

PROGRAMME

**POST BASIC BACHELOR OF
SCIENCE**

FACULTY OF NURSING



Ordinance No. (V-39)

(Approved by Academic Council and applicable from 2018-2019)

**SWAMI VIVEKANAND SUBHARTI UNIVERSITY,
MEERUT**

SYLLABUS

Post Basic B.Sc. in Nursing



Indian Nursing Council

Combined Councils Building, Kotla Road, Temple Lane, New Delhi -110002

SYLLABUS

B.Sc. in NURSING (Post Basic)

Handwritten signature



published by

Indian Nursing Council

Combined Council Building, Kotla Road, Temple Lane, New Delhi-110002

Philosophy

INC believes that:

Health is a state of well-being that enables a person to lead a psychologically, socially and economically productive life. Health is not a privilege but a right of all the people. Individuals, families and communities have a responsibility towards maintaining their health.

Nursing contributes to the health services in a vital and significant way in the health care delivery system. It recognizes national health goals and is committed to participate in the implementation of National Health policies and programmes. It aims at identifying health needs of the people, planning and providing quality care in collaboration with other health professionals and community groups.

Scope of nursing practice encompasses provision of promotive, preventive, curative and rehabilitative aspects of care to people across their life span in wide variety of health care settings. Practice of nursing is based upon application of basic concepts and principles derived from the physical, biological, behavioral sciences.

Nursing is based on values of caring, and aims to help individuals to attain independence in self-care. It necessitates development of compassion and understanding of human behavior among its practitioners to provide care with respect and dignity and protect the rights of individuals & groups.

Undergraduate nursing program at the post basic level is a broad based education within an academic framework, which builds upon the skills

and competencies acquired at the diploma level. It is specifically directed to the upgrading of critical thinking skills, competencies & standards required for practice of professional nursing and midwifery as envisaged in National Health Policy 2002.

The teachers have the responsibility to be role models and create learning environment that enables students to acquire inquiry driven, self directed learning and foster an attitude of life long learning.

Under graduate nursing education program at the post basic level prepares its graduates to become exemplary citizen by adhering to code of ethics and professional conduct at all times in fulfilling personal, social and professional obligations so as to respond to national aspirations.

Aims

The aim of the undergraduate nursing program at the post basic level is to upgrade the diploma(GNM) nurses to:

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

Objectives

On completion of B.Sc. Nursing (Post-Basic) degree programme the graduates will be able to:

1. Assess health status, identify nursing needs, plan, implement and evaluate nursing care for patients/clients that contribute to health of individuals, families and communities.
2. Demonstrate competency in techniques of nursing based on concepts and principles from selected areas of nursing, physical, biological and behavioral sciences.
3. Participate as members of health team in the promotive, preventive, curative and restorative health care delivery system of the country.
4. Demonstrate skills in communication and interpersonal relationship.
5. Demonstrate leadership qualities and decision-making abilities in various situations.
6. Demonstrate skills in teaching to individuals and groups in community health settings.
7. Demonstrate managerial skills in community health settings.
8. Practice ethical values in their personal and professional life.
9. Participate in research activities and utilize research findings in improving nursing practice.
10. Recognize the need for continued learning for their personal and professional development.

POST BASIC B.SC. NURSING YEAR- I

NURSING FOUNDATION

Placement: First Year

Time Allotted: - 45 Hrs

COURSE DESCRIPTION:

This course will help students develop an understanding of the philosophy, objectives and responsibilities of Nursing as a Profession. The purpose of the course is to orient to the current concepts involved in the practices of Nursing and developments in the Nursing Profession.

OBJECTIVES

At the end of the course, the student will:

1. Identify Professional aspects of Nursing.
2. Explain theories of Nursing.
3. Identify ethical aspects of Nursing Profession.
4. Utilize steps of Nursing Process.
5. Identify the role of the Nurse in various levels of health services.
6. Appreciate the significance of quality assurance in Nursing.
7. Explain current trends in health and Nursing.

COURSE CONTENTS

UNIT I

- Development of Nursing as a Profession:
- Its philosophy
- Objectives and responsibilities of a graduate Nurse.
- Trends influencing Nursing Practices.
- Expanded role of the Nurse.
- Development of Nursing Education in India and trends in Nursing Education.
- Professional organization, career planning.
- Code of ethics & Professional conduct for Nurse

UNIT II

- Ethical, legal and other issues in Nursing.
- Concept of health and illness, effects on the person.
- Stress and adaptation.
- Health care concept and Nursing care concept.
- Development concept, needs, roles and problems of the development stages of individual newborn, infant, toddler, pre-adolescent, adolescent, adulthood, middle-age old age.

UNIT III

- Theory of Nursing practices.
- Meta-paradigm of Nursing – characterized by four central concepts i.e. Nurse, person (client/patient), health and environment.

UNIT IV

- Nursing process.
- Assessment: Tools for assessment, methods, recording.
- Planning: Teaching for planning care, types of care plans.
- Implementation: Different approaches to care, organizations and implementation of care, record.
- Evaluation: tools for evaluation, process of evaluation, types of evaluation.

UNIT V

- Quality assurance: Nursing Standards, Nursing audit, total quality management.
- Role of council and Professional bodies in maintenance of standards.

UNIT VI

- Primary health care concept:
- Community oriented Nursing
- Holistic Nursing
- Primary Nursing.
- Family oriented Nursing concept:
- Problem oriented Nursing
- Progressive patient care
- Team Nursing.

NUTRITON AND DIETICS

Placement: First Year

**Time Allotted: Theory - 45 Hrs
Practical-15 Hrs**

COURSE DESCRIPTION:

This course is designed to provide the students with a wide knowledge of dietetics in Indian setting, that the practices of teaching optimum and realistic dietary planning can become an integral part of Nursing Practices.

OBJECTIVES

At the end of the course, the student will:

1. Explain the principles and practices of nutrition and dietetics.
2. Plan therapeutic diets in different settings.
3. Identify nutritional needs of different age groups and plan diet accordingly.
4. Prepare meals using different methods utilizing cookery rules.

COURSE CONTENTS

UNIT I

- Introduction to nutrition and dietetics.
- Balanced diet, factors on which it depends.
- Factors to be considered in planning.
- Guidelines available for planning.
- Food hygiene, preparation and preservation.
- Review of nutrients – micro & macro.

UNIT II

- Introduction to diet therapy.
- Routine hospital diets.
- Therapeutic diet under each unit i.e. Cardiovascular diseases, gastrointestinal diseases, renal disorders, endocrine and metabolic disorders, allergy, infections and fevers, pre and post operative stages, deficiency diseases and malnutrition, overweight and underweight.

Unit III

- Infant and child nutrition.
- Feeding of normal infants: factors to be considered in planning nutritional requirements.
- Feeding of premature infants: factors to be considered in planning nutritional requirements.
- Supplementary feeding of infants: Advantage and method of introduction.
- Weaning, effects on mother and child.
- Psychology of infant and child feeding.
- Feeding the sick child. Diet in diseases of infancy and childhood.
- Deficiency states – Malnutrition and under nutrition.
- Feeding pre-school child: Nutritional needs, factors to be considered in planning diets. Problems in feeding.
- School lunch programme: Advantage, need in India.

