



# **SRI RAMACHANDRA**

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**(Deemed to be University)**

**Porur, Chennai – 600 116.**

## **REGULATIONS AND SYLLABUS FOR B.Sc. NURSING (POST BASIC) DEGREE COURSE**

**(Revised-INC regulations 2016-17)**

**(Amended 2019-20)**

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## **PHILOSOPHY, AIMS AND OBJECTIVES**

(Adapted from Indian Nursing Council)

### **PHILOSOPHY**

INC believes that:

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

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

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

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

Undergraduate nursing program at the post basic level is a broad based education within an academic framework, which builds upon the skills and competencies acquired at the diploma level. It is specifically directed to the upgrading of critical thinking skills, competencies and 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 lifelong learning.

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

## **AIMS**

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

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

## **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 competencies in techniques of nursing based on concepts and principles from selected areas of nursing, physical, biological and behavioural sciences.
3. Participate as members of health team in the promotive, preventive, curative and restorative health care delivery system of the country.
4. Demonstrate skills in communication and interpersonal relationship.
5. Demonstrate leadership qualities and decision-making abilities in various situations.
6. Demonstrate skills in teaching to individuals, 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.

**REGULATIONS FOR  
B.Sc. NURSING (POST BASIC) DEGREE COURSE**

In exercise of the powers conferred by Rule 8 B (a) of Memorandum of Association & Rules and Clause 21 of Bye-laws of Sri Ramachandra Institute of higher Education and Research (Deemed to be University), Porur, Chennai-600116, the Academic Senate of the University hereby makes the following regulations:-

**SHORT TITLE AND COMMENCEMENT**

These regulations shall be called, "The regulations for the BACHELOR OF SCIENCE IN NURSING (POST BASIC) Degree Course of Sri Ramachandra Institute of higher Education and Research (Deemed to be University, Chennai - 600 116".

These regulations shall be deemed to have come into force from the academic year 2016-2017. These regulations are subject to modifications from time to time by the Academic Senate of the University.

**1. ELIGIBILITY FOR ADMISSION**

Candidates who seek admission to the B.Sc. Nursing (Post Basic) Degree Course:

- (a) Should have qualified in Diploma in Nursing, awarded by a recognized institution and registered with the State Registration Council of Nursing and Midwifery. The candidate should also register with the Tamil Nadu Nurses & Midwives Council.
- (b) After GNM with the registration certificate from the State Nursing Council, the candidate may be permitted to join in B.Sc. Nursing (Post Basic) course without work experience.
- (c) If the registration certificate cannot be obtained immediately, the original evidence for registration in the form of receipt or any other authenticated document issued from the office of the State Nursing Council will be acceptable in lieu of the registration certificate.
- (d) A male nurse trained before the implementation of the new integrated course besides being registered as a nurse with the State Nursing Registration Council shall produce evidence of training approved by the Indian Nursing Council for a similar duration in lieu of in any one of the following areas:
  - OT Techniques
  - Ophthalmic Nursing
  - Leprosy Nursing
  - TB Nursing
  - Psychiatric Nursing
  - Neurological and Neurosurgical Nursing
  - Community Health Nursing
  - Cancer Nursing
  - Orthopaedic Nursing
  - Occupational Nursing
- (e) To be eligible for admission to this course, a candidate shall have:
  - (i) Passed the qualifying examinations i.e. Higher Secondary School Certificate Examination or an equivalent examination from a recognized board or University.
  - (ii) Obtained a certificate in General Nursing and Midwifery and registered as RN, RM with the State Nursing Registration Council
- (f). Physical fitness certificate:

Every candidate before admission to the programme shall be required to submit to the Principal of the institution a Certificate of Medical Fitness from an authorized medical officer certifying that the candidate is physically fit to undergo the academic programme.

## **2. UPPER AGE LIMIT**

There shall be no upper age limit for admission to the B.Sc. Nursing (Post Basic) Degree Course.

## **3. ELIGIBILITY CERTIFICATE**

Candidates before seeking admission shall obtain an Eligibility Certificate from this University by submitting the prescribed application form with the prescribed fee.

## **4. REGISTRATION**

Every candidate admitted to the course shall register his/her name with this University by submitting duly filled in prescribed application form for registration.

## **5. MIGRATION/TRANSFER OF CANDIDATE**

Regarding the transfer/migration of a candidate from one recognized University to Sri Ramachandra Institute of higher Education and Research (Deemed to be University), the Vice-Chancellor shall have the powers to approve and grant permission. However, intake capacity should not be exceeded.

## **6. DURATION OF THE COURSE**

The duration for the B.Sc. Nursing (Post Basic) Degree Course shall be two academic years. The course would be of year pattern.

## **7. COMMENCEMENT OF THE COURSE**

The course will commence from 1<sup>st</sup> October of the every academic year.

## **8. MEDIUM OF INSTRUCTION**

English shall be the medium of instruction for all the subjects of study and for examinations.

## **9. CURRICULUM**

The curriculum and the syllabi for the course shall be as prescribed and subject to modifications from time to time by the Academic Senate

## **10. RE-ADMISSION AFTER BREAK OF STUDY**

- (a) The candidate who is having a break of study of four years and above from the date of his/her first admission to the course and who has more than two spells of break of study will not be considered for re-admission.
- (b) The four years period, for the purpose of break of study, shall be calculated from the date of first admission of the candidate concerned to the course, for the subsequent spells of break of studies.
- (c) Application for re-admission received from a candidate who is having break of study shall be considered, provided that he/she is not subjected to any disciplinary action or no charges are pending or contemplated against him/her.
- (d) All re-admissions of candidates are subject to the approval of the Vice-Chancellor.
- (e) The candidates having a break of study for a period upto four years shall apply for re-admission in the prescribed form remitting the stipulated fee for condonation to the Head of the institution of this University. The candidates may be re-admitted in the corresponding year of study at which he/she discontinued the course at the commencement of the academic session only, and shall undergo a minimum period of study and after fulfillment of the relevant regulations of the University, be permitted to appear for the University examinations. The candidate shall be granted exemption for the subjects she/he has already passed, if examination is conducted in those subject(s).

## **10. WORKING DAYS IN AN ACADEMIC YEAR**

Each year shall consist of not less than 200 working days.

## 11. ATTENDANCE

- (a) No candidate shall be permitted to appear in any one of the parts of the B.Sc. Nursing (Post Basic) Degree Course examinations, unless he/she has attended the course in the subject for the prescribed period in this University and produce the necessary certificates of study attendance, satisfactory conduct and progress from the Head of the Institution.
- (b) Every candidate is required to put in a minimum of 80% of attendance in both theory and practical separately in each subject before admission to the examination.
- (c) A candidate lacking the prescribed attendance and progress in any subject(s) either in theory part or in practical part shall not be permitted for admission to the particular subject(s) examination conducted by the University relating to the year of study of the candidate concerned.
- (d) A candidate must have 100% attendance in each of the practical areas before the award of the degree.
- (e) There shall be no condonation of attendance

## 12. VACATION

The Head of the institution may declare vacation in an academic year to the students for a period not exceeding six weeks.

