

**B.Sc. (NURSING) (POST BASIC)**

**DEPARTMENT OF NURSING**

**UNIVERSITY OF DELHI**

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### **Introduction:-**

Nursing contributes to the health services in a vital and significant way in the health care delivery system. It recognizes national health policies and programs. It aims at identifying health needs of the people, planning and providing quality care in collaboration with other health professional and community groups.

National Health Policy 2002 lays emphasis on improving the skill level of nurses and on increasing the ratio of degree holding nurses vis-a-vis diploma holding nurses. In this direction the training of diploma holder to undergo B.Sc (Nursing)(Post Basic) course will help to achieve the objectives set by the National Health Policy. The overall aim of the course is to improve the quality of Nursing service to the patients in the hospital and community at large.

**Overview of the B.Sc. (Nursing) (Post Basic) Course:-**

**Duration of the course:-** Two Years (4 Semesters)

**PHILOSOPHY:-**

Nursing contributes to the health services in a vital & significant way in a health care delivery system. Its recognizes national health goals & is committed to participate in the implementation of national Health Policies and Programs. It aims at identifying health needs of people, planning & providing quality care in collaboration with other health professionals & community 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 of nursing education, it is specifically directed to upgrading of critical thinking skills, competencies & standards required for practice of professional nursing and midwifery as envisaged in National Health Policy.

Under graduate nursing education program at the post basic level prepares its graduates to become exemplary citizen by adhering to code of ethics & 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 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 assume the role of teacher, supervisor, manager in clinical/public health setting.

**Objectives:-**

On completion of B.Sc. Nursing (Post –Basic) degree program 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 concept 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.

A minimum of 80% attendance in theory & practical/clinical in each subject is essential for appearing in the examination.

**Eligibility Criteria For Admission:-**

A candidate seeking admission to Post Basic B.Sc. Course should have passed 10+2 and General Nursing and Midwifery from INC recognized institution with minimum 50% marks in the aggregate.

1. Those who have done 10+1 in or before 1986, will be eligible for admission.
  - Candidates shall be medically fit.
  - Students shall be admitted once in a year.

**Basic of Selection:-**

The selection of the candidates will be done on the merit of selection test. All candidates Irrespective of reserved or non-reserved category, have to appear for the selection test.

**Proposed plan for B.Sc. (Nursing) (Post Basic) program****Semester -I**

Paper No.	Course	Theory Hours	Practical Hours
I	Nursing Foundation&Professionalism (Part A)& Nutrition & Dietetics(Part B)	60 + 30 (3 + 1 Credits)	15
II	Microbiology	60 (3 Credits)	30
III	Medical Surgical Nursing	120(6 Credits)	270 (3 Credits)
IV	Psychology	60 (3 Credits)	15
	EVS	30 (1 Credits)	
	Total Hours	360 (17 credits)	330 (3 Credits) = 690 (20 Credits)

**Semester –II**

Paper No.	Course	Theory Hours	Practical Hours
V	Maternal Nursing	60 (3 Credits)	240 (3 Credits)
VI	Child Health Nursing	60 (3 Credits)	240 (3 Credits)
VII	English	60 (3 Credits)	
VIII	Biochemistry & Biophysics	60 (3 Credits)	
	Total Hours	240 (12 Credits)	480 (6 Credits) = 720 (18 Credits)

**Semester –III**

Paper No.	Course	Theory Hours	Practical Hours
IX	Mental Health Nursing	60 (3 Credits)	240 (3 Credits)
X	Sociology	60 (3 Credits)	
XI	Introduction to Nursing Research & Statistics	60 (3 Credits)	120 (1 Credit)
XII	Health/ Nursing Informatics & Forensic Nursing	20 + 20 (2 Credits)	
	Integrated Clinical experience (All Specialties)		120 (1 Credit)
	Total Hours	220 (11 Credits)	480 (6 Credits) = 700(17 Credits)

**Semester – IV**

Paper No.	Course	Theory Hours	Practical Hours
XIII	Community Health Nursing	60 (3 Credits)	240 (3 Credits)
XIV	Introduction to Nursing Education	60 (3 Credits)	120 (1 Credit)
XV	Introduction to Nursing Administration	60 (3 Credits)	180 (2 Credits)
	Total Hours	180 (9 Credits)	540(6 Credits) = 720(15 Credits)

**UNIVERSITY OF DELHI**  
**B.Sc. (NURSING)(POST BASIC)**  
**SCHEME OF EXAMINATION**

Paper	Course	Assessment					
		Theory			Practical		
		Int.	Ext.	Total	Int.	Ext.	Total
I	Nursing Foundation & Nutrition & Dietetics	25	75	100			
II	Microbiology	25	75	100			
III	Medical- Surgical Nursing	25	75	100	50	50	100
IV	Psychology	25	75	100			
	EVS						