Unit IV

- Community nutrition: need for community nutrition programme.
- Nutritional needs for special groups: Infant, child, adolescent, pregnant woman, lactating mother and old people.
- Substitutes for non-vegetarian foods.
- Selection of cheap and nutritious foods. Nutrition education needs and methods.
- Methods of assessing nutritional status of individual / group / community.
- Current nutritional problems and national programmes.

PRACTICUM

I. Methods of cooking and cookery rules.

1. Simple preparation of beverages, soups, cereals and pulses, eggs, vegetables, meat.
2. Menu plans.

II. Preparation of supplementary food for infants.

1. Foods for toddlers.
2. Low cost nutritious dishes for vulnerable groups.
3. Dietary case study of patient on special diet planning of low cost dietary instructions for home adaptations.
4. Planning of therapeutic diets.

BIOCHEMISTRY AND BIOPHYSICS

Placement: First Year

Time Allotted

Section A (Biochemistry)-Theory 30 hrs

Section A (Biophysics) -Theory 30 hrs

Course Description:

This course introduces the basic principles of Biochemistry and Biophysics related to Nursing.

OBJECTIVES

At the end of the course, the student will:

1. Identify the basic principles of Biochemistry and Biophysics.
2. Synthesize the knowledge of these principles in various Nursing situations.

Section A: Biochemistry

Theory – 30hrs

COURSE CONTENTS

UNIT I

- Introduction: Importance of Biochemistry in Nursing.
- Study of cell and its various components.

UNIT II

- Water and Electrolytes: Water – Sources, property & functions in human body.
- Water and fluid balance.
- Electrolytes of human body, functions, sources.

UNIT III

- Enzymes
- Mechanism of action
- Factors affecting enzyme activity
- Diagnostic applications
- Precautions for handling specimens for enzyme estimation.
- Digestion and absorption of carbohydrates, proteins and fats
- Various factors influencing the digestion and absorption, mal-absorption syndrome.

UNIT IV

- Carbohydrates: Catabolism of carbohydrates for energy purposes.
- Mitochondrial oxidation and oxidation phosphorylation.
- Fats of glucose in the body. Storage of glucose in the body, glycogenesis, glycogenolysis and neoglucogenesis, blood glucose and its regulation.
- Glucose tolerance test, hyperglycemia, hypoglycemia, glycemia.

UNIT V

- Protein: Amino acids, hormones.
- Essential amino acids. Biosynthesis of protein in the cells.
- Role of nucleic acid in protein synthesis.
- Nitrogenous constituents of urine, blood, their origin – urea cycle, uric acid formation, gout.
- Plasma proteins and their functions.

UNIT VI

- Fat: Biosynthesis of fats and storage of fats in the body.
- Role of liver in fat metabolism.
- Biological importance of important lipids and their functions
- Cholesterol and lipoprotein
- Sources, occurrence and distribution
- Blood level and metabolism
- Ketone bodies and utilization.
- Inter relationship in metabolism and cellular control of metabolic processes.

Section B: Biophysics

Theory – 30 hrs

COURSE CONTENTS

UNIT I

- Introduction: Concepts of unit and measurements.
- Fundamental and derived units.
- Units of length, weight, mass, time.

UNIT II

- Vector and scalar motion, speed, velocity and acceleration.

UNIT III

- Gravity: Specific gravity, centre of gravity, principles of gravity.
- Effect of gravitational forces on human body.
- Application of principles of gravity in Nursing.

UNIT IV

- Force, work, energy: their units of measurement.
- Type and transformation of energy, forces of the body, static forces.
- Principles of machines, friction and body mechanics.
- Simple mechanics – lever and body mechanics, pulley and traction, incline plane, screw.
- Application of these principles in Nursing.

UNIT V

- Heat: Nature, measurement, transfer of heat.
- Effects of heat on matter.
- Relative humidity, specific heat.
- Temperature scales.
- Regulation of body temperature.
- Use of heat for sterilization.
- Application of these principles in Nursing.

UNIT VI

- Light: Laws of reflection.
- Focusing elements of the eye, defective vision and correction, use of lenses.
- Relationship between energy, frequency and wavelength of light.
- Biological effects of light.
- Use of light in therapy.
- Application of these principles in Nursing.

UNIT VII

- Pressures: Atmospheric pressure, hydrostatic pressure, osmotic pressure.
- Measurements of pressures in the body
- Arterial and venous blood pressures
- Ocular pressure
- Intracranial pressure
- Application of these principles in Nursing.

UNIT VIII

- Sound: Frequency, velocity and intensity.
- Vocalization and hearing.
- Use of ultrasound. Noise pollution and its prevention.
- Application of these principles in Nursing.

UNIT IX

- Electricity and electromagnetism: Nature of electricity, voltage, current, resistance and their units.
- Flow of electricity in solids, electrolytes, gases and vacuum.
- Electricity and human body.
- ECG, EEG, EMG, ECT.
- Pace makers and defibrillation.
- Magnetism and electricity.
- M.R.I. Scanning, C.A.T scan.

UNIT X

- Atomic energy: Structure of atom, isotopes and isobars.
- Radioactivity: Use of radioactive isotopes.
- Radiation protection units and limits, instruments used for detection of ionizing radiation. X Rays.

UNIT XI

- Principles of electronics: Common electronic equipments used in patient care.

PRACTICUM

- Experiments and tests should be demonstrated wherever applicable.

PSYCHOLOGY

Placement: First Year

Time Allotted: - 60 Hrs

Practical :-15 hrs

COURSE DESCRIPTION:

This course is designed to reorient and widen the student's knowledge of fundamentals of psychology. The student is offered an opportunity to apply the theoretical concepts in the clinical setting and thereby understand the psychodynamics of patient behaviours. This course would also help the student to develop an insight into her own behaviour.

OBJECTIVES

At the end of course, the student will:

1. Apply psychological principles while performing Nursing duties.
2. Distinguish the psychological processes during health and sickness.
3. Analyze own behaviour patterns.
4. Tabulate the psychological needs of the patients for planning Nursing care.
5. Participate in psychometric assessment of the client.

COURSE CONTENTS

UNIT I

- Introduction: Definition of psychology, scope and methods of psychology.
- Relationship with other subject.

UNIT II

- Sensation, Attention and Perception: Definitions.
- Sensory processes: Normal and abnormal.
- Attention and distraction: Contributory factors.
- Characteristics of perception, Perception: normal and abnormal.

UNIT III

- Motivation: Definition and nature of motivation.
- Biological and social motives.
- Frustration and conflicts.
- Self- actualization.

UNIT IV

- Emotions: Definition of emotions, Expression and perception.
- Emotions in sickness.

UNIT V

- Personality: Definition, constituents of personality.
- Personality in sickness and Nursing.

UNIT VI

- Psychological aspects of Nursing.
- Behaviour and sickness. Psychological needs of:
 - Child and adolescents
 - Adult
 - Aged
 - Attendants
 - Chronically ill individual.

UNIT VII

- Individual differences.
- Significance of individual differences.
- Heredity and environment.
- Role of individual differences both in health and sickness.
- Implications of individual differences in Nursing.

Unit VIII

- Intelligence and abilities: Definition.
- Intelligence and abilities during sickness.
- Measurement of intelligence and abilities.

UNIT IX

- Learning: Definition, Conditions of learning.
- Laws of learning.
- Learning during health and sickness.

UNIT X

- Memory and forgetting: Definition and nature of memory.
- Memory during health and sickness.
- Forgetting during health and sickness.

UNIT XI

- Attitudes: Definition, development and modification.
- Role of attitudes in health and sickness.

UNIT XII

- Concept of mental hygiene & mental health.
- Characteristics of a mentally healthy person.
- Defence mechanisms.

PRACTICUM

1. Simple experiments on (i) perception (ii) measuring thresholds (iii) reaction time.
2. Administration of psychological tests.
3. Observation and recording data: (i) field observation (ii) interview (iii) Case study (iv) Self rating.

MICROBIOLOGY

Placement: - First Year

**Time Allotted Theory -60 hrs
Practical-30 hrs**

COURSE DESCRIPTION:

This course reorients the students to the fundamentals of Microbiology and its Various sub-divisions. It provides opportunities to gain skill in handling and use of microscope for identifying various micro- organisms. It also provides opportunities for safe handling of materials containing harmful bacteria and methods of destroying microorganisms.

OBJECTIVES

At the end of course the student will:

1. Identify common disease producing micro- organisms.
2. Explain the basic principles of microbiology and their significance in health and disease.
3. Demonstrate skill in handling specimens.
4. Explain various methods of dis-infection and sterilization.
5. Identify the role of the Nurse in hospital infection control system.

COURSE CONTENTS

UNIT I

- Structure and classification of microbes.
- Morphological types.
- Size and form of bacteria.
- Motility.
- Classification of micro-organisms.

Practical:

- Use and care of microscope.
- Common examination: Smear Blood, Mouldes, and Yeasts.

UNIT II

- Identification of micro-organisms.
- Discussion of laboratory methods.
- Diagnosis of bacterial diseases.

Practical:

- Staining techniques- gram staining, acid fast staining.
- Hanging drop preparation.

UNIT III

- Growth and nutrition of microbes.
- Temperature.
- Moisture.
- Blood.

Practical

- Preparation of media culture techniques.
- Collection, handling and transportation of various specimens.

UNIT IV

- Destruction of micro- organisms.
- Sterilization and disinfection.
- Chemotherapy and antibiotics.
- Effects of heat and cold.
- Hospital infection control procedure & role of Nurses.

Practical: Sterilization methods – Physical, Chemical and Mechanical

UNIT V

- Disease producing micro- organisms.
- Gram positive bacilli.
- Tuberculosis and leprosy.
- Anaerobes.
- Cocci.
- Spirochaete.
- Rickettsiae.

Practical: Identification and study of the following bacteria: streptococci, Pneumococci, and Staphylococci Corynebacteria, Spirochetes and gonococci. Enteric bacteria, Posting in infection control department.

UNIT VI

- Pathogenic Fungi.
- Dermatophytes.
- Systemic Mycotic infection.
- Laboratory diagnosis of Mycotic infection.

UNIT VII

- Immunity.
- Immunity and hypersensitivity - Skin test.
- Antigen and antibody reaction.
- Immunization in disease.

Practical: Demonstration of serological methods.

UNIT VIII

- Parasites and vectors.
- Characteristics and classification of parasites.
- Protozoal infection including amoebiasis.
- Helminthes infection.
- Diagnosis of parasitic infection.
- Vectors and diseases transmitted by them.

Practical: Identification of Parasites and Vectors.

UNIT IX

- Viruses.
- Classification and general character of viruses.
- Diseases caused by viruses in man and animal and their control.

UNIT X

- Micro- organisms transmitted through food.
- Food poisoning. Food borne infections.

PRACTICUM

Each student will practice in the laboratory as indicated in each unit of the courses outline.

While giving nursing care in the wards they will practice collection and processing of specimens,

prevention and control of hospital infections, sterilization, immunization, chemotherapy and

maintenance of personal and environmental hygiene. Observation visit to incinerator, posting in

CSSD and infection control department.

MATERNAL NURSING

Placement: - First Year

**Time Allotted Theory -60 hrs
Practical-240 hrs**

COURSE DESCRIPTION:

This course is designed to widen the student's knowledge of obstetrics during pregnancy, labour and puerperium. It also helps to acquire knowledge and develop skill in rendering optimum Nursing care to a child bearing mother in a hospital or community and help in the management of common gynecological problems.

OBJECTIVES

At end of the course, the student will:

1. Describe the Physiology of pregnancy, labour and puerperium.
2. Manage normal pregnancy, labour and puerperium.
3. Explain the Physiology of lactation and advice on management of breast feeding.
4. Be skilled in providing pre and post operative Nursing care in obstetric conditions.
5. Identify and manage high risk pregnancy including appropriate referrals.
6. Propagate the concept and motivate acceptance of family planning methods.
7. Teach, guide and supervise auxiliary midwifery personnel.

COURSE CONTENTS

UNIT I

- Introduction and historical review.
- Planned Parenthood.
- Maternal morbidity and mortality rates.
- Legislations related to maternity benefits, MTP acts, incentives for family planning etc.

UNIT II

- Review of the Anatomy and Physiology of female reproductive system.
- Female pelvis (normal and contracted).
- Review of Foetal development.

UNIT III

- Physiology and management of pregnancy, labour and puerperium.
- Signs and symptoms and diagnosis of pregnancy.
- Antenatal care.
- Pregnant woman with HIV/ AIDS.
- Management of common Gynaecological problems.

UNIT IV

- The new born baby.
- Care of the baby at birth including resuscitation.
- Essential newborn care:
 - Feeding
 - Jaundice and infection
 - Small & large for date babies.
 - Intensive care of the new born
 - Trauma and hemorrhage.

UNIT V

- Management of abnormal pregnancy, labour and puerperium.
- Abortion, ectopic pregnancy and vesicular mole.
- Pregnancy induced hypertension, gestational diabetes, anaemia, heart disease.
- Urinary infection, Antepartum haemorrhage.
- Abnormal labour (malposition & malpresentation):
 - Uterine inertia
 - Disorders of puerperium
- Management of engorged breast, cracked nipples, breast abscess and mastitis
- Puerperal sepsis
- Post partum haemorrhage
- Inversion and prolapsed of uterus, obstetrical emergencies
- Obstetrical operation i.e. forceps, vacuum, episiotomy, caesarean section.

UNIT VI

- Drugs in obstetrics.
- Effects of drugs during pregnancy, labour and puerperium on mother & baby.

UNIT VII

- National Welfare Programmes for Women.
- National Family Welfare Programme.
- Infertile Family.
- Problems associated with unwanted pregnancy.

- Unwed mothers.

PRACTICUM

1. The student will:

- a. Be posted in antenatal Clinic, MCH clinic, antenatal ward, labour room, postnatal ward, maternity OT, MTP room.
- b. Visit welfare agencies for woman and write observation report.
- c. Follow Nursing process in providing care to 3-6 patients.
- d. Write at least two Nursing care studies and do a presentation.
- e. Give at least one planned health teaching to a group of mothers.

2. Practices following Nursing procedures -

- a. Antenatal & Post natal examination, per vaginal exam.
- b. Conduct normal delivery, stitching of episiotomy, (for male candidate minimum conduct of 5 deliveries)
- c. Motivation of family for adopting family planning methods.
- d. Motivate family for Planned Parenthood.
- e. Assist in various diagnostic and therapeutic procedures including IUD insertion and removal.

CHILD HEALTH NURSING

Placement: - First Year

**Time Allotted Theory -60 hrs
Practical-240 hrs**

COURSE DESCRIPTION:

This course is aimed at developing an understanding of the modern approach to child care, the common health problems of children and neonates in health and sickness.

OBJECTIVES

At the end of the course, the student will:

1. Explain the modern concept of child care and the principles of Paediatric Nursing.
2. Describe the normal growth and development of children at different ages.
3. Manage sick as well as healthy neonates and children.
4. Identify various aspects of preventive Paediatric Nursing and apply them in providing Nursing care to children in hospital and community.

COURSE CONTENTS

UNIT I

- Introduction.
- Modern concept of child care.
- Internationally accepted rights of the child.
- National policy and legislations in relation to child health and welfare.
- National programmes related to child health and welfare.
- 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.
- The role of a Paediatric Nurse in caring for a hospitalized child.
- Principles of Pre and Post operative care of infants and children.
- Paediatric Nursing procedures.

UNIT II

- The healthy child.
- 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, supplementary/ artificial feeding and weaning.
- Accidents, causes and prevention.
- Value of play selection of play material.
- Preventive immunization.

UNIT III

- Nursing care of a neonate.
- Nursing care of a normal newborn.
- Neonatal resuscitation.
- Nursing management of a low birth weight baby.
- Nursing management of common neonatal disorders.
- Organization of neonatal unit. Preventive of infections in the nursery.

UNIT IV

- Nursing management in common childhood diseases.
- Nutritional deficiency disorders.
- Respiratory disorders and infections.
- Gastrointestinal infections, infestations and congenital disorders.
- Cardio vascular problem-congenital defects and rheumatic fever.
- Genito-urinary disorder – Nephrotic syndrome, Wilms' tumor, infection and congenital disorders.
- Neurological infections and disorders- convulsions, epilepsy, meningitis, hydrocephalus, spinabifida.
- Hematological disorders – Anemias, Thalassemia, ITP, Leukemia, hemophilia.
- Endocrine disorders – Juvenile Diabetes Mellitus.
- Orthopedic disorders – club foot, hip dislocation and fracture.
- Disorders of skin eye and ears.
- Common Communicable Diseases in children, their identification, Nursing management in hospital and home and prevention.
- Paediatric emergencies – poisoning, foreign bodies, haemorrhage, burns and drowning.

UNIT V

- Management of behavioural disorders in children.
- Management of challenged children:
- Mentally challenged
- Physically challenged
- Socially challenged.

PRACTICUM

The student will:

1. Be posted in Paediatric Medical and Surgical wards, OPD in hospital, health centre and neonatal units.
2. Visit a centre for handicapped children and child welfare centre and write observation report.
3. Write an observational study of normal children of various age groups in home/ nursery school/ crèche.
4. Follow Nursing process in providing care to 3-6 children.
5. Write at least two Nursing care studies and do a presentation.
6. Give two planned health teachings, one in hospital and one in OPD / health centre.
7. Practice the following Nursing procedures:
 - Taking pediatric history
 - Physical assessment of children
 - Baby bath
 - Feeding
 - Restraining.
8. Calculation of dosage of drugs and administration of medications and injections.
9. Collection of specimens.
10. Enema, bowel wash, colostomy irrigation.
11. Steam and oxygen inhalation.
12. Preparation to assist with diagnostic tests and operations.
13. Examination / Assessment of a newborn.
14. Neonatal resuscitation.
15. Care of a baby in incubator and on ventilator.
16. Photo Therapy.
17. Assist in exchange transfusion and other therapeutic procedures.

MEDICAL SURGICAL NURSING

Placement: - First Year

**Time Allotted Theory -90 hrs
Practical-270 hrs**

COURSE DESCRIPTION:

The purpose of this course is to widen the students' knowledge and develop proficiency in caring for patients with medical surgical problems. This course includes review of relevant Anatomy and Physiology, Pathophysiology in Medical-Surgical disorders and Nursing management of these conditions.

OBJECTIVES

At the end of the course, the student will:

1. Explain relevant Anatomy and Physiology of various systems of the body.
2. Explain Pathophysiology of various disorders.
3. Explain the actions, side effects and Nursing implications in administering drugs for various disorders.
4. Discuss the recent advancement in the treatment and care of patients with medical surgical conditions.
5. Develop skill in giving comprehensive Nursing care to patients following the steps of Nursing process.
6. Assist the patients and their families in identifying and meeting their own health needs.
7. Appreciate the role of the nurse in the medical surgical health term.

COURSE CONTENTS

UNIT I

- Introduction to Medical Surgical Nursing.
- Review of concepts of comprehensive Nursing care in medical surgical conditions.
- Nurse, patient and his/ her family.
- Functions of Nurse in the Outpatient Department.
- Intensive care unit.

UNIT II

- Nursing management of patient with specific problems:
- Fluid and electrolyte imbalance.
- Dyspnea and cough, Respiratory obstruction
- Fever
- Shock
- Unconsciousness
- Pain
- Acute illness
- Chronic illness
- Terminal illness
- Age related illness
- Patient undergoing surgery
- Incontinence.

UNIT III

- Nursing management of patient with Neurological and Neurosurgical conditions.
- Review of Anatomy and Physiology of the Nervous System.
- Pathophysiology, diagnostic procedures and management of.
- Cerebro-vascular accident.
- Cranial spinal and peripheral Neuropathies.
- Headache and intractable pain.
- Epilepsy.
- Infectious and inflammatory diseases and trauma of the Nervous System.
- Common disorders of the system.
- Recent advances in diagnostic and treatment modalities.
- Drugs used in these disorders.
- Tumors of brain & Spinal cord, congenital malformations, degenerative diseases.

UNIT IV

- Nursing management of patient with Cardiovascular problems.
- Review of relevant Anatomy and Physiology of Cardiovascular system.
- Pathophysiology, diagnostic procedures and management of:
- Ischemic Heart diseases
- Cardiac arrhythmias
- Congestive heart failure
- Rheumatic and other valvular heart diseases
- Endocarditis, cardiomyopathies, congenital heart diseases, hypertension, heart block

- Cardiac emergencies: Cardiac Arrest, acute pulmonary oedema, cardiac tamponade, cardiogenic shock, aneurysms and peripherovascular disorders, recent advancement in cardiology.

Unit V

- Nursing management of patient with respiratory problems.
- Review of Anatomy and Physiology of respiratory system Pathophysiology, diagnostic procedures and management of upper respiratory tract infections:
 - Bronchitis
 - Asthma
 - Emphysema, Empyema, Atelectasis, COPD
 - Bronchiectasis
 - Pneumonia
 - Pulmonary tuberculosis
 - Lung abscess
 - Pleural effusion
 - Tumours and cysts
 - Chest injuries
 - Respiratory arrest and insufficiency
 - Pulmonary embolism
 - Drugs used in the management of these patients
 - Special respiratory therapies.

UNIT VI

- Nursing management of patient with Genito-urinary problems.
- Review of Anatomy and Physiology of the Genito-urinary System
- Nephritis
- Renal calculus
- Acute renal failure
- Chronic renal failure
- End stage renal disease.
- Special procedures, dialysis, renal transplant.
- Drugs used in management of these patients.
- Congenital disorders, urinary infections.
- Benign prostate hypertrophy.

UNIT VII

- Nursing management of patients with problems of the digestive systems.
- Review of Anatomy and Physiology of gastrointestinal system and accessory organs.
- Pathophysiology, diagnostic procedures and management of :
 - G.I. Bleeding
 - Peptic ulcer

- Infections
- Acute abdomen
- Colitis, diarrhoea, dysentery & mal-absorption syndrome.
- Cholecystitis
- Hepatitis, hepatic coma and cirrhosis of liver
- Portal hypertension
- Pancreatitis
- Tumors, Hernias, Fistulas, Fissures, Hemorrhoids.
- Drugs used in the management of these patients.

UNIT VIII

- Nursing management of patients with endocrine problems.
- Review of Anatomy and physiology and Pathophysiology of patients with:
- Thyroid disorders
- Diabetes mellitus
- Diabetes insipidus
- Adrenal tumour
- Pituitary disorders
- Diagnostic procedures.
- Nursing management of patient with above problems.
- Drug used in Endocrine problems.

UNIT IX

- Nursing management of patients with musculoskeletal problems.
- Review of anatomy, Physiology and Pathophysiology:
- Arthritis Osteomyelitis, Bursitis
- Fractures, dislocation and trauma
- Prolapsed disc
- Osteomalacia and osteoporosis
- Tumor
- Amputation.
- Diagnostic procedures
- Nursing management of patients with above problems.
- Prosthesis and Rehabilitation.
- Transplant & replacement surgeries.

UNIT X

- Nursing management of patient with disorders of female reproductive tract.
- Disorder of menstruation.
- Infections of the genital tract.
- Benign and malignant tumors of the genital tract.
- R.V.F., V.V.F.
- Climateric changes and associated problems.

UNIT XI

- Nursing management of patients with Oncological disorders.

- Types of Neoplasms and related Pathophysiology.
- Diagnostic procedures.
- Modalities of treatment and nurse's role.
- Special therapies – Chemotherapy and Radiotherapy
- Preventive measures, other therapies.

UNIT XII

- Nursing management of patient with burns.
- Nursing management of patient with reconstructive surgeries.

UNIT XIII

- Nursing management of patient with common communicable diseases & STD'S.
- Nursing management of patient with immunological disorders including HIV/AIDS.

UNIT XIV

- Nursing management of patient with diseases of eye, ear, nose, throat & skin.

UNIT XV

- Nursing management of patient with blood disorders
- Review of Anatomy & Physiology of Blood & Blood products.
- Pathophysiology, diagnostic procedures and management of blood disorders:
 - Anemia
 - Leukemia
 - Bleeding disorders
 - Hemophilia
 - Purpura etc.
- Blood transfusion, safety checks, procedure and requirements. Management of adverse transfusion reaction, records for blood transfusion.
- Management and counseling of blood donors, phlebotomy procedure, and post donation management.
- Blood bank functioning and hospital transfusion committee
- Bio-safety and waste management in relation to blood transfusion.

UNIT XVI

- Nursing in emergencies.
- Cardiac emergencies.
- Trauma.
- Poisoning.
- Crisis management: Thyroid crisis, Hypertensive crisis and Adrenal crisis.

PRACTICUM

1. Students should be rotated in the selected medical & surgical areas, like Cardio Thoracic, Neurology, Urology, Orthopedics, Gynecology, Oncology, and Burns and Reconstructivesurgical units.
2. The students should be given patient assignment. They have practices patient centeredcomprehensive Nursing.
3. Each student is requested to give planned health teachings, conduct clinical teaching, casepresentation and drug study.

ENGLISH

Placement: - First Year

Time Allotted Theory -60 hrs

COURSE DESCRIPTION:

This course is designed to help the students understand and use skills of English language required for their professional work.

OBJECTIVES

After the course the student will develop:

1. Ability to speak and write grammatically correct English.
2. Effective skill in reading and understanding the English language.
3. Skill in reporting.

COURSE CONTENTS

UNIT I

- Remedial study of Grammar.
- Review of grammar, vocabulary and effective use of dictionary.
- Prepare task oriented seminars.
- Symposia and panel discussion.

UNIT II

- The ability to understand selected passage and express meaning in one's own words.
- Reading and comprehension of the prescribed books.

UNIT III

- The study of various forms of composition:
- Note taking
- Diary
- Nurse notes, Anecdotal records
- Writing of summary
- Nurses' reports on health problems.

The student will submit one sample of each item from his/her own practical experience.

UNIT IV

- Verbal communication.
- Oral reports.
- Summarizing of the discussion.
- Debate.
- Listening comprehension- film, cassette and radio.

PRACTICUM

1. The clinical experience in the wards and bed side nursing will provide opportunity for students to fulfill the objectives of learning language.
2. Assignment on writing and conversation through participation in Discussion, Debates, Seminars and Symposia. The students will gain further skill in task oriented communication.

POST BASIC B.SC. NURSING YEAR – II

SOCIOLOGY

Placement: - Second Year

Time Allotted Theory -60 hrs

COURSE DESCRIPTION:

This course is to reorient students to Sociological relation to community and social institution in India and its relationship with health, illness and Nursing.

OBJECTIVES

At the end of the course, the student will:

1. Describe Sociological concepts that are applicable to Nursing.
2. Determine role of Sociology in Nursing as related to social institutions in India.
3. Develop positive attitudes towards individual, family and community.

COURSE CONTENTS

UNIT I

- Introduction.
- Importance of study of Sociology in Nursing, relationship of Anthropology, Sociology, etc.

UNIT II

- Individual and the society.
- Socialization.
- Interdependence of the individual and society.
- Personal disorganization.

UNIT III

- Culture.
- Nature of culture.
- Evolution of culture.
- Diversity and uniformity of culture.

UNIT IV

- Social organization.
- Social groups, Crowds and Public groups, Nations, Race.
- Social Institutions: Family, Marriage, Education, Religion, Arts, Economic organization,
Political organization.
- The Urban & Rural community in India: Ecology, characteristics of the village, characteristics of the town and city.
- Social stratification: Class and Caste.

UNIT V

- Social Process.
- Process of Social Interaction: Competition, Conflict- war, Cooperation, Accommodation and Assimilation.

UNIT VI

- Social Change.
- Nature and process of Social Change: Factors influencing cultural change.
- Cultural Lag.

UNIT VII

- Social Problems.
- Social disorganization control & planning: Poverty, Population Housing, Illiteracy, Food supplies, growth of urbanization, Prostitution, Minority groups, rights of woman & children, child labour, child abuse delinquency and crime, substance abuse.

COMMUNITY HEALTH NURSING

Placement: - Second year

**Time Allotted Theory -60 hrs
Practical-240 hrs**

COURSE DESCRIPTION:

The course enables the students to understand the national health care delivery system and to participate in the delivery of Community Health Nursing.

OBJECTIVES

At the end of the course, the student will:

1. Explain the concepts of various factors contributing to health of individual, family and Community.
2. Identify the role of a Community Health Nurse.
3. Describe National Health Care delivery system.
4. Describe Epidemiological methods and principles of prevention and control of illness in the community.
5. Identify the role of personnel working in the Community Health setting.
6. Plan the work of Community Health Nursing, and supervise and train health workers.

COURSE CONTENTS

UNIT I

- Introduction to Community Health – Concepts, Principles and Elements of Primary Health Care.
- Introduction to Community Health Nursing.
- Concept of Community Health Nursing – Community Nursing process.
- Objective, Scope and Principles of Community Health Nursing.

UNIT II

- Family Health Services.
- Concept, Objective, Scope and Principles.
- Individual, Family and Community as a unit of service.
- Principles and techniques of home visiting.
- Establishing working relationship with the family.
- Working with families in relation to prevention of diseases, promotion of health.
- Care of the sick in the home, physically handicapped and mentally challenged.
- Surveillance and Monitoring.

UNIT III

- Organization and Administration of health services in India.
- National Health Policy.
- Health Care Delivery system in India.
- Health team concepts:
- Centre, State, District, Urban Health Services, Rural Health Services
- System of medicines
- Centrally sponsored health schemes
- Role of voluntary health organizations and International Health Agencies
- Role of health personnel in the community
- Public Health Legislation.

UNIT IV

- Health Education:
- Aims, Concepts and Scope of Health Education.
- National Plan for Health Education
- Communication Techniques
- Methods and media for health education programmes
- Planning for health education and role of nurse.

UNIT V

- Role of the Community Health Nurse.
- National Health Programmes:
- Maternal and child health programmes
- Family welfare and school health services
- Occupational health services.
- As a member of the health team.
- Training and supervision of health care workers.

UNIT VI

- Epidemiology
- Definition – concepts, aims, objectives, methods & principles,
- Epidemiology – theories and models.
- Application of Epidemiology, principles and concepts in community health.

UNIT VII

- Bio-Statistics and Vital Statistics.
- Introduction, definition and scope, legislation.
- Report, recording and compiling of vital statistics at the local, state, national and international level.
- Definition and methods of computing vital statistics.
- Methods of presenting data.
- Management information system.

1. Roles and responsibilities of Mid-Level Healthcare Providers (MLHP)
2. New national health programmes
3. AYUSHMAN BHARAT- The up gradation of sub-centers into of health and wellness centers, Concept of Comprehensive primary health care and key elements of CPHC, Service delivery and continuum of care and Roles of Mid-level health care providers(MLHP)
4. Diagnosing and treatment skills essential at sub-centre level using Standard treatment protocols as per national health programmes
5. Introduction to Rashtriya Bal Sureksha Karyakaram (RBSK)
6. Social mobilization skills
7. Drug dispensing
8. Programme management including supervision and monitoring
9. Investigation of an outbreak
10. Behavior change communication and soft skills
11. Integrated Disease Surveillance Project (IDSP)
12. Mother and Child Tracking System (MCTS)
13. Chikungunya
14. Organization of labour room
15. Safe child birth checklist
16. Postpartum visits by health workers
17. Family planning 2020
18. National family planning programmes
19. Food born diseases

PRACTICUM

1. Each student will prepare a community profile.
2. The student will be allotted families for gaining experience in identifying family health needs, health counselling and guidance and family budgeting for optimum health.
3. The student will participate in the activities of primary health centre.
4. Sub-centre, MCH centre.
5. Visits will be made to selected health and welfare agencies, water purification plant and sewage disposal plant, infectious disease hospital, child welfare centre, old aged homes, orphanages and handicapped hospitals.
6. Conduct health educational programmes for individual/ groups/ community.

MENTAL HEALTH NURSING

Placement: - Second Year

**Time Allotted Theory -60 hrs
Practical-240 hrs**

COURSE DESCRIPTION:

These courses enable the students to recognize and appreciate the causes, symptoms and process of abnormal human behavior. It also introduces the student to the present day treatment modalities in the light of psychological, social and cultural factors affecting human behaviour. This course helps the student to learn principles of Mental Health and Psychiatric Nursing and to develop beginning skills in the management of the mentally ill in hospital and community.

OBJECTIVES

At the end of course, the student will:

1. Identify and describe the Philosophy and Principles of Mental Health Nursing.
2. Describe the Historical Development of Mental Health and Psychiatric Nursing.
3. Classify Mental Disorders.
4. Develop skill in history taking and performing Mental status examination.
5. Describe etiological factors, Psychopathology, clinical features, diagnostic criteria and treatment methods used for mental disorders.
6. Manage the patients with various Mental disorders.
7. Communicate therapeutically with patients and their families.
8. Identify role of the Nurse in preventive psychiatry.
9. Identify the legal aspects in practice of Mental Health and Psychiatric Nursing.

COURSE CONTENTS

UNIT I

- Introduction and historical development.
- History of Psychiatry.
- Historical development of Mental Health Nursing.
- Philosophy, Principles of Mental Health Nursing and Psychiatric Nursing.
- Concept of normal and abnormal behavior.
- Role and qualities of Mental Health and Psychiatric Nurse.
- Mental Health team and functions of team members.
- Legal aspects in Psychiatry and Mental Health services.

UNIT II

- Classification and assessment of mental disorders.
- Terminologies used in Psychiatry.

- Classification of mental disorders.
- Etiological factors and psychopathology of mental disorders.
- History taking and assessment methods for mental disorders.

UNIT III

- Therapeutic communication.
- Communication process.
- Interview skills, therapeutic communication techniques. Nurse patient relationship, therapeutic impasse and its management process recording.

UNIT IV

- Management of mental disorders
- Etiological factors, psychopathology, types, clinical features, diagnostic criteria, treatment and Nursing management of patient with following disorders:
 - Neurotic disorders: Anxiety Neurosis, Depressive Neurosis, Obsessive Compulsive Neurosis, Phobic Neurosis and Hypochondriacal Neurosis, stress related and somatoform disorders.
 - Psychotic disorders: Schizophrenic form, Affective and Organic psychosis.
 - Organic Brain syndromes
 - Psychosomatic disorders
 - Personality disorders
 - Disorders of Childhood and Adolescence.

UNIT V

- Management of patients with Substance use disorders.
- Substance use and misuse.
- Dependence, Intoxication and Withdrawal
- Classification of Psychoactive Substances
- Etiological & Contributory factors
- Psychopathology
- Clinical features
- Diagnostic criteria.
- Treatment and Nursing management of patient with Substance use disorders.
- Preventive and rehabilitative aspects in substance abuse.

UNIT VI

- Management of mental sub-normality.
- Classification of mental sub-normality.
- Etiological factors, psychopathology, psychometric assessment. Diagnostic criteria and management of sub-normality.

UNIT VII

- Psychiatric emergencies.
- Types of emergencies, psychopathology, clinical features, assessment and diagnosis, treatment and Nursing management of patient with Psychiatric emergencies.
- Crisis intervention therapy.

Unit VIII

- Therapeutic modalities.
- Principles, indication, contraindications and role of Nurse in various treatment methods:

Therapeutic community and Milieu therapy

- Occupational therapy
- Psychotherapy
- Behaviour therapy
- Group therapy
- Family therapy
- Pharmacotherapy
- Electro convulsive therapy
- Other miscellaneous therapies.

Unit IX

- Preventive Psychiatry.
- Model of prevention.
- Role of Nursing in preventive Psychiatry.
- Psychiatric social work.
- Community Mental Health Nursing.
- Community Mental Health agencies.
- National Mental Health programmes.

PRACTICUM

The student will be provided opportunity to:

1. Observe, Record and Report the behaviour of their selected patients.
2. Record the process of interaction.
3. Assess the Nursing needs of their selected patients, plan and implement the Nursing intervention.
4. Counsel the attendant and family members of patient.
5. Participate in the activities of Psychiatric team.
6. Write observation report after a field visit to the following places:
 - Child guidance clinic.
 - School / Special Schools (For mentally subnormal)
 - Mental Hospital,
 - Community Mental Health Centres.
 - De-addiction and Rehabilitation Centres.

INTRODUCTION TO NURSING EDUCATION

Placement: - Second Year

**Time Allotted Theory -60 hrs
Practical-75 hrs**

COURSE DESCRIPTION:

This course introduces the students to the principles and concepts of education, curriculum development, and methods and media of teaching. It also describes the steps in curriculum development and implementation of education programmes in Nursing.

OBJECTIVES

At the end of the course, the students will:

1. Describe the philosophy and principles of education.
2. Explain the teaching – learning process.
3. Develop the ability to teach using various methods and media.
4. Describe the process of assessment.
5. Describe the administrative aspects of school of Nursing.
6. Participate in planning and organizing an in-service education programme.
7. Develop basic skill of counselling and guidance.

COURSE CONTENTS

Unit I

- Introduction to education:
- Meaning of education, aims, function and principles.
- Philosophy of education:
- Factors influencing development of philosophy of Nursing Education.

UNIT II

- Teaching learning process.
- Nature and characteristics of learning.
- Principles and maxims of teaching
- Formulating objectives.
- Lesson planning.

UNIT III

- Methods of teaching:
- Teaching methods
- Lecturer
- Discussion
- Demonstration
- Group discussion
- Project

- Role play
- Panel discussion
- Symposium
- Seminar
- Field trip
- Workshop
- Exhibition
- Programmed instruction
- Computer assisted learning.
- Clinical teaching methods:
- Case methods
- Case presentation
- Nursing rounds and reports
- Bedside clinic
- Conference (individual and group)
- Recording of interaction process.

UNIT IV

- Educational media.
- Communication Process: Factors Affecting Communication.
- Purpose and Types of Audio-Visual Aids.
- Graphics aids: Chalk-board, Charts, Graphs, Poster, Flash Cards, Flannel graph / Khadigraph, Bulletin, Cartoon,
- Three Dimensional Aids: Objects, Specimen, Models, Puppets.
- Printed Aids: Pamphlets and Leaflets.
- Projected Aids: Slides, Films and Television, VCR, VCP, Overhead Projector, Camera, Microscope.
- Audio Aids: Tape Recorder, Public address system, Computer.

UNIT V

- Methods of assessment.
- Purpose and Scope of evaluation and assessment.
- Criteria for selection of assessment techniques and methods.
- Assessment of knowledge: essay type question, SAQ (short answer questions).
- MCQ (multiple choice questions).
- Assessment of skills: observation, check list. Practical examination Viva, objective structured clinical examination.
- Assessment of attitude: Attitude scale.

UNIT VI

- Management of School of Nursing.
- Planning of school of Nursing, organization.
- Recruitment of teaching staff, budget, facilities for the school, student selection and admission procedure, administrative planning of students, welfare services for students, maintenance of schools records, preparation of annual reports, INC guidelines for schools of Nursing.

Unit VII

- Guidance and counselling: Definition.
- Basic principles of guidance and counselling.
- Organization of guidance and counselling services.
- Counselling process.
- Managing disciplinary problems.
- Management of crisis.

Unit VIII

- In-service education.
- Introduction to nature and scope of in-service education programme.
- Principles of adult learning.
- Planning for in-service programme.
- Techniques, and methods of staff education programme
- Evaluation of in- service programme.

PRACTICUM

Each student should:

1. Conduct five planned teaching using different methods and media.
2. Prepare different types of teaching aids.
3. Plan, organize and conduct in-service education programme
4. Conduct at least one counselling session.
5. Prepare rotation plans.

INTRODUCTION TO NURSING ADMINISTRATION

Placement: - Second Year

**Time Allotted Theory -60 hrs
Practical-180 hrs**

COURSE DESCRIPTION:

, This course is designed to give an opportunity to the student to gain an understanding of the principle of administration and its application to nursing service. It is also intended to assist the students to develop an understanding of professional leadership need.

OBJECTIVES

At the end of the course, the student will:

1. Identify the principles of administration.
2. Describe the principles and techniques of supervision.
3. Explain the principles and methods of personnel management.
4. Explain the principles of budgeting.
5. Organize and manage a Nursing unit effectively.
6. Identify dynamics of organizational behavior, styles and functions of effective leadership.

COURSE CONTENTS

UNIT I

- Principles and Practices of administration.
- Significance, elements and principles of administration,
- Organization of Hospital – Definition, aims, functions, and classifications, health term.
- Policies of hospital, different departments with special emphasis to department of Nursing & office management.
- Responsibilities of the Nursing personnel especially of ward Sister, medico legal aspects, concept of cost effectiveness.

UNIT II

- Nursing Unit Management.
- Physical layout of a Nursing Unit and necessary facilities.
- Factors affecting the quality of Nursing care.
- Maintenance of a therapeutic environment
- Administration of the unit – management of patient care.
- Maintenance of physical environment.
- Assignment of duties and time plan.
- Patient assignment, safety measures, prevention of accidents and infections.
- Maintenance of patients' records and reports, legal responsibilities.
- Maintenance of quality Nursing care, Nursing audit.

UNIT III

- Personnel management.
- Staff recruitment and selection, appointment, promotions, personnel policies and jobs descriptions.
- Job analysis.
- Staffing the unit, staffing norms, rotation plan, leave planning, performance appraisal, staff welfare and management of disciplinary problems.

UNIT IV

- Supervision.
- Principles of supervision, nature and objectives.
- Tools and techniques of supervision.
- Evaluation.
- Nursing audit.
- Staff development – orientation program.
- Skill training.
- Leadership development.
- Problem solving process.

UNIT V

- Material management.
- Principles of material management.
- Quality control.
- Inventory, care of equipment, safekeeping.
- Role of nursing personnel in material management.

UNIT VI

- Financial Management.
- Budgeting – principles of budgeting, audit.

UNIT VII

- Organizational Behavior.
- Group dynamic and human relation, organizational communication (hospital information system).
- Public relation, leadership styles and functions.
- Methods of reporting.
- Maintaining records and reports.

PRACTICUM

1. Observe the functioning of Nursing administration at various level i.e. institution, Department, unit etc.
2. Each student will practice Ward Management under supervision.
3. Student will prepare rotation plan of the staff, write reports, give verbal reports of the ward and assist in maintaining the inventory of the Nursing unit.
4. Visit to private and government hospital and write observation reports.

INTRODUCTION TO NURSING RESEARCH AND STATISTICS

Placement: - Second Year

**Time Allotted Theory -45 hrs
Practical-120 hrs**

Course Description:

The course is designed to assist the students to develop an understanding of basic concepts of Research and Statistics, use the findings of Nursing Research in nursing practices, apply the knowledge in conducting project(S) and solve problems related to nursing using scientific method.

OBJECTIVES

At the end of the course, the students will:

1. Define the terms and concepts of Nursing Research.
2. Identify needs and scope of Nursing Research
3. Identify and define a Research problem
4. Locate and list sources of literature for a specific study
5. Describe different Research approaches, methods of data collection and sampling techniques
with a special reference to survey method.
6. Develop tool for data collection.
7. Enumerate steps of data analysis and present data summary in tabular form.
8. Use descriptive and co-relational statistics in data analysis.
9. Conduct a group Research project.

COURSE CONSTANTS

A. INTRODUCTION TO RESEARCH METHODOLOGY

UNIT I

- Steps of scientific methods.
- Definition of Research.
- Need for Nursing Research.
- Characteristics of good research. Research process.

UNIT II

- Statement of Research problem.
- Statement of purpose and objectives.
- Definition of Research terms.
- Review of literature.

UNIT III

- Research approaches: historical, survey and experimental.

Unit IV

- Sampling techniques and methods of data collection.
- Sampling.
- Instrument-questionnaire, Interview.
- Observation schedule, records, measurements.
- Reliability and validity of instruments.

UNIT V

- Analysis of Data, Tabulation:
- Classification and summarization
- Presentation
- Interpretation of data.

UNIT VI

- Communication of research findings.
- Writing report:
- Organizing materials for writing
- Format of the report
- Use of computers.

B. INTRODUCTION TO STATISTICS

UNIT VII

- Descriptive Statistics.
- Frequency Distribution – Types of measure - frequencies, class interval, graphic methods of describing frequency.
- Measures of Central Tendency – Mode, Median, Mean.
- Measures of variability: Range, Standard deviation
- Introduction to normal probability.

UNIT VIII

- Correlation.
- Computation by rank difference methods.
- Uses of correlation co-efficient.

UNIT IX

- Biostatistics: Crude rates and standardized rates, ratio and estimation of the trends.

UNIT X

- Introduction to computers in Nursing.
- Introduction to Computer and disk – operating system
- Introduction to word processing
- Introduction to data base
- Window application: Word, Excel, Power point, Multimedia.
- Use of statistical packages.
- Introduction to internet & use of electronic mail.
- Computer aided teaching & testing.

PRACTICUM

Students will conduct research project in small groups in selected areas of Nursing and submit a report (group studies may include studying of existing health practices, improved practices of Nursing (procedures) health records, patient records and survey of Nursing (literature).

ENVIRONMENTAL SCIENCE SYLLABUS

Unit 1 : Multidisciplinary nature of environmental studies

Definition, scope and importance

Need for public awareness. (2 lectures)

Unit 2 : Natural Resources :

Renewable and non-renewable resources :

Natural resources and associated problems.

- a) Forest resources : Use and over-exploitation, deforestation, case studies.
Timber extraction, mining, dams and their effects on forest and tribal people.
 - b) Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
 - c) Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
 - d) Food resources : World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.
 - e) Energy resources : Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources. Case studies.
 - f) Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
- Role of an individual in conservation of natural resources.
 - Equitable use of resources for sustainable lifestyles.

Unit 3 : Ecosystems

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Producers, consumers and decomposers.
- Energy flow in the ecosystem.
- Ecological succession.
- Food chains, food webs and ecological pyramids.
- Introduction, types, characteristic features, structure and function of the following ecosystem :-
 - a. Forest ecosystem
 - b. Grassland ecosystem
 - c. Desert ecosystem
 - d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Unit 4 : Biodiversity and its conservation

- Introduction – Definition : genetic, species and ecosystem diversity.
- Biogeographical classification of India
- Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values
- Biodiversity at global, National and local levels.

- Inida as a mega-diversity nation

- Hot-spots of biodiversity.
- Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts.
- Endangered and endemic species of India
- Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.

(8 lectures)

Unit 5 : Environmental Pollution

Definition

- Cause, effects and control measures of :-
 - a. Air pollution
 - b. Water pollution
 - c. Soil pollution
 - d. Marine pollution
 - e. Noise pollution
 - f. Thermal pollution
 - g. Nuclear hazards
- Solid waste Management : Causes, effects and control measures of urban and industrial wastes.
- Role of an individual in prevention of pollution.
- Pollution case studies.
- Diaster management : floods, earthquake, cyclone and landslides.

(8 lectures)

Unit 6 : Social Issues and the Environment

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns. Case Studies
- Environmental ethics : Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies.
- Wasteland reclamation.
- Consumerism and waste products.
- Environment Protection Act.
- Air (Prevention and Control of Pollution) Act.
- Water (Prevention and control of Pollution) Act
- Wildlife Protection Act
- Forest Conservation Act
- Issues involved in enforcement of environmental legislation.
- Public awareness.

(7 lectures)

Unit 7 : Human Population and the Environment

- Population growth, variation among nations.
- Population explosion – Family Welfare Programme.

- Environment and human health.
- Human Rights.
- Value Education.
- HIV/AIDS.
- Women and Child Welfare.
- Role of Information Technology in Environment and human health.
- Case Studies.

(6 lectures)

Unit 8 : Field work

- Visit to a local area to document environmental assets-
river/forest/grassland/hill/mountain
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural
- Study of common plants, insects, birds.
- Study of simple ecosystems-pond, river, hill slopes, etc. (Field work Equal to 5 lecture hours)