## 13. INTERNAL ASSESSMENT

### Weightage of marks

#### Theory

- Model exams 60%
- Assignments 40%

#### Practical

- Practical examination 40%
- Clinical evaluation 25% (Evaluation of competency of nursing skills as per practical record, evaluation of each clinical posting as per the prescribed proforma)
- Clinical assignments 25% (Nursing process, care study, care note, clinical presentation, health talk, demonstration, drug book, process recording, midwifery case book, other assignments respective to specialty)
- Field visit / Observation visit 10%

- (a) Regular periodic assessment shall be conducted throughout the course
- (b) At least three different types of tests (objective type, short notes) and two written examinations similar to the pattern of University examination shall be conducted in each subject during a year and the average marks shall be taken into consideration as per the weightage for the award of internal assessment marks.
- (c) At least two practical examinations shall be conducted in each subject (wherever practical have been included in the curriculum) during a year. The two practical examinations, clinical evaluation, clinical assignments and field visit/observation shall be taken into consideration as per the weightage for the award of internal assessment marks.
- (d) A failed candidate in any subject would be provided an opportunity to improve his/her internal assessment marks by conducting a minimum of two examinations in theory and practical separately.
- (e) If a failed candidate does not appear for any "improvement mark examinations" in the failed subject, the internal marks awarded for the previous examinations shall be carried over for his/her subsequent appearance(s).
- (f) The internal marks should be submitted to the Controller of Examinations endorsed by the Head of the Institution 15 days prior to the commencement of the university examinations.
- (g) A minimum of 50% of marks in internal assessment is mandatory in theory and practical separately in each subject both in theory and practical for permitting the candidates to University examinations.

#### 14. CUT-OFF DATES FOR ADMISSION TO UNIVERSITY EXAMINATIONS

Candidates admitted from 1<sup>st</sup> October to 31<sup>st</sup> October of the academic year concerned will be registered to take up their first year examination, after fulfillment of the regulations, in August of the ensuing year.

#### 15. SUBMISSION OF THE PRACTICAL WORK BOOK

At the time of practical examination, each candidate shall submit to the examiners the practical workbook duly certified by the Head of the Institution as a bonafide record of work done by the candidate concerned.

#### 16. COURSE OF INSTRUCTION

##### I Year

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

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

##### II Year

S. No.	Subject	Theory Hours	Practical Hours
1.	Sociology	60	-
2.	Community Health Nursing	70	300
3.	Mental Health Nursing	60	240
4.	Introduction to Nursing Education	60	75
5.	Introduction to Nursing Administration	60	180
6.	Introduction to Nursing Research & Statistics	45	120
	<b>Total</b>	<b>355</b>	<b>915</b>



## 17. SCHEME OF EXAMINATION

### I Year

#### Theory

S. No.	Subject	Duration	Internal Assessment	External Assessment	Total Marks
1.	Nursing Foundation	2***	15	35***	50
2.	Nutrition & Dietetics	2***	15	35***	50
3.	Biochemistry & Biophysics	3	25	75	100
4.	Psychology	3	25	75	100
5.	Microbiology	3	25	75	100
6.	Maternal Nursing	3	25	75	100
7.	Child Health Nursing	3	25	75	100
8.	Medical & Surgical Nursing	3	25	75	100
9.	English (Qualifying)*	3	25	75	100

#### Practical

S. No	Subject	Internal Assessment	External Assessment	Total Marks
1.	Medical & Surgical Nursing	50	50	100
2.	Maternal Nursing	50	50	100
3.	Child Health Nursing	50	50	100

### II Year

#### Theory

S. No	Subject	Duration	Internal Assessment	External Assessment	Total Marks
1.	Sociology	3	25	75	100
2.	Community Health Nursing	3	25	75	100
3.	Mental Health Nursing	3	25	75	100
4.	Introduction to Nursing Education	3	25	75	100
5.	Introduction to Nursing Administration	3	25	75	100
6.	Introduction to Nursing Research & Statistics**	2	50	-	50

#### Practical

S. No	Subject	Internal Assessment	External Assessment	Total Marks
1.	Community Health Nursing	50	50	100
2.	Mental Health Nursing	50	50	100
3.	Research Project	50	-	50

**Note :** \* Qualifying Examination

\*\* College Examination (not University Examination)

\*\*\*University examination is conducted for a duration of 3 hours for 75 marks and converted to 35 marks

## 18. QUESTION PAPER PATTERN

### Introduction to Nursing Research & Statistics (Internal Examination)

#### Nursing Research (30 marks)

- |                |        |          |                          |
|----------------|--------|----------|--------------------------|
| 1. Essay       | 1 x 10 | 10 marks | (with choice 1 out of 2) |
| 2. Short Notes | 4 x 5  | 20 marks | (with choice 4 out of 6) |

#### Statistics (20 marks)

- |                |        |          |                          |
|----------------|--------|----------|--------------------------|
| 1. Essay       | 1 x 10 | 10 marks | (with choice 1 out of 2) |
| 2. Short Notes | 2 x 5  | 10 marks | (with choice 2 out of 3) |

#### Total 50 marks

#### For all other subjects

- |                |        |          |                          |
|----------------|--------|----------|--------------------------|
| 1. MCQ'S       | 20 x 1 | 20 marks |                          |
| 2. Essays      | 2 x 15 | 30 marks | (with choice 2 out of 3) |
| 3. Short Notes | 5 x 5  | 25 marks | (with choice 5 out of 8) |

#### Total 75 marks

#### 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 mark 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.
6. Candidate's mark sheet and degree certificate will be withheld until completion of requirements.

## 19. COMMENCEMENT OF THE EXAMINATION

There shall be two sessions of University examinations in an academic year, viz. August and February, regular examination in August followed by supplementary examination in February

## 20. MARKS QUALIFYING FOR A PASS

A candidate shall be declared to have passed the examination if he/she obtains the following qualifying marks:

- (a) 33% of marks in the University theory examination for English subject.
- (b) 50% of marks in theory in the subjects where University examinations are conducted and 50% marks in the aggregate in University theory examination and internal evaluation taken together in the subject.
- (c) 50% of marks in the University theory examinations, 50% marks in University practical examination and 50% of marks in the aggregate in theory, practical and internal evaluation marks taken together.
- (d) 50% of marks in the subjects where internal evaluation alone is conducted.

