AMRITAVISHWA VIDYAPEETHAM
(Deemed University)
Ettimadai, Coimbatore – 641105
Tamil Nadu, India.

B.Sc Nursing (Basic) Degree Curriculum
(From 2006 Admission)

Managed by Mata Amritanandamayi Math
Amritapuri, Kollam, Kerala, India – 690 525.
Tomorrow’s world will be shaped by today’s children. In their tender minds, it is easy to cultivate universal human values. If you walk through a field of soft, green grass a few times; you will quickly make a path; whereas it takes countless trips to forge a trial on a rocky hillside. Teaching of universal spiritual principles and human values should be a standard part of the general education, not only the responsibility of the family. This should not be delayed any further, for if there is delay, the future generations will be lost to the world.

_Sri Mata Amritanandamayi Devi, “Living in Harmony”_

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Content</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Philosophy</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Aim and Objectives</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Admission Requirements</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>Course Duration</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Examination &amp; Evaluation Grade</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>Course of Instruction</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>Scheme of Examination</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>Value Based Education</td>
<td>10</td>
</tr>
<tr>
<td>9</td>
<td>Anatomy including Histology</td>
<td>11</td>
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<tr>
<td>10</td>
<td>Physiology</td>
<td>14</td>
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<tr>
<td>11</td>
<td>Microbiology</td>
<td>17</td>
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<td>12</td>
<td>Nutrition</td>
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<td>Biochemistry</td>
<td>22</td>
</tr>
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<td>Sociology</td>
<td>24</td>
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<tr>
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<td>General Psychology</td>
<td>27</td>
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<tr>
<td>16</td>
<td>Foundations of Nursing</td>
<td>30</td>
</tr>
<tr>
<td>17</td>
<td>Introduction to Community Health</td>
<td>43</td>
</tr>
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<td>18</td>
<td>English</td>
<td>48</td>
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<td>Introduction to Computer Application</td>
<td>50</td>
</tr>
<tr>
<td>20</td>
<td>Medical Nursing including Dermatological and Communicable disease Nursing</td>
<td>52</td>
</tr>
<tr>
<td>21</td>
<td>Surgical Nursing including Operating Room Technique, Eye and ENT Nursing</td>
<td>63</td>
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<td>22</td>
<td>Community Health Nursing – I including Community Medicine</td>
<td>72</td>
</tr>
<tr>
<td>23</td>
<td>Pharmacology</td>
<td>80</td>
</tr>
<tr>
<td>24</td>
<td>Pathology</td>
<td>84</td>
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<tr>
<td>25</td>
<td>Medical Surgical Nursing – II (Adult including Geriatrics)</td>
<td>87</td>
</tr>
<tr>
<td>26</td>
<td>Child Health Nursing</td>
<td>96</td>
</tr>
<tr>
<td>27</td>
<td>Mental Health Nursing</td>
<td>105</td>
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<tr>
<td>28</td>
<td>Nursing Research and Statistics</td>
<td>117</td>
</tr>
<tr>
<td>29</td>
<td>Obstetrical and Gynecological Nursing</td>
<td>122</td>
</tr>
<tr>
<td>30</td>
<td>Community Health Nursing – II</td>
<td>141</td>
</tr>
<tr>
<td>31</td>
<td>Nursing Administration</td>
<td>148</td>
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<td>32</td>
<td>Nursing Education</td>
<td>154</td>
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</table>
Bachelor of Science in Nursing [B.Sc Nursing (Basic)] programme AMRITA VISHWA VIDYAPEETHAM (Deemed University) is four year degree course with one year compulsory internship. Value based education is integrated into the curriculum to uphold the Indian culture and values.

**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 a right of all the people. Individuals, families and communities have a responsibility towards maintaining their health.

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

Scope of nursing practice encompasses provision of promotive, preventive, curative and rehabilitative aspects of care to people across their life span in wide variety of health care settings. Practice of nursing is based upon application of basic concepts and principles derived from the physical, biological and 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 is broad based education within an academic framework specifically directed to the development 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 life long learning.

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

The aim of the undergraduate nursing program is to:

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

Objectives

On completion of the four year B.Sc Nursing program the graduate will be able to:

1. Apply knowledge from physical, biological, and behavioral sciences, medicine including alternative systems and nursing in providing nursing care to individuals, families and communities.
2. Demonstrate understanding of life style and other factors, which affect health of individuals and groups.
3. Provide nursing care based on steps of nursing process in collaboration with the individuals and groups.
4. Demonstrate critical thinking skill in making decisions in all situations in order to provide quality care.
5. Utilize the latest trends and technology in providing health care
6. Provide promotive, preventive and restorative health services in line with the national health policies and programmes.
7. Practice within the framework of code of ethics and professional conduct, and acceptable standards of practice within the legal boundaries.
8. Communicate effectively with individuals and groups, and members of the health team in order to promote effective interpersonal relationships and teamwork.
9. Demonstrate skills in teaching to individuals and groups in clinical / community health settings.
10. Participate effectively as members of the health team in health care delivery system.
11. Demonstrate leadership and managerial skills in clinical / community health settings.
12. Conduct need based research studies in various settings and utilize the research findings to improve the quality of care.
13. Demonstrate awareness, interest, and contribute towards advancement of self and of the profession.
14. Demonstrate personal characteristics and attitudes (like personal integrity, responsibility, reliability and showing concern for other individuals) required for professional life.
Title of the Course: B.Sc. Nursing (Basic) Degree

REGULATIONS RELATING TO
B Sc. NURSING (BASIC) DEGREE PROGRAMME
(FOUR YEAR WITH ONE YEAR COMPULSORY INTERNSHIP)

Eligibility for admission

1. The minimum age for admission shall be 17 years on or before 31st of December of the year of admission.
2. The minimum educational requirement shall be passing of:
   Higher Secondary School Certificate Examination (12 years course)
   Or
   Senior School Certificate Examination (10+2), Pre-Degree Examination (10+2)
   Or
   An equivalent with 12 years schooling from a recognized Board or University with Science (Physics, Chemistry, Biology) and English with minimum of 50% aggregate marks (PCBE).
3. Candidate shall be medically fit.

Criteria for selection of the candidates

Selection of the candidate is based on the Common Entrance Test conducted by the AMRITA Vishwa Vidyapeetham (Deemed University)

Duration

Duration of the course : 4 years of study plus one year compulsory Internship
Weeks available per year : 52 Weeks
Vacation/holidays : 6 weeks (4 weeks vacation plus 2 weeks calendar holidays)
Examination (including preparatory) : 4 weeks
Extra curricular activities : 2 weeks
Weeks available : 40 weeks
Hours per week : 40 hours
Theory : 10 hours per week
Practical : 30 hours per week
Hours available per academic year : 1600 (40 weeks x 40 hours)
Internship : 1 year.

Attendance

1. A candidate must have a minimum of 80% attendance (irrespective of the kind of absence) in theory and practical separately in each subject to be eligible to appear for the University Examination. However, the students should have 100% attendance in each of the practical areas before admitting to the next year.
2. Maximum of 10% (Theory/Practical) may be condoned by the University on a genuine reason.
3. A candidate who is absent for a period of 60 days or more continuously within a period of three months during an academic year, shall not be eligible to continue the course with the same batch of students.
Internal assessment

1. Regular periodic assessment shall be conducted throughout the course. At least three sessional examinations in theory and preferably two practical examinations should be conducted in each subject. The model examination should be of the same pattern of the University Examination. Average of the three examinations and the marks obtained in assignments also shall be taken to calculate the internal assessment.
2. A candidate should secure a minimum of 35% mark in the internal assessment in each subject (separately in theory and practical) to be eligible to appear for the University examination.
3. The candidate shall submit a record of the clinical work done in that year duly attested by the Principal of College of Nursing.
4. The internal assessment marks shall be submitted to the University 10 days prior to the commencement of the University Examinations.

Examination

1. University Examination shall be conducted twice in a year at an interval of five to six months as specified by the University
2. A candidate who satisfies the requirement of attendance including value based education class attendance, internal assessment marks, as stipulated by the University shall be eligible to appear for the University Examination
3. Candidate shall register for all parts of the examination in the first attempt.
4. A candidate who has undergone the prescribed course of study for a period of not less than 10 (ten) months of the academic year only can appear for the examination.
5. Candidate should score a minimum of 40% marks in theory and practical separately in each subject for university examination.
6. The minimum pass for internal assessment is 35% and for the University examination is 40%. However, the student should score a total of 50% (adding the internal and external examination) to pass, in each subject (separately for theory and practical).
7. If a candidate fails in either theory or practical paper, he/she has to re-appear for both the paper (theory and practical).
8. Maximum number of attempts permitted for each paper is three including the first attempt.
9. Candidate can be admitted to next year if he/she fails in not more than two subjects. If the candidate fails in more than two subjects he/she shall continue the course with the junior batch.
10. Candidate shall not be admitted to the subsequent higher examination unless he/she has passed the previous examination.
11. The maximum period to complete the course shall not exceed 8 years.
12. All practical examinations should be conducted in the respective clinical areas.
13. Number of candidates for practical examination should be maximum 12 to 15 per day.
14. One internal and external examiner should jointly conduct the practical examination for each student.
15. An examiner in the nursing subject should be an Assistant Professor or above in a College of Nursing with M.Sc Nursing in the concerned subject and must have minimum of three years of teaching experience. To be an examiner in Foundations of Nursing, M.Sc faculty in any specialty with three years of teaching shall be considered.

Evaluation and grade

1. Minimum mark for pass shall be 50% in each of the theory and practical papers separately (including internal assessment) in all subjects except English. Only a minimum of 40% is required to pass in English.
2. A candidate who passes the examination in all subjects with an aggregate of 50% marks and above and less than 65% shall be declared to have passed the examination in the second class.
3. A candidate who passes the examination in all subjects in the first attempt obtaining not less than 65% of the aggregate marks for all the four years shall be declared to have passed the examination with **First class**.

4. A candidate who secures an aggregate of 75% or above marks is awarded **distinction**. A candidate who secures not less than 75% marks in any subject will be deemed to have passed the subject with distinction in that subject provided he/she passes the whole examination in the first attempt.

5. A candidate who passes the examination in subsequent appearance shall be ranked only in second class.

6. **Rank** in the examination: - Aggregate marks of all four year regular examinations have been considered for awarding rank for the B.Sc (Basic) Nursing Degree Examination (A consolidated mark list consisting of marks of all four year examination shall be given to all the students.)

