

COLLEGE OF NURSING, KANPUR
KANPUR UNIVERSITY, UTTAR PRADESH
B. Sc. NURSING POST BASIC REVISED COURSES OF STUDY
COURSE OF STUDY

1st Year

S. No.	Subject	Hours Theory	Hours Practical
1.	Nursing Foundation	45	-
2.	Nutrition & Dietetics	30	15
3.	Biochemistry & Biophysics	60	-
4.	Psychology	60	15
5.	Maternal Nursing	60	240
6.	Child Health Nursing	60	240
7.	Microbiology	60	30
8.	Medical & Surgical Nursing	90	270
9.	English (Qualifying)	60	-
Total		525	810

Note - Hindi/local language as per the need of the institution.

2nd Year

1.	Sociology	60	
2.	Community Health Nursing	60	240
3.	Mental Health Nursing	60	240
4.	Introduction to Nursing Education	60	75
5.	Introduction to Nursing Administration	60	180
6.	Introduction to Nursing Research & Statistics	45	120
Total		345	855

SCHEME OF EXAMINATION

1st Year

Paper Subject	Duration	Int. Ass.	Ext. Ass.	Total marks
1. Nursing Foundation	2	15	35	50
2. Nutrition & Dietetics	2	15	35	50
3. Biochemistry & Biophysics	3	25	75	100

4. Psychology	3	25	75	100
5. Microbiology	3	25	75	100
6. Maternal Nursing	3	25	75	100
7. Child Health Nursing	3	25	75	100
8. Medical & Surgical Nursing	3	25	75	100
9. English (Qualifying)*	3	25	75	100

Practical

1. Medical & Surgical Nursing		50	50	100
2. Maternal Nursing		50	50	100
3. Child Health Nursing		50	50	100

2nd Year

1. Sociology	3	25	75	100
2. Community Health Nursing	3	25	75	100
3. Mental Health Nursing	3	25	75	100
4. Introduction to Nursing Education	3	25	75	100
5. Introduction to Nursing Administration	3	25	75	100
6. Introduction to Nursing Research & Statistics**	2	50		50

Practical

1. Community Health Nursing		50	50	100
2. Mental Health Nursing		50	50	100
3. Research Project**		50	50	100

Note - * Qualifying Examination

** College Examination (not University Examination)

N. B. -

1. Teaching of Anatomy, Physiology, Pharmacology and pathology will be integrated with clinical subject.
2. A minimum of 80% attendance in theory and Practical/clinical in each subject is essential for appearing in the Examination.
3. 100% attendance in Practical/clinical in each clinical area is essential before award of degree.
4. 50% of minimum marks in each theory and practical paper separately is required for passing.
5. A candidate has to secure minimum of 33% in qualifying subject for passing.

POST BASIC

B. Sc. NURSING PART - I

COLLEGE OF NURSING, KANPUR
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B. Sc. NURSING (POST BASIC)

Course Title: Nursing Foundation

Time Allotted: Theory – 45 Hrs

Placement: First Year

Course Description: This Course will orient the student to the current concepts involved in the practice of nursing and developments in 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. Utilizes Steps of nursing profession.
5. Identify the role of the nurse in various levels of health services.
6. Appreciate the significance of quality assurance in nursing.
7. Explain correct 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 practice
- Expanded role of the nurse
- Development of nursing education in India and trends in nursing education
- Professional organizations, career planning
- Code of ethic & professional conduct for nurses

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, role and problems of the developmental stages of individual – newborn, infant, toddler, pre-adolescent, adolescent, adulthood, middle-age, old age

UNIT – III

- Theory of nursing practice
- Meta paradigm of nursing – Characterized by 4 central concepts i.e. nurse, person (client / patient), health and environment.

UNIT – IV

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

UNIT – V

- Quality assurance: nursing stands, 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

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Course Title: Nutrition & Dietetics

Time Allotted: Theory – 30 Hrs

Placement: First Year

Practical – 15 Hrs

Course Description: This course is designed to provide the students with a wide knowledge of dietetics in Indian setting, that the practice of teaching optimum and realistic dietary planning can become an integral part of nursing practice.