## 21. CARRY- OVER OF FAILED SUBJECTS

- (a) A candidate has to pass in theory and practical exam separately in each of the paper.
- (b) If a candidate fails in either theory or practical he / she has to re-appear for both the components (Theory and Practical).
- (c) A candidate can take any number of attempts within the maximum prescribed period of four years.
- (d) A candidate who fails in any subject can be promoted to the next year. However all papers need to be cleared before appearing in the final examination.

## 22. Practical Examination

1. Maximum number of candidates for practical examination should not exceed 20 per day
2. An examiner should be a Lecturer or above in a College of Nursing with M.Sc. (N) qualification in the concerned subject and minimum of 3 years of teaching experience.
3. All practical examinations must be held in the respective clinical areas
4. One internal and One external examiner should jointly conduct practical examination for each student

## 23. RE-TOTALING AND REVALUATION OF ANSWER PAPERS:

- i. The candidate is eligible to apply for re-totalling of marks in theory answer papers only
- ii. The candidate can apply for revaluation in the prescribed format along with the laid down fee and the original marks sheet issued by the university through the Principal and it should reach the University office (Academic Section) within 7 days from the date of issue of statement of marks.

## 24. CLASSIFICATION OF SUCCESSFUL CANDIDATES:

A successful candidate

- (i) Who secures not less than 75% in the aggregate marks shall be declared to have secured '**FIRST CLASS WITH DISTINCTION**' provided he/she passes the whole examination in the FIRST ATTEMPT
- (ii) Who secures not less than 60% in the aggregate marks and completes the course within the stipulated course period shall be declared to have passed the examinations in the '**FIRST CLASS**'
- (iii) Who secures 50% and above and less than 60% in the aggregate marks and completes the course within the stipulated course period shall be declared to have passed the examinations in the '**SECOND CLASS**'
- (iv) All other successful candidates shall be declared to have **PASSED** the examinations

**First year  
NURSING FOUNDATION**

**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 the student to the current concepts involved in the practice of nursing and developments in the nursing profession.

**OBJECTIVES**

At the end of the course, the student will

1. Identify professional aspects of nursing.
2. Explain theories of nursing.
3. Identify ethical aspects of nursing profession.
4. Utilize steps of nursing process.
5. Identify the role of the 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 NURSING AS A PROFESSION**

**Hours - 08**

- 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 CONCEPT OF HEALTH AND ILLNESS**

**Hours - 08**

- 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-school, school age, pre-adolescent, adolescent, adulthood, middle-age, old age

**UNIT III CONCEPT OF NURSING THEORIES**

**Hours - 03**

- 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**

**Hours - 12**

- 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 IMPROVEMENT**

**Hours - 03**

- Quality assurance: nursing standards, nursing audit, total quality management
- Role of council and professional bodies in the maintenance of standards

## UNIT VI CONCEPTS OF NURSING PRACTICE

Hours - 11

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

### METHODS OF TEACHING

Lecture cum discussion, Assignments, Practical

### METHODS OF EVALUATION

Written test, assignments

### REFERENCES

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## NUTRITION & DIETETICS

**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 BALANCED DIET

Hours -07

- 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 THERAPEUTIC DIETS

Hours -07

- Introduction to diet therapy
- Routine hospital diets
- Therapeutic diet under each unit i.e. Cardiovascular diseases, Gastrointestinal diseases, Renal disorders, Endocrine and metabolic disorders, Allergy, Infections and fevers, Pre and post operative stages, Deficiency diseases and malnutrition, overweight and underweight.

#### UNIT III DIETARY REQUIREMENT FOR CHILDREN

Hours - 10

- 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 methods 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

Hours -06

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

## **PRACTICUM**

### **I. Methods of cooking and cookery rules**

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

### **II. Preparation of supplementary food**

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 in instructions for home adaptation
4. Planning of therapeutic diets

## **METHODS OF TEACHING**

Lecture cum discussion, cooking and demonstration

## **METHODS OF EVALUATION**

Written test, assignments

## **REFERENCES**

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## BIOCHEMISTRY & BIOPHYSICS

**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 IMPORTANCE OF BIOCHEMISTRY IN NURSING

**Hours -03**

- Introduction
- Study of cell and its various components

#### UNIT II WATER AND ELECTROLYTES IN HUMAN BODY

**Hours -04**

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

#### UNIT III ENZYMES

**Hours -03**

- 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 METABOLISM OF CARBOHYDRATES

**Hours -08**

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

#### UNIT V METABOLISM OF PROTEIN

**Hours -08**

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

#### UNIT VI METABOLISM OF FAT

**Hours -04**

- 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 CONCEPTS OF UNIT AND MEASUREMENTS**

**Hours -03**

- Introduction
- Fundamental and derived units
- Units of length, weight, mass, time

**UNIT II VECTOR AND SCALAR MOTION**

**Hours -02**

- Speed, velocity and acceleration

**UNIT III EFFECT OF GRAVITATIONAL FORCES ON HUMAN BODY**

**Hours -02**

- Gravity: Specific gravity, center of gravity, principles of gravity
- Application of principles of gravity in nursing

**UNIT IV BODY MECHANICS**

**Hours -03**

- 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 REGULATION OF BODY TEMPERATURE**

**Hours -04**

- 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 USE OF LIGHT IN THERAPY**

**Hours -03**

- 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 MEASUREMENTS OF PRESSURES IN THE BODY**

**Hours -03**

- 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 USE OF ULTRASOUND**

**Hours -02**

- Sound: Frequency, Velocity and Intensity
- Vocalisation and hearing
- Use of Ultrasound, Noise pollution and its prevention
- Applications of these principles in nursing

**UNIT IX USE OF ELECTROMAGNETISM IN DIAGNOSIS****Hours -04**

- 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 USE OF RADIOACTIVE ISOTOPES IN PATIENT CARE****Hours -02**

- 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 USE OF ELECTRONIC EQUIPMENT IN PATIENT CARE****Hours -02**

- Principles of Electronics: Common electronic equipments used in patient care

**PRACTICUM**

Experiments and Tests should be demonstrated wherever applicable

**METHODS OF TEACHING**

Lecture, Discussion, Observation

**METHODS OF EVALUATION**

Written test and assignments

**REFERENCES**

1. Briggs, G.M., & Calloway, D.H. (1979). *Bogert's nutrition and physical fitness*. Philadelphia: W.B. Saunders Co.
2. Chatterjee, M.N., & Shinde, R. (2011). *Text book of medical biochemistry* (8<sup>th</sup> ed.). New Delhi: Jaypee Brothers.
3. Deb, A. C. (2001). *Fundamentals of bio-chemistry* (7<sup>th</sup> ed.). Kolkata, India: New Central Book Agency.
4. Flirter, H. H. (2008). *An introduction to physics in nursing* (5<sup>th</sup> ed.). Michigan: C. V. Mosby.
5. Ramamoorthy, P. (2015). *Textbook of biochemistry for paramedical students* (1<sup>st</sup> ed.). Bengaluru, India: Jaypee Brothers Medical Publishers.
6. Sathya Narayanan, U. (2008). *Biochemistry* (3<sup>rd</sup> ed.). Kolkata, India: Books and Allied Publications Ltd.
7. Shanmugam Ambika. (2012). *Fundamentals of biochemistry for medical students* (7<sup>th</sup> ed.). Chennai, India :Kartik Offset Printers.
8. Sharma, S.K. (2014). *Text book of biochemistry & biophysics for nurses*. Bengaluru, India: Jaypee Brothers Medical Publishers.
9. Southerland, M.W. (1989). *Biochemistry: Foundations of medicine*. London: Churchill Livingstone.
10. Thayalan, K . (2007). *Bio-medical physics for nurses* (1<sup>st</sup> ed.). Bengaluru, India: Jaypee Brothers Medical Publishers.

## PSYCHOLOGY

**Placement:** First year

**Time Allotted:** Theory – 60 Hrs.  
Practical – 15 Hrs.

### COURSE DESCRIPTION

This course is designed to reorient and widen the student's knowledge of fundamentals of psychology. The student is offered an opportunity to apply the theoretical concepts in the clinical setting and thereby understand the psychodynamics of patient 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 PSYCHOLOGICAL PROCESS IN HEALTH AND ILLNESS Hours -05

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

#### UNIT II PSYCHODYNAMICS OF HUMAN BEHAVIOUR Hours 05

- 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 Hours -05

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

#### UNIT IV EMOTIONS Hours -05

- Definition of emotions, expression and perception
- Emotions in sickness

#### UNIT V PERSONALITY Hours -05

- Personality: Definition, Constituents of personality
- Personality in sickness and nursing

#### UNIT VI PSYCHOLOGICAL ASPECTS OF NURSING Hours -06

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

#### UNIT VII INDIVIDUAL DIFFERENCES Hours -03

- 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****Hours -06**

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

**UNIT IX LEARNING****Hours -05**

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

**UNIT X MEMORY AND FORGETTING****Hours -05**

- Definition and nature of memory
- Memory during health and sickness
- Forgetting during health and sickness

**UNIT XI ATTITUDES****Hours -05**

- Definition, Development and modification
- Role of attitudes in health and sickness

**UNIT XII MENTAL HEALTH****Hours -05**

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

**PRACTICUM**

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

**METHODS OF TEACHING**

Lecture cum discussion, observation

**METHODS OF EVALUATION**

Written test, assignments

**REFERENCES**

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2. Bhatia, B. D., & Craig, M. (2013). *Elements of psychology and mental hygiene for nurses in India* (3<sup>rd</sup> ed.). Hyderabad, India: Universities Press.
3. Hurlock Elizabeth, B. (2007). *Developmental psychology* (5<sup>th</sup> ed.). New Delhi: Tata McGraw Hill Publishing.
4. Luge, J.D, & Harshey, J. L. (1981). *Living psychology* (3<sup>rd</sup> ed.). New Delhi: MacMillan Publishing Co, Inc.
5. Morgan, C. T. (1997). *Brief introduction to psychology* (2<sup>nd</sup> ed.). New Delhi: Tata McGraw Hill Publishing Co.Ltd.
6. Morris, C. G. (2004). *Psychology: An introduction* (12<sup>th</sup> ed.). New Jersey: Prentice -Hall.
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8. Salgado, A.B. (2010). *Introductory psychology for nursing and allied health sciences*. New Delhi: Jaypee Brothers.
9. Sreevani, R. (2013). *Psychology for nurses* (2<sup>nd</sup> ed.). New Delhi: Jaypee Brothers Medical Publishers.
10. Walker, J., Payne, S., Smith, P., & Jarrett, N. (2007). *Psychology for nurses and the caring professions (social science for nurses and the caring professions)* (3<sup>rd</sup> ed.). United Kingdom: Open University Press.

## MICROBIOLOGY

**Placement:** First year

**Time Allotted:** Theory – 60 Hrs.  
Practical – 30 Hrs.

### COURSE DESCRIPTION

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

Hours -07

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

#### PRACTICAL

Hours -04

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

#### UNIT II IDENTIFICATION OF MICRO-ORGANISMS

Hours -05

- Discussion of laboratory methods
- Diagnosis of bacterial diseases

#### PRACTICAL

Hours -04

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

#### UNIT III PREPARATION OF MEDIA AND CULTURE TECHNIQUE

Hours -07

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

#### PRACTICAL

Hours -04

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

#### UNIT IV METHODS OF DISINFECTION AND STERILIZATION

Hours -07

- Destruction of Micro-organisms
- Sterilization and disinfection
- Chemotherapy and antibiotics
- Effects of heat and cold
- Hospital Infection control procedure & role of nurses
- Universal precautions, Biomedical Waste Management
- Related Legal Issues

<b>PRACTICAL</b>	<b>Hours -04</b>
<ul style="list-style-type: none"> <li>• Sterilization methods – Physical, Chemical and Mechanical</li> </ul>	
<b>UNIT V CONTROL OF HOSPITAL INFECTIONS</b>	<b>Hours -07</b>
<ul style="list-style-type: none"> <li>• Disease producing micro-organisms</li> <li>• Gram positive bacilli</li> <li>• Tuberculosis and Leprosy</li> <li>• Anaerobes</li> <li>• Cocci</li> <li>• Spirochaete</li> <li>• Rickettsiae</li> </ul>	
<b>PRACTICAL</b>	<b>Hours -06</b>
<ul style="list-style-type: none"> <li>• Identification and study of the following bacteria: Streptococci, Pneumococci, Staphylococci, Gonococci, Corynebacteria, Spirochetes and Enteric bacteria. Posting in infection control department</li> </ul>	
<b>UNIT VI FUNGAL INFECTIONS</b>	<b>Hours -05</b>
<ul style="list-style-type: none"> <li>• Pathogenic Fungi</li> <li>• Dermatophytes</li> <li>• Systemic Mycotic infection</li> <li>• Laboratory diagnosis of Mycotic infection</li> </ul>	
<b>UNIT VII SEROLOGICAL METHODS</b>	<b>Hours -06</b>
<ul style="list-style-type: none"> <li>• Immunity</li> <li>• Immunity and hypersensitivity – Skin test</li> <li>• Antigen and antibody reaction</li> <li>• Immunization in disease</li> </ul>	
<b>PRACTICAL</b>	<b>Hours -06</b>
<ul style="list-style-type: none"> <li>• Demonstration of serological methods</li> </ul>	
<b>UNIT VIII PARASITIC INFESTATIONS</b>	<b>Hours -06</b>
<ul style="list-style-type: none"> <li>• Parasites and Vectors</li> <li>• Characteristics and classification of parasites</li> <li>• Protozoal infection including amoebiasis</li> <li>• Helminthetic infestation</li> <li>• Diagnosis of parasitic infection</li> <li>• Vectors and diseases transmitted by them</li> </ul>	
<b>PRACTICAL</b>	<b>Hours -02</b>
<ul style="list-style-type: none"> <li>• Identification of Parasites and Vectors</li> </ul>	
<b>UNIT IX VIRAL INFECTIONS AND THEIR CONTROL</b>	<b>Hours -05</b>
<ul style="list-style-type: none"> <li>• Viruses</li> <li>• Classification and general character of viruses</li> <li>• Diseases caused by viruses in man and animal and their control</li> </ul>	
<b>UNIT X FOOD AND WATERBORNE INFECTIONS</b>	<b>Hours -05</b>
<ul style="list-style-type: none"> <li>• Micro-organisms transmitted through food</li> <li>• Food and Water borne Infections, food poisoning</li> </ul>	

## **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. Observational visit to incinerator, posting in CSSD and infection control department.

## **METHODS OF TEACHING**

Lecture cum discussion, Observation

## **METHODS OF EVALUATION**

Written test, assignments

## **REFERENCES**

1. Ananthanarayanan, R., & Jayaram Panickar, C.K. (2005). *Textbook of microbiology* (7<sup>th</sup> ed.). New Delhi: Orient Blackswan.
2. Bhatia, R., & Ichhpujani, R.L. (2003). *Microbiology for nurses* (2<sup>nd</sup> ed.). New Delhi: Jaypee Brothers Medical Publishers.
3. Frobisher, (1974). *Fundamentals of microbiology* (9<sup>th</sup> ed.). Boston: Thomson Learning.
4. Gupte, S. (2011). *The short textbook of medical microbiology for nurses* (1<sup>st</sup> ed.). New Delhi: Jaypee Brothers Medical Publishers.
5. Josephine, A. M. (2013). *Microbiology in patient care*. London, UK: MacMillan.
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7. Wilson, M.E., Helen, E. M. & Josephine, A. M. (1997). *Microbiology in patient care* (6<sup>th</sup> ed.). New York, USA: William C. Brown.

## MATERNAL NURSING

**Placement:** First year

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

### COURSE DESCRIPTION

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

### OBJECTIVES

At the 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, labour, puerperium and neonates 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

Hours -04

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

#### UNIT II REVIEW OF THE ANATOMY AND PHYSIOLOGY OF FEMALE REPRODUCTIVE SYSTEM

Hours -05

- Female pelvis (normal and contracted)
- Review of Foetal Development

#### UNIT III MANAGEMENT OF NORMAL PREGNANCY, LABOUR AND PUERPERIUM

Hours -15

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

#### UNIT IV CARE OF NEWBORN

Hours -05

- 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

Hours -25

- 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 FOR MOTHER AND BABY**

**Hours -03**

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

#### **UNIT VII NATIONAL WELFARE PROGRAMMES FOR WOMEN**

**Hours -03**

- 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 examinations
- b. Conduct normal delivery, stitching of episiotomy, (Minimum conduct of five deliveries for male candidates and two deliveries for female candidates)
- 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

#### **METHODS OF TEACHING**

Lecture cum discussion, nursing care study, demonstration, clinical presentation and field visit

#### **METHODS OF EVALUATION**

Written and practical tests, care studies, clinical evaluations, assignments, report of observational visits and maternity record book

#### **REFERENCES**

1. Dutta, D. C., & Konar, H. (2014). *Text book of Obstetrics: Including perinatology and contraception* (8<sup>th</sup> ed.). Calcutta, India: New Central Book Agency.
2. Dawn, C.S., (2003). *Textbook of Obstetrics and Neonatology* (16<sup>th</sup> ed.). Calcutta, India: Dawn Book.
3. Fraser, D., & Cooper, M. A. (2010). *Myles textbook for midwives* (15<sup>th</sup> ed.). Edinburgh: Churchill Livingstone.
4. Lowdermilk, D. L., Perry, S. E., & Bobak, I.M. (2014). *Maternity & women's health care* (8<sup>th</sup> ed.). St. Louis, MO: Mosby.
5. Park, K., & Park, J. E. (2015). *Park's textbook of preventive and social medicine* (23<sup>rd</sup> ed.). Jabalpur: Banarsidas Bhanot.
6. Pillitteri, A. (2007). *Maternal & child health nursing: Care of the childbearing & childrearing family* (5<sup>th</sup> ed.). Philadelphia, PA: Lippincott Williams & Wilkins.
7. Reeder, S. J., Martin, L. L., & Koniak, D. (2014). *Maternity nursing: Family, newborn, and women's health care* (19<sup>th</sup> ed.). Philadelphia: Lippincott.
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## CHILD HEALTH NURSING

**Placement:** First year

**Time Allotted:** Theory – 60Hrs.  
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 concepts 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.

### UNIT I INTRODUCTION

**Hours -10**

- 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 NORMAL GROWTH AND DEVELOPMENT OF CHILDREN

**Hours -12**

- 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 MANAGEMENT OF NEONATAL DISORDERS

**Hours -06**

- 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

**Hours -30**

- Nutritional deficiency disorders
- Respiratory disorders and infections
- Gastrointestinal infections, infestations and congenital disorders
- Cardio vascular problem-congenital defects and rheumatic fever
- Genito-urinary disorder – Nephrotic syndrome, Wilms' tumor, infection and congenital disorders

- Neurological infections and disorders – convulsions, epilepsy, meningitis, hydrocephalus, spinabifida
- Hematological disorders – Anemias, thalassemia, ITP, Leukemia, hemophilia
- Endocrine disorders – Juvenile Diabetes Mellitus
- Orthopaedic disorders – club foot, hip dislocation and fracture
- Disorders of skin, eye and ears
- Common communicable diseases in children, their identification, nursing management in hospital and home and prevention
- Paediatric emergencies – poisoning, foreign bodies, hemorrhage, burns and drowning

## **UNIT V MANAGEMENT OF BEHAVIOUR DISORDERS IN CHILDREN**

**Hours -02**

- Management of challenged children:
  - Mentally challenged
  - Physically challenged
  - Socially challenged

### **PRACTICUM**

The student will:

1. Be posted in paediatric medical and surgical ward, OPD in hospital, health center and neonatal unit
2. Visit a center for handicapped children and child welfare center 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 center

Practice the following nursing procedures

7. Taking paediatric history
8. Physical assessment of children
9. Baby bath
10. Feeding
11. Restraining
12. Calculation of dosage of drugs and administration of medications and injections
13. Collection of specimens
14. Enema, bowel wash, colostomy irrigation
15. Steam and Oxygen inhalation
16. Preparation to assist with diagnostic tests and operations
17. Examination / Assessment of a newborn
18. Neonatal resuscitation
19. Care of a baby in incubator and on ventilator
20. Photo therapy
21. Assist in exchange transfusion and other therapeutic procedures

### **METHODS OF TEACHING**

Lecture cum discussion, field visits, demonstration and clinical presentation.

### **METHODS OF EVALUATION**

Written and practical tests, Assignments, clinical evaluation, nursing care study, observational report

### **REFERENCES**

1. Assuma Beevi. (2009). *Text book of paediatric nursing* (1<sup>st</sup> ed.). Noida, New Delhi: Elsevier.
2. Basvanthappa, B.T. (2008) *Paediatric /child health nursing* (1<sup>st</sup> ed.). Bangalore, India: Ahuja book
3. Ghai, O. P. (2014). *Essential pediatrics* (8<sup>th</sup> ed.). New Delhi : CBS Publishers & Distributors.
4. Hockenberry, M. J., & Wilson, D.(2013). *Wong's essentials of pediatric nursing* (9<sup>th</sup> ed.). St. Louis: Elsevier
5. Hockenberry, M. J., & Wilson, D. W. (2015). *Wong's Nursing care of infants and children* (10<sup>th</sup> ed.). Philadelphia: Elsevier.
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9. Parul Datta. (2007). *Paediatric nursing* (1<sup>st</sup> ed.). New Delhi: Jaypee Brothers Medical Publishers.

10. Pillitteri, A. (2010). *Maternal & child health nursing: Care of the childbearing & child rearing family* (6<sup>th</sup>ed.). Philadelphia: Lippincott Williams & Wilkins.
11. Piyush Gupta. (2011). *Essential pediatric nursing* (3<sup>rd</sup> ed.). New Delhi: Elsevier.
12. Potts, N. L., & Mandleco, B. L. (2011). *Pediatric nursing: Caring for children and their families* (3<sup>rd</sup> ed.). Australia: Cengage learning.
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## MEDICAL AND SURGICAL NURSING

**Placement:** First year

**Time Allotted:** Theory – 90 Hrs.  
Practical – 270 Hrs.

### COURSE DESCRIPTION

The purpose of this course is to widen the student's 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

Hours - 03

- Review of concepts of comprehensive nursing care in medical surgical conditions
- Nurse, patient and his / her family
- Functions of nurse in the outpatient department
- Intensive care unit

#### UNIT II NURSING MANAGEMENT OF PATIENT WITH SPECIFIC PROBLEMS

Hours - 04

- Fluid and electrolyte imbalance
- Dyspnoea and cough, respiratory obstruction
- Fever
- Shock
- Unconsciousness
- Pain
- Acute illness
- Chronic illness
- Terminal illness
- Age related illness
- Patient undergoing surgery
- Incontinence

#### UNIT III NURSING MANAGEMENT OF PATIENT WITH NEUROLOGICAL AND NEUROSURGICAL CONDITIONS

Hours - 08

- Review of anatomy and physiology of the nervous system
- Pathophysiology, diagnostic procedures and management of:
  - Cerebro-vascular accident
  - Cranial, spinal and peripheral neuropathies
  - Headache and intractable pain
  - Epilepsy
  - Infectious and inflammatory diseases and trauma of the nervous system
  - Common disorders of the system
  - Recent advances in diagnostic and treatment modalities
  - Drugs used in these disorders
  - Tumors of brain & spinal cord, congenital malformations, degenerative diseases

**UNIT IV NURSING MANAGEMENT OF PATIENT WITH CARDIOVASCULAR PROBLEMS** Hours - 08

- 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 peripheral vascular disorders, recent advancement in cardiology

**UNIT V NURSING MANAGEMENT OF PATIENT WITH RESPIRATORY PROBLEMS** Hours - 08

- Review of anatomy and physiology of respiratory system, pathophysiology, diagnostic procedures and management of 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** Hours - 06

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

**UNIT VII NURSING MANAGEMENT OF PATIENTS WITH PROBLEMS OF THE DIGESTIVE SYSTEM**  
Hours - 08

- 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 the management of these patients

**UNIT VIII NURSING MANAGEMENT OF PATIENTS WITH ENDOCRINE PROBLEMS** **Hours - 06**

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

**UNIT IX NURSING MANAGEMENT OF PATIENTS WITH MUSCULOSKELETAL PROBLEMS** **Hours - 06**

- 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** **Hours - 04**

- Disorder of menstruation
- Infections of the genital tract
- Benign and malignant tumors of the genital tract
- Recto-vaginal fistula, vesico-vaginal fistula
- Climacteric changes and associated problems

**UNIT XI NURSING MANAGEMENT OF PATIENTS WITH ONCOLOGICAL DISORDERS** **Hours - 04**

- 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** **Hours - 05**

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

**UNIT XIII NURSING MANAGEMENT OF PATIENTS WITH COMMON COMMUNICABLE DISEASES & STDs** **Hours - 04**

- Nursing management of patients with common communicable diseases & STDs
- 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** **Hours - 06**

**UNIT XV NURSING MANAGEMENT OF PATIENTS WITH BLOOD DISORDERS** **Hours - 07**

- Review of Anatomy & Physiology of Blood and Blood products
- Pathophysiology, diagnostic procedures and management of blood disorders
  - Anemia
  - Leukemia

- Bleeding disorders
- Hemophilia
- Purpura etc.
- Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion
- Management and counseling of blood donors, phlebotomy procedure and post donation management
- Blood bank functioning and hospital transfusion committee
- Bio-safety and waste management in relation to blood transfusion

#### **UNIT XVI NURSING MANAGEMENT OF EMERGENCIES**

**Hours - 03**

- Cardiac emergencies
- Trauma
- Poisoning
- Crisis management: Thyroid crisis, hypertensive crisis, adrenal crisis

#### **PRACTICUM**

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

#### **METHODS OF TEACHING**

Lecture cum discussion, nursing care study, demonstration, clinical teaching, clinical presentation.

#### **METHODS OF EVALUATION**

Written and practical tests, clinical evaluation, nursing care study.