**Course of Instruction**

**1. First Year**

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Subject / Area</th>
<th>Theory (In hrs) {Class &amp; Lab}</th>
<th>Practical (In hrs) {Clinical}</th>
<th>Others (in hrs)</th>
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<td><strong>PART I – BIOLOGICAL SCIENCES</strong></td>
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<tr>
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<td>Paper II - Physiology</td>
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<td>3</td>
<td>Paper III - Microbiology</td>
<td>65</td>
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<td>Paper IV - Nutrition</td>
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<td>Biochemistry</td>
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<td><strong>PART II – SOCIAL AND BEHAVIOURAL SCIENCES</strong></td>
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<td>6</td>
<td>Paper I - Sociology</td>
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<td>7</td>
<td>Paper II - General Psychology</td>
<td>60</td>
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<td><strong>PART III – NURSING I</strong></td>
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<td>8</td>
<td>Paper I - Foundations of Nursing</td>
<td>465 (265+200)</td>
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<td><strong>PART IV – COMMUNITY HEALTH</strong></td>
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<td><strong>PART V - English</strong></td>
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<td><strong>PART VI - Introduction to Computer</strong></td>
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### II. Second Year

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<th>Practical (In hrs) {Clinical}</th>
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<tr>
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<tr>
<td>1</td>
<td>Paper I - Medical Nursing including Dermatology and Communicable disease Nursing</td>
<td>120 (90+10+20)</td>
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<td>2</td>
<td>Paper II - Surgical Nursing including Operating Room Technique, Eye and ENT Nursing</td>
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### III. Third Year

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**IV. Fourth Year**

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**Scheme of Examination**

**I. First Year**

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<td>Paper II-Physiology</td>
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<td>Paper II - General Psychology</td>
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<td><strong>PART III – NURSING I</strong></td>
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<td>Paper I - Foundations of Nursing</td>
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<td>*PART V - English</td>
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<td>*PART VI - Introduction to Computer Application</td>
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## II. Second Year

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<td><strong>PART I-MEDICAL SURGICAL NURSING –I</strong></td>
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<td>Paper I - Medical Nursing including Pathology, Dermatology and Communicable disease</td>
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<td>Paper II - Surgical Nursing including OR Technique, Eye and ENT Nursing</td>
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<td><strong>PART II –COMMUNITY HEALTH NURSING</strong></td>
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<td>Community Health Nursing –I (*Including Community Medicine)</td>
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### Practical & Viva voce

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<td></td>
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<td>Hours</td>
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<tr>
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<td>Paper I - Medical Nursing</td>
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<td><strong>Total</strong></td>
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* Section A will be Community Health Nursing & Section B will be Community Medicine

The theory content covered in 1st Year B.Sc Nursing under Introduction to Community Health will be included for examination in Community Health Nursing I

** Indicates that the marks written first is for the first subject and the second for the subject / subjects written subsequently.

## III. Third Year

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<th>Sl.No</th>
<th>Subject</th>
<th>Assessment</th>
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### Practical & Viva voce

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**IV. Fourth Year**

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**TOTAL MARKS OF B.Sc NURSING**

- **YEAR I** - 1000
- **YEAR II** - 750
- **YEAR III** - 850
- **YEAR IV** - 700

**GRAND TOTAL** - 3300
**Value Based Nursing Education**

Amrita Vishwa Vidyapeetham emphasizes not only the academic performance of the student in nursing but also the development of values in life like showing concern for other individuals, reliability, responsibility and personal integrity to mould them into a human being in the real sense. As Amma says “the main purpose of education should be to impart a culture of the heart – a culture based on spiritual values”

Apart from our own faculty members, resource persons from outside also are involved in conducting the various sessions. The students are oriented to various topics like Interpersonal relationship, Motivation, Relaxation, Personality development, Indian philosophy, Charity etc. through group discussions, role plays and involvement in various community activities. A detailed curriculum on value based education is in preparation.

There will be no University examination on these subjects. But, only those students who are actively participating in these activities will be eligible for consideration for moderation benefits in the University examination.

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“Children should be taught to be humble towards their teachers and towards all spiritual masters. Learning, especially that of a spiritual nature will be fruitful only if planted in the soil of humility. There are those who think that a child attending school need not do any other work, but that is not true. To be given only a school education is far from adequate as a preparation for life. The child should also learn to help his or her parents with all the tasks at home.”

Sri Mata Amritanadamayi Devi, “Immortal Life”
Published by Mata Amritanadamayi Mission Trust, 9th edition, Page no: 106.

“Children should be brought up with an understanding of their culture, and they should be taught to be proud of it. They should be given names that reflect their culture and that remind us of God and the spiritual masters. Fill the children with impressions of God from an early age by telling them stories about the divine incarnations and the saints. At one time in India, every one was taught Sanskrit, the language of the scriptures, from a very early age. This helped people to absorb the seeds of spirituality early in life. Even those who didn’t learn the scriptures directly lived their lives based on spiritual principles because they associated with people who had been taught the scriptures.”

Sri Mata Amritanadamayi Devi, “Immortal Life”
Published by Mata Amritanadamayi Mission Trust, 9th edition, Page no: 110 & 111.
ANATOMY INCLUDING HISTOLOGY

Placement: 1st Year B.Sc Nursing

Allotted Hours : 100
Theory : 80 Hours
Practical : 20 Hours

COURSE DESCRIPTION

This course is designed to enable the students to acquire knowledge of the normal structure of various human body systems, identify alterations in anatomical structure and apply this knowledge in the practice of Nursing.

BEHAVIORAL OBJECTIVES

On completion of the course, the students will be able to:

• Describe the basic anatomical concepts and terms.
• Describe the structure of different systems of human body.
• Identify the alterations of structure in diseases.
• Apply the knowledge of anatomy in the practice of nursing.

UNIT I: - ANATOMICAL TERMS AND ORGANISATION OF THE HUMAN BODY (6Hrs)

• Anatomical terms.
• Human cell structure.
• Tissues: definition, types, characteristics, classification, location, functions and formation.
• Membranes and glands: classification and structure.
• Alterations in disease.
• Applications in Nursing.

UNIT II:- SKELETAL SYSTEM (8Hrs)

• Bones: types, structure, description of appendicular and axial skeleton.
• Bone formation and growth.
• Joints: formation and classification, structure.
• Alterations in disease.
• Applications in Nursing.

UNIT III:- MUSCULAR SYSTEM (7Hrs)

• Muscles: types, structure, muscle groups.
• Alterations in disease.
• Applications in Nursing.

UNIT IV:- NERVOUS SYSTEM (8Hrs)

• Structure of neurons, neuroglia.
• Central nervous system: structure of brain and spinal cord.
• Peripheral nervous system.
• Alterations in disease.
• Applications in Nursing.

UNIT V: SENSORY ORGANS  (6Hrs)

• Structure of skin, eye, tongue, ear and nose (auditory and olfactory apparatus)
• Alterations in disease.
• Applications in Nursing.

UNIT VI: CIRCULATORY AND LYMPHATIC SYSTEM  (10Hrs)

• The circulatory system.
  Blood: microscopic structure.
  Structure: heart, blood vessels - arterial and venous system.
  Circulation: systemic, pulmonary, coronary and portal.
• Lymphatic system: lymphatic vessels and lymph,
  lymphatic tissues: thymus gland, lymph nodes, spleen, lymphatic nodule.
• Alterations in disease.
• Applications in Nursing.

UNIT VII: THE RESPIRATORY SYSTEM  (7Hrs)

• Structure: organs of respiration; muscles of respiration - intercostals and diaphragm.
• Alterations in disease.
• Applications in Nursing.

UNIT VIII: THE DIGESTIVE SYSTEM  (9Hrs)

• Structure: alimentary tract and accessory organs of digestion.
• Alterations in disease.
• Applications in Nursing.

UNIT IX: THE URINARY SYSTEM  (6Hrs)

• Alterations in disease.
• Applications in Nursing.

UNIT X: THE ENDOCRINE SYSTEM  (6Hrs)

• Structure: pituitary, pancreas, thyroid, parathyroid, thymus and adrenal glands.
• Alterations in disease.
• Applications in Nursing.

UNIT XI: THE REPRODUCTIVE SYSTEM INCLUDING BREAST  (7Hrs)

• Structure: reproductive organs – male, female.
• Structure of breast.
• Alterations in disease.
• Applications in Nursing.
PRACTICAL

- Demonstration of cavities and contents of a cadaver cell – tissues, membranes and glands. Basic knowledge of preparation of slides of tissues.
- Examination of structure of joints on human cadaver, study of gross and microscopic structure of skeletal muscles.
- Study of gross and microscopic structure of muscles
- Demonstration of organs in a cadaver, slides for microscopic structure.
- Microscopic structure of nerve cells and fibers.
- Demonstration of structure of eye and ear.
- Demonstration of lymph vessels, nodes and spleen in a cadaver, study of the structure of the heart in a cadaver, study of blood vessels in a cadaver.
- Demonstration of respiratory system in a cadaver.
- Demonstration of digestive system in a cadaver.
- Demonstration of urinary system in a cadaver.
- Demonstration of endocrine system in a human cadaver.

METHODS OF TEACHING

1. Lecture cum discussion
2. Demonstration

METHODS OF EVALUATION

1. Written Examination
2. Oral Examination
3. Written Assignments

REFERENCES

PHYSIOLOGY

Placement: 1st Year B.Sc Nursing. Allotted Hours : 90
Theory : 80 Hours
Practical : 10 Hours

COURSE DESCRIPTION

This course is designed to assist the students to acquire knowledge of the normal physiology of various human body systems, the alterations in disease process and apply this knowledge in the practice of Nursing.

BEHAVIOURAL OBJECTIVES

On completion of the course, the students will be able to:

- Describe the functions of cell, membranes and glands.
- Describe the functions of each system of the body based on the principles of physiology.
- Identify the physiological alterations in disease.
- Apply the knowledge of the principles of physiology in the practice of Nursing.

UNIT I:- CELL PHYSIOLOGY

- Tissue: formation, repair.
- Membranes and glands: functions.
- Alterations in diseases.
- Applications in Nursing.

UNIT II:- SKELETAL SYSTEM

- Bone: formation and growth, functions.
- Bones: movements of bones of axial and appendicular skeleton.
- Joints and joint movement.
- Alteration in diseases.
- Applications in Nursing.

UNIT III:- MUSCULAR SYSTEM

- Muscle: movements, muscle tone, physiology of muscle contraction, level and maintenance of posture.
- Alterations in diseases.
- Applications in Nursing.

UNIT IV:- NERVOUS SYSTEM

- Functions of neurons, neuralgia and nerves.
- Stimulus and nerve impulse: definitions and mechanism.
- Functions of brain and spinal cord; cranial and spinal nerves.
- Cerebrospinal fluid: composition, circulation and function.
- Reflex arc, reflex action and reflexes.
- Function of thalamus, hypothalamus, ganglion, and cerebellum.
• Autonomic functions: pain, somatic, visceral and referred,
• autonomic learning and bio-feedback.
• Alterations in diseases.
• Applications in Nursing.

UNIT V:- CIRCULATORY SYSTEM  
(12Hrs)

• Blood: formation, composition, functions, blood groups, blood coagulation.
• Hemoglobin: structure, synthesis, and breakdown, variation of molecules, estimation.
• Heart: functions, conduction system, cardiac cycle.
• Circulation: principles, control, factors influencing Blood Pressure and pulse.
• Alterations in diseases.
• Applications in Nursing.

UNIT VI:- THE RESPIRATORY SYSTEM  
(6Hrs)

• Functions of respiratory organs, physiology of respiration.
• Pulmonary respiration, volume.
• Mechanics of ventilation.
• Gaseous exchange in lungs, carriage of oxygen and carbon dioxide, exchange of gases in tissues, regulation of respiration.
• Alterations in diseases.
• Applications in Nursing.

UNIT VII:- THE DIGESTIVE SYSTEM  
(9Hrs)

• Functions of organs of digestive tract, movements of alimentary tract, digestion in mouth, stomach, small intestine and large intestines, absorption of food.
• Functions of liver, gall bladder and pancreas.
• Metabolism of carbohydrates, protein and fat.
• Alterations in diseases.
• Applications in Nursing.

UNIT VIII:- THE URINARY SYSTEM  
(6Hrs)

• Functions of kidney, ureters, urinary bladder and urethra.
• Composition of urine, mechanism of urine formation, role of kidney in fluid and electrolyte balance; acid and base balance.
• Alterations in diseases.
• Applications in Nursing.

UNIT IX:- THE SENSORY ORGANS  
(6Hrs)

• Functions of eye, ear, nose and tongue.
• Functions of skin, regulation of body temperature.
• Alterations in diseases.
• Applications in Nursing.
UNIT X:- THE ENDOCRINE SYSTEM (5Hrs)

- Functions of pituitary, pineal body, thymus, thyroid, parathyroid, pancreas, supra renal, placenta, ovaries and testes.
- Alterations in diseases.
- Applications in Nursing.