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 methods utilizing cookery rules.

COURSE CONTENTS

UNIT – I

- Introduction to nutrition dietetics
- Balanced diet, factors on which it depends
- Factors to be considered in planning
- Guides 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 stage, 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: Advantages, Need in India.

UNIT – IV

- Community Nutrition: Need for community nutrition programme
- Nutritional needs for special groups: infant, child, adolescent
- Substitutes for non-vegetarian foods
- Selection of cheap and nutritious
- Nutrition education
- 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. Food for toddlers
2. Low cost nutritious dishes for vulnerable groups
3. Dietary case study of patient on special diet and planning of low cost dietary instructions for home adaptations.
4. Planning of therapeutic diets.

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B. Sc. NURSING (POST BASIC)

Course Title: Biochemistry and Biophysics

Time Allotted:

Placement: First Year

Section A (Biochemistry) Theory – 30 hrs.

Section B (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 – 30 hrs

COURSE CONTENTS

UNIT – I

- Introduction: Importance of Biochemistry nursing
- Study of cell and its various components

UNIT – II

- Water and Electrolytes: Water – Source, 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 phosphorylation
- Facts of glucose in the body
- Storage of glucose in the body, glycogenesis, glycogenolysis and neoglucogenesis, blood glucose and its regulation.
- Glucose tolerance test, hyperglycemia, glycemia

UNIT – V

- Protein: Amino acids, hormones
- Essential amino acids
- Biosynthesis of protein in the cells
- Role of nucleic 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 fact 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-relationships 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: Law of reflection
- Focusing elements of the eye, defective vision and its 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
- Applications 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, CAT 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.

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Course Title: Psychology

Time Allotted: Theory – 60 Hrs

Placement: First Year

Practical – 15 Hrs

Course Description: This course is designed to reorient to understand the psychodynamics of patient behavior. This course would also help the student to develop an insight into her own behavior.

Objectives

Objectives

At the end the 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 behavior 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 subjects

UNIT – II

- Sensation, Attention and perception: Definitions
- Sensory processes: Normal and abnormal
- Attention and distraction: contributory facts
- Characteristics of perception, perception: normal abnormal

UNIT – III

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

UNIT – IV

- Emotion: 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
- Behavior 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
- Law 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
- Defense 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

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Course Title: Microbiology

Time Allotted: Theory – 60 Hrs

Placement: First Year

Practical – 30Hrs

Course Description: 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 the 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 disinfection 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, Moulds, 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 and culture techniques.
- Collection, handling and transportation of various specimens.

UNIT – IV

- Destruction of micro-organisms
- Sterilization and disinfection
- Chemotherapy and antibiotics
- Effects of health and cold
- Hospital Infection control procedure & of nurses.

Practical

- Sterilization methods-Physical, Chemical and Mechanical

UNIT – V

- Disease producing micro-organisms
- Gram positive bacilli
- Tuberculosis and Leprosy
- Anaerobes
- Cocci
- Spirochete
- 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
- Protozoa infection including amoebas
- 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
- Maintenance of personal and environmental hygiene
- Observation visit to incinerator
- Posting in CSSD and infection control department

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Course Title: Maternal Nursing

Time Allotted: Theory – 60 Hrs

Placement: First Year

Practical – 240 Hrs

Course Description: It also helps 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 the end the of course, the student will:

1. Describe the physiology of pregnancy, lab our and puerperium.
2. Manage normal pregnancy, lab our 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 fetal development.