#### **REFERENCES**

1. Barbara, L. C., & Rutowski. (1982). *Carini & Owen's neurological and neurosurgical nursing* (8<sup>th</sup> ed.). London: C. V. Mosby Co.
2. Black, M. J., & Matassarin-Jacobs, E. (1993). *Luckmann, & Sorensen's medical surgical nursing-a psychophysiological approach* (4<sup>th</sup> ed.). Philadelphia: W. B. Saunders.
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5. Carpenito, J. L. (2014) *Nursing care plans: Transitional patient & family centered care* (6<sup>th</sup> ed.). Philadelphia: Wolters Kluwer/Lippincott Williams, & Wilkins.
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## ENGLISH

**Placement:** First year

**Time Allotted:** Theory – 60 Hrs.

### COURSE DESCRIPTION

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

### OBJECTIVES

After the course the 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 GRAMMAR

**Hours -10**

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

#### UNIT II COMPREHENSION

**Hours -15**

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

#### UNIT III COMPOSITION

**Hours -20**

- 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 COMMUNICATIONS

**Hours -15**

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

### PRACTICUM

- The clinical experience in the wards and bedside nursing will provide opportunity for students to fulfill the objectives of learning language
- Assignment on writing and conversation through participation in discussion, debates, seminars and symposia. The students will gain further skills in task oriented communication

### METHODS OF TEACHING

Lecture, Discussion, Conversational Practice and use of Information, communication, technology (ICT) in the English language lab

### METHODS OF EVALUATION

Written Test, Verbal Communication, Written Assignments, Practice Exercise and Quiz

## REFERENCES

1. Allum, V., & McGarr, P. (2009). *Cambridge English for nursing*. New York: Cambridge University Press.
2. Capel, A., Sharp, W., & Black, M. (2007). *Objectives IELTS*. New York: Cambridge University Press.
3. Daniel, J. (2006). *English pronunciation dictionary* (17<sup>th</sup> ed.). Cambridge: Cambridge University Press.
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13. Selva Rose. (2006). *Career English for nurses* (2<sup>nd</sup> ed.). Hyderabad, India: Universities Press.
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## Second year

### SOCIOLOGY

**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

**Hours -05**

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

##### UNIT II SOCIALIZATION

**Hours -07**

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

##### UNIT III CULTURE

**Hours -05**

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

##### UNIT IV SOCIAL ORGANIZATIONS

**Hours -15**

- Social groups, crowds and public groups, nations, race
- Social institutions: The family, marriage, education, religion, arts, economic organization and 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

**Hours -07**

- Process of Social Interaction: Competition, conflict-war, co-operation, accommodation and assimilation

##### UNIT VI SOCIAL CHANGE

**Hours -07**

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

##### UNIT VII SOCIAL PROBLEMS

**Hours -14**

- 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

#### METHODS OF TEACHING

Lecture cum discussion

#### METHODS OF EVALUATION

Written test and assignments

## REFERENCES

1. Andersen, L.M. (2014). *Sociology: The essentials* (8<sup>th</sup> ed.). Boston : Wadsworth Publishing.
2. Ahuja , R.(2012). *Social problems in India*. New Delhi: Rawat Publications.
3. Bushnan, V.(2013). *Text book of sociology for nurses* (47<sup>th</sup> ed.). Allahabad, India: Kitab Mahal.
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## COMMUNITY HEALTH NURSING

Placement: Second year

Time Allotted: Theory – 70 Hrs.  
Practical – 300 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 CONCEPTS OF PRIMARY HEALTH CARE

Hours - 8

- 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
- Organization of labour room
- Safe child birth checklist
- Postpartum visits by health workers
- Micro birth planning
- Transportation of baby and common accidents and mishaps in labour room
- Suturing of superficial wounds
- Postpartum Intra Uterine Contraceptive Device (PPIUCD)

#### UNIT II FAMILY HEALTH SERVICES

Hours – 6

- 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
- Throat problems and febrile seizure in children
- Food borne diseases
- Surveillance and monitoring
- Counselling -GATHER Approach
- Infant and young child feeding and counseling
- Adolescent counseling
- Climate change and its impact on Health
- Air pollution and its impact on Health
- Heat Waves and its impact on Health

#### UNIT III ORGANIZATION AND ADMINISTRATION OF HEALTH SERVICES IN INDIA

Hours - 12

- National health policy
- Health Care Delivery system in India

- Health team concept
  - Centre, State, district, urban health services, rural health services (IPHS guidelines) and use of equipment
  - Financial Management, Accounts and Computing at Sub - Centre
  - System of medicines and Drug dispensing
  - Centrally sponsored health schemes
  - Role of voluntary health organizations and international health agencies
  - Role of health personnel in the community
  - Programme management including supervision and monitoring
  - Public health legislation
  - Diagnosing and treatment skills essential at sub-centre level using Standard treatment protocols as per national health programmes
  - Middle-level health provider (MLHP): Concepts, Roles and responsibilities
  - Biomedical waste management and biomedical waste management rules 2016

#### **UNIT IV HEALTH EDUCATION**

**Hours - 6**

- 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
- Social mobilization skills
- Behavior change communication and soft skills

#### **UNIT V HEALTH PROGRAMMES**

**Hours - 22**

- Role of the community health nurse
- National Health Programmes
  - National vector borne disease control programme –malaria, lymphatic filariasis, Japanese encephalitis, kala-azar, dengue fever, chikungunya fever
  - Tuberculosis control programme
  - Leprosy control and eradication programme
  - Sexually transmitted disease control programme, aids
  - National programme for prevention and control of diabetes, cardiovascular diseases and stroke
  - National programme for prevention of visual impairment and control of blindness
  - National goitre control programme
  - National family welfare programme
  - National water supply & sanitation programme
  - Minimum needs programme
  - 20 point programme
  - National health mission - rural and urban health mission
  - National Programme for Prevention and Control of Fluorosis (NPPCF)
  - National Tobacco Control Programme (NTCP)
  - National Programme for Health Care of the Elderly(NPHCE)
  - AYUSHMAN BHARAT
  - Introduction to Rashtriya Bal Sureksha Karyakaram (RBSK)
  - Integrated Disease Surveillance Project (IDSP)
  - Mother and Child Tracking System (MCTS)
  - Mental health act, drug de-addiction programmes

#### **MCH Programmes**

- Reproductive and child health programme
- Family planning 2020

- Universal Immunisation Programme
- Diarrhoeal diseases control programme
- ARI control programme
- Vitamin A prophylaxis programme
- Nutrition across life cycle and update on national nutritional programmes
- Anemia control programme
- Family welfare services
- Occupational health services
- School health services
- As a member of the health team
- Training and supervision of health care workers

#### **UNIT VI EPIDEMIOLOGY**

**Hours - 9**

- Definition – Concepts, aims, objectives, methods, principles
- Epidemiology – Theories and Models
- Application of Epidemiology, principles and concepts in community health
- Time trends in disease occurrence in epidemiology
- Investigation of an outbreak

#### **UNIT VII BIO STATISTICS AND VITAL STATISTICS**

**Hours - 7**

- Introduction, definition and scope, legislation
- Sources of vital statistics
- Report, recording and compiling of vital statistics at the local, state, national and international level
- Electronic Medical Records (EMR)
- 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 counseling and guidance and family budgeting for optimum health
  - The students will participate in the activities of primary health center, sub-centre, MCH center, Programme Study Centre/ District Hospital, Urban Primary Health Centre, Community Health Centre (CHC) [Schedule of posting: 50 days; Centre/ District Hospital - 22 days; Community Health Centre (CHC) -10 days; Primary Health Centre (PHC) 10 days; Sub Centre (SC) - 6 days; Urban Primary Health Centre (UHC) - 2 days]
- Visits will be made to selected health and welfare agencies, water purification plant and sewage disposal plant, Infectious disease hospital
- Conduct health educational programmes for individual/groups/community

#### **METHODS OF TEACHING**

Lecture cum discussion, observational visit, demonstration, field visit

#### **METHODS OF EVALUATION**

Written and practical test, care study, assignments, clinical evaluation, MLHP book recording.