UNIT XI:- THE REPRODUCTIVE SYSTEM (7Hrs)

- Reproduction of cells – DNA, mitosis, meiosis, spermatogenesis, oogenesis.
- Functions of female reproductive organs; functions of breast, menstrual cycle, ovulation.
- Introduction to embryology.
- Functions of male reproductive organs.
- Alterations in diseases.
- Applications in Nursing.

UNIT XII:- LYMPHATIC AND IMMUNOLOGICAL SYSTEM (3Hrs)

- Lymph- Circulation.
- Immunity: formation of T-cells and B- cells, types of immunity, antigens, antibodies, cytokines.

PRACTICAL (10Hrs)

- Estimation of Hemoglobin, PCV & ESR, RBC count, WBC count, differential count, bleeding time, clotting time, blood group and Rh typing, examination of pulse and auscultation of heart sounds, determination of blood pressure, spirometry.

METHODS OF TEACHING

1. Lecture cum discussion
2. Demonstration

METHODS OF EVALUATION

1. Written Examination
2. Written Assignments

REFERENCES

MICROBIOLOGY

Placement: 1st Year B.Sc Nursing
Allotted Hours : 75
Theory : 60 Hours
Practical : 15 Hours

COURSE DESCRIPTION

This course is designed to enable the students to acquire understanding of fundamentals of microbiology and identification of various microorganisms. It also provides opportunities for practicing infection control measures in hospital and community settings.

BEHAVIOURAL OBJECTIVES

On completion of the course, students will be able to:

- Explain the basic principles and concepts of microbiology and their relationship to health and diseases.
- Describe the structure, classification, morphology and growth of bacteria.
- Describe the methods of infection control and identify role of nurse in infection control programmes.
- Describe the different disease producing organisms.
- Explain the concept of immunity, hypersensitivity and immunization.

UNIT I:- INTRODUCTION (4Hrs)

- Importance and relevance to Nursing.
- Historical perspectives, concepts and terminology.
- Principles of microbiology.

UNIT II:- GENERAL CHARACTERISTICS OF MICROBES (18Hrs)

- Structure and classification of microbes.
- Morphological types, size and forms of bacteria.
- Motility, colonization.
- Growth and nutrition of microbes: temperature, moisture, blood and body fluids.
- Laboratory methods for identification of micro organism: staining techniques, Gram staining, acid fast staining, hanging drop preparation, culture, various medias.

UNIT III:- INFECTION CONTROL (18Hrs)

- Infection: sources, portals of entry and exit, transmission.
- Asepsis; disinfection: types and methods; sterilization: types and methods.
- Chemotherapy and antibiotics.
- Standard safety measures; biomedical waste management; role of nurse.
• Hospital acquired infection.
• Hospital infection control programme: protocols, collection of samples, preparation of reports and status of rate of infection in the unit/hospital, Nurse’s accountability, continuing education etc

UNIT IV:- PATHOGENIC ORGANISMS

(10Hrs)

• Micro-organisms: Cocci- gram positive and gram negative; Bacilli- gram positive and gram negative; Spirochaete, Mycoplasma, Rickettsiae; Chlamydiae.
• Viruses; Fungi: superficial and deep mycoses; parasites; rodents & vectors.
• Characteristics, source, portal of entry, transmission of infection.
• Identification of disease producing micro organisms.
• Collection, handling and transportation of various specimens

UNIT V:- IMMUNITY

(10Hrs)

• Immunity: types, classification
• Antigen and antibody reaction; hypersensitivity-skin test
• Serological test, immunoprophylaxis: vaccines and sera, type and classification, storage and handling, cold chain; immunization for various diseases, immunization schedule.

PRACTICAL

(15Hrs)

• Demonstration-
  o Gram stain, acid fast stain, culture media and culture methods.
  o Sterilization, slides.
  o Serological methods.
• Visit to CSSD

METHODS OF TEACHING
1. Lecture cum discussion
2. Demonstration

METHODS OF EVALUATION
1. Written Examination
2. Written Assignments

REFERENCES
NUTRITION

Placement: 1st year BSc Nursing. Allotted hours: 60
Theory: 45Hrs.
Practical: 15Hrs.

COURSE DESCRIPTION

This course is designed to assist the students to acquire knowledge of nutrition for maintenance of optimum health at different stages of life and its application for practice of Nursing.

BEHAVIOURAL OBJECTIVES

On completion of the course, students will be able to:

- Describe the relation between nutrition and health.
- Explain the classification, functions, sources and recommended daily allowances of carbohydrates, fats, proteins, vitamins, minerals, water and electrolytes.
- Discuss the daily calorie requirement for different categories of people.
- Explain the cookery rules and preservation of nutrients.
- Describe the plan for balanced diet for different categories of people.
- Discuss the various national programmes related to nutrition.
- Describe the role of nurse in assessment of nutritional status and nutrition education.
- Prepare and serve simple beverages and types of foods.

UNIT I: :- INTRODUCTION (5Hrs)

- Nutrition: history, concepts; Role of nutrition in maintaining health.
- Nutritional problems in India; National nutritional policy.
- Factors affecting food and nutrition: socio-economic, cultural, tradition, production, system of distribution, life style, food habits.
- Role of food and its medicinal value.
- Classification of foods, food standards.
- Elements of nutrition: macro and micro, Calorie, BMR.

UNIT II: - CARBOHYDRATES (3Hrs)

- Classification; caloric value; recommended daily allowances, dietary sources functions; digestion, absorption and storage, metabolism of carbohydrates.
- Malnutrition: deficiencies and over consumption.

UNIT III: - FATS (3Hrs)

- Classification; caloric value; recommended daily allowances.
- Dietary sources; functions, digestion, absorption and storage, metabolism.
- Malnutrition: deficiencies and over consumption.
UNIT IV: PROTEINS (3Hrs)

- Classification; caloric value; recommended daily allowances, dietary sources,
- Functions; digestion, absorption, metabolism and storage
- Malnutrition: deficiencies and over consumption.

UNIT V: ENERGY (3Hrs)

- Unit of energy – Kcal; energy requirements of different categories of people.
- Measurements of energy; Body Mass Index (BMI) and basic metabolism.
- Basal Metabolic Rate (BMR); Determination and factors affecting.

UNIT VI: VITAMINS (4Hrs)

- Classifications; recommended daily allowances, Dietary sources, functions.
- Deficiencies, Over consumption and Toxicity.

UNIT VII: MINERALS (2Hrs)

- Classifications, Recommended Daily allowances, dietary sources, functions.
- Absorption. synthesis, metabolism, storage and excretion.
- Deficiencies, over consumption and toxicity.

UNIT VIII: WATER AND ELECTROLYTES (3Hrs)

- Water ; Daily requirement, Regulation of water Metabolism, Distribution of body water
- Electrolytes ; Types, Sources, Composition of body fluid.
- Maintenance of fluid and electrolyte balance.
- Over Hydration, Dehydration and water intoxication
- Electrolyte Imbalances.

UNIT IX: COOKERY RULES AND PRESERVATION OF NUTRITION (8Hrs)

- Principles, methods of cooking and serving, preservation of nutrients.
- Safe food handling, toxicity and storage of food, food preservation, food additives and its principles.
- Preservation of Food Adulteration Act (PFA) ; Food standards.
- Preparation of sample beverages and different types of food.

UNIT X: BALANCED DIET (6Hrs)

- Elements ; Food groups, Recommended daily Allowances, Nutritive value of foods
- Calculation of balanced diet for different categories of people
- Planning menu, budgeting of food.
- Introduction to Therapeutic diets ; Naturopathy diet.

UNIT XI: ROLE OF NURSE IN NUTRITIONAL PROGRAMMES (5Hrs)

- National Programme related to Nutrition ; Vitamin A deficiency programme,
  Nationsl iodine Deficiencies (IDD) Programme, Mid-day meal Programme,
Integrated Child Development Scheme (ICDS)

• National and International Agencies working towards food / Nutrition ; NIPCCD, CARE, FAO, NIN, CFTRI etc.
• Assessment of nutritional states, Nutritional Education and Role of Nurse.

PRACTICAL (15Hrs)

• Demonstrate skill in assessment of nutritional states of various age groups.
• Demonstration of different methods of cooking.
• Demonstration of serving food by following the general principles.
• Demonstrates skill in storage and preservation of different types of food items.
• Demonstrate skill in planning and preparation of balanced diet for infants , preschoolers , school going children, adolescents, adults, pregnant mothers, lactating mothers and geriatric groups.
• Demonstrate skill in meal planning , budgeting and purchasing.

METHODS OF TEACHING

• Lecture Discussion
• Panel Discussion
• Explanation using slide / film show
• Exercise and practice sessions for meal plan.
• Demonstration of assessment of nutritional stages of various age group.

METHODS OF EVALUATION

• Written Examination
• Assessment of practice sessions and return demonstrations of nutritional assessment
• Assessment of Exercise on menu planning

REFERENCES

BIOCHEMISTRY

Placement: 1st year BSc Nursing

Allotted Hours : 30
Theory : 26 Hrs.
Practical : 4 Hrs.

COURSE DESCRIPTION

This course is designed to assist the students to acquire knowledge of normal biochemical composition and functioning of human body, the alterations in disease process and apply this knowledge in the practice of Nursing.

BEHAVIOURAL OBJECTIVES

On completion of the course, students will be able to:

- Describe the structure, composition and functions of cell.
- Differentiate between prokaryote and eukaryote cell.
- Identify the techniques of microscope.
- Explain the composition and metabolism of carbohydrates, lipids and amino acids.
- Describe the types, composition and utilization of vitamins and minerals.
- Apply this knowledge to identify the various laboratory tests in the practice of nursing.
- Identify the significance of investigations and its alterations in diseases.

UNIT I:- INTRODUCTION

- Biochemistry: definition and significance in Nursing.
- Review of structure, composition and functions of cells.
- Prokaryote and Eukaryote cell organization.
- Fluid mosaic model tight junction, Cytoskeleton
- Transport mechanism: diffusion, osmosis, filtration, active channel sodium pump.

UNIT II :- ENZYMES

- Enzymes and coenzymes: classification, properties, Enzyme inhibition and regulation.

UNIT III:- COMPOSITION AND METABOLISM OF CARBOHYDRATES

- Classification and functions: Monosaccharides, Disaccharides, Polysaccharides, oligosaccharide
- Metabolism - Pathways of glucose: (out line only)
- Glycolysis Gluconeogenesis, Tricarboxylic acid (TCA) cycle, Glycogen metabolism
- Pentose Phosphates, Pathways (Significance only)
- Regulation of blood glucose level.
- Diabetes mellitus, Blood glucose estimation, GTT, Reducing substaces in urine. Interpretation of results
UNIT IV: - COMPOSITION AND METABOLISM OF LIPIDS  
(4Hrs)

- Classification and functions of fatty acids:
- Metabolism of fatty acid: Oxidation, Synthesis. (out line)
- Cholesterol metabolism. (important steps only)
- Tests to identify Bile salts and bilirubin,
- Atherosclerosis.

UNIT V: - COMPOSITION AND METABOLISM OF AMINO ACIDS AND PROTEINS AND IMMUNOCHEMISTRY  
(3Hrs)

- Classification and functions of amino acids and proteins.
- Introduction to metabolism of amino acids and proteins (Transamination reactions)
- Urea cycle.
- Structure and classifications of immunoglobins.

UNIT VI: - COMPOSITION OF VITAMINS AND MINERALS  
(5Hrs)

- Vitamins and minerals: classification, properties, absorption, storage and transportation, normal concentration.

