

**KERALA UNIVERSITY
OF
HEALTH AND ALLIED SCIENCES**

SYLLABUS

Post Basic B.Sc. Nursing

2010 Admission

Post Basic B.Sc Nursing

FROM 2010 ADMISSION

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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 right 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 healthsettings.

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 behavioural 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 clinical / community health settings.
7. Demonstrate managerial skills in various health care settings.
8. Practice ethical values in their personal and professional life.
9. Participate in research activities and utilized research findings in improving nursing practice.
10. Recognize the need for continued learning for their personal and professional development

Courses of Study

S.No	Subject	Hours Theory	Hours Practical
1st Year			
1.	Nursing Foundation	45	65
2.	Nutrition & Dietetics	30	15
3.	Biochemistry & Biophysics	60	
4.	Psychology	60	15
5.	Maternal Nursing	60	280
6.	Child Health Nursing	60	280
7.	Microbiology	60	30
8.	Medical & Surgical Nursing	90	390
9.	English (Qualifying)	60	
Total		525	1075
Grant Total			1600

Scheme of Examination

PAPER	SUBJECT	DURATION	INT. ASS.	EXT. ASS.	TOTAL MARKS
1ST Year					
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.	Maternal Nursing	3	25	75	100
6.	Child Health Nursing	3	25	75	100
7.	Microbiology	3	25	75	100
8.	Medical & Surgical Nursing	3	25	75	100
9.	English (Qualifying)*	3	25	75	100
Practicals					
1.	Medical & Surgical Nursing		50	50	100
2.	Maternal Nursing		50	50	100
3.	Child Health Nursing		50	50	100

Note: * Qualifying Examination

N.B.:

1. Teaching of Anatomy, Physiology, Pharmacology and Pathology will be integrated with clinical subjects.
2. A minimum of 80% attendance in theory and practical/Clinicals in each subject is essential for appearing in the examination.
3. 100% attendance in Practical/Clinicals 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.

Nursing Foundation

Placement: First Year

Time Allotted: Theory – 45Hrs.
Practical – 65Hrs

COURSE DESCRIPTION

This course will help students to develop an understanding of nursing as a profession, the philosophy, objectives, theories and process of nursing in various clinical settings. The purpose of the course is to orient to the current concepts involved in the practice 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 nurses 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 practice
- Expanded role of the nurse
- Development of nursing education in India and trends in Nursing Education
- Professional organizations, career planning
- Code of ethics & professional conduct for nurses.

UNIT II

- Ethical, legal and other issues in nursing
- Concepts of health and illness, effects on the person
- Stress and adaptation.
- Health care concepts and nursing care concepts
- 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 practice
- 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: 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 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

Nutrition & Dietetics

Placement: First year

Time Allotted: Theory-30Hrs.
Practical-15Hrs

COURSE DESCRIPTION

This course is designed to provide the students with a wide knowledge of nutrition and dietetics in Indian setting, so 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 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

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, 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. 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.

Biochemistry & Biophysics

Placement: First year

Time Allowed:

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
2. Synthesize the knowledge of these principles in various nursing situations.

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 enzymes 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, malabsorption 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, gluconeogenesis and neogluconeogenesis, 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-relationships in metabolism and cellular control of metabolic processes.

Section B : Biophysics

Theory – 30 hours

COURSE CONTENTS

UNIT I

- Introduction : Concepts of unit and measurements.
- Fundamentals 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.
- Effects 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

- Focussing 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
- Vocalisation 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 Ionising 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: Theory-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 behavior. This course clinical setting and thereby understand the psychodynamics of patient would also help the student to develop an insight into her own behavior.

OBJECTIVES

At the end of the course, the student will

- I. Apply psychological principles while performing nursing functions.
- II. Distinguish the psychological processes during health and sickness.
- III. Analyze own behavior patterns.
- IV. Tabulate the psychological needs of the patients for planning nursing care
- V. Participate in psychometric assessment of the client.

COURSE CONTENT

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 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 personal it
- 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
- 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,
- Defense mechanisms

Practical

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- 60hrs
Practical-30 hrs.

COURSE DESCRIPTION

This course is designed to reorient 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 micro organisms.

OBJECTIVES

At the end of the course the student will

1. Identifies 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 micro scope.
- Common examination: Smear, Blood, 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 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
- 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
- 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 course; 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 - 280 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 problem.

OBJECTIVES

At end or the course, the student will

1. Describe the physiology of pregnancy, labour and puerperium
2. Mange 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 con
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 women 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 & care of the 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 infections. Ante partum hemorrhage

- Abnormal labour (malposition & malpresentation)
 - Uterine inertia
 - Disorders of puerperium
 - Management of engorged breast, cracked nipples, breast abscess and mastitis
 - Puerperal sepsis
 - Post partum hemorrhage
 - Obstetrical emergencies
 - Obstetrical operations i.e. forceps, vacuum, episiotomy

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 students will
 - a. Be posted in antenatal Clinic, MCH clinic, antenatal ward, labour room, postnatal ward, maternity OT, MTP room
 - b. Visit welfare agencies for women 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 teaching to a group of mothers.

2. Practice following nursing procedures,
 - a. Antenatal & post natal examination, per vaginal exam.
 - b. Conduct normal delivery, stitching of episiotomy
 - 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- 60hrs
Practical - 280hrs.

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 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 and 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
- 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 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 infections in the nursery.

UNIT IV

- Nursing management in common childhood diseases
- Nutritional deficiency disorders.
- Respiratory disorders and infections
- Gastro intestinal 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-Anemia, Thalassemia, ITP, Leukaemia, and Haemophilia.
- Endocrine disorders-Juvenile Diabetes Mellitus.
- Orthopedic disorders-club feet, hip dislocation and fracture.
- Disorders of skin eye and ears.
- Common communicable diseases in children, their identification, nursing management in hospital and home and prevention.
- Pediatric emergencies- poisoning, foreign bodies, hemorrhage, bums 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 pediatric 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
8. Taking pediatric history
9. Physical assessment of children
10. Baby bath
11. Feeding
12. Restraining
13. Calculation of dosage drugs and administration of medications and injections
14. Collection of specimens
15. Enema, bowel wash, colostomy irrigation
16. Steam and Oxygen inhalation
17. Preparation to assist with diagnostic tests and operations
18. Examination/Assessment of a newborn
19. Neonatal resuscitation
20. Care of a baby in incubator and on ventilator
21. Photo therapy
22. Assist in exchange transfusion and other therapeutic procedures

Medical Surgical Nursing

Placement: First year

Time allotted: Theory – 90hrs
Practical – 390hrs

COURSE DESCRIPTION

The purpose of this course is to widen the student's knowledge and develop proficiency caring for patients with medical surgical problems. This course includes review of relevant anatomy and physiology, pathophysiology in medical- surgical disorders and the 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 the patho physiology 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 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 n 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 under going surgery
 - Incontinence

UNIT III

- Nursing management of patient with neurological and neurosurgical conditions.
- Review of anatomy and physiology of the nervous system.
- Patho physiology, 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 cardiovascular system.
- Pathophysiology, diagnostic procedures and management of
 - Ischemic Heart diseases.
 - Cardiac arrhythmias.
 - Congestive heart failure.
 - Rheumatic and other valvular heart disease.
 - Endocarditis, cardiomyopathies, congenital heart diseases, hypertension, heart block
 - Cardiac emergencies: cardiac arrest, acute pulmonary oedema, 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
 - Tumors 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 genitor-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, Urinary diversions.
- 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 medical and surgical management of
 - G.I. Bleeding
 - Peptic ulcer
 - Infections
 - Acute abdomen
 - Colitis, diarrhea, dysentery & mal-absorption syndrome
 - Cholecystitis
 - Hepatitis, hepatic coma and cirrhosis of liver
 - Portal hypertension
 - Pancreatitis

- Tumors, hernias, fistulas, fissures, hemorrhoids
- Hemorrhoidectomy - pre and post operative care
- 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 tumor
 - 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., 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 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 Anatomy & Physiology of Blood and Blood products.
- Patho-physiology, 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, CPR
- Trauma
- Poisoning
- Crisis management: Thyroid crisis, Hypertensive crisis, adrenal crisis.

PRACTICUM

- Students should be rotated in the selected medical & surgical areas, like Cardio Thoracic, Neurology, Urology, Orthopedics, Burns and Reconstructive surgical units.
- The students should be given 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.

Placement: First Year

Time Allotted: Theory - 60hrs

COURSE DESCRIPTION

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

OBJECTIVES

After me course, me student win 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 war
- Reading and comprehension of the prescribed books.

UNIT III

- The study of various forms of composition
 - Note taking

- Dairy
- Nurses notes, anecdotal records
- Writing of summary
- Nurses reports on health problems
- The student will submit one sample of each item from her on 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 opportunitih 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 communication.