UNIT – III

- Physiology and management of pregnancy, labour and puerperium
- Signs and symptoms and diagnosis of pregnancy
- Antenatal care

- Pregnant women with HIV/AIDS
- Management of common gynecological 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, entopic pregnancy and vesicular mole.
- Pregnancy induced hypertension, gestational diabetes, anaemia,
- Urinary infections. Antepartum hemorrhage
- Abnormal labour (malposition & malpresentation)
 - Uterine inertia
 - Disorder pf puerperium
 - Management of engorged breast, cracked nipple, breast abscess and mastitis
 - Puerperal sepsis
 - Post partum haemorrhage
 - Invention and prolapse of uterus, obstetrical emergencies
 - Obstetrical operations i.e. forceps, vacuum, episiotomy, caesarean section

UNIT – VI

- Drugs in obstetrics.
- Effects of drug 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

- (i) Be posted in antenatal Clinic, MCH clinic, antenatal wards, labour room, postnatal ward, maternity OT, MTP room.
- (ii) Visit Welfare agencies for women and write observation report.
- (iii) Follow nursing process providing care to 3-6 patients.
- (iv) Write at least two nursing care studies and do a presentation.
- (v) Give at least one planned health teaching to a group of mothers.

2. Practice following nursing procedures.

- (i) Antenatal & Post natal examination, per vaginal exam.
- (ii) Conduct normal delivery, sticking of episiotomy, (For male candidates minimum conduct of 5 deliveries)
- (iii) Motivate family for adopting family planning methods.
- (iv) Motivate family for planned parenthood.
- (v) Assist in various diagnostic and therapeutic procedures including IUD insertion and removal.

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Course Title: Child Health Nursing

Time Allotted: Theory – 60 Hrs

Placement: First Year

Practical – 240 Hrs

Course Description: This course is aimed at developing an understanding of the modern approach to childcare, 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 child health 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 pediatric 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 legislation in relation to child health and welfare
- National programmes related to child health and welfare.
- Changing trends in hospital care, preventive, primitive 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 pediatric nurse in caring for a hospitalized child
- Principles of pre and post operative care of infants and children
- Pediatric nursing procedures

UNIT – II

- The healthy child
- Growth and development from birth to adolescence

- Trends 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 and 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
- Prevention of infection in the nursery
- 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 feet, 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 behaviour 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 ward, OPD in hospital, health centre and neonatal unit.
2. Visit a centre for handicapped children and child welfare centre and write observation report.
3. Write an observation 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:
 - Thanking pediatric history
 - Physical assessment of children
 - Baby bath
 - Feeding
 - Restraining
 - Calculation of dosage of drugs and administration of medications and injections
 - Collection of specimens
 - Enema, bowel wash, colostomy irrigation
 - Steam and Oxygen inhalation
 - Preparation to assist with diagnostic tests and operations
 - Examination/Assessment of a newborn
 - Neonatal resuscitation
 - Care of a baby in incubator and on ventilator
 - Photo therapy
 - Assist in exchange transfusion and other therapeutic procedures.

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Course Title: Medical Surgical Nursing

Time Allotted: Theory – 90 Hrs

Placement: First Year

Practical – 270 Hrs

Course Description: 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 & nursing implications in administering drug for various disorders.
4. Discuss the recent advancement in the treatment & care of patients with medical surgical conditions.
5. Develop skill in giving comprehensive nursing care to patients following 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 team.

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
- Terminal illness
- Age related illness
- Patient undergoing surgery
- Incontinence

UNIT – III

- Nursing management of patient with neurological and neuro-surgical conditions
- Review of anatomy and physiology of the nervous system
- Pathophysiology, diagnostic procedures and management of:
 - Cerebro-vascular accident.
 - Cranial, spinal and peripheral neuropathies
 - Head-ache 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 cardio vascular 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 edema, cardiac tamponade, cardiogenic shock, aneurysms and peripheral vascular 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 genito-urinary system
- Pathophysiology, diagnostic procedures and management of:
 - 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 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 patho-physiology of patients with
 - Thyroid disorders
 - Diabetes mellitus
 - Diabetes insipidus
 - Adrenal tumour
 - Pituitary disorders.
 - Diagnostic procedures
- Nursing management of patient with above problems
- Drugs used in endocrine problems

UNIT – IX

- Nursing management of patients with musculoskeletal problems
- Review of anatomy and 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 patients 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. and V.V.F

UNIT – XI

- Nursing management of patients with Oncological disorders
- Type 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 patients with burns
- Nursing management of patients with reconstructive surgeries

UNIT – XIII

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

UNIT – XIV

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

UNIT – XV

- Nursing management of patients with blood disorders
- Review of r anatomy and physiology of Blood and Blood products
- Patho-Physiology, diagnostic procedures and management of blood disorders-
- Anemia

- Lukemia
- 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, adrenal crisis

PRACTICUM

- Students should rotated in selected medical-surgical areas, like Cardio Thoracic, Neurology, Urology, Orthopedics, Gynecology, Oncology, Burns and Reconstructive Surgical units.
- The Students should give patient assignment. They have to practice patient centered comprehensive nursing.
- Each student is required to give planned health teachings, conduct clinical teaching, case presentation and drug study.

