

**MAHATMA GANDHI UNIVERSITY
OF MEDICAL SCIENCES &
TECHNOLOGY**

Sitapura Jaipur



Syllabus

**Post Basic B.Sc. Nursing
(2 Years Degree Programme)**

Philosophy

MGUMST believes that:

Health is a state of well-being that enables a person to lead a psychologically, socially and economically productive life. Health is a right of all the people. Individuals, families and communities have a responsibility towards maintaining their health.

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

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

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

Undergraduate nursing program at the post basic level is a broad based education within an academic framework, which builds upon the skills and competencies acquired at the diploma level. It is specifically directed to the development of critical thinking skills, competencies & standards required for practice of professional nursing and midwifery as envisaged in National Health Policy 2002.

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

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

Aim

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

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

Objectives

On completion of the four years B.Sc. Nursing (Post basic) program the graduate will be able to:

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

Post Basic B.Sc. NURSING **(Two Years Course)**

1. The course of study for Post Basic B.Sc. Nursing in Part-I shall be opened to both male and female candidates.

2. The Course of study leading to the Post Basic B.Sc. Nursing Degree shall consist of two academic year i.e. Part-I (Previous), Part-II (Final).

3. Criteria for admission

I. Passed the Higher Secondary or Senior Secondary or Intermediate or 10+2 or an equivalent examination recognized by the university for this purpose.

II. Obtained a certificate in General nursing and Midwifery and registered as R.N.R.M. with the State Nurses Registration Council. A male nurse, trained before the implementation of the new integrated course besides being registered as a nurse with State Nurses Registration Council, shall produce evidence of training approved by Indian Nursing Council for a similar duration in lieu of midwifery in any one of the following areas:

- O.T. Techniques
- Ophthalmic Nursing
- Leprosy Nursing
- TB Nursing
- Psychiatric Nursing
- Neurological and Neuro surgical Nursing
- Community Health Nursing
- Cancer Nursing
- Orthopaedic Nursing

III. State Government may constitute a selection committee including a university and state nursing council. Condition of entrance examination is not mandatory as per Indian Nursing Council regulation. Admission may also be made through state government approved Federation.

IV. Students shall be admitted once in a year.

Notes:

- i. 15% of the total seats will be filled up by the candidates on all India basis inclusive of Rajasthan and 16%, 12% & 21%, 1% of 15% of these seats shall be reserved for SC, ST, OBC and SBC respectively.
- ii. 85% of the total seats will be filled up by the Bonafide candidates of Rajasthan.

To be eligible for admission on these seats:

The candidates must have studied for the last three years of the qualifying examination continuously as regular candidates in recognized institution in Rajasthan.

Or

Natural Father/Mother of the candidate must have continuously resided in Rajasthan for period of last 10 years and candidate has studied for at least 5 years in a recognized education institution in Rajasthan.

Or

The candidate should be a Son/Daughter of a serving or retired employee of (a) Government of Rajasthan including Officer of all India Service born on the state cadre of Rajasthan or (b) Undertaking/Corporation/Improvement Trust/Municipal board/Panchayat Samities/Co-operative bodies duly constituted by Govt. of Rajasthan by an act of law or (c) any of the University in Rajasthan or Secondary Board of Education (Rajasthan) provided that the employee has put in at least three years of service in the above bodies on the last date of submission of application in the office.

Or

Candidate should be a Son/Daughter of permanent employee of Indian Defense Service and the employee is either of Rajasthan origin irrespective of his place of posting at the time of last date of the application for admission. Defense personnel shall submit a certificate from his employer to the effect that his state of origin is Rajasthan at the time of his entry into service.

- iii. Reservation in seat allotment shall be as per the prevailing reservation policy of the Government.
- V. Candidate shall be medically fit.
- VI. Counselling will be held to finalize the admissions. The Candidates must be physically present at the time of counselling.
4. There shall be annual main examinations and a second examination for the Supplementary candidates within a period of 2 to 3 months after the declaration of result.
5. A candidate who has completed the regular course of studies for one academic year shall be eligible for Post Basic B.Sc. Nursing Part-I (Previous) examination.
6. Required percentage of attendance for appearing in any paper of Post Basic B.Sc. Nursing Part – I (Previous) and Post Basic B.Sc. Nursing Part – II (Final) shall be 80% of the total prescribed theory, clinical and practical hours. A candidate must have 100% attendance in each of the practical areas before award of degree.
7. A candidate who has passed Post Basic B.Sc. Nursing Part – I (Previous) examination will be promoted to B.Sc. Nursing part- II course and after completion of regular course of studies for one academic year shall be eligible for Post Basic B.Sc. Nursing Part – II (Final) examination.
8. The candidates if fail in more than one subject they can be promoted to next year. A candidates can take any number of attempts with a condition that maximum period allowed is a 4 years. However all papers need to be cleared before appearing in the final examination.
9. The examination shall be conducted by means of written papers and viva voce and practical examination. Candidates shall be required to pass separately in written and practical examination. For practical examinations there shall be two examiners, one Internal and one External.
10. A candidate may improve his/her internal assessment marks whenever he/she reappears. In case the candidate does not improve his/her earlier internal assessment marks or doesn't opt for improvement, his/her earlier internal assessment marks would be conveyed by the Principal to the University. No change in the internal marks once conveyed to the University would be possible.
11. Minimum pass marks shall be 50% in each of the theory (inclusive of internal assessment) and practical (inclusive of internal assessment) papers separately.
12. Candidates who have obtained 75% or above marks in I attempt examination in a subject will be declared to have distinction in that subject.

Course of instruction

First Year

Subject	Hours Theory	Hours Practical)
1. Nursing Foundation	45	-
2. Nutrition & Dietetics	30	15
3. Biochemistry & Biophysics	60	-
4. Psychology	60	15
5. Maternal Nursing	60	240
6. Child Health Nursing	60	240
7. Microbiology	60	30
8. Medical & Surgical Nursing	90	270
9. English (Qualifying)	60	-
Total Hours	525	810
Total Hours = 1335 hrs		

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

Second Year

Subject	Hours Theory	Hours Practical)
1. Sociology	60	-
2. Community Health Nursing	60	240
3. Mental Health Nursing	60	240
4. Introduction to Nursing Education	60	75
5. Introduction of Nursing Administration	60	180
6. Introduction to Nursing Research & Statistics	45	120
Total Hours	345	855
Total Hours = 1200 hrs		