**Semester - II**

Paper	Course	Assessment					
		Theory			Practical		
		Int.	Ext.	Total	Int.	Ext.	Total
V	Maternal Nursing	25	75	100	50	50	100
VI	Child Health Nursing	25	75	100	50	50	100
VII	English	25	75	100			
VIII	Biochemistry & Biophysics	25	75	100			

**Semester - III**

Paper	Course	Assessment					
		Theory			Practical		
		Int.	Ext.	Total	Int.	Ext.	Total
IX	Mental Health Nursing	25	75	100	50	50	100
X	Sociology	25	75	100			
XI	Introduction to Nursing Research & Statistics *	25+25		* 50			
XII	Introduction to Nursing Administration	25	75	100			
XIII	Health/ Nursing Informatics & Forensic	25+25		*50			

**Semester - IV**

Paper	Course	Assessment					
		Theory			Practical		
		Int.	Ext.	Total	Int.	Ext.	Total
XIV	Community Health Nursing	25	75	100	50	50	100

XV	Introduction to Nursing Education	25	75	100			
	Research Practical					** 50	100

\* College Exam

\*\* Research Project

## **Post Basic B. Sc. Nursing**

### **Paper I: - Nursing Foundation, Professionalism and Nutrition & Dietetics**

**Placement:** First Year(I Semester)

Part A- Theory-60 Hrs.

Part B- Theory -30 Hrs.  
Practical-15Hrs

### **Part A- Nursing Foundation & Professionalism**

### **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 organization , career planning
- \* Code of ethics & professional conduct for nurses.
- \* Critical thinking & Nursing judgment

#### **UNIT II**

- \* Ethical, legal and other issues in nursing
- \* Concepts of health and illness, effects on the person
- \* Stress and adaptation.
- \* Health care concept and nursing care concept.
- \* Developmental concept, needs, roles and problems of the developmental stages of individual-  
new born, infant , toddler, pre-adolescent, adolescent, adulthood ,middle- age, old age

#### **UNIT III**

- \* Concepts & theoretical models in 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



## UNIT VII

### PROFESSIONALISM

#### Professionalism

- Definition and characteristics of professionalism.
- Concepts, attributes and indicators of professionalism.
- Challenges of professionalism Challenges of professionalism
  - Personal identity vs professional identity
  - Preservation of self-integrity threat to integrity, Deceiving patient: withholding information and falsifying records
  - Communication & Relationship with team members: Respectful and open communication and relationship pertaining to relevant interests for ethical decision making.
  - Relationship of with patients and society.

#### Professional values

- Values: Definition and characteristics of values
- Value clarification
- Personal and professional values
- Professional socialization: Integration of professional values with personal values.

#### Professional values in nursing

- Importance of professional values in nursing and health care
- Caring definition and process
- Compassion: Sympathy Vs empathy, Altruism
- Conscientiousness
- Dedication devotion to work
- Respect for the person- Human dignity
- Privacy and confidentiality: Incidental disclosure
- Honesty and integrity: Truth telling
- Trust and credibility: Fidelity, Loyalty
- Advocacy: Advocacy for patients, work environment, nursing education and practice and for advancing the profession.

#### Ethics & Bioethics

Definitions: Ethics, Bioethics and Ethical Principles

- Beneficence
- Non-maleficence: Patient safety, protecting patient from harm, Reporting errors
- Justice: Treating each person as equal
- Care without discrimination, equitable access to care and safety of the public
- Autonomy: Respects patient's autonomy, Self-determination Freedom of choice

Ethical issues and ethical dilemma: Common ethical problems

- Conflict of interest
- Paternalism'
- Deception
- Privacy and confidentiality
- Valid consent and refusal

- Allocation of scarce nursing resources
- Conflicts concerning new technologies
- Whistle-blowing
  
- *Beginning of life issues*
  - Abortion
  - Substance abuse
  - Fetal therapy
  - Selective deduction
  - Intrauterine treatment of fetal conditions
  - Mandated contraception
  - Fetal injury
  - Infertility treatment
  
- *End of life issues*
  - End of life
  - Euthanasia
  - Do Not Resuscitate (DNR)
  
- *Issues related to psychiatric care*
  - Non compliance
  - Restrain and seclusion
  - Refuse to take food

### **Process of ethical decision making**

- Assess the situation (collect information)
- Identify the ethical problem
- Identify the alternative decisions
- Choose the solution to the ethical decision
- Implement the decision
- Evaluate the decision