#### **REFERENCES**

1. Clark, J.M. (2008). *Community health nursing (5<sup>th</sup> ed.)*. Virginia: Prentice Hall
2. Kasthuri Sundar Rao. (2009). *Introduction to community health nursing (4<sup>th</sup> ed.)*. New Delhi: BI Publications.
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## MENTAL HEALTH NURSING

**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 MENTAL HEALTH NURSING

Hours -10

- 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

Hours -10

- 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

Hours -05

- Communication process
- Interview skills, therapeutic communication techniques. Nurse Patient Relationship, Therapeutic impasses and its management. Process recording

#### UNIT IV NURSING MANAGEMENT OF MENTAL DISORDERS

Hours -10

- 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 Hypochondrial 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      Hours -05**

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

**UNIT VI MANAGEMENT OF MENTAL SUB-NORMALITY      Hours -03**

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

**UNIT VII PSYCHIATRIC EMERGENCIES      Hours -05**

- 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      Hours -05**

- 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      Hours -05**

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

**UNIT X: ISSUES RELATED TO MANAGEMENT OF PSYCHIATRIC HOSPITALS / UNITS      Hours -02**

**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 centers
  - De-addiction center

## METHODS OF TEACHING

Lecture, discussion, demonstration, clinical presentation, nursing care studies

## METHODS OF EVALUATION

Written and practical tests, care studies, clinical evaluations, assignments

## REFERENCES

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## INTRODUCTION TO NURSING EDUCATION

**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 and curriculum development
3. Develop the ability to teach, using various methods and media
4. Describe the process of assessment
5. Describe the administrative aspects of school of nursing
6. Participate in planning and organizing an in-service education programme
7. Develop basic skill of counseling and guidance

### COURSE CONTENTS

#### UNIT I INTRODUCTION TO EDUCATION, PRINCIPLES AND CONCEPTS OF EDUCATION Hours -05

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

#### UNIT II CURRICULUM DEVELOPMENT

Hours -10

- a. Teaching Learning Process  
Nature and characteristics of learning, principles and maxims of teaching
- b. Curriculum Development: Definitions, types, Major factors influencing curriculum development, Principles and steps in curriculum development, formulation of philosophy and objectives, Selection and Organization of learning experiences, course plan, Unit plan and Lesson plan, Correlation of theory and practice and evaluation in curriculum

#### UNIT III METHODS OF TEACHING

Hours -10

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

**UNIT IV EDUCATIONAL MEDIA****Hours -10**

- 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, Videos, overhead projector, camera, microscope
- Audio-aids: audio-recorder, public address system, computer

**UNIT V METHODS OF ASSESSMENT****Hours -10**

- 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, Checklist. Practical Examination, Viva, Objective structured clinical examination
- Assessment of attitude: Attitude scale

**UNIT VI MANAGEMENT OF SCHOOL OF NURSING****Hours -05**

- 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 COUNSELING****Hours -05**

- 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****Hours -05**

- 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 inservice education programme
- Conduct at least one counseling session
- Prepare rotation plans

**METHODS OF TEACHING**

Lecture cum discussion, Different methods of teaching - Seminar, Panel discussion, Symposium, role-play

**METHODS OF EVALUATION**

Classroom teaching, Written test, Assignments

## REFERENCES

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## INTRODUCTION TO NURSING SERVICE ADMINISTRATION

**Placement:** Second year

**Time Allotted:** Theory – 60 Hrs.  
Practical – 180 Hrs.

### COURSE DESCRIPTION

This course is designed to give an opportunity to the student to gain an understanding of the 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 NURSING SERVICE ADMINISTRATION

Hours -06

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

#### UNIT II NURSING UNIT MANAGEMENT

Hours -15

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

#### UNIT III PERSONNEL MANAGEMENT

Hours -12

- 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

Hours -09

- 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****Hours -06**

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

**UNIT VI FINANCIAL MANAGEMENT****Hours -03**

- Budgeting – Principles of budgeting, audit

**UNIT VII ORGANIZATIONAL BEHAVIOUR****Hours -09**

- 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

**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

**METHODS OF TEACHING**

Lecture cum discussion, observation, field visits

**METHODS OF EVALUATION**

Written test, assignments

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## INTRODUCTION TO NURSING RESEARCH AND STATISTICS

**Placement:** Second year

**Time Allotted:** Theory – 45 Hrs.  
Practical – 120 Hrs.

### COURSE DESCRIPTION

The course is designed to assist the students to develop and understand the 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 NURSING RESEARCH

##### UNIT I CONCEPT OF NURSING RESEARCH

Hours -03

- Steps of scientific methods
- Definition of research
- Need for nursing research
- Characteristics of good research.
- Research Process

##### UNIT II RESEARCH IN NURSING

Hours -03

- Statement of research problem
- Statement of purpose and objectives
- Definition of research terms
- Review of literature

##### UNIT III RESEARCH APPROACHES

Hours -06

- Historical, survey and experimental

##### UNIT IV SAMPLING TECHNIQUES AND METHODS OF DATA COLLECTION

Hours -07

- Sampling
- Instruments-questionnaire. Interview
- Observation schedule, records, measurements
- Reliability and validity of instruments

##### UNIT V ANALYSIS OF DATA

Hours -06

- Tabulation
  - Classification and summarization
  - Presentation
  - Interpretation of data

##### UNIT VI COMMUNICATION OF RESEARCH FINDINGS

Hours -05

- Writing Report
  - Organizing materials for writing
  - Format of the report
  - Use of computers

## B. INTRODUCTION TO STATISTICS

### UNIT VII DESCRIPTIVE STATISTICS

Hours -05

- 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 INFERENTIAL STATISTICS

Hours -04

- Computation by rank difference methods
- Correlation co-efficient
- Chi square

### UNIT IX VITAL AND HEALTH STATISTICS

Hours -03

- Crude rates and standardized rates, ratio and estimation of the trends

### UNIT X INTRODUCTION TO COMPUTERS IN NURSING

Hours -03

- 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 and use of electronic mail
- Computer aided teaching and 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)

### METHODS OF TEACHING

Lecture cum discussion, Project

### METHODS OF EVALUATION

Written test, Assignments, Research Project, practice exercises

### REFERENCES

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