Scheme of Examination

First Year

Code No.	Subject	Duration (Hrs.)	Theory			Practical			Total
			Ext.	Int.	Total	Practical	Int.	Total	
9910	Paper- I Nursing Foundation	2	35	15	50	-	-	-	50
9920	Paper -II Nutrition and Dietetics	2	35	15	50	-	-	-	50
9930	Paper-III Biochemistry & Biophysics	3	75	25	100	-	-	-	100
9940	Paper- IV Psychology	3	75	25	100	-	-	-	100
9950	Paper -V Microbiology	3	75	25	100	-	-	-	100
9960	Paper -VI Maternal Nursing	3	75	25	100	50	50	100	200
9970	Paper -VII Child Health Nursing	3	75	25	100	50	50	100	200
9980	Paper- VIII Medical & Surgical Nursing	3	75	25	100	50	50	100	200
9990	Paper IX English (Qualifying)*	3	75	25	100				

Second Year

Code No.	Subject	Duration (Hrs.)	Theory			Practical			Total
			Ext.	Int.	Total	Practical	Int.	Total	
10010	Paper- I Sociology	3	75	25	100	-	-	-	100
10020	Paper -II Community Health Nursing	3	75	25	100	50	50	-	200
10030	Paper-III Mental Health Nursing	3	75	25	100	50	50	100	200
10040	Paper- IV Introduction to Nursing Education	3	75	25	100	-	-	-	100
10050	Paper -V Introduction to Nursing Services Administration	3	75	25	100	-	-	-	100

10060	Paper -VI Introduction to Nursing Research & Statistics**	2	-	50	50	-	-	-	50
	Research Project**	-	-	-	-	50	50	100	100

Note: * Qualifying Examination

** College Examination (not University 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/Clinical in each subject is essential for appearing in the examination.
3. 100% attendance in practical/clinical in each clinical area is essential before award of degree.
4. 50% of minimum marks in each theory and practical paper separately is required for passing.
5. A candidate has to secure minimum of 33% in qualifying subject for passing.

First year Post Basic B.Sc Nursing

Paper I

Nursing Foundation (9910)

Placement: First Year

Time Allotted: Theory – 45 Hrs.

COURSE DESCRIPTION

This course will help students develop an understanding of the philosophy, objectives and responsibilities of nursing as a profession. The purpose of the course is to orient to the current concepts involved in the 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. Utilise steps of nursing process.
5. Identify the role of the nurse in various levels of health services.
6. Appreciate the significance of quality assurance in nursing.
7. Explain current trends in health and nursing.

COURSE CONTENTS

UNIT I

- Development of nursing as a profession
 - Its philosophy
 - Objectives and responsibilities of a graduate nurse
- Trends influencing nursing 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 concept and nursing care concept
- Developmental concept, needs, roles and problems of the developmental stages of individual – newborn, infant, toddler, pre-adolescent, adolescent, adulthood, middle-age, old age.

UNIT III

- Theory of nursing practice
- Meta paradigm of nursing – characterized by 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

9910

First year Post Basic B.Sc Nursing (Main) Examination Month Year

NURSING FOUNDATION

Paper I

Time: Two Hours

Maximum Marks: 35

Q.No.1	Long Essay type (Attempt any one out of two questions)	10x1= 10
Q.No 2	Short Essay type (Attempt any three out of five questions)	5x3 = 15
Q.No.3	Short Answer type (5)	2x5 = 10

9910

First Year Post Basic B.sc Nursing (Main) Examination Month Year

NURSING FOUNDATION

Paper I

Time: Two Hours

Maximum Marks: 35

Q.1. Long essays (Attempt any One question) (10X1=10)

- A. Define Enema. Write down the classification of Enema, Describe in detail soap and water enema.
- B. Define sterilization, Discuss different methods of sterilization. How rubber goods should be sterilized.

Q.2. Short essays (Attempt any Three questions) (5X3=15)

- 1) Nursing care of an unconscious patient.
- 2) Qualities of a good nurse.
- 3) Urine test for sugar.
- 4) Intermittent fever.
- 5) Administration of oral medication

Q.3. Short answers (2X5=10)

- a) Define body temperature.
- b) Communication
- c) Nosocomial infection
- d) Profession
- e) Barrier nursing

Paper II

NUTRITION & DIETETICS (9920)

Placement: First Year

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

COURSE DESCRIPTION

This course is designed to provide the students with a wide knowledge of dietetics in Indian setting, that the 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.
- 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.

- Feeding pre-school child: nutritional needs, factors to be considered in planning diets. Problems in feeding.
- School lunch programme: Advantages, Needs 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 individuals/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.

9920

First year Post Basic B.Sc Nursing (Main) Examination Month Year

NUTRITION AND DIETETICS

Paper II

Time: Two Hours

Maximum Marks: 35

Q.No.1	Long Essay type (Attempt any one out of two questions)	10x1= 10
Q.No 2	Short Essay type (Attempt any three out of five questions)	5x3 = 15
Q.No.3	Short Answer type (5)	2x5 = 10

9920

First Year Post Basic B.sc Nursing (Main) Examination Month Year

NUTRITION AND DIETETICS

Paper II

Time: Two Hours

Maximum Marks: 35

Q.1. Long essays (Attempt any One question) (10X1=10)

- A. Define balanced diet. Discuss briefly about over nutrition.
- B. Write down source, function and deficiency of vitamin A.

Q.2. Short essays (Attempt any Three questions) (5X3=15)

- 1) Methods of cooking
- 2) PFA act
- 3) Classification of food
- 4) Vitamin D
- 5) Relationship between nutrition and health

Q.3. Short answers (2X5=10)

- i. Niacin
- ii. RDA
- iii. Calcium
- iv. Fatty acid

Paper III
BIOCHEMISTRY & BIOPHYSICS (9930)

Placement: First Year

Time Allotted:

Section A (Biochemistry) - Theory 30 hrs.

Section B (Biophysics) - Theory 30 hrs.

COURSE DESCRIPTION

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

OBJECTIVES

At the end of the course, the student will

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

Section A : Biochemistry

Theory - 30 hrs.

COURSE CONTENTS

UNIT I

- Introduction: Importance of Biochemistry 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, malabsorption syndrome.

UNIT IV

- Carbohydrates: Catabolism of carbohydrates for energy purposes
- Mitochondrial oxidation and oxidation phosphorylation.
- Fate of glucose in the body. Storage of glucose in the body, glycogenesis, glycogenolysis and gluconeogenesis, 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 protein and their function

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 Hrs.