### **Ethics committee: Roles and responsibilities**

- Clinical decision making
- Research

### **Rights of Patient**

#### **Patients' Bill of Rights-17 patients' rights (MoH&FW, GoI)**

1. Right to emergency medical care
2. Right to safety and quality care according to standards
3. Right to preserve dignity
4. Right to non-discrimination
5. Right to privacy and confidentiality
6. Right to information
7. Right to records and reports
8. Right to informed consent
9. Right to second opinion
10. Right to patient education
11. Right to choose alternative treatment options if available
12. Right to choose source for obtaining medicines or tests
13. Right to proper referral and transfer, which is free from perverse commercial influences
14. Right to take discharge of patient or receive body of deceased from hospital
15. Right to information on the rates to be charged by the hospital for each type of service provided and facilities available on a prominent display board and a brochure

**NURSING FOUNDATION**  
**SUGGESTED READING**

1. Taylor, C. et al. Fundamental of Nursing: The Art and Science of Nursing Care Edition, U.S. Lippincott Williams an Wilkins publishers,
2. Potter. P.A and Perry, A.G. Fundamental of Nursing Concepts Process and Practice Edition, USA; Elsevier Publication.
3. Kozier, B.et al Kozier & Erb's Fundamental of Nursing. 8<sup>th</sup> Edition, New Delhi, India: Pearson Education Publisher 2009.
4. The Trained Nurses Association of India: Fundamental of Nursing- A Procedure manual. 1<sup>st</sup>Edition, India: Aravali Publisher 2005.

**Part B- Nutrition & Dietetics**

**Placement:** First Year (II Semester)

Theory – 30 hrs  
Practical- 15 hrs

**COURSE CONTENTS**

**UNIT I**

- \* Introduction to nutrition and 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, 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 beverage , 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.

**Suggested Reading:**

1. Mahan, L.K. And Escott- stumpy, S. Krause's Food , Nutrition and Diet Therapy. W.B. Saunders, Co. 12<sup>th</sup> Edition, 2008.
2. Kumud Khanna et.al Text Book of Nutrition and Dietetics, Elite Publishing House Pvt. Led. 2006.
3. Srilakshmi B. Nutrition science, New age International Publishers ,2008.
4. Sushma Sharma, Arvind Wadhwa, Nutrition in the Community A Textbook. Elite Publishing Pvt. Ltd. , 2006
5. Gopalan. C. Ramasastri, B.V. Et al Nutritive value of Indian Foods, National Institution of Nutrition ICMR publication, 2004.

**Paper II: - Microbiology****Placement:** First Year (I Semester)

Theory - 60 hrs.

Practical - 30 hrs.

**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, Moulders, 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

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 procedures & role of nurses.

**Practical:** Sterilization methods – physical, chemical and mechanical

#### UNIT V

- \* Disease producing micro-organisms, gram positive bacilli, tuberculosis and Leprosy, Anaerobes, Cocci, Spirochetes, Rickettsiae

**Practical;** Identification and study of the following bacteria: Streptococci, pneumococci and staphylococci, corynebacteria, spirochete and gonococci. Enteric bacteria. Posting in infection control department.

#### UNIT VI

- \* 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 infections 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.

#### **Suggested Reading:-**

1. Gupte, Satish, Short Text Book of Medical Microbiology, 8<sup>th</sup> Edition, India, Jaypee Publishers, 2002
2. Mehrotra, R M L Microbiology for Medical Students, 3<sup>rd</sup> Edition, India: College Book Publishers, 1979.
3. Power, C.B. And Dagainawala, H.F. General Microbiology . 1<sup>st</sup> Edition, India Himalaya, Publishers, 1982.
4. Dey, N.C. And Dey, T;K. Medical Parasitology 8<sup>th</sup> Edition, India: Allied Agency Publishers, 1980.
5. Pelczar, J.R. et al Microbiology 4<sup>th</sup> Edition, New York: Tata Mc Graw Hill, Publication 1978.

## Paper III: - Medical Surgical Nursing

Placement : First Year (I semester)

Theory -90 hrs.

Practical- 270hrs

### 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 out patient 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.
- \* Pathophysiology. Diagnostic procedures and management of:
- \* Cerebro- vascular accident
- \* Cranial, spinal and peripheral neuropathies
- \* 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 and 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 arrhythmia

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

## 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

Tumor 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, diarrhea, dysentery and 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 pf patients with endocrine problems

Review of anatomy and physiology and patho physiology 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 patient 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.  
 Disorders of menstruation  
 Infections of the genital tract.  
 Benign and malignant tumors of the genital tract.  
 Rectovaginal fistula, vesicovaginal fistula  
 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 and skin.

## **UNIT XV**

Nursing management of patients with blood disorders.  
 Review of anatomy and 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, procedures and requirements, management of adverse transfusion reaction, records for blood transfusion.  
 Management and counseling a of blood donors , phlebotomy procedures , 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 medical - surgical emergencies

Cardiac emergencies

Trauma

Poisoning

Crisis management: Thyroid crisis, Hypertension crisis, adrenal crisis.