COLLEGE OF NURSING, KANPUR
KANPUR UNIVERSITY, UTTAR PRADESH
B. Sc. NURSING (POST BASIC)

Course Title: English

Time Allotted: Theory – 60 Hrs

Placement: First Year

Course Description: This course is designed to help the student understand and usage of English language required for their professional work.

Objectives

After the course the student will:

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
 - Nurses notes, anecdotal records
 - Writing of Summary
 - Nurses reports on health problems
- The student will submit one sample of each item from her own practical experience.

UNIT – IV

- Verbal communication
- Oral reports
- Summarization of discussion
- Debate
- Listening comprehension- Film, Cassette and Radio

PRACTICUM

The clinical experience in the wards and bed side nursing will provide opportunity for students to fulfill the objectives of learning language.

Assignment on writing and conversation through participation in discussion, debates, seminars and symposia. The students will gain further skills in task oriented communications.

COLLEGE OF NURSING

POST BASIC

B. Sc. NURSING PART - II

COLLEGE OF NURSING, KANPUR
KANPUR UNIVERSITY, UTTAR PRADESH
B. Sc. NURSING (POST BASIC)

Course Title: Sociology

Time Allotted: Theory – 60 Hrs

Placement: Second Year

Course Description: This course is to sociology related to community and social institution in India and its relationship with health, illness and nursing.

Objectives

At the end of the course, the course the student will:

1. Describe sociology 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
- Independence 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: The 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 women & children, child labour, child abuse, delinquency and crime, substance abuse.

COLLEGE OF NURSING, KANPUR
KANPUR UNIVERSITY, UTTAR PRADESH
B. Sc. NURSING (POST BASIC)

Course Title: Community Health Nursing

Time Allotted: Theory – 60 Hrs

Placement: Second Year

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 course the student will:

1. Explain the concept of various factors contributing to health of individual, family and community.
2. Identify the role of community health nurse.
3. Describe national health care delivery system.
4. Describe epidemiological methods & principles of prevention and control of illness in community.
5. Identify the role of personal working in the community health set up.
6. Plan the work of community health nurse and supervise and train health workers.

COURSE CONTENTS

UNIT – I

- Introduction
- Introduction to Community health–Concepts, Principles and elements of primary Health Care
- Introduction of community health nursing
- Concepts of community health nursing- Community nursing process
- Objectives, scope and principles of community health nursing

UNIT – II

- Family Health Nursing
- Concept, objectives, scope and principles
- Individual, family and community as a unit of service
- Principles and techniques of home visiting
- Establishing working relation to prevention of disease, 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 concept
 - Centre, State, district, urban health services, rural health services
 - System of medicines
 - Centrally sponsored health schemes
 - Role of Voluntary health organizations 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 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

PRACTICUM

- Each student will prepare a community profile.
- The students will be allotted families for gaining experience in identifying family health needs, health counselling and guidance and family budgeting for optimum health.
- The students will participate in the activities of primary health centre
- Sub-centre, MCH centre
- Visit will be made to selected health and welfare agencies, water purification plant and sewage disposal plant, Infectious disease hospital
- Conduct health educational programmes for individual/groups/community.