COURSE CONTENTS

UNIT I

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

UNIT II

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

UNIT III

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

UNIT IV

- Force, Work, Energy: Their units of measurement.
- Type and transformation of energy, forces of the body, static forces.
- Principles of machines, friction and body mechanics.
- Simple mechanics – lever and body mechanics, pulley and traction, inclined 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 refraction
- Focussing elements of the eye, defective vision and its correction, use of lenses
- Relationship between energy, frequency and wave length of light
- Biological effects of light

- Use of light in therapy
- Application of these principles in nursing

UNIT VII

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

UNIT VIII

- Sound: Frequency, Velocity and Intensity
- Vocalization and hearing
- Use of ultrasound, Noise pollution and its prevention
- Application of these principles in nursing.

UNIT IX

- Electricity and Electromagnetism: Nature of Electricity, Voltage, Current, Resistance and their Units
- Flow of electricity in solids, electrolytes, gases and vacuum.
- Electricity and human body.
- ECG, EEG, EMG, ECT
- Pace makers and defibrillation
- Magnetism and electricity.
- M.R.I. Scanning, CAT scan.

UNIT X

- Atomic Energy: Structure of Atom, Isotopes and Isobars.
- Radioactivity: Use of radioactive isotopes.
- Radiation protection units and limits, Instruments used for detection of 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.

9930

First year Post Basic B.Sc Nursing (Main) Examination Month Year

BIOCHEMISTRY AND BIOPHYSICS**Paper III**

Time: Three Hours

Maximum Marks: 75

***This Question paper consist of Section A Biochemistry of 38 marks
and B Biophysics of 37 marks.***

Use separate answer-book for each section

Section – A**BIOCHEMISTRY****38**

Q.No.1	Long essay Type (Attempt any one out of two questions)	10x1= 10
Q.No 2	Short Essay Type (Attempt any four out of six questions)	5x4= 20
Q.No.3	Short Answer Type (4)	2x4= 8

Section – B**BIOPHYSICS****37**

Q.No.1	Long essay Type (Attempt any one out of two questions)	10x1= 10
Q.No 2	Short Essay Type (Attempt any three out of five questions)	5x3= 15
Q.No.3	Short Answer Type (6)	2x6= 12

9930

First Year Post Basic B.sc Nursing (Main) Examination Month Year

BIOCHEMISTRY AND BIOPHYSICS**Paper III**

Time: Three Hours

Maximum Marks: 75

***This Question paper consist of Section A Biochemistry of 38 marks
And B Biophysics of 37 marks.****Use separate answer-book for each section.***Section – A
Biochemistry****38****Q.1. Long essays** (Attempt any One question) (10X1=10)

- A. Discuss urea cycle.
- B. Classification of enzyme.

Q.2. Short essays (Attempt any Four questions) (5X4=20)

- 1) Oxidative phosphorylation
- 2) Essential amino acid
- 3) Protein
- 4) Fatty acid
- 5) Mechanism of action of enzyme
- 6) Kwashiorkor

Q.3. Short answers (2X4=8)

- a) Phospholipids
- b) Pyridoxine
- c) Ketosis
- d) Electrophoresis

**Section – B
Biophysics****37****Q.1. Long essays** (Attempt any One question) (10X1=10)

- A. What is force? Write down types and transformation of energy.
- B. Define light. What are the uses of light in therapy?

Q.2. Short essays (Attempt any Three questions) (5X3=15)

- 1) Heat
- 2) Work
- 3) Pressures
- 4) Electromagnetism
- 5) EEG

Q.3. Short answers (2X6=12)

- a) Hydrostatic pressure
- b) Hearing
- c) ECT
- d) CAT Scan
- e) Atomic energy
- f) Pace Maker

Paper IV

Psychology (9940)

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 behaviour. This course would also help the student to develop an insight into her own behaviour.

OBJECTIVES

At the end of the course, the student will

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

COURSE CONTENTS

UNIT I

- Introduction: Definition of psychology, scope and methods of psychology.
- Relationship with other 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 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 mentally healthy person.
- Defence mechanisms

PRACTICUM

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

9940

First year Post Basic B.Sc Nursing (Main) Examination Month Year

PSYCHOLOGY

Paper IV

Time: Three Hours

Maximum Marks: 75

Q.No.1	Long Essay type (Attempt any two out of three questions)	10x2= 20
Q.No 2	Short Essay type (Attempt any seven out of nine questions)	5x7= 35
Q.No.3	Short Answer type (10)	2x10= 20

9940

First Year Post Basic B.sc Nursing (Main) Examination Month Year

PSYCHOLOGY

Paper IV

Time: Three Hours
Maximum Marks: 75

Q.1. Long essays (Attempt any Two questions) (10X2=20)

- A. Define psychology, write down methods of psychology. Describe in detail value of psychology in effective nursing?
- B. Define personality & discuss abnormal types of personality?
- C. a) Define learning & explain laws of effective learning.
b) Discuss factors affecting learning process.

Q.2. Short essays (Attempt any Seven questions) (5X7=35)

- 1) Emotion.
- 2) Mental conflict.
- 3) Mind-body relationship.
- 4) Scope of psychology.
- 5) The nervous system in health & illness.
- 6) Intelligence.
- 7) Frustration.
- 8) Characteristics of mentally healthy individual.
- 9) Types of memory.

Q.3. Short answers (2X10=20)

- a) Drives & motives.
- b) Mental health & mental hygiene
- c) Development of attitudes.
- d) Nature & types of stress.
- e) Functions of sense organs.
- f) Definition of Learning
- g) Motivation
- h) Personality
- i) Attitude
- j) Perception

Paper V

Microbiology (9950)

Placement: First Year

Time Allotted: Theory – 60 hrs
Practical – 30 hrs

COURSE DESCRIPTION

This course reorients the students to the fundamentals of Microbiology and its various subdivisions. 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. Identify common disease producing micro-organisms.
2. Explain the basic principles of microbiology and their significance in health and disease.
3. Demonstrate skill in handling specimens.
4. Explain various methods of disinfection and sterilization.
5. Identify the role of the nurse in hospital infection control system.

COURSE CONTENTS

UNIT I

- Structure and classification of Microbes.
- Morphological types
- Size and form of bacteria.
- Motility
- Classification of Micro-organisms.

Practical:

- Use and care of microscope.
- Common examination: Blood smear, Moulds, Yeasts.

UNIT II

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

Practical:

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

UNIT III

- Growth and Nutrition of Microbes
- Temperature
- Moisture
- Blood

Practical:

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

UNIT IV

- Destruction of micro-organisms.
- Sterilization and disinfection
- Chemotherapy and antibiotics
- Effects of 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, Staphylococci, Corynebacteria, Spirochetes and Gonococci and 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
- Helminthic infection
- Diagnosis of parasitic infection
- Vectors and disease transmitted by them.