**SUGGESTED READING**

1. Brunner& Suddarth 's Textbook of Medical Surgical Nursing 11<sup>th</sup> Edition, New Delhi; Lippincott. Publication, 2008.
2. Joyce M. Black. Medical Surgical Nursing Clinical Management for Continuity of Care, 5<sup>th</sup> Edition, India: W.B. Saunders, Company, 1997.
3. Luckman, J. Medical Surgical Nursing- A psycho physiological Approach. 3<sup>rd</sup> Edition , Philadelphia WB Saunders Publishers.
5. Chintamani “ Levis Medical Surgical Nursing 7<sup>th</sup> Edition , Elsvier 2011

**PRACTICAL PAPER I**

**Medical Surgical Nursing**

**Time:- 270 Hrs**

- Students should be rotated in the selected medical & surgical areas like Cardio-Thoracic, Neurology ,Urology, Orthopedics, ICU, ICCU
- 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.

## Paper IV :- Psychology

**Placement:** First Year (I Semester)

Theory - 60 hrs  
Practical-15 hrs

### 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 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, Adolescents, Adult, Aged, Attendants and 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.

### Practicum

1. Simple experiments in (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.

### Suggested Readings

1. Morgan, C.T. Etal. Introduction to Psychology, 7<sup>th</sup> Edition., Delhi, Publisher Tata Mcgraw Hill Company Ltd.. 2005.
2. Bhatia and Craig . Elements of Psychology and Mental Hygiene for nurses in India. 26<sup>th</sup> Impression, Hyderabad, India Publisher orient Longman Pvt. Ltd., 2003.
3. Robert A. Baron. Psychology, ( Indian. Ed. LPE) Third impression, New Delhi, Pearson Prentice Hall.2007

## **Paper V: - Maternal Nursing**

**Placement:** First Year(II Semester)

Theory – 60 hrs  
Practical- 240 hrs

### **COURSE CONTENTS**

#### **UNIT I**

Introduction and historical review  
Planning parenthood  
Maternal morbidity and mortality rates  
Legislation 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

#### **UNIT IV**

The New born baby  
Care of the baby at birth including resuscitation  
Essential New born care  
    Feeding  
    Jaundice and infections  
    Small and large for date babies  
    Intensive care of the new born  
    Trauma and haemorrhage.

#### **UNIT V**

Management of abnormal pregnancy, labour and puerperium  
Pregnant women with HIV/ AIDS  
Management of common gynecological problems  
Abortion, ectopic pregnancy and vesicular mole.  
Pregnancy induced hypertension , gestational diabetes, anaemia, heart disease.  
Urinary infections. Antepartum hemorrhage

Abnormal labour ( Malposition and malpresentation)

    Uterine inertia  
    Disorders of puerperium  
    Management of engorged breast, cracked nipples, breast abscess and mastitis.  
    Puerperal sepsis  
    Post partum haemorrhage  
    Inversion and prolapse of uterus, obstetrical emergencies  
    Obstetrical operations i.e. forceps, vacuum, epistotomy, caesarean section.

#### **UNIT VI**

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

UNIT VII  
National Welfare Programmes for women, National Family Welfare Programme.  
Infertility, Problems associated with unwanted pregnancy, Unwed mothers.

### UNIT VIII

Maternal, prenatal and genetic influences on development of defects and diseases  
Conditions affecting the mother:- genetic and infections  
Consanguinity atopy  
Prenatal nutrition and food allergies  
Maternal Age  
Maternal drug therapy  
Prenatal testing and diagnosis  
Effect of Radiation, drugs and chemicals  
Neural Tube Defects and the role of folic acid in lowering the risks  
Down syndrome ( Trisomy 21

### Suggested Readings:-

### OBSTETRICAL NURSING

1. Bennett Ruth V., Myles Text book for Midwives 13<sup>th</sup> Edition . Churchill Livingstone London , 2001.
2. Dutta D.C. , Text book of Obstetrics , 5<sup>th</sup> Edition. 2007 , New Central Book Agency Calcutta.
3. Basvanthappa B.T. Midwifery and reproductive Health Nursing. 1<sup>st</sup> edition, Jaypee Publishers 2006.
4. Wong et al, " maternal child Nursing care' 1<sup>st</sup> edition Mosby Inc., 1998.

### GENETIC

1. Lashley Felissa R. essential of clinical Genetics in Nursing Practice, Springer Publishing Company 2007.
2. Lashley Felissa Clinical Genetics in Nursing Practice , 3<sup>rd</sup> Edition, Springer Publishing company 2005.
3. King Roabert C, " Genetics", 2<sup>nd</sup> edition, Oxford University Press. 1965.
4. Cohen F.C. ' Clinical Genetics in Nursing' J.B. Lppincot Co Philadelphia
5. Sharma Suresh Kumar, " Human Genetics in Nursing' Jaypee Publishing 2006.

### PRACTICAL PAPERII:- Maternal Nursing

**Practical: - 240 Hrs**

#### Practical Work:-

1. The Students will be posted in:-  
Antenatal clinic, MCH clinic, antenatal ward, labour room, postnatal ward, maternity OT,  
Family welfare department.  
Visit welfare agencies for women and write observation report.  
Follow nursing process in providing care to minimum 3 patients.  
Write at least two nursing case studies and do a presentation.  
Give at least one planned health teaching to a group of mothers.

1. Practice following nursing procedures  
  
Antenatal, intranatal & post natal examination, and management  
Motivate family for planned parenthood  
Assist in various diagnostic and therapeutic procedures including IUD insertion and removal

## **Paper VI Child Health Nursing.**

**Placement :** First Year ( II Semester)

Theory - 60 hrs  
Practical – 240hrs

### **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 pro motive and curative aspects of child health.

Child morbidity and mortality rated.

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 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 infection

Gastrointestinal infections, infestations and congenital disorders

Cardiovascular 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 behavior disorders in children.

Management of challenged children:-

- Mentally challenged
- Physically challenged
- Socially challenged

Genetic testing in the neonates and children

## UNIT VI

Genetic testing in the neonates and children

Screening for

- congenital abnormalities
- Developmental delay
- Dysmorphism

Genetic conditions of adolescents and adults

- Cancer genetics – Familial cancer
- Inborn errors of metabolism
- Blood group alleles and hematological disorder
- Genetic haemochromatosis
- Huntington's disease
- Mental illness

### Suggested Readings:-

1. Marlow, Dorthy et al R. Text Book of Paediatrics 6<sup>th</sup> edition, W.B. Saunders's Company, Philadelphia.
2. O.P. Ghai, Essential Pediatrics 6<sup>th</sup> Edition CBS Publisher and Distributor, New Delhi 2008.
3. Singh Meherban, Care of New Born, 3<sup>rd</sup> Edition Sagar Publication, New Delhi 1985
4. Wong I. Dona Nursing care of infant and children, Mosby,s 7<sup>th</sup> Edition
5. Behrman E. Richard, Nelsons Text book of Pediatrics 18<sup>th</sup> Edition W.B. Saunders Company.

## PRACTICAL PAPER III - Child Health Nursing

**Practical:- 240 Hrs**

### The students will:-

- Be posted in paediatric medical and surgical ward, OPD in hospital, Health Centre and Neonatal unit.
- Visit a centre for handicapped children and child welfare center and write observation report.
- Write an observation study of normal children of various age groups in home/ nursery school/ creche
- Follow nursing process in providing care to 3-6 children.
- Write at least two nursing care studies and do a presentation
- Give two planned health teachings, one in hospital and one in OPD/ health centre.
- Practice the following nursing procedures:
  - Taking 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.

## PAPER VII ENGLISH (Qualifying)

**Placement:** First Year ( II semester)

**Theory:-** 60 hrs.

### 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 her own practical experience

#### UNIT IV

- \* Verbal communication
- \* Oral reports
- \* Summarization of discussion
- \* Debate
- \* Listing comprehension- Film, Cassette and Radio.

#### **Suggested Reading:**

A text book- cum – workbook consisting of a selection of essay and poems of special interest to students of science and a workbook with exercises on vocabulary( word roots, prefixes, infixes and suffixes antonyms, etc) grammar and usage, comprehension( inference – drawing, coherence, etc) and composition exercise.

#### Text Book

1. S. Pit Order, Intermediate English practice book.
2. C.D. Sidhu, An Intensive Courses in English: A Remedial Workbook ( Orient Long man, 1978)
3. A. Roy & K.L. Sharma: English for students of science .

#### GRAMMER BOOKS

1. Longman's simplified English series of late nineteen century and twentieth century writers.



## Paper VIII Biochemistry & Biophysics

**Placement:** First Year (II Semester)

Part A (Biochemistry) - Theory 30 hrs.

Part B (Biophysics) – Theory 30 hrs.

### Part A: Biochemistry

**Theory -30 hrs**

### 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
- \* TCA & Oxidation Phosphorylation.
- \* Fates of glucose in the body:- Maintenance of blood glucose levels and its regulation.
- \* Glucose tolerance test, hyperglycemia, hypoglycemia.

#### UNIT V

- **Protein:**
  - \* Digestion and absorption of proteins
  - \* Amino acids:-Essential & Nonessential.
  - \* Bio synthesis of protein in the cells
  - \* Nitrogenous constituents of Urine , Blood, their origin- urea cycle , uric acid formation , gout.
  - \* Plasma proteins and their functions.
  - \* Hormones.

#### UNIT VI

- **Fat:**
  - \* Digestion and absorption of fats.
  - \* Bio synthesis 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 metabolic processes.

**Suggested Readings:-**

1. Satyanarayan, 'Essentials of Bio chemistry' II<sup>nd</sup> Edition, Kolkata India, SIMCE Publications, 2002.
2. Reddy, Medical Biochemistry for Nurses' II<sup>nd</sup> Edition, Daryanganj New Delhi, Jaypee Publications 2008.
3. Malhotre V.K. 'Biochemistry s for students' XI<sup>th</sup> Edition, Daryanganj, New Delhi, Jaypee, Publications.
4. Holum John R. 'Fundamental of General, Organic and Biological Chemistry' John Wiley & Son, Inc .USA, 1978.
5. Jacob, Anthikad, Biochemistry for Nurses 2<sup>nd</sup> Edition, Daryanganj, New Delhi, Jaypee Publications, 2004

**Part 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, center of gravity, principles of gravity.
- \* Effect of gravitational forces on human body.
- \* Applications 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.
- \* Applications 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 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
  - 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, 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 to be demonstrated wherever applicable.

### Suggested Reading:-

1. Inamdar Madhuri, Applied Physics in Nursing
2. Venkatesh, G., Physics for Nurses
3. Naik, Sanjeev., Applied Physics for Nurses
4. Sharma, Suresh. Bio-Physics in Nursing

### **Paper IX :- Mental Health Nursing**

**Placement :** Second Year( III semester)

Theory- 60 hrs.  
Practical- 240hrs.

### **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 aspects in psychiatry and mental health services.

#### **UNIT II**

- \* Classification and assessment of mental disorders.
- \* Terminologies used in psychiatry.
- \* Etiological factors and psychopathology of mental disorders.
- \* History taking and assessment methods for mental disorders.

#### **UNIT III**

- \* Communication process
- \* Therapeutic communication & techniques of communication.
- \* Interview skills, 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 Disorder, Phobic Neurosis and Hypochondriacal Neurosis. Stress related and Somato form disorders.
  - Psychotic disorders: Schizophrenia , Bipolar affective Disorder and Organic Psychosis.
  - Organic Brain syndromes
  - Psychosomatic disorders
  - Personality disorders.
  - Disorders of childhood and adolescence.

#### **UNIT V**

- \* Management of patient with substance use disorders
- \* Substance use disorder
- \* 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 mental 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 .

## UNIT VIII

- \* Therapeutic modalities
- \* Principles, indication, contraindications and role of nurse in various treatment methods:
  - Therapeutic community and Milleu 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 nurse in preventive psychiatry
- \* Psychiatric social work
- \* Community mental health nursing
- \* Community mental health agencies
  - National mental health programme

## Suggested Reading:-

1. Stuart, G.W. And Laraia, M.T. Principles and practice of Psychiatric Nursing 8<sup>th</sup> Edition, India: Elsevier, 2008.
2. WHO, ICD-10 Classification of mental and Behavioural disorders Geneva 2007.
3. Kapoor Bimla, Text book of Psychiatry Nursing . Vol I and II, 2<sup>nd</sup> edition , New Delhi, Kumar Publishing House , 2001
4. Townsend, M, Psychiatric Mental Health Nursing Concepts of Care in Evidence based practice, 5<sup>th</sup> Edition N.D. Jaypee Brother, 2007.
5. Shives, Basic Concepts in Mental Health Nursing, 2<sup>nd</sup> Edition, Philadelphia: J B Lippincott 1990.

**PRACTICAL PAPER IV - Mental Health Nursing**

Time:-240 Hrs.

**PRACTICAL:-**

The student will be provided opportunity to:

- Observe, Record and report the behavior of their selected patients.
- Record the process of interaction.
- Assess the 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 schools ( For mentally subnormal)
  - Mental Hospital.
  - Community Mental Health centres
  - De- addiction centre.

## Paper X :- SOCIOLOGY

Placement: Second Year ( III Semester)

Theory: 60 hrs

### 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 institution: The family , marriage, education, religion, arts, economic organization, political organization.  
The urban and 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 and 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.

### **Sociology**

#### **Suggested Reading:-**

1. Sachdeva D.R. And Vidhya Bhushan An Introduction to Sociology: Kitab Mehal.
2. Madan G.R. Indian Social Problems- Vol. I Allied Publishers Ltd.



3. Neeraja K.P. Text book of Sociology for Nursing Students Jaypee Brothers, Medical Publications (P) Ltd.
4. Sanjay Bhattacharya, Social Work- An Integrated Approach Deep & Deep Publication (P) Ltd.
5. Kapadia K.M. Marriage and Family in India: Oxford University Press.

## Paper XI:- Introduction to Nursing Research and Statistics

**Placement:** Second Year (III semester)

Theory - 60 hrs.

Practical - 120 hrs.

### COURSE CONTENT

#### 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
- \* Instruments – Questionnaire , Interview
- \* Observation schedule, records, measurements
- \* Reliability and validity of instruments.

##### UNIT V

- \* Analysis of Data: Tabulation
- \* Classification and summarization
- \* Presentation and 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 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**

Bio-statistics: 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 application, word, excel, power point, multimedia.  
 Use of statistical packages.  
 Introduction to internet & Use of electronic mail  
 Computer aided teaching & testing.

**Practical**

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

**SUGGESTED READINGS****NURSING RESEARCH**

1. Polit D & Hungler B. Nursing Research Principles and Methods. 6<sup>th</sup> Edition, Lippincott Williams & Wilkins, 1999.
2. Nancy Burns and Suan K. Grove Understanding Nursing Research, WB Saunders Co. 1995.
3. Treece E.W. & Treece J.W. Elements of Research in Nursing, 4<sup>th</sup> Edition, C.V. Mosby Co.1986.
4. Nieswiadomy R.M. Foundations of Nursing Research 5<sup>th</sup> Edition India Pearson education 1993.
5. Best J.W. & Kahn J.V. Research in Education , 9<sup>th</sup> Edition, Pearson Education, 2003.

**STATISTICS**

1. Henry E. Garrett, Statistics in Psychology and education: Paragon International Published, 12<sup>th</sup> Edition. Reprint 2005-2007
2. Sidney Seigel, N.J. Castella Jr. Non Parametric Statistics: 3<sup>rd</sup> Edition, Mc Graw Hill Book Company 2000.
3. Barbara Hazand Micro, Statistics Methods for Health care Research: 5<sup>th</sup> Edition, Cippincott Willams & Wilicias, 2005.
4. Negi K.S. , Bio statistics: A.I.T. B.S. Published & Distribution, Delhi, 2005.
5. Kumar Jyoti, Bio statistic: A.I.T.S publication 1<sup>st</sup> Edition, 2005.

## **Paper XII:-Introduction to Nursing Administration**

Placement: Second Year (III Semester)

Time Allotted: Theory - 60 hrs  
Practical- 180hrs

### **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 department with special emphasis to department of nursing & office management  
Responsibilities of the nursing personnel specially 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 record and reports , legal responsibilities  
Maintenance of quality nursing care, nursing audit.

#### **UNIT III**

Personal 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

**UNIT VII**

Organizational Behaviour

Group dynamic and human relation, organizational communication ( hospital information system)

Public relations, leadership styles and functions.

Methods of reporting

Maintaining records and reports.

**Practical**

Observe the functioning of nursing administration at various level i.e. institution, department & unit.

Each student will practice ward management under supervision.

Student will prepare rotation plan of the staff, write reports, give verbal reports of the ward & assist in maintaining the inventory of the nursing unit.

Visit to Private & Government hospital & write observation reports.

**SUGGESTED READINGS**

1. T N A I , **Nursing Administration & Management**; 1<sup>st</sup> Edition: 2000
2. Awasthi and Maheshwari, " Public Administration', Lakshmi Narayan Aggarwal educational Publishers, Agra.
3. Barvett, Jean, " Ward Management and Teaching" 13<sup>th</sup> Re-print, Konark Publisher Pvt.Ltd. 2002, Delhi.
4. Goyal R.C. ' Hospital Administration and Human Resource Management" Prentice Hall of India Pvt. Ltd. New Delhi 2005

## **Paper XIII:- HEALTH/ NURSING INFORMATICS & FORENSIC NURSING**

Placement: Second Year (III Semester)

Time Allotted: Theory - 15 hrs

### **PART –A HEALTH/ NURSING INFORMATICS**

#### **COURSE CONTENTS**

##### **UNIT -I**

##### **Introduction to computer applications for patient care delivery system and nursing practice(Revision)**

- Use of computers in teaching, learning, research and nursing practice
- Hospital management information system

##### **UNIT -II**

##### **Principles of Health Informatics**

- Health informatics – needs, objectives and limitations
- Use of data, information and knowledge for more effective healthcare and better health

##### **UNIT -III**

##### **Electronic Health Records**

- Challenges of capturing rich patient histories in a computable form
- Latest global developments and standards to enable lifelong electronic health records to be integrated from disparate systems.

##### **UNIT -IV**

##### **Patient Safety & Clinical Risk**

- Relationship between patient safety and informatics
- Function and application of the risk management process

##### **UNIT -V**

##### **Clinical Knowledge & Decision Making**

- Role of knowledge management in improving decision-making in both the clinical and policy contexts
- Systematized Nomenclature of Medicine, Clinical Terms, SNOMED CT to ICD-10-CM Map, standardized nursing terminologies (NANDA, NOC), Omaha system.

##### **UNIT -VI**

##### **eHealth: Patients and the Internet**

- Use of information and communication technology to improve or enable personal and public healthcare
- Introduction to public health informatics and role of nurses
- Use of Statistical packages.

## **UNIT -VII**

### **Using Information in Healthcare Management**

- Components of Nursing Information system (NIS)
- Evaluation, analysis and presentation of healthcare data to inform decisions in the management of health-care organizations.

## **UNIT -VIII**

### **Information Law & Governance in Clinical Practice**

- Ethical-legal issues pertaining to healthcare information in Contemporary clinical practice
- Ethical-legal issues related to digital health applied in nursing

## **UNIT -IX**

### **Healthcare Quality & Evidence Based Practice**

- Use of scientific evidence in improving the quality of healthcare and technical and professional informatics standards

## **PART –B INTRODUCTION TO FORENSIC NURSING AND INDIAN LAWS**

Placement: Second Year (III Semester)

Time Allotted: Theory - 15 hrs.

### **COURSE CONTENTS**

#### **UNIT –I**

##### **Forensic Science**

- Definition
- History
- Importance in medical science
- Forensic Science Laboratory

#### **UNIT –II**

##### **Violence**

- Definition
- Epidemiology
- Source of data

##### **Sexual abuse – child and women**

#### **UNIT –III**

##### **Forensic Nursing**

- Definition
- History and development
- Scope – setting of practice, areas of practice and subspecialties
- Ethical issues
- Roles and responsibilities of nurse
- INC & SNC Acts

##### **Forensic Team**

- Members and their roles

#### **UNIT –IV**

##### **Comprehensive forensic nursing care of victim and family**

- Physical aspects
- Psychosocial aspects
- Cultural and spiritual aspects

- Legal aspects
- Assist forensic team in care beyond scope of her practice
- Admission and discharge/referral/death of victim of violence
- Responsibilities of nurse as a witness

## **UNIT –V**

### **Evidence preservation – role of nurses**

- Observation
- Recognition
- Collection
- Preservation
- Documentation of Biological and other evidence related to criminal/traumatic event
- Forwarding biological samples for forensic examination

## **UNIT –VI**

### **Introduction of Indian Constitution Fundamental Rights**

- Rights of victim
- Rights of accused

### **Human Rights Commission Sources of laws and law-making powers**

## **UNIT –VII**

### **Overview of Indian Judicial System**

- JMFC (Judicial Magistrate First Class)
- District
- State
- Apex

### **Civil and Criminal Case Procedures**

- IPC (Indian Penal Code)
- ICPC
- IE Act (Indian Evidence Act)

### **Overview of POSCO Act**

## **Paper XIV:- Community Health Nursing**

**Placement:** Second Year (IV Semester)

Theory - 60 hrs.  
Practical- 240 hrs.

## **COURSE CONTENTS**

### **UNIT I**

- \* Introduction
- \* Introduction to Community Health - Concepts, Principles and Elements of Primary Health Care.
- \* Introduction to Community Health Nursing.
- \* Concepts of Community Health Nursing- community nursing process
- \* Objectives, scope and principles of community health nursing.

### **UNIT II**



**Family Health services**

- \* Concepts, objectives, 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 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 organization and international health agencies.
- \* Role of health organization 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 team.
- \* 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.  
 Definitions and methods of computing vital statistics.  
 Methods of presenting data  
 Management Information System

**SUGGESTED READING**

1. J.E., Textbook of preventive and Social Medicine . Edition, Jabalpur, Banarsidas Bhanot Publishers, 2011.
2. Gulani, Krishna Kumari, Community Health Nursing Principles and Practices. First Edition, Delhi: Kumar Publishing House, 2006.
3. Patney, Sunita., Text Book of Community Health Nursing: First Edition Delhi: Modern

- Publishers, 2005.
4. Stanhope , M. and Lancaster. J. community Health Nursing: Process and practice for promoting Health. 3<sup>rd</sup> Edition  
Toronto : Mosby Year Book.
5. Rao, Dr ( Mrs) K.S, An Introduction to Community Health Nursing, 3<sup>rd</sup> Edition, Chennai,  
B.I., Publications, 2002.

### **PRACTICAL PAPER V – Community Health Nursing**

#### **Practical – 240**

#### **Practical work:-**

- 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.
- Visits will be made to selected health and welfare agencies , water purification plant and sewage disposal plant, infectious disease hospital.
- Conduct Health Education programmes for individual/ groups/ community.

## Paper XV :- Introduction to Nursing Education

**Placement:** Second Year (IV Semester)

Theory - 60 hrs  
Practical - 180 hrs

### 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**

-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 method, 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 televisions, 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 procedures, administrative planning for students , welfare services 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.

Counseling 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.

## Suggested Reading:-

1. Heidgerken, E. Loretta,” Teaching & Learning in Schools of Nursing” 15<sup>th</sup> Re-print Konark Publishers, 2006.
2. Bhatia K & Bhatia B.D., “ The principles and Methods of Learning” DOABA HOUSE,1994, Nai sarak, New Delhi.
3. Neeraja K.P. “ Test book of Nursing Education” Jaypee Brothers, New Delhi, 2007