COLLEGE OF NURSING, KANPUR
KANPUR UNIVERSITY, UTTAR PRADESH
B. Sc. NURSING (POST BASIC)

Course Title: Mental Health Nursing

Time Allotted: Theory – 60 Hrs

Placement: Second Year

Practical – 240 Hrs

Course Description: 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 the course, the course the student will:

1. Identify and describe the philosophy and principles of mental health nursing.
2. Describe the hospital 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, psycho-pathology, 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 and psychiatric nursing
- Concept of normal and abnormal behaviour
- Role and qualities of mental health and psychiatric nurse
- Mental health team and functions of team members
- Legal aspect 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 Systems
 - Psychosomatic 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
 - Electroconvulsive therapy
 - Other miscellaneous therapies

UNIT – IX

- Preventive psychiatry
- Model of prevention
- Role of nurse 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:

- Observe record and report the behaviour of their selected patients
- Record the process of interaction
- Assess nursing needs of their selected patients, plan and implement the nursing intervention.
- Counsel the attendant and family members of patient
- Participate in the activities of psychiatric team
- Write observation report after a field visit to the following places:
 - Child guidance clinic
 - School/special School (For mentally subnormal),
 - Mental hospital
 - Community mental health centres
 - De-addiction centre.

COLLEGE OF NURSING

COLLEGE OF NURSING, KANPUR
KANPUR UNIVERSITY, UTTAR PRADESH
B. Sc. NURSING (POST BASIC)

Course Title: Introduction to Nursing Education

Time Allotted: Theory – 60 Hrs

Placement: Second Year

Practical – 75 Hrs

Course Description: This course introduces the student to principles and concepts of education, curriculum development and methods and media of teaching. It also describes the steps in curriculum development and implementation of educational programmes in nursing.

Objectives

At the end of the course, the course the student 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 I planning and organization an in-service education programme.
7. Develop basic skill of counseling 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
- Lecture
- 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
- The communication process: factors affecting communication.
- Purposes and types of audio-visual aids
- Graphics aid: chalk-board, charts, graphs, posters, 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, OHP, 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),
- 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 for students, welfare service for students, maintenance of school records, preparation of annual reports.
- INC guidelines for school of nursing

UNIT – VII

- Guidance and counseling Definition Basic principles of guidance and counseling
- Organization of guidance and counseling 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 inservice education programme.
4. Conduct at least one counseling session.
5. Prepare rotation plans.

COLLEGE OF NURSING

COLLEGE OF NURSING, KANPUR
KANPUR UNIVERSITY, UTTAR PRADESH
B. Sc. NURSING (POST BASIC)

Course Title: Introduction to Nursing Service Administration **Time Allotted:** Theory – 60 Hrs

Placement: Second Year

Practical – 180 Hrs

Course Description: This course is designed to give an opportunity to the student to gain an understanding of the principles of administration and its application to nursing service.

Objectives

At the end of the course, 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 personal management
4. Explain the principles of budgeting
5. Organism and manage a nursing unit effectively
6. Identify dynamics of organizational behavior, styles and functions of effective leadership.

COURSE CONTENTS

UNIT – I

- Principles and practice of Administration
- Significance, elements and principles of administration,
- Organization of hospital - Definition, Aims, functions and classifications, health team
- Policies of hospital, different departments with special emphasis to department of nursing & office management
- Responsibilities of the nursing personal especially of ward sister, medico legal aspects, and concepts 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 patient's 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 job 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 relations, 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.
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.

COLLEGE OF NURSING, KANPUR
KANPUR UNIVERSITY, UTTAR PRADESH
B. Sc. NURSING (POST BASIC)

Course Title: Introduction to Nursing Research and Statistics **Time Allotted:** Theory – 45 Hrs

Placement: Second Year

Practical – 120 Hrs

Course Description: This 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 practice, apply the knowledge in conducting project (s) and solve problems related to nursing using scientific method.

Objectives

At the end of the course, the course the student 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 CONTENTS

A. INRODUCTION 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
- Instruments – 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 Reports:
 - Organizing materials for writing
 - Formate 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 and 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 computers and disk-operating system
- Introduction to word processing
- Introduction to data base
- Windows applications, word, excel, power point, multimedia
- Use of statistical packages
- Introduction to Internet & use of electronic mail
- Computer aided teaching & testing

PRACTICUM

Student 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, health records, patient records and survey of nursing literature).