Practical: Identification of Parasites and Vectors.

UNIT IX

- Viruses.
- Classification and general characteristics of viruses
- Disease 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.

9950

First year Post Basic B.Sc Nursing (Main) Examination Month Year

MICROBIOLOGY

Paper V

Time: Three Hours

Maximum Marks: 75

Q.No.1	Long Essay type (Attempt any two out of three questions)	10x2= 20
Q.No 2	Short Essay type (Attempt any seven out of nine questions)	5x7= 35
Q.No.3	Short Answer type (10)	2x10= 20

9950

First Year Post Basic B.sc Nursing (Main) Examination Month Year

MICROBIOLOGY

Paper V

Time: Three Hours

Maximum Marks: 75

Q.1. Long essays (Attempt any Two questions) (10X2=20)

- A. Define Microbiology, Describe morphology of bacteria?
- B. Define sterilization. Explain moist heat method of sterilization?
- C. Define Infection. Describe infection control programme?

Q.2. Short essays (Attempt any Seven questions) (5X7=35)

- 1) Hospital acquired infection.
- 2) Bio-Medical waste management.
- 3) Standard safety measures.
- 4) Laboratory diagnosis of staphylococcus.
- 5) Laboratory diagnosis of vibrio-cholera.
- 6) Difference between Endotoxin & Exotoxin.
- 7) Growth & Nutrition curve.
- 8) Hyper sensitivity skin test
- 9) Immunization schedule.

Q.3. Short answers (2X10=20)

- a) List down gram positive bacteria.
- b) Define immunity.
- c) List down communicable diseases.
- d) Define colonization.
- e) Define Biomedical waste management.
- f) Disinfectant
- g) Antiseptic
- h) Classification of Virus
- i) Classification of immunity
- j) Hypersensitivity

Paper VI

Maternal nursing (9960)

Placement: First Year

Time Allotted: Theory – 60 hrs
Practical – 240 hrs

COURSE DESCRIPTION

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

OBJECTIVES

At end of the course, the student will

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

COURSE CONTENTS

UNIT I

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

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, 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 & large for date babies.
 - Intensive care of the new born

- Trauma and haemorrhage.

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, Antepartum haemorrhage
- Abnormal labour (malposition & malpresentation)
 - Uterine inertia
 - Disorders of puerperium
 - Management of engorged breast, cracked nipples, breast abscess and mastitis
 - Puerperal sepsis
 - Post partum haemorrhage
 - Inversion and prolapse of uterus, obstetrical emergencies.
 - Obstetrical operations i.e. forceps, vacuum, episiotomy, caesarean section.

UNIT VI

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

UNIT VII

- National Welfare Programmes for women
- National Family Welfare Programme
- Infertile Family
- Problems associated with unwanted pregnancy
- Unwed mothers.

PRACTICUM

1. The 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 health 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, (For male candidates, conduct minimum 5 deliveries)
 - c. Motivation of family for adopting family planning methods.
 - d. Motivate family for Planned Parenthood.
 - e. Assist in various diagnostic and therapeutic procedures including IUD insertion and removal.

9960

First year Post Basic B.Sc Nursing (Main) Examination Month Year

MATERNAL NURSING

Paper VI

Time: Three Hours

Maximum Marks: 75

Q.No.1	Long Essay type (Attempt any two out of three questions)	10x2= 20
Q.No 2	Short Essay type (Attempt any seven out of nine questions)	5x7= 35
Q.No.3	Short Answer type (10)	2x10= 20

9960

First Year Post Basic B.sc Nursing (Main) Examination Month Year

MATERNAL NURSING

Paper VI

Time: Three Hours

Maximum Marks: 75

Q.1. Long essays (Attempt any Two questions) (10X2=20)

- A. Enlist the physiological changes during pregnancy.
- B. Define abortion. Enlist type of abortion and explain habitual abortion.
- C. Define puerperium, list out the complication of puerperium. Explain about post partum psychosis.

Q.2. Short essays (Attempt any Seven questions) (5X7=35)

- 1) Abruptio placenta
- 2) NST
- 3) Female pelvis
- 4) Adoption
- 5) Puerperal sepsis
- 6) Cord prolapse
- 7) Retained placenta
- 8) Pre conceptional counselling
- 9) High risk pregnancy

Q.3. Short answers (2X10=20)

- a) Polyhydramnios
- b) Involution
- c) After pain
- d) Aminocentesis
- e) Preeclampsia
- f) Lightening
- g) Quickening
- h) Retraction
- i) Ectopic pregnancy
- j) Exclusive breast feeding

Paper VII

Child Health Nursing (9970)

Placement: first Year

Time: Allotted: Theory 60 Hrs.
Practical – 240 Hrs.

COURSE DESCRIPTION

This course is aimed at developing an understanding of the modern approach to 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 paediatric nursing and apply them in providing nursing care to children in hospital and community.

COURSE

UNIT I

- Introduction
- Modern concept of child care
- Internationally accepted rights of the child
- National policy and legislations in relation to child health and welfare.
- National programmes related to child health and welfare.
- Changing trends in hospital care, preventive, promotive and curative aspects of child health.
- Child morbidity and mortality rates.
- Differences between an adult and child.
- Hospital environment for a sick child.
- The role of a paediatric nurse in caring for a hospitalized child.
- Principles of pre and post operative care of infants and children.
- Paediatric nursing procedures.

UNIT II

- The healthy child
- Growth and development from birth to adolescence
- The needs of normal children through the stage 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 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 disease
- Nutritional deficiency disorders.
- Respiratory disorders and infections
- Gastrointestinal infections, infestations and congenital disorders.
- Cardio vascular problem-congenital defects and rheumatic fever.
- Genito-urinary disorder – Nephrotic syndrome, Wilms'tumor, infection and congenital disorders.
- Neurological infections and disorders – convulsions, epilepsy, meningitis, hydrocephalus, spinabifida.
- Haematological disorders – anemias, thalassemia, ITP, Leukaemia, haemophilia.
- Endocrine disorders – Juvenile Diabetes Mellitus.
- Disorders of skin, eye and ears.
- Common communicable diseases in children, their identification, nursing management in hospital and home and prevention.
- Paediatric emergencies – poisoning, foreign bodies, haemorrhage, burns and drowning.