UNIT VII: - ACID BASE REGULATION  
(3Hrs)

- Acid Base Regulation

PRACTICAL  
(4Hrs)

- Demonstration of laboratory tests: detection of abnormal constituents in Urine, PH demonstration (PH metre), Benedict’s test, Rothera’s test, Heat and acetic acid test, FouLger’s test, Hay’s test and fouchez’s test

METHODS OF TEACHING

- Lecture Discussion using OHP and LCD.
- Demonstration of laboratory tests.

METHODS OF EVALUATION

- Written Examination
- Written Assignments.
- Oral examination.

REFERENCES

SOCIOLOGY

Placement : 1st Year Bsc Nursing
Allotted Hours: 60
Theory : 50 Hours
Observation visits : 10 Hours

COURSE DESCRIPTION

This course is designed to introduce the concepts of sociology related to community and social institutions in India and its relationship with health, illness and Nursing.

BEHAVIORAL OBJECTIVES

On completion of the course, the students will be able to:

• State the importance of sociology in Nursing.
• Describe the interrelationship of individual in society and community.
• Describe the influence of culture and on health and disease.
• Identify various social groups and their interactions.
• Explain the growth of population in India and its impact on health.
• Describe the institutions of family and marriage in India.
• Describe the class and caste system and their influence on health and health practices.
• Describe the types of communities in India, their practices and the impact on health.
• Explain the process of social change
• Describe the social system and interrelationship of social organizations.
• Explain the nature and process of social control.
• Describe the role of the nurse in dealing with social problems in India.

UNIT I: - INTRODUCTION (2Hrs)

• Definition of sociology.
• Nature and scope of the discipline.
• Importance and application of sociology in Nursing.

UNIT II: - INDIVIDUAL AND SOCIETY (3Hrs)

• Society and community, nature of society.
• Difference between society and community.
• Process of socialization and individualization.
• Personal disorganization.

UNIT III: - CULTURE (3Hrs)

• Nature and evolution of culture.
• Diversity and uniformity of culture.
• Culture and socialization, transcultural society.
• Influence on health and disease.

UNIT IV: - SOCIAL GROUPS AND PROCESSES (4Hrs)

• The meaning and classification of groups: Primary and secondary.
• In-group v/s out group, class, tribe, caste.
• Economic, political, religious groups, mob, crowd, public and audience interaction and social processes.
• Co-operation, competition, conflict.
• Accommodation, assimilation and isolation.
UNIT V:--POPULATION (5Hrs)
- Society and population.
- Population distribution in India demographic characteristics.
- Malthusian theory of populations.
- Population explosion in India and its impact on health status.
- Family Welfare programmes.

UNIT VI:--FAMILY AND MARRIAGE (5Hrs)
- Family- functions.
- Types- joint, nuclear, blended and extended family.
- Characteristics.
- The Modern Family - changes, problems, dowry etc, welfare services.
- Changes and legislations on family and marriage in India-marriage acts.
- Marriage: forms and functions of marriage.
- Marriage and family problems in India.
- Family, marriage and their influence on health and health practices.

UNIT VII:--SOCIAL STRATIFICATION (7Hrs)
- Meaning and types of social stratification.
- The Indian caste system-origin and features.
- Features of caste in India today.
- Social class system and status.
- Social mobility-meaning and types.
- Race as a biological concept, criteria of racial classification.
- Salient features of primary races- racism.
- Influence of class, Caste and Race on health and health practices.

UNIT VIII:-- TYPES OF COMMUNITIES IN INDIA (RURAL, URBAN & REGIONAL (6Hrs)
- Features of village community and characteristics of Indian villages, Panchayat system, social dynamics.
- Community development project and planning project and planning.
- Changes in Indian rural life.
- Availability of health facilities in rural and its impact on health and health practices.
- Urban -community- features.
- The growth of cities.
- Urbanization and its impact on health and health practices.
- Major urban problems-urban slums.
- Region: problems and impact on health.

UNIT IX:--SOCIAL CHANGE (4Hrs)
- Nature and process of social change
- Factors influencing social change.
- Change: cultural change cultural lag.
- Introduction to theories of social change: linear, cyclical, Marxian, functional
- Role of Nurse-Change agents.
UNIT X:-SOCIAL ORGANIZATION AND SOCIAL SYSTEM  
(4Hrs)
- Social organization: elements, types.
- Democratic and authoritarian modes of participation.
- Voluntary associations.
- Social system : definition and types of social system.
- Role and status as structural elements of social system.
- Inter-relationship of institutions.

UNIT XI:-SOCIAL CONTROL  
(2Hrs)
- Nature and process of social control.
  -political, legal, religious, educational, economic.
- Industrial and Technological systems, Norms and values – Folkways and Mores, Customs, Laws and Fashion.
- Role of Nurse.

UNIT XII:-SOCIAL PROBLEMS  
(5Hrs)
- Social disorganization.
- Control and Planning: poverty, housing, illiteracy, food supplies, prostitution, rights of women and children, vulnerable groups: elderly, handicapped, minority groups and other marginalized groups, child labor, child abuse, delinquency and crime, substance abuse, HIV/AIDS
- Social Welfare programmes in India.
- Role of Nurse.

METHODS OF TEACHING
- Lecture discussion
- Panel discussion
- Assignments
- Discussion of family case study.
- Discussion of community survey.
- Visits to rural and urban community.
- Institutional visits (old age homes/ destitute homes/ centers for handicapped)

METHODS OF EVALUATION
- Written examination
- Written assignments.
- Assessment of report of visits.

REFERENCES
3. Venkataratnam R. Medical sociology in an indian setting. India:MC Millan Company in India Ltd.
GENERAL PSYCHOLOGY

Placement: 1st year BSc Nursing

COURSE DESCRIPTION

This course is designed to assist the students to acquire knowledge of fundamentals of psychology and develop insight into behavior of self and others. Further it is aimed at helping them to practice the principles of mental hygiene for promoting mental health in nursing practice.

BEHAVIORAL OBJECTIVES

On completion of the course, the students will be able to:

- Describe the history, scope and methods of psychology.
- Explain the biology of human behavior.
- Describe various cognitive processes and their applications.
- Describe motivation, emotions, stress, attitudes and their influence on behavior.
- Explain the concepts of personality and its influence on behavior.
- Describe the psychology of people during the life cycle.
- Describe the characteristics of mentally healthy person.
- Explain ego defense mechanisms.
- Explain the psychological assessments and role of nurse.

UNIT 1: INTRODUCTION (2Hrs)

- History and origin of science of psychology
- Definitions and scope of psychology.
- Relevance to nursing.
- Methods of psychology.
- Relation to other fields of study.

UNIT II: BIOLOGY OF BEHAVIOUR (4Hrs)

- Body mind relationship, modulation process in health and illness.
- Genetics and behavior: heredity and environment.
- Brain behavior: Nervous system, neurons and synapse, association cortex, right and left hemisphere.
- Psychology of sensations.
- Muscular and glandular controls of behavior.

UNIT III: COGNITIVE PROCESS (20Hrs)

- Attention: types, determinants, duration and degree, alterations.
- Perception: meaning, principles, factors affecting, errors.
- Learning: nature, types, learner and learning, factors influencing laws and theories, process, transfer, study habits.
- Factors conducive to effective learning.
• **Memory**: meaning, types, nature, factors influencing, development, theories and methods of memorizing and forgetting.
• **Thinking**: types and levels, stages of development, relationship with language and communication.
• **Intelligence**: meaning, classification, uses, theories.
• **Aptitude**: concept, types, Individual differences and variability.
• Psychometric assessment of cognitive processes.
• Alterations in cognitive processes.
• Applications

UNIT IV: - MOTIVATION AND EMOTIONAL PROCESSES (8Hrs)

• **Motivation**: Meaning, Concepts, Types, Theories, Motives and behavior, Conflicts and frustration, conflict resolution
• **Emotions and stress**
  Emotions: definition, components, changes in emotions, theories, emotional adjustments, emotions in health and illness.
  Stress: stressors, cycle effect, adaptation & coping.
• **Attitude**: Meaning, nature, development, factors affecting;
  -Behavior and attitudes.
  -Attitudinal change.
• Psychometric assessments of emotions and attitudes.
• Alterations in emotions.
• Applications

UNIT V: - PERSONALITY (7Hrs)

• Definitions, topography, types, theories.
• Psychometric assessments of personality.
• Characteristics of a healthy personality.
• Alterations in personality.
• Applications

UNIT VI: - DEVELOPMENTAL PSYCHOLOGY (7Hrs)

• Psychology of people at different ages from infancy to old age.
• Psychology of vulnerable individuals- challenged, women, sick, etc.
• Psychology of groups.

UNIT VII: - MENTAL HYGIENE AND MENTAL HEALTH (8Hrs)

• Concepts of mental hygiene and mental health.
• Characteristics of mentally healthy persons.
• Warning signs of poor mental health.
• Promotive and Preventive mental health-strategies and services.
• Ego Defence mechanisms and implications.
• Personal and social adjustments.
• Guidance and counseling.
• Role of Nurse.
UNIT VIII:- PSYCHOLOGICAL ASSESSMENT AND TESTS

- Types, development
- Characteristics, Principles, Uses, Interpretations.
- Role of Nurse in psychological assessment.

METHODS OF TEACHING

- Lecture discussion
- Seminar
- Psychometric assessments
- Role plays
- Case discussions
- Assignments

METHODS OF EVALUATION

- Written Examination
- Written Assignments

REFERENCES

FOUNDATIONS OF NURSING

Placement: 1st Year BSc Nursing

Allotted Hours:
- Theory: 465 Hours.
  (265+200 lab.)
- Practical: 450 Hours.

COURSE DESCRIPTION

This course is designed to help the students to develop an understanding of the philosophy, objectives, theories and process of nursing in various supervised clinical settings. It is aimed at helping the students to acquire knowledge, understanding and skills in techniques of nursing and practice them in supervised clinical settings.

BEHAVIOURAL OBJECTIVES

On completion of the course, the students will be able to:

- Describe the concepts of health, illness and health care agencies.
- Explain the basic concepts and scope of nursing.
- Describe values, code of ethics and professional conduct for nurses in India.
- Perform admission and discharge procedure.
- Communicate effectively with patient, families and team members and maintain effective human relation.
- Appreciate the importance of patient teaching in nursing.
- Explain the concept, uses, format and steps of Nursing process.
- Describe the purposes, types and techniques of recording and reporting.
- Describe the principles and techniques of monitoring and maintaining vital signs.
- Describe the purposes and process of health assessment and perform on each body system.
- Identify the various machinery, equipment, and linen and their care.
- Apply knowledge on principles and techniques for meeting basic, physiological and psychosocial needs of patient.
- Describe principles and techniques for infection control and biomedical waste management in supervised clinical settings.
- Apply knowledge on principles, effects, calculations, dosages and different routes administration of medications.
- Describe the pre and post operative care of patients.
- Perform care of wounds.
- Explain care of patients having alterations in body functioning.
- Explain care of terminally ill patient.
- Describe the basic concepts of conceptual and theoretical models of nursing.
- Demonstrate skills in providing first aid in emergencies and accidents.
UNIT I:- HEALTH AND ILLNESS (10Hrs)

- **Health**: definition, concepts, factors influencing health, health – illness continuum.
- **Illness**: definition, causes and risk factors for developing illness, body defenses: immunity and immunization, illness behavior, stages of illness, impact of illness on client and family.
- **Health care Services**: Health promotion and prevention, primary care, diagnosis, treatment, rehabilitation and continuing care, types of health care agencies.
- **Hospital**: definition, types, organization, functions, hospital environment, health care team, health promotion and levels of disease prevention, primary health care and its delivery, role of Nurse.

UNIT II:- NURSING AS A PROFESSION (10Hrs)

- **Profession**: definition, characteristics.
- **Nursing**: definition, philosophy, objectives, characteristics.
- **Concepts in nursing**: core-care-cure concept; patient centered approach; comprehensive nursing; holistic approach.
- Nature and scope of nursing practice, functions of a nurse.
- Qualities of a nurse, categories of nursing personnel.
- Nursing as a profession, history of nursing, trends in nursing.
- **Values**: definition, types, values in professional nursing, caring advocacy.
- **Ethics**: definitions, ethical principles, code of ethics, professional conduct for nurses, legal aspects in nursing.

UNIT III:-HOSPITAL ADMISSION AND DISCHARGE (4Hrs)

- **Admission to the hospital**: patient unit and its preparation, admission bed, admission procedure, special considerations: medico-legal issues, roles and responsibilities of a nurse.
- **Discharge from the hospital**: types, planned discharge, LAMA and abscond, referrals and transfers, discharge planning, discharge procedures, special considerations – medico- legal issues, roles and responsibilities of the nurse, care of the unit after discharge.

UNIT IV:- COMMUNICATION AND INTERPERSONAL RELATIONSHIP (10Hrs)

- **Communication Process**: definition, levels, elements, types, modes, process, factors influencing, methods of effective communication; attending skills, rapport building skills, empathy skills, barriers to effective communication, significance in Nursing.
- **Inter personal relationship**: Purposes, types, phases, barriers and methods of overcoming, Johari Window, Nurse-patient relationship; dimensions and phases of a helping relationships, nurse and health care team, maintain effective relationship with special reference to communicating with vulnerable group; children, women, physically and mentally challenged, elderly.
- **Patient Teaching**: definition, importance, purposes, principles, incidental and planned teaching, role of nurse, integrating teaching in nursing process.
UNIT V: - HUMAN RELATIONS (4Hrs)

- Understanding self, social behaviour, motivation, social attitudes.
- Individual and groups, human relations in context of nursing, group dynamics, team work

UNIT VI: - NURSING PROCESS (10Hrs)

- Critical thinking and Nursing judgment: critical thinking: thinking and learning, competencies, attitudes for critical thinking, levels of critical thinking in nursing.
- Nursing process overview: application in practice.
- Assessment: collection of data, types, sources, methods, formulating nursing judgment, data interpretation.
- Nursing diagnosis: identification of client problems, nursing diagnosis, statement, difference between nursing and medical diagnosis.
- Planning: establishing priorities, establishing goals and expected outcomes, selection of interventions, protocols and standing orders, writing the nursing care plan.
- Implementation: Implementing the plan of care.
- Evaluation: outcome of care, review and modify, documentation and reporting.

UNIT VII: - DOCUMENTATION AND REPORTING (4Hrs)

- Documentation: Purposes of recording and reporting, communication within health care team, Records- purposes, types, methods of recording, keeping forms, computerized documentation, guidelines for recording; factual basis, accuracy, completeness, currentness, organization, confidentiality. Reports- Nurse’s report, change of shift reports, transfer reports, incident reports, communication within the health care team, minimizing legal liability through effective record keeping.

UNIT VIII: - VITAL SIGNS (15Hrs)

- Vital signs: guidelines for taking vital signs.
- Body temperature: physiology, regulation, factors affecting, temperature; assessment of body temperature: site, equipment and technique, special considerations, temperature alterations: hyperthermia, heat stroke, hypothermia, care of patients having alternations in temperature. (Hyper and hypothermia), assessment and management.
- Pulse: physiology and regulation, characteristics of the pulse, factors affecting, sites, location, equipments , technique, special considerations, alterations in pulse.
- Respiration: physiology and regulation, mechanics of breathing, characteristics, factors affecting respiration; assessment of respirations, technique, special considerations, alterations in respiration.
- Blood pressure: physiology and regulation, characteristics of blood pressure, assessment of blood pressure; sites, equipments and technique, special considerations, alterations in blood pressure. Recording of vital signs.
UNIT IX: HEALTH ASSESSMENT (20Hrs)

- Purposes, process of health assessment, health history.
- **Physical examination**: methods – inspection, palpation, percussion, auscultation, olfaction, preparation for examination: patient and unit, general assessment, assessment of each body system, recording of health assessment.

UNIT X: MACHINERY, EQUIPMENT AND LINEN (3Hrs)

- **Types**: disposables and reusables – linen, rubber goods, glass ware, metal, plastics, furniture, machinery.
- Introduction: indent, maintenance, inventory.

UNIT XI: MEETING NEEDS OF PATIENT (60Hrs)

- **Basic needs** (activities of daily living)
  - Providing safe and clean environment: physical environment; temperature, humidity, noise, ventilation, light, odour, pests control, reduction of physical hazards; fire, accidents; safety devices; restraints, side rails, airways, trapez etc.
  - Role of nurse in providing safe and clean environment.
  - Hygiene: factors influencing hygienic practice, hygienic care: care of the skin; bath; pressure points; feet and nail; oral cavity; hair care; eyes; ears and nose, assessment: principles; types; equipments; procedure; special considerations, patient environment, room equipment and linen, making patient beds, types of beds and bed making
  - Comfort: factors influencing comfort, comfort devices.
- **Physiological needs**:
  - Sleep and rest: physiology of sleep, factors affecting sleep, promoting rest and sleep, sleep disorders.
  - Nutrition: importance, factors affecting nutritional needs, assessment of nutritional needs: variables, meeting nutritional needs: principles; equipments; procedure and special considerations: oral; enteral: naso/orogastic ; gastrostomy; parenteral.
  - Urinary elimination: review of physiology of urine elimination, composition and characteristics of urine, factors influencing urination, alteration in urinary elimination, types and collection of urine specimen, observation, urine testing, facilitating urine elimination: assessment, types, equipments, procedures and special considerations: providing urinal/bed pan, condom drainage, Perineal care, catheterization, care of urinary drainage, bladder irrigation.
  - Bowel elimination: review of physiology of bowel elimination, composition and characteristics of faeces, factors affecting bowel elimination, alteration in bowel elimination, types and collection of specimen of faeces, observation, facilitating bowel elimination: assessment; equipments; procedure and special considerations: passing of flatus tube; enemas, suppository, sitz bath; bowel wash; care of ostomies.
  - Mobility and Immobility: principles of body mechanics, maintenance, factors affecting, hazards, alteration in body alignment and mobility, assessment of self care ability, nursing interventions for impaired body alignment and mobility: assessment, types, devices used, methods and special considerations, Rehabilitation: definition: concepts, rehabilitation aspects: range of motion exercises; maintaining body alignment: positions; moving; lifting; transferring; walking, restraints, role of nurse in rehabilitation
- **Oxygenation**: review of cardiovascular and respiratory physiology, factors affecting oxygenation, alteration in oxygenation, nursing interventions in oxygenation: assessment, types; equipments used; procedure and special considerations; maintenance of patent airway, oxygen administration suction inhalations: dry and moist, chest physiotherapy and postural drainage, care of chest drainage; pulse oximetry, CPR-basic life support.

- **Fluid, electrolyte and acid base balance**: review of physiological regulations of fluid, electrolyte and acid base balances, alterations in fluid electrolyte and acid base imbalances, factors affecting fluid electrolyte and acid base balances, nursing interventions in fluid electrolyte and acid-base imbalances, assessment, types, equipments used, procedures and special considerations, measuring fluid intake and output; correcting fluid, electrolyte imbalance; replacement of fluids; oral, parenteral, venipuncture, regulating IV flow rate, changing IV solutions and tubing, changing IV dressing, restriction of fluid.

- **Blood transfusion**: indications, blood grouping and cross matching, principles and techniques, complications, nurse’s role.

- **Psychosocial needs**:
  - Concepts of cultural diversity, stress and adaptation, self concept, sexuality, spiritual health, coping with loss, death and grieving, assessment of psychosocial needs, nursing intervention for psychosocial needs; assist with coping and adaptation, creating therapeutic environment, recreational and diversonal therapies.

**UNIT XII:- INFECTION CONTROL IN CLINICAL SETTINGS**

- **Infection control**: nature of infection, chain of infection, transmission, defenses against infection: natural and acquired, hospital acquired infection (Nosocomial infection)
- **Concept of asepsis**: medical asepsis, and surgical asepsis.
- **Isolation precautions** (Barrier nursing): Hand washing: simple, hand antisepsis and surgical antisepsis (scrub), isolation: source and protective, personal protecting equipments: types, uses and technique of wearing and removing, decontamination of equipment and unit, transportation of infected patients, standard safety precautions (Universal precautions)
- **Biomedical waste management**: importance, types of hospital waste, hazards associate with hospital waste, decontamination of hospital waste, segregation and transportation and disposal.

**UNIT XIII:- ADMINISTRATION OF MEDICATIONS**

- **General**: principles / considerations, purposes of medication, principles; 5 rights; special considerations; prescriptions; safety in administering medications and medication errors, drug forms, routes of administration, storage and maintenance of drugs and nurse’s responsibility. Broad classification of drugs, therapeutic effect, side effects, toxic effects, idiosyncratic reactions, allergic reactions, drug tolerance, drug interactions, factors influencing drug actions, systems of drug measurement; metric system, apothecary system, household measurements, solutions, converting measurement units; conversion within one system; conversion between systems; dosage calculation, terminologies and abbreviations used in prescription of medications.
- **Oral drug administration**: oral, sublingual and buccal; equipment, procedure.
- **Parenteral**: general principles, decontamination and disposal of syringes and needles, types, canula and infusion sets, protection from needle stick injuries: giving medications with safety syringes, routes of parenteral therapies: Intra dermal: purpose, site, equipment, procedure, special considerations, Intramuscular: purpose; site; equipment; procedure; special consideration, Intravenous: purpose; site; equipment; procedure; special considerations; advanced techniques; epidural, intra thecal, intra ossoeus, intra peritoneal, intra plural, intra arterial, role of nurse.
• **Topical administration**: purpose, site, equipment, procedure, special considerations: application to skin, application to mucous membrane: direct application of liquids—gargle and swabbing the throat; insertion of drug into body cavity: suppository/medicated packing in rectum/vagina; instillations: ear, eye, nasal, bladder and rectal, irrigations: eye, ear, bladder, vaginal and rectal, spraying; nose and throat.

• **Inhalation**: nasal, oral, endotracheal/tracheal (steam, oxygen and medications), purpose, types, equipment, procedure, special considerations. Recording and reporting of medications administered.

**UNIT XIV: THERAPEUTIC USES OF HEAT AND COLD** (5Hrs)

• General principles, classification, therapeutic uses
• Hot applications—effect on the body, classification—hot water bag, infra—red therapy, fermentation, sitz bath, hypo and hyperthermic measures.
• Cold applications—cold compress, ice cap, tepid sponge,
• Nurses' responsibility in heat and cold applications.

**UNIT XV: MEETING NEEDS OF PERIPERATIVE PATIENTS** (10Hrs)

• Definition and concept of perioperative nursing.
• Preoperative phase: preparation of patient for surgery.
• Intraoperative: operation theatre setup and environment, role of nurse.
• Postoperative phase: recovery unit, postoperative unit, postoperative care.
• Wounds: types, classifications, wound healing process, factors affecting wound healing, complications of wound healing.
• Surgical asepsis.
• Care of the wound: types, equipment, procedure and special considerations: dressings, suture care: care of drainage: application of bandages, binders, splints and slings.

**UNIT XVI: MEETING SPECIAL NEEDS OF THE PATIENT** (15Hrs)

• Treatments related to gastrointestinal system: nasogastric suction, gastric irrigation, gastric analysis

**UNIT-XVII: CARE OF TERMINALLY ILL PATIENT** (4Hrs)

• Concepts of loss, grief, grieving process, signs of clinical death, care of dying patient: special considerations – advance directives: euthanasia, will, dying declaration, organ donation etc, medicolegal issues, care of dead body: equipment, procedure and care of unit, autopsy, embalming.
UNIT XVIII: PROFESSIONAL NURSING CONCEPTS AND PRACTICES (6Hrs)

• Conceptual and theoretical models of nursing practice: introduction to models – holistic model, health belief model, health promotion model etc.
• Introduction to theories in Nursing; Peplau’s, Henderson’s, Orem’s, Neuman’s Roger’s and Roy’s
• Linking theories with nursing process

UNIT XIX: FIRSTAID (15Hrs)

• Introduction-historic background, definitions, golden rules of first aid, qualities of a first aider, first aid in respiratory and circulatory emergencies, asphyxia-syncope-wounds haemorrhage, shock –cardiac arrest, CPR, fractures and dislocation, types of fractures-immobilizing, splinting, bandaging, managing head injuries, spinal injuries – shifting of patients, first aid in burns, scalds, sunstroke and frost bite, snakebite, dog bite, insect bite, food poisoning, organophosphorus poisoning, foreign body in the eye, ear, nose, throat.

STUDENT ACTIVITIES

• Role play: health care team, communication process, patient education, admission procedure, discharge and transfer of patients.
• Group discussion: scope of nursing, qualities of professional nursing, role of nurse in rehabilitation.
• Debate: Is nursing in India a profession?
• Clinical conference: care of unconscious patients.
• Quiz: history of nursing, physical examination

ASSIGNMENTS

• Difficulties encountered by nurse in communicating with patients.
• Comparison of different theories.

PRACTICAL (Laboratory- 200 Hrs)

Admission and assessment

• Admission of the client
• History Taking
• General physical examination
• Recording height and body weight
• Documentation

Comfort Measures

• Bed making: closed, open, occupied, cardiac, post-operative and amputation bed.
• Positions: supine, lateral, sim’s, prone, fowler’s, cardiac position, dorsal recumbent, erect, lithotomy, knee-chest and trendelenburg position.
• Use of comfort devices: back rest, air cushion, bed cradle, bed block, cardiac table, foot rest, sand bag, air mattress, water mattress and side rails.
• Activity needs: lifting a helpless patient, turning a helpless patient, assisting with transfer- in and out of bed; in and out of wheel chair; to and from stretcher.
• **Exercises**: active range of motion exercises, breathing and coughing exercises, passive exercises.
• **Monitoring vital signs**: body temperature- oral, axillary, rectal; pulse- temporal, carotid, apical, brachial, radial, femoral, dorsalis pedis & posterior tibial; respiration and blood pressure.
• **Hygienic Needs**: care of mouth, bed bath, care of hair (combing, bed shampoo), care of nails.

**Nutritional Needs**
- Feeding a helpless patient
- Nasogastric tube (introduction, feeding, removal)
- Maintenance of intake and output chart

**Elimination Needs**
- Use of bedpan, urinal, flatus tube, bowel irrigation, enema, bladder catheterization, catheter care.

**Diagnostic Procedures**
- Collection of specimens: urine testing- albumin, sugar (Benedict’ test, with strip, glucometer), specific gravity, reaction, bile and acetone.

**Therapeutic Measures**
- Hot application: hot water bag, steam inhalation, fomentation.
- Cold application: cold compress, tepid sponge, ice cap.
- Aseptic measures: hand washing, scrubbing, gloving, gowing, handling sterile articles, disinfection of articles, prepare lotions, calculate strength of lotions.
- Care of articles: rubber goods, enamel goods, instruments, glass wares, linen.

**Administration Of Therapeutic Agents**
- Oral, sublingual, buccal.
- Injections: intra dermal, subcutaneous, intra muscular, intravenous.
- Infusion, inhalation, nebulisation, instillation, topical application.
- Oxygen administration: nasal catheter, mask.
- Care of terminally ill, care of body after death.

**First Aid**
- Bandages: circular, spiral, reverse spiral, figure of eight, cape line, shoulder spica, amputation stump, thump spica, ear bandage, eye bandage, jaw, triangular bandages.
- Binder: abdominal binder, T-bandage.
- Cardio pulmonary resuscitation, Transferring client with spinal injury.

**METHOD OF TEACHING**
- Lecture method
- Group discussion
- Demonstration
- Case discussion
- Role play
- Debate
- Quiz
METHOD OF EVALUATION

- Written examination
- Oral examination
- Written assignments
- Student’s performance in educational activities like group discussion, Debate, role play and quiz.

REFERENCES

FOUNDATIONS OF NURSING – CLINICAL

Placement: 1st Year BSc Nursing Allotted Hours: 450

COURSE DESCRIPTION

This course is designed to help the students to develop an understanding of the philosophy, objectives, theories and process of nursing in various clinical settings. It is aimed at helping the students to acquire knowledge, understanding and skills in techniques of nursing and practice them in clinical settings.

BEHAVIOURAL OBJECTIVES

On completion of the clinical experience, the students will be able to:

- Perform admission and discharge procedure.
- Prepare nursing care plan as per the nursing process format.
- Communicate effectively with patient, families and team members.
- Maintain effective human relations.
- Develop plan for patient teaching.
- Prepare patient reports.
- Monitor vital signs.
- Perform health assessment of each body system.
- Provide basic nursing care to patients.
- Perform infection control procedures.
- Provide care to pre and post operative patients.
- Perform procedures for care of wounds.
- Administer drugs by different routes.
- Provide care to dying and dead.
- Counsel and support the relatives of dying patient
- Demonstrate skill in first aid and CPR.

PRACTICAL SKILLS

- **Hospital admission and discharge**
  - Admission
  - Prepare the unit for new patient.
  - Prepare admission bed.
  - Performs admission procedure
    - New patient
    - Transfer in

- **Discharge/transfer out**
  - Gives discharge counseling
  - Perform discharge procedure (planned discharge, LAMA and abscond, referrals an transfers)
  - Prepare records of discharge/transfer..
  - Dismantle, and disinfect unit and equipment after discharge/transfer.

- **Perform assessment:**
  - History taking, nursing diagnosis, problem list, prioritization, goals & expected out comes, selection of interventions.
• Write nursing care plan.
• Gives care as per the plan.

☐ Communication
• Use verbal and non verbal communication techniques.

☐ Prepare a plan for patient teaching session

☐ Write patient report
• Nurse’s report change – of shift reports, transfer reports, incident reports etc.
• Presents patient report

☐ Vital signs
• Measure, records and interpret alterations in body temperature, pulse, respiration and blood pressure.

☐ Health assessment
• Health history taking
• Perform assessment: general, body systems
• Use various methods of physical examination
• Inspection, Palpation, Percussion, Auscultation, Olfaction
• Identification of system wise deviations.

☐ Prepare Patient’s unit:
• Prepare beds: open, closed, occupied, operation, amputation, cardiac, fracture, burn, divided and fowler’s bed
• Pain assessment and provision for comfort

☐ Use comfort devices Hygienic care:
• Oral hygiene:
• Bath and care of pressure points
• Hair wash, pediculosis treatment

☐ Feeding:
• Oral, enteral, naso/orogastric, gastrostomy and parenteral feeding.
• Naso-gastric insertion, suction, and irrigation

☐ Assisting patient in urinary elimination
• Provides urinal/bed pan
• Condom drainage
• Perineal care
• Catheterization
• Care of urinary drainage

☐ Bladder irrigation Assisting bowel Elimination:
• Insertion of Flatus tube
• Enemas
• Insertion of Suppository
Bowel wash Body Alignment and Mobility:
- Range of motion exercises, positioning: recumbent, lateral (rt/ lt), fowler’s, sim’s, lithotomy, prone, trendelenburg position, assist patient in moving, lifting, transferring, walking, restraints.

Oxygen administration
Suctioning: oropharyngeal, nasopharyngeal
Chest physiotherapy and postural drainage
Care of Chest drainage
CPR-Basic life support

Intravenous therapy
Blood and blood component therapy
- Collect/assist for collection of specimens for investigations Urine, sputum, faeces, vomitus, blood and other body fluids.

Perform lab tests:
- Urine: sugar, albumin, acetone
- Blood: sugar (with strip/ gluco-meter)
- Hot and cold applications: local and general sitz bath

Communicating and assisting with self-care of visually & hearing impaired patients
Communicating and assisting with self-care of mentally challenged/disturbed patients
Recreational and diversional therapies
Caring of patient with alteration is sensorium

Infection control
- Perform following procedures: hand washing techniques, (simple, hand antisepsis and surgical antisepsis and surgical antisepsis (scrub), prepare isolation unit in lab/ward, practice technique of wearing and removing personal protective equipment (PPE), practice standard safety precautions (universal precautions).

Decontamination of equipment and unit
- Surgical asepsis: sterilization, handling sterilized equipment, calculate strengths of lotions, prepare lotions.
- Care of articles

Pre and post operative care:
- Skin preparations for surgery: local.
- Preparation of post operative unit
- Pre and post operative teaching and counseling
- Pre and post operative monitoring
  Care of the wound: Dressings, suture care, care of drainage, application of bandages, binders, splints and slings
- Bandaging of various body parts.

Administration of medications
- Administer medications in different forms and routes
- Oral, sublingual and buccal
- Parenteral: Intramuscular etc.
- Assist with Intravenous medications
- Drug measurements and dose calculations
- Preparation of lotions and solutions.
• Administers topical applications.
• Insertion of drug into body cavity: suppository and medicated packing etc.
• Instillation of medicines and spray into ear, eye, nose and throat.
• Irrigations: eye, ear, bladder, vagina and rectum.
• Inhalations: dry and moist.

- **Care of dying patient**
  - Caring and packing of dead body.
  - Counseling and supporting grieving relatives.
  - Terminal care of the unit.

- **First Aid**
  - Bandages: circular, spiral, reverse spiral, figure of eight, cape line, shoulder spica, amputation stump, thump spica, ear bandage, eye bandage, jaw, triangular bandages,
  - Binder: abdominal binder, T-bandage.
  - Cardio pulmonary resuscitation,
  - Transferring client with spinal injury.

**STUDENT ACTIVITIES**
- Observes the important days related to the health events during the clinical posting.
- Observation visit – CSSD, physiotherapy department, blood bank, mortuary.

**METHOD OF EVALUATION**

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<td>3. Practical Record</td>
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<td>4. Procedure Book</td>
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<td>5. Nursing care plan (Weekly)</td>
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<td>6. Daily diary</td>
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INTRODUCTION TO COMMUNITY HEALTH

Placement: 1st Year B.Sc Nursing

Allotted Hours : 80
Theory : 45Hrs.
Practical : 35Hrs.

COURSE DESCRIPTION

The course is designed to orient the students the concept of health and its relation to various determinants of successful living. It enables the students to demonstrate various healthy practices and lifestyles as well as levels of prevention in their nursing practice.

BEHAVIORAL OBJECTIVES

On completion of the course, the students will be able to:

- Describe the concept and dimensions of health.
- Differentiate between health and disease.
- Apply the knowledge of disease causation and transmission; for various levels of prevention and control of diseases.
- Identify the concept of community health and community health nursing
- Explain the determinants of health
- Maintain a safe and therapeutic environment in home and community
- Demonstrate hygienic practices and healthy life styles

UNIT I:-INTRODUCTION (8Hrs)

- Health
  - Concept, definition and dimensions of health.
  - Health promotion and health maintenance.
  - Health for all movement.
- Disease
  - Concept of disease and disease causation.
  - Epidemiological triad
  - Dynamics of disease transmission.
  - Classification of diseases
- Prevention and Control
  - Concept of prevention
  - Levels of prevention
    - Primordial
    - Primary
    - Secondary
    - Tertiary
  - Concept of control

- Community health and Community health nursing
  - Concept
    - Community
    - Community Health
UNIT II: PHYSICAL DETERMINANTS OF HEALTH (15Hrs)

- Determinants of Health
  - Various determinants like
    - Eugenics
    - Physical, biological, and socio cultural determinants.
    - Hygiene and other determinants
- Physical determinants
  - Environment
    - Definition
  - Water
    - Sources
    - Sanitary well
    - Water purification
    - Hardness of water
    - Water pollution
  - Air and ventilation
    - Thermal comfort
    - Purification of air
    - Air pollution
  - Lighting
    - Characteristics and standards
  - Noise and noise pollution
  - Meteorological factors
    - Climate and Forestation
  - Housing
  - Sanitation
    - Concept of sanitation barrier,
    - Collection and disposal of waste in home and community.
    - Sanitary disposal of excreta
    - Disposal of dead bodies
  - Town planning and village planning
  - Acts regulating environmental pollution
    - National pollution control board
  - Responsibility of community health nurse towards maintaining a safe environment

UNIT III: BIOLOGICAL DETERMINANTS OF HEALTH (8Hrs)

- Bacterial, viral and other microbial agents
- Host, Cases and Carriers
- Immunity
  - Protective immunization
- Arthropods and Rodents
  - Control of Arthropod and rodent born diseases
- Zoonoses
UNIT IV:- SOCIO CULTURAL DETERMINANTS OF HEALTH (4Hrs)

- Customs and taboos
- Family structure
- Life style
- Status of women, Children and Dependents
- Others
  - Occupation
  - Education
  - Spirituality

UNIT V:- HEALTH AND HYGIENE (5Hrs)

- Concept of hygiene
  - Personal hygiene
  - Domestic hygiene
  - Community hygiene
- Maintenance of personal hygiene
- Physical activity / exercise
- Recreation, Sleep and rest
- Sexual and reproductive health
  - Menstrual hygiene
- Health assessment and regular health examination

UNIT VI:- FOOD HYGIENE (5Hrs)

- Food hygiene
- Dietary patterns
- Production, purchase, preservation, preparation and consumption of food.
- Sanitation of eating places and restaurants
- Food adulteration
- Food standards
- Acts regulating food hygiene
- Drugs and cosmetic act

PRACTICAL (35Hrs)

Practical experience includes guided observation visits to locations of community health importance including participatory observation in clinic and community health activities.
- **Guided observation visits to**

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Place of visit</th>
<th>Specific activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Water treatment plant</td>
<td>Situation based assignments&lt;br&gt;Preparation of a diagrammatic representation of the plant&lt;br&gt;Report of the visit</td>
</tr>
<tr>
<td>2</td>
<td>Sewage disposal plant</td>
<td>Situation based assignments&lt;br&gt;Preparation of a diagrammatic representation of the plant&lt;br&gt;Report of the visit</td>
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<tr>
<td>3</td>
<td>Milk dairy</td>
<td>Situation based assignments&lt;br&gt;Identifying the activities for prevention of milk borne diseases in the dairy&lt;br&gt;Report of the visit</td>
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<tr>
<td>4</td>
<td>Public analytical laboratory</td>
<td>Situation based assignments&lt;br&gt;Observing the methods for detecting the adulteration&lt;br&gt;Report of the visit</td>
</tr>
<tr>
<td>5</td>
<td>Slaughterhouse or meat processing unit</td>
<td>Situation based assignments&lt;br&gt;Identifying the activities for prevention of meat borne diseases in the unit&lt;br&gt;Report of the visit</td>
</tr>
<tr>
<td>6</td>
<td>Immunization clinic</td>
<td>Situation based assignments&lt;br&gt;Familiarizing current immunization schedule&lt;br&gt;Report of the activities of the clinic</td>
</tr>
</tbody>
</table>

- **Demonstrating disinfection of well or water sources**

The report of the guided observation visits and other relevant activities in the field should be maintained in a *log book*. 

46
METHOD OF TEACHING

- Interactive lecture
- Discussions
- Demonstration
- Field trips

METHOD OF EVALUATION

- Written examination
- Evaluation of record of activities in the field (Log Book)

REFERENCES

ENGLISH

Placement : 1st Year BSc Nursing  Allotted Hours : 20 Hours

COURSE DESCRIPTION

The course is designed to enable students to enhance ability to comprehend spoken and written English (and use English) required for effective communication in their professional work. Students will practice their skills in verbal and written English during clinical and classroom experiences.

BEHAVIOURAL OBJECTIVES

On completion of the course, students will be able to:

- Speak and write grammatically correct English.
- Develop writing skills.
- Develop skill in spoken English.
- Develop ability to read, understand and express meaningfully, the prescribe text.
- Develop skill in listening comprehension.

UNIT I:- INTRODUCTION  (4Hrs)

- Review of grammar.
- Remedial study of grammar.
- Building vocabulary.
- Phonetics.
- Public speaking

UNIT II:- FORMS OF COMPOSITION  (5Hrs)

- Various forms of composition
  - Letter writing
  - Note taking
  - Précis writing
  - Anecdotal records
  - Diary writing
  - Reports on health problems etc.
  - Resume/ CV

UNIT III:- SPOKEN ENGLISH  (5Hrs)

- Spoken English
  - Oral report
  - Discussion
  - Debate
  - Telephonic conversation
UNIT IV:- COMPREHENSION

- Read and comprehend prescribed course books.
- Listening comprehension.
  - Media, audio, video, speeches etc.

PRACTICAL

- Demonstrate use of dictionary, classroom conversation, exercise on use of Grammar, Practice in public speaking.
- Exercises on writing – letter, precis, diary, anecdote, health problems, story writing, resume/CV
- Essay writing, discussion on written reports/documents
- Exercise on: debating, participating in seminar, panel, symposium, telephonic conversation.
- Exercise on: listening to audio, video tapes and identify the key points.

METHOD OF TEACHING

- Lecture
- Demonstration
- Classroom exercises

METHOD OF EVALUATION

- Written Examination
- Written Assignments
- Assessment of classroom exercises.

REFERENCES

8. Murphy Reymond. Murpy’s English Grammer. Cambridge University Press.1’
INTRODUCTION TO COMPUTER APPLICATION

Placement: 1st Year BSc Nursing

Practical : 30Hrs

COURSE DESCRIPTION

This course is designed for students to develop basic understanding of uses of computer and its applications in Nursing.

BEHAVIOURAL OBJECTIVES

On completion of the course, students will be able to:

- Identify and define various concepts used in computer.
- Identify application of computer in nursing
- Describe and use the disk operating system
- Demonstrate skill in the use of ms office.
- Demonstrate skill in using multi-media.
- Identify features of computer aided teaching and testing.
- Demonstrate use of internet and e-mail.
- Describe and use statistical packages.
- Describe the use of hospital management system.

UNIT I:- INTRODUCTION (4Hrs)

- Concepts of computers.
- Hardware and Software, trends and technology.
- Application of Computers in Nursing.

UNIT II:- USE OF INTERNET AND E-MAIL (6Hrs)

UNIT III:- STATISTICAL PACKAGES: Types and their features. (2Hrs)

UNIT IV:- HOSPITAL MANAGEMENT SYSTEM: Types and uses. (3Hrs)

PRACTICAL (30Hrs)

- Practice DOS commands, Organizing files and folders, Introducing windows, Working with clipboard, Basic customizing with control panel, Working with file system and explorer, using WordPad for simple work processing, Painting pictures with windows paint– accessories. MS – Word, Excel, Power point, accesses.
- Constants and variables. Input / output – statements. Control statements – variables functions, File processing in basic.
- Internet e-mailing and faxing, printing.
- Arithmetic expressions.
METHOD OF TEACHING

- Lecture Discussion
- Demonstration
- Practice Session

METHOD OF EVALUATION

- Written examination
- Oral examination
- Practical examination

REFERENCES

MEDICAL SURGICAL NURSING I (ADULT INCLUDING GERIATRICS)

PART I – MEDICAL NURSING INCLUDING DERMATOLOGY AND COMMUNICABLE DISEASE NURSING

Placement: II Year BSc Nursing

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<td>Medicine</td>
<td>25 Hrs</td>
<td>60 Hrs</td>
<td>85 Hrs</td>
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<tr>
<td>Dermatology</td>
<td>4 Hrs</td>
<td>6 Hrs</td>
<td>10 Hrs</td>
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<tr>
<td>Communicable Disease</td>
<td>6 Hrs</td>
<td>14 Hrs</td>
<td>20 Hrs</td>
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<tr>
<td>Alternative medicine</td>
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<tr>
<td>Total</td>
<td>40 Hrs</td>
<td>80 Hrs</td>
<td>120 Hrs</td>
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</tbody>
</table>

Allotted hours
Theory: 120 hrs
Practical: 480 hrs

COURSE DESCRIPTION

The purpose of the course is to enable the student to acquire knowledge and develop proficiency in caring for patients with common medical, communicable and dermatological diseases in varieties of health care settings and at home.

BEHAVIORAL OBJECTIVES

On completion of the course the student will be able to

• Appreciate the trends in medicine and medical nursing.
• Describe the role of a nurse in caring for adult patient in hospital and community.
• Describe the common nursing problems and their specific interventions
• Describe the etiology, pathophysiology clinical manifestations, and management of patients (adults including elderly) with disorders of respiratory, digestive, cardiovascular, urinary, central nervous, endocrine and immunological systems.
• Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of skin and STDs.
• Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with infectious diseases.
• Describe the nursing management of patients with medical emergencies.
• Discuss the various alternative systems of medicine.

UNIT I :- INTRODUCTION

Nurse specialist (3hrs)

• Evolution and trends of medicine
• Review of concepts of health and illness
• Disease – concepts, causation classification – International Classification Diseases (ICD) 10 or later version
• Acute illness, chronic illness & Terminal illness, stages of illness
• Evolution and trends of medical Nursing 
• Review of Nursing Process 
• Role and responsibilities of nurse in the medical ward 
• Concepts of medical asepsis

UNIT II - COMMON NURSING PROBLEMS AND INTERVENTIONS (10Hrs)

Nurse specialist (10hrs)

• Fluid electrolyte & acid- base imbalance, respiratory obstruction, Shock, Oedema,
• Vomiting, , Dyspnea and cough, Fever, Unconsciousness, Syncope ,Pain, Incontinence
• Nursing management of patients with Fluid electrolyte imbalance, Acid base imbalance, Shock, Oedema, respiratory obstruction.

UNIT III: - NURSING MANAGEMENT OF PATIENTS WITH RESPIRATORY PROBLEMS (8Hrs)

Specialist (3 hrs)

• Respiratory Assessment
• Diagnostic measures
• Common respiratory interventions
• Management of patients with Upper respiratory tract infections, Atelectasis, Bronchitis
• Bronchiectasis, Bronchial Asthma, Emphysema, Atelectasis, Chronic Obstructive Pulmonary Disease (COPD), Pleurisy, Pneumonia
• Pulmonary Tuberculosis, Occupational Lung Diseases, Pleural Effusion, Acute respiratory failure, Adult Respiratory Distress Syndrome (ARDS) Respiratory arrest and insufficiency, Pulmonary Embolism.

Nurse specialist (5 hrs)

• Review of anatomy and physiology of respiratory system
• Nursing assessment – History & physical assessment of respiratory system
• Nurses role in diagnostic measures- Lab investigations, Radiological tests - X-ray chest, CT, MRI, ABG Analysis, Pulmonary Function Test, Bronchography, Bronchoscopy, Ventilation perfusion studies, Allergic tests, Thoracentesis, Lung Biopsy,
• Nurse’s role in therapeutic procedures - Oxygen administration, Steam inhalation, Use of inhalers, Nebulization, Pulse Oximetry, Endotracheal intubation, Chest physiotherapy, Postural drainage.
• Nursing management of patients with Upper respiratory tract infection, Atelectasis, Bronchitis, Bronchiectasis, Bronchial Asthma, Emphysema, Pleurisy, COPD, Pulmonary Tuberculosis, Occupational lung disease, Pleural Effusion, Acute respiratory failure, ARDS, Respiratory arrest and insufficiency, Pulmonary Embolism.
UNIT IV - NURSING MANAGEMENT OF PATIENTS WITH DISORDERS OF CARDIOVASCULAR SYSTEM (13Hrs)

Specialist (5hrs)

- Cardiovascular Assessment
- Diagnostic measures - ECG, cardiac catheterization, Echocardiography, TreadMillTest (TMT), coronary Angiography, PET, SPECT, MRI, Hemodynamic monitoring – Central Venous Pressure (CVP), Cardiac Output(CO), Pulmonary Artery Wedge Pressure(PAWP), Pulmonary Capillary Wedge Pressure(PCWP)
- Management of patients with Coronary artery diseases, Ischemic heart disease, Coronary atherosclerosis, Angina pectoris, Myocardial infection, Endocarditis, pericarditis, myocarditis
- Cardiomyopathies, Rheumatic fever, Rheumatic heart disease, Congestive Cardiac Failure (CCF), Cor-pulmonale
- Pulmonary Oedema, Cardiogenic shock, Cardiac Tamponade, Cardiac arrest & CPR
- Vascular system – Hypertension, Hypotension, Atherosclerosis, Arterial & venous disorders

Nurse Specialist (8hrs)

- Review of anatomy & physiology of Cardio Vascular System
- Nursing assessment History & physical assessment
- Nurse’s role in diagnostic measures
- Nursing management of patients with Coronary artery disease, Ischemic heart disease, Coronary Atherosclerosis, Angina pectoris, Myocardial infarction Endocarditis, Myocarditis Cardiomyopathies, Rheumatic fever, Rheumatic heart disease, Congestive Cardiac Failure (CCF), Cor-pulmonale, Pulmonary Oedema, Cardiac Tamponade, Cardiac arrest & CPR
- Review- anatomy & physiology of blood vessels
- Nursing Assessment- history and physical assessment
- Nursing management of patients with Hypertension, Hypotension, Atherosclerosis, Arterial & Venous disorders

UNIT V: NURSING MANAGEMENT OF PATIENTS WITH HAEMOTOLOGICAL DISORDERS (12Hrs)

Specialist (5hrs)

- Hematologic assessment
- Diagnostic measures, Blood studies, Bone marrow aspiration
- Management of patients with Anaemias, Polycythemia, Bleeding disorders – IdiopathicThrombocytopenic Purpura (ITP), Clotting factor defects & platelet defects, Hemophilia, Thalassemia, Leukemias, Leukopenias
- Agranulocytosis, Lymphomas, Myelomas
- Blood transfusion - procedure and requirements, management of adverse transfusion reaction, management and counselling of blood donor, phlebotomy procedure, and post donation management - Blood bank - functioning and hospital transfusion committee.
- Bone marrow transplantation

Nurse Specialist (7hrs)

- Review of anatomy & physiology of blood
- Nursing assessment- history & physical assessment
- Nurse’s role in diagnostic measures
- Nursing management of patients with Anaemias, Polycythemia., Bleeding disorders – ITP
- Clotting factor defects & platelet defects, Hemophilia, Thalassemia, Leukemias, Leukopenia
• Agranulocytosis, Lymphomas, Myelomas
• Nurse’s role in blood transfusion : safety checks, records for blood transfusion, management and counselling of blood donor, post donation management , Bio-safety and waste management in relation to blood transfusion
• Role of nurse in organ donation, retrieval and banking

UNIT VI: - NURSING MANAGEMENT OF PATIENTS WITH DISORDERS OF GI SYSTEM
(8Hrs)

Specialist (3 hrs)
• GI system Assessment,
• Common diagnostic measures- Radio opaque studies-Barium enema, USG, CT, MRI, Endoscopy
• Management of patients with Acid peptic disease, Irritable bowel disease, Hepatitis A,B,C,D,E.
• Cirrhosis of liver, Portal hypertension, Hepatic coma.

Nurse specialist (5hrs)
• Review- anatomy and physiology of GI system
• Nursing assessment -history and physical assessment
• Blood studies, Radio opaque studies-Barium enema,Barium swallow
• Nurse’s role in diagnostic measures –USG, CT, MRI, Endoscopy
• Nursing management of patients with Acid peptic disease, Irritable bowel disease, Hepatitis A,B,C,D,E.
• Nursing management of patients with Cirrhosis of liver, Portal hypertension, Hepatic coma
• Nursing procedures - collection of specimen, enteral nutrition, bowel wash, enema.

UNIT VII - NURSING MANAGEMENT OF DISORDERS OF URINARY SYSTEM
(6Hrs)

Specialist (2hrs)
• Urinary system Assessment
• Diagnostic measures- Urinalysis ,Clearance studies, RFT, Radiological studies -KUB, IVP
• Retrograde pyelography, Urodynamic studies, Cystoscopy, Renal Arteriography
• Management of patients with Nephritis, Nephrotic syndrome, Renal failure – Acute & Chronic

Nurse Specialist (4hrs)
• Review of anatomy and physiology of urinary system
• Nursing assessment – History and physical assessment
• Nurse’s role in diagnosis measures – Urinalysis, Clearance studies, RFT, Radiological studies – KUB, IVP, Retrograde pyelography, Urodynamic studies ,Cystoscopy, Renal arteriography
• Nursing management of patients with Nephritis, Nephrotic syndrome, Renal failure- Acute & chronic
• Diet in renal failur

UNIT VIII - NURSING MANAGEMENT OF PATIENTS WITH NEUROLOGICAL DISORDERS
(12Hrs)

Specialist (4hrs)
• Neurological assessment
• EEG, Radiological studies - CT, MRI, Xray skull, MRA, PET, SPECT, cerebral ultrasound
- Management of patients with Migraine, Headache Cerebrovascular accident, Paraplegia, Hemiplegia, Quadriplegia, Meningitis, Encephalitis, Neurocysticercosis, Movement disorders – chorea, seizures, epilepsies
- Cranial & spinal neuropathies, Bell’s palsy, Trigeminal Neuralgia, Peripheral Neuropathies, Guillain Barre syndrome, Myasthenia gravis, Multiple Sclerosis, Delirium, Dementia., Alzheimer’s disease, Parkinson’s disease

**Nurse specialist (8hrs)**
- Review of anatomy & physiology of CNS
- Nursing assessment – History and physical assessment
- Common diagnostic measure - Lumbar puncture, CSF analysis, Cisternal puncture, Ventriculogram, Cerebral angiography
- Nurse’s role in diagnostic measures - EEG, Radiological studies, CT, MRI, X-ray skull, MRA, PET, SPECT, cerebral ultra sound
- Increased Intra cranial Pressure., review of Unconsciousness
- Nursing management of patients with Migraine, Headache, Cerebrovascular accident, Paraplegia, Hemiplegia, Quadriplegia, Meningitis, Encephalitis, Neurocysticercosis, Movement disorders – chorea. Seizures, Epilepsies, Cranial & spinal neuropathies – Bell’s palsy, Trigeminal Neuralgia, Peripheral Neuropathy, Guillain Barre syndrome, Myasthenia Gravis, Multiple sclerosis, Delirium, Dementia, Alzheimer’s disease, Parkinson’s disease.
- Role of nurse in communicating with patients having Neurological deficit
- Rehabilitation of patients with Neurological deficit
- Role of nurse in long stay facility (institutions) and at home

**UNIT IX - NURSING MANAGEMENT OF PATIENTS WITH ENDOCRINE DISORDERS (6Hrs)**

**Specialist (2hrs)**
- Endocrine Assessment
- Iodine uptake studies, Thyroid scanning, Thyroid Function Testing (TFT), Fine Needle Aspiration Cytology (FNAC), Radio Nucleide studies, Hormonal studies
- Management of patients with disorders of thyroid & parathyroid, Diabetes mellitus, Diabetes insipidus, Adrenal tumour, Pituitary disorders, Addison’s disease, Cushing’s Syndrome

**Nurse specialist (4hrs)**
- Review of anatomy & physiology of endocrine system
- Nursing assessment - History & physical assessment
- Nurse’s role in diagnostic measures - Iodine uptake studies, Thyroid scanning, TFT, FNAC, Radio Nucleide studies, Hormonal studies
- Management of patients with Disorders of thyroid and parathyroid, Diabetes mellitus, Diabetes Insipidus, Adrenal tumor, Pituitary disorders, Addisons diseases, Cushing’s syndrome
UNIT X - NURSING MANAGEMENT OF PATIENTS WITH IMMUNOLOGICAL DISORDERS

Specialist (2hrs)
- Immune system assessment
- Diagnostic measures

Nurse specialist (4hrs)
- Review of anatomy & physiology of immune system
- Nursing management of immuno deficiency disorders - Primary immuno deficiency
- Phagocytic dysfunctions B cell & T cell deficiencies, Secondary immunodeficiency
- Acquired immuno deficiency syndrome (AIDS) - Standard safety precautions, Role of nurse: counselling, health education and Home care consideration
- National AIDS control Programme – various national and international agencies
- Infection control programme
- Rehabilitation
- Nursing management of patients with Auto immune disorders - Systemic Lupus Erythematoses (SLE), Gout

UNIT XI - NURSING MANAGEMENT OF PATIENTS WITH INTEGUMENTRY DISORDERS & STDs

Specialist (5hrs)
- Assessment of skin
- Diagnostic measures - VDRL, ELIZA, skin smear & skin Biopsy
- Management of patients with Infection – bacterial, viral, fungal, Eczema, Lesions and abrasions, Infection and infestation, Dermatitis, Dermatoses - Infectious & non infectious
- Inflammatory dermatosis, Acne vulgaris, Allergies, psoriasis, Malignant Melanoma

Nurse specialist (5hrs)
- Review anatomy & physiology of skin
- Nursing assessment history & physical assessment
- Nurses role in diagnostic measures – VDRL, ELIZA, skin smear & skin Biopsy
- Nursing management of patients with Infection-bacterial, viral & fungal, Eczema, Lesions and Abrasions, Infection & infestation, Dermatitis, Dermatoses - Infectious & non infectious, Inflammatory dermatosis, Acne vulgaris, Allergies, Psoriasis, Malignant Melanoma, Alopecia, Phemphigus, Degenerative conditions of skin
- Nursing management of patients with Syphilis, Gonorrhoea, Leprosy

UNIT XII - NURSING MANAGEMENT OF PATIENTS WITH INFECTIOUS DISORDERS

Specialist (8hrs)
- Management of patients with, Diarrhoeal disorders, Herpes
- Chickenpox
- Bacterial infection – Cholera, Tetanus, Gasgangsene, Plague, Typhoid
• Viral infection - Influenza, Measles, Mumps, Poliomyelitis, Yellow fever, Dengue fever, Rabies, Japanese Encephalitis
• Protozoal - Ricketisial, Helminthiasis, Leprosy, Spirochete
• Parasite- Amebic dysentery, Leptospirosis, Filariasis, HIV / AIDS, Worm infestation Malaria, Diphtheria, Pertussis, Chikungunia.

Nurse Specialist (12hrs)
• Over view of infectious disease
• Nursing management of patients with :
• Diarrhoecal disorders
• Herpes, Chickenpox
• Bacterial infection – Cholera, Tetanus Gas gangrene, Plague, Typhoid
• Viral infections - Influenza, Measles, Mumps, Poliomyelitis, Yellow fever, Dengue fever, Rabies, Japanese Encephalitis
• Protozoal – Richetisial, