textbook of Social and Preventive Medicine ,Bannott Publishers
2. KK Gulani “Community health Nursing” 2<sup>nd</sup> edition , Kumar publishing house
3. Manivannan C,Latha Manivannan T,1 st edition , Jaypee Brothers Publishers

### Reference Book (s)

1. Mary Jo Clark “ Community assessment reference guide “2<sup>nd</sup> edition 2015
2. Stanhope , Marcia” Quick reference to community health nursing : Process and practice for promoting health” 3<sup>rd</sup> edition, 1992, Mosby publishers

<b>Unit-1 Community health nursing</b>	<b>135 Hours</b>
<p>Community health survey, Community diagnosis  Family care: Home adaptation of common procedures  Home visit: Bag technique  Organize and conduct clinics- antenatal, post natal, well baby clinic, camps etc  Screen manage and referrals for: High risk mothers and neonates, Accidents and emergencies  Illnesses: Physical and mental Disabilities  Conduct delivery at centre/home: episiotomy and suturing, Resuscitate newborn  School Health programme, Screen, manage, refer children  Collaborate with health and allied agencies Train and Supervise health workers  Provide family welfare services: insertion of IUD, Counsel and teach individual, family and community about: HIV, TB, Diabetes, hypertension, Mental health, adolescents, elderly health, Physically and mentally challenged individuals etc.  Collect and calculate vital health statistics  Document and maintain : Individual , family and administrative records, write reports centre, disease, national health programme/projects</p>	

<b>Unit 2- Community health posting in urban areas</b>	<b>195 Hours</b>
Integrated practice and group project-1 in each rural and urban areas	

**Continuous Assessment Pattern**

<b>Internal Assessment (IA)</b>	<b>End Term Exam (ETE)</b>	<b>Total Marks</b>
50	50	100