UNIT V

- Management of behaviour disorders in children.
- Management of challenged children.
 - Mentally challenged
 - Physically challenged
 - Socially challenged

PRACTICUM

The student will

1. Be posted in paediatric medical and surgical ward, OPD 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 paediatric history
9. 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.

9970

First year Post Basic B.Sc Nursing (Main) Examination Month Year

CHILD HEALTH NURSING

Paper VII

Time: Three Hours

Maximum Marks: 75

Q.No.1	Long Essay type (Attempt any two out of three questions)	10x2= 20
Q.No 2	Short Essay type (Attempt any seven out of nine questions)	5x7= 35
Q.No.3	Short Answer type (10)	2x10= 20

9970

First Year Post Basic B.sc Nursing (Main) Examination Month Year

CHILD HEALTH NURSING

Paper VII

Time: Three Hours

Maximum Marks: 75

Q.1. Long essays (Attempt any Two questions) (10X2=20)

- A. Define Growth & Development, factors affecting growth & development and principles of growth & Development.
- B. Write down hanging trends in hospital care, preventive, promotive and curative aspects of child health.
- C. Define meningitis. Explain clinical manifestation of septic meningitis. Prepare nursing care plan child with meningitis.

Q.2. Short essays (Attempt any Seven questions) (5X7=35)

1. Essential new born care
2. Nursing management of a low birth weight baby
3. Kangaroo mother care
4. Nursing management of common congenital malformations
5. Wills tumors
6. Tetralogy of fallot
7. Birth Asphyxia
8. Rheumatic heart disease
9. Hirshsprung disease

Q.3. Short answers (2X10=20)

- a) Intussusceptions
- b) Breast feeding techniques
- c) Define jaundice
- d) Sucking reflex
- e) APGAR score
- f) Nephrotic syndrome definition
- g) Fetal circulation.
- h) CPR
- i) Hemophalia
- j) Cleft lip and plate

Paper VIII

Medical Surgical Nursing (9980)

Placement: First Year

Time allotted: Theory – 60 hrs.

Practical – 270 hrs.

COURSE DESCRIPTION

The purpose of this course is to widen the students knowledge and develop proficiency in caring for patients with medical surgical problems. This course includes review of relevant anatomy and physiology, pathophysiology in medical-surgical disorders and 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 pathophysiology of various disorders.
3. Explain the actions, side effects and nursing implications in administering drugs for various disorders.
4. Discuss the recent advancement in the treatment and care of patients with medical surgical conditions.
5. Develop skill in giving comprehensive nursing care to patients following the steps of nursing process.
6. Assist the patients and their families in identifying and meeting their own health needs.
7. Appreciate the role of the nurse in the medical surgical health team.

COURSE CONTENTS

UNIT I

- Introduction to medical surgical nursing.
- Review of concepts of comprehensive nursing care in medical surgical conditions.
- Nurse, patient and his/her family.
- Function 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.
- Pathophysiology, diagnostic procedures and management of :
 - Cerebro-vascular accident
 - Cranial, spinal and peripheral neuropathies.
 - Head-ache and intractable pain.
 - Epilepsy.
 - Infectious and inflammatory diseases and trauma of the Nervous System.
 - Common disorders of the system.
 - Recent advances in diagnostic and treatment modalities.
 - Drugs used in these disorders.
 - Tumors of brain & spinal cord, congenital malformations, degenerative diseases.

UNIT IV

- Nursing management of patient with cardiovascular problems.
- Review of relevant anatomy and physiology of cardiovascular system.
- Pathophysiology, diagnostic procedures and management of
 - Ischemic Heart diseases.
 - Cardiac arrhythmias.
 - Congestive heart failure.
 - Rheumatic and other valvular heart diseases.
 - Endocarditis, cardiomyopathies, congenital heart diseases, hypertension, heart block
 - Cardiac emergencies: cardiac arrest, acute pulmonary oedema, cardiac tamponade, cardiogenic shock, aneurysms and peripherovascular disorders, recent advancement in cardiology.

UNIT V

- Nursing management of patient with respiratory problems.
- Review of anatomy and physiology of respiratory system, Pathophysiology, diagnostic procedures and management of upper respiratory tract infections.
 - Bronchitis
 - Asthma
 - Emphysema, empyema, atelectasis, COPD
 - Bronchiectasis
 - Pneumonia
 - Pulmonary tuberculosis
 - Lung abscess
 - Pleural effusion
 - Tumours and Cysts

- Chest injuries
- Respiratory arrest and insufficiency
- Pulmonary embolism
- Drugs used in the management of these patients
- Special respiratory therapies.

UNIT VI

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

UNIT VII

- Nursing management of patients with problems of the digestive systems.
- Review of anatomy and physiology of gastrointestinal system and accessory organs.
- Pathophysiology, diagnostic procedures and management of
 - G.I. Bleeding
 - Peptic ulcer
 - Infections
 - Acute abdomen
 - Colitis, diarrhoea, dysentery & mal-absorption syndrome.
 - Cholecystitis
 - Hepatitis, hepatic coma and cirrhosis of liver
 - Portal hypertension
 - Pancreatitis
 - Tumors, hernias, fistulas, fissures, haemorrhoids.
- Drugs used in management of these patients.

UNIT VIII

- Nursing management of patients with endocrine problems
- Review of anatomy and physiology and patho-physiology of patients with.
 - Thyroid disorders
 - Diabetes mellitus
 - Diabetes insipidus
 - Adrenal tumour
 - Pituitary disorders.
 - Diagnostic procedures
- Nursing management of patient with above problems.

- Drugs used in endocrine problems.

UNIT IX

- Nursing management of patients with musculoskeletal problems.
- Review of anatomy and physiology and Pathophysiology
 - Arthritis, osteomyelitis, bursitis.
 - Fractures, dislocation and trauma
 - Prolapsed disc
 - Osteomalacia and osteoporosis
 - Tumor
 - Amputation
- Diagnostic procedures
- Nursing management of patients with above problems.
- Prosthesis and rehabilitation.
- Transplant & replacement surgeries.

UNIT X

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

UNIT XI

- Nursing management of patients with Oncological disorders.
- Types of neoplasm 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 reproductive tract diseases & STD'S
- Nursing management of patients with immunological disorders including HIV / AIDS

UNIT XIV

- Nursing management of patients with disease 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 disorder
 - Anemia
 - Leukaemia
 - Bleeding disorders
 - Haemophilia
 - Purpura etc.
- Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion.
- Management and counselling of blood donors, phlebotomy procedure, and post donation management.
- Blood bank functioning and hospital transfusion committee
- Bio-safety and waste management in relation to blood transfusion.

UNIT XVI

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

PRACTICAL

- Students should be rotated in the selected medical & surgical area, like cardio Thoracic, Neurology, Urology, Orthopaedics, Gynaecology, Oncology, Burns and Reconstructive surgical units.
- The students should be given patient assignment. They have to practice patient centred comprehensive nursing.
- Each student is required to give planned health teachings, conduct clinical teaching, case presentation and drug study.

9980

First year Post Basic B.Sc Nursing (Main) Examination Month Year

MEDICAL AND SURGICAL NURSING

Paper VIII

Time: Three Hours

Maximum Marks: 75

Q.No.1	Long Essay type (Attempt any two out of three questions)	10x2= 20
Q.No 2	Short Essay type (Attempt any seven out of nine questions)	5x7= 35
Q.No.3	Short Answer type (10)	2x10= 20

9980

First Year Post Basic B.sc Nursing (Main) Examination Month Year

MEDICAL AND SURGICAL NURSING

Paper VIII

Time: Three Hours

Maximum Marks: 75

Q.1. Long essays (Attempt any Two questions) (10X2=20)

- A. Define congestive heart failure. Describe pathophysiology, clinical manifestation of right side heart failure and nursing management.
- B. What is pancreatitis? Discuss clinical manifestation and medical management. Prepare nursing care plan.
- C. Write down pathophysiology of pulmonary tuberculosis. Discuss about DOTS and nursing responsibilities.

Q.2. Short essays (Attempt any Seven questions) (5X7=35)

- 1) Peptic ulcer
- 2) Nursing management of burn patient
- 3) Reconstructive surgery
- 4) Mayo table
- 5) Hernia
- 6) Emergency management of myocardial infarction
- 7) Diabetes mellitus
- 8) Hypertension
- 9) Aplastic anaemia

Q.3. Short answers (2X10=20)

- a) Anemia
- b) Chemotherapy
- c) Stomatitis
- d) Scabies
- e) Fracture
- f) Pagets Disease
- g) Traction
- h) Osteomyelitis
- i) AIDS
- j) Rheumatic fever

Paper XI

English (9990)

Placement: First Year

Time allotted: Theory - 60 hrs.

COURSE DESCRIPTION

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

OBJECTIVES

After the course the students will develop

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

COURSE CONTENTS

UNIT I

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

UNIT II

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

UNIT III

- The study of various forms of composition
 - Note taking
 - Diary
 - Nurses notes, anecdotal records
 - Writing of Summary
 - Nurses reports on health problems

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

UNIT IV

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

PRACTICUM

- The clinical experience in the wards and bed side nursing will provide opportunity for students to fulfil 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.

Second Year Post Basic BSc Nursing

Paper I Sociology (10010)

Placement: Second Year

Time allotted: Theory – 60 Hrs.

COURSE DESCRIPTION

This course is to reorient students to sociology related to community and social institution in India and its relationship with health, illness and nursing

OBJECTIVES

At the end of the course, the student will

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

COURSE CONTENTS

UNIT I

- Introduction
- Importance of study of sociology in nursing, relationship of anthropology, sociology, etc.

UNIT II

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

UNIT III

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

UNIT IV

- Social organization
- Social groups, crowds and public groups, nations, race.
- Social institutions: the family, marriage, education, religion, arts, economic organization, political organization.
- The urban & rural community in India: Ecology, characteristics of the village, characteristics of the town and city.
- Social stratification: Class and caste.

UNIT V

- Social Process
- Process of Social Interaction: Competition, conflict war, cooperation, accommodation and assimilation.

UNIT VI

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

UNIT VII

- Social Problems
- Social disorganization, control & planning: poverty, population, housing, illiteracy, food supplies, growth of urbanization, prostitution, minority groups, rights of women & children, child labour, child abuse, delinquency and crime, substance abuse.

10010

Second year Post Basic B.Sc Nursing (Main) Examination Month Year

SOCIOLOGY

Paper I

Time: Three Hours

Maximum Marks: 75

Q.No.1	Long Essay type (Attempt any two out of three questions)	10x2= 20
Q.No 2	Short Essay type (Attempt any seven out of nine questions)	5x7 = 35
Q.No.3	Short Answer type (10)	2x10 = 20

10010

Second Year Post Basic B.sc Nursing (Main) Examination Month Year

SOCIOLOGY

Paper I

Time: Three Hours

Maximum Marks: 75

Q.1. Long essays (Attempt any Two questions) (10X2=20)

- A. Define Sociology. Explain sociology in nursing.
- B. Define social group and enlist the characteristics of social group.
- C. What is poverty? Explain antipoverty programme in India.

Q.2. Short essays (Attempt any Seven questions) (5X7=35)

- 1) Society
- 2) Culture
- 3) Rural Community
- 4) Crowd
- 5) Difference between society and community
- 6) Features of urban community
- 7) Marriage
- 8) Malthusian theory of population
- 9) Criticism of optimum theory

Q.3. Short answers (2X10=20)

- a) Folkways
- b) Mores
- c) Custom
- d) Diversity of culture
- e) Family
- f) Conflict
- g) Family welfare activity
- h) Hindu marriage act
- i) Polygamy

Paper II

COMMUNITY HEALTH NURSING (10020)

Placement: Second Year

Time Allotted: Theory – 60 hrs

Practical – 240 hrs

COURSE DESCRIPTION

The course enables the students to understand the national health care delivery system and to participate in the delivery of community health nursing.

OBJECTIVES

At the end of the course the student will

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

COURSE CONTENTS

UNIT I

- Introduction
- Introduction to Community Health – Concepts, Principles and elements of Primary Health Care.
- Introduction 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
- Concept, 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

- Organisation and administration of health services in India.
- National health policy
- Health Care Delivery system in India.
- Health team concept
 - Centre, State, district, urban health services, rural health services.
 - System of medicines
 - Centrally sponsored health schemes

- Role of voluntary health organizations and international health agencies.
- Public health legislation.

UNIT IV

- Health Education
 - Aims, concepts and scope of health education.
 - National plan for health education
 - Communication techniques
 - Methods and media for health education programmes
 - Planning for health education and role of nurse.

UNIT V

- Role of the community health nurse
- National health programmes
 - Maternal and child health programmes
 - Family welfare and school health services
 - Occupational health services
- As a member of the health team.
- Training and supervision of health care workers.

UNIT VI

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

UNIT VII

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

PRACTICUM

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

10020

Second year Post Basic B.Sc Nursing (Main) Examination Month Year

COMMUNITY HEALTH NURSING

Paper II

Time: Three Hours

Maximum Marks: 75

Q.No.1	Long Essay type (Attempt any two out of three questions)	10x2= 20
Q.No 2	Short Essay type (Attempt any seven out of nine questions)	5x7 = 35
Q.No.3	Short Answer type (10)	2x10 = 20

10020

Second Year Post Basic B.sc Nursing (Main) Examination Month Year

COMMUNITY HEALTH NURSING

Paper II

Time: Three Hours

Maximum Marks: 75

Q.1. Long essays (Attempt any Two questions) (10X2=20)

- A. Define health, discuss dimension of health.
- B. Describe determinants of health in detail.
- C. Define epidemiology, explain descriptive method of epidemiology

Q.2. Short essays (Attempt any Seven questions) (5X7=35)

- 1) Levels of prevention
- 2) Dynamics of disease
- 3) Measurement of mortality
- 4) Female foeticide
- 5) Occupational health hazards
- 6) AYUSH
- 7) Components of health services.
- 8) School health services
- 9) RNTCP

Q.3. Short answers (2X10=20)

- a) Define health
- b) Define occupational health
- c) Name of the drugs under RNTCP
- d) Concept of home visit
- e) Warning sign of various disease
- f) Measurement of BMI
- g) Function of subcentre
- h) Phase of home visit
- i) Define vital statistics
- j) Population under CHC

Paper III

Mental Health Nursing (10030)

Placement: Second Year

Time Allotted: Theory – 60 hrs
Practical – 240 hrs

COURSE DESCRIPTION

This course enables the students to recognize and appreciate the causes, symptoms and process of abnormal human behaviour. It also introduces the student to the present day treatment modalities in the light of psychological, social and cultural factors affecting human behaviour. This course helps the student to learn principles of mental health and psychiatric nursing and to develop beginning skills in the management of the mentally ill in hospital and community.

OBJECTIVES

At the end of course, the student will

1. Identify and describe the philosophy and principles of mental health nursing.
2. Describe the historical development of mental health and psychiatric nursing.
3. Classify mental disorders.
4. Develop skill in history taking and performing mental status examination.
5. Describe etiological factors, psycho-pathology, clinical features, diagnostic criteria and treatment methods used for mental disorders.
6. Manage the patients with various mental disorders.
7. Communicate therapeutically with patients and their families.
8. Identify role of the nurse in preventive psychiatry.
9. Identify the legal aspects in practice of mental health and psychiatric nursing.

COURSE CONTENTS

UNIT I

- Introduction and Historical Development
- History of psychiatry
- Historical development of mental health nursing.
- Philosophy, principles of mental health and psychiatric nursing.
- Concept of normal and abnormal behaviour.
- Role and qualities of mental health and psychiatric nurse.
- Mental health team and functions of team members.
- Legal aspects in psychiatry and mental health services.

UNIT II

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

UNIT III

- Therapeutic communication
- Communication process

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

UNIT IV

- Management of mental disorders
- Etiological factors. Psychopathology, types, clinical features, diagnostic criteria, treatment and nursing management of patient with following disorders:
 - Neurotic Disorders: Anxiety Neurosis, Depressive Neurosis, Obsessive Compulsive Neurosis, Phobic Neurosis and Hypochondriacal neurosis, Stress related and Somatoform disorders.
 - Psychotic Disorders: Schizophrenic form, affective and organic psychosis.
 - Organic Brain Syndromes
 - Psychosomatic disorders
 - Personality disorders
 - Disorders of childhood and adolescence.

UNIT V

- Management of patients with Substance use disorders
- Substance use and misuse.
- Dependence, intoxication and withdrawal
 - Classification of psychoactive substances
 - Etiological & contributory factors
 - Psychopathology
 - Diagnostic criteria
- Treatment and nursing management of patient with substance use disorder.
- Preventive and rehabilitative aspects in substance abuse.

UNIT VI

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

UNIT VII

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

UNIT VIII

- Therapeutic Modalities
- Principles, indication, contraindications and role of nurse in various treatment methods:
 - Therapeutic community and Milieu therapy
 - Occupational therapy
 - Psychotherapy
 - Behaviour therapy
 - Group therapy

- Family therapy
- Pharmacotherapy
- Electro convulsive therapy
- Other miscellaneous therapies.

UNIT IX

- Preventive psychiatry
- Model of prevention
- Role of nurse in preventive psychiatry
- Psychiatric social work
- Community mental health nursing
- Community mental health agencies
- National mental Health programmes.

PRACTICUM

The student will be provided opportunity to:

- Observe record and report the behaviour of their selected patients.
- Record the process of interaction.
- Assess 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.

10030

Second year Post Basic B.Sc Nursing (Main) Examination Month Year

MENTAL HEALTH NURSING

Paper III

Time: Three Hours

Maximum Marks: 75

Q.No.1	Long Essay type (Attempt any two out of three questions)	10x2= 20
Q.No 2	Short Essay type (Attempt any seven out of nine questions)	5x7 = 35
Q.No.3	Short Answer type (10)	2x10 = 20

10030

Second Year Post Basic B.sc Nursing (Main) Examination Month Year

MENTAL HEALTH NURSING

Paper III

Time: Three Hours

Maximum Marks: 75

Q.1. Long essays (Attempt any Two questions) (10X2=20)

- A. Define mental health nursing. Explain principles of mental health nursing.
- B. What is mood disorder? Enumerate types of mania; describe nursing management of bipolar disorder.
- C. What is withdrawal? Write down classification, route and action of psychotropic substance abuse.

Q.2. Short essays (Attempt any Seven questions) (5X7=35)

- 1. OCD
- 2. Conversion reaction
- 3. Existential Model
- 4. Johari window
- 5. ECT
- 6. PTSD
- 7. Types of crisis
- 8. Rights of mentally ill client
- 9. Institutionalisation V/S Deinstitutionalisation

Q.3. Short answers (2X10=20)

- a) Stress
- b) Phobia
- c) Personality
- d) Grief
- e) Waxy-flexibility
- f) Alzheimer disease
- g) Tolerance
- h) Anxiety
- i) Therapeutic communication
- j) Catatonic Schizophrenia

Paper IV

Introduction to Nursing Education (10040)

Placement: Second Year

Time Allotted: Theory – 60 Hrs.

Practical – 75 Hrs.

COURSE DESCRIPTION

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

OBJECTIVES

At the end of the course, the students will

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

COURSE CONTENTS

UNIT I

- Introduction to education
 - Meaning of education, aims, function and principles.
- Philosophy of education
 - Factors influencing development of Philosophy of nursing education.

UNIT II

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

UNIT III

- Methods of teaching
 - Teaching methods
 - Lecture
 - Discussion
 - Demonstration
 - Group discussion
 - Project
 - Role play
 - Panel discussion
 - Symposium
 - Seminar
 - Field trip

- Workshop
- Exhibition
- Programmed instruction
- Computer
- Clinical teaching methods:
 - Case methods
 - Case presentation
 - Nursing rounds and reports
 - bedside clinic
 - Conference (individual and group)
 - Recording of interaction process.

UNIT IV

- Educational media
- The communication process: factors affecting communication.
- Purposes and types of audio-visual aids.
- Graphics aid: chalk-board, charts, graphs, posters, flash cards, flannel graph/khadigraph, bulletin, cartoon.
- Three dimensional aids: objects, specimen, models, puppets.
- Printed aids: pamphlets and leaflets
- Projected aids: slides, films and 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 procedure, 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 Counselling Definition
- Basic principles of guidance and counselling
- Organization of guidance and counselling services
- Counselling process

- Managing disciplinary problems
- Management of crisis.

UNIT VIII

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

PRACTICUM

Each student should:

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

10040

Second year Post Basic B.Sc Nursing (Main) Examination Month Year

INTRODUCTION TO NURSING EDUCATION

Paper IV

Time: Three Hours

Maximum Marks: 75

Q.No.1	Long Essay type (Attempt any two out of three questions)	10x2= 20
Q.No 2	Short Essay type (Attempt any seven out of nine questions)	5x7 = 35
Q.No.3	Short Answer type (10)	2x10 = 20

10040

Second Year Post Basic B.sc Nursing (Main) Examination Month Year

INTRODUCTION TO NURSING EDUCATION

Paper IV

Time: Three Hours

Maximum Marks: 75

Q.1. Long essays (Attempt any Two questions) (10X2=20)

- A. Define Education. Write aims, functions and principles of education.
- B. Describe the process of assessment in nursing clinical setting.
- C. Describe philosophy of education and maxims of teaching.

Q.2. Short essays (Attempt any Seven questions) (5X7=35)

- 1) Micro teaching
- 2) Seminar
- 3) Lecturer Method
- 4) Audio visual aids
- 5) Scope of evaluation
- 6) Criteria for selection of assessment
- 7) Principles of health education
- 8) Types of counselling
- 9) Johari window

Q.3. Short answers (2X10=20)

- a) Human relation
- b) Aims of education
- c) Symposium
- d) Bedside clinic
- e) Process recording
- f) Checklist
- g) Advantage of group discussion
- h) Nursing care conference
- i) Panel discussion
- j) Role play

Paper V

Introduction to Nursing Service Administration (10050)

Placement: Second Year

Time Allotted: Theory – 60 Hrs.

Practical – 180 Hrs.

COURSE CONTENTS

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

OBJECTIVES

At the end of the course, the student will

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

COURSE CONTENTS

UNIT I

- Principles and Practice of Administration
- Significance, elements and principles of administration.
- Organization of Hospital – Definition, Aims, functions and classifications, health team.
- Policies of hospital, different departments with special emphasis to department of nursing & office management.
- Responsibilities of the nursing personnel especially of ward sister. Medico legal aspects, concept of cost effectiveness.

UNIT II

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

UNIT III

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

UNIT IV

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

UNIT V

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

UNIT VI

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

UNIT VII

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

PRACTICUM

- 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 and assist in maintaining the inventory of the nursing unit.
- Visit to private and Government hospital and write observation reports.

10050

Second year Post Basic B.Sc Nursing (Main) Examination Month Year

INTRODUCTION TO NURSING SERVICES

ADMINISTRATION

Paper V

Time: Three Hours

Maximum Marks: 75

Q.No.1	Long Essay type (Attempt any two out of three questions)	10x2= 20
Q.No 2	Short Essay type (Attempt any seven out of nine questions)	5x7 = 35
Q.No.3	Short Answer type (10)	2x10 = 20

10050

Second Year Post Basic B.sc Nursing (Main) Examination Month Year

INTRODUCTION TO NURSING SERVICES

ADMINISTRATION

Paper V

Time: Three Hours

Maximum Marks: 75

Q.1. Long essays (Attempt any Two questions) (10X2=20)

- A. Define administration and management. Describe principles of management.
- B. Define in-service education. Discuss about method and techniques of in service education
- C. Define nursing as a profession. Discuss about the regulatory bodies in nursing.

Q.2. Short essays (Attempt any Seven questions) (5X7=35)

- 1) Staff development and welfare
- 2) Performance and appraisal
- 3) Leadership
- 4) Role of nurse as a manager
- 5) Recruitment process
- 6) Public relation in nursing
- 7) Collective bargaining
- 8) Organisational behaviour
- 9) Group dynamics

Q.3. Short answers (2X10=20)

- a) Continuing education
- b) Job responsibilities of staff nurse
- c) Scientific management theory
- d) Concepts of management
- e) Decision making
- f) Delegation
- g) Co ordination
- h) Disaster management
- i) Discipline in nursing
- j) Records and reports

Introduction to Nursing Research and Statistics (10060)

Placement: Second Year

Time Allotted: Theory – 45 Hrs.

Practical – 120 Hrs.

COURSE DESCRIPTION

The course is designed to assist the students to develop an understanding of basic concepts of research and statistics, use the findings of nursing research in nursing practice, apply the knowledge in conducting project (s) and solve problems related to nursing using scientific method.

OBJECTIVES

At the end of the course, the students will:-

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

COURSE CONTENTS

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
 - 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.
- Use of correlation co-efficient.

UNIT IX

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

UNIT X

- Introduction to computers in nursing.
- Introduction to computers and disk-operating system.
- Introduction to word processing.
- Introduction to data base.
- Windows applications, word excel, power point, multimedia.
- Use of statistical packages.
- Introduction to Internet & use of electronic mail.
- Computer aided teaching & testing.

PRACTICUM

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

Second Post Basic B.Sc. (Nursing)

INTRO. NURS. RES. STATS.-VI

10060

Second year Post Basic B.Sc Nursing (Main) Examination Month Year

INTRODUCTION TO NURSING RESEARCH AND STATISTICS

Paper VI

Time: Three Hours

Maximum Marks: 75

Q.No.1	Long Essay type (Attempt any two out of three questions)	10x2= 20
Q.No 2	Short Essay type (Attempt any seven out of nine questions)	5x7 = 35
Q.No.3	Short Answer type (10)	2x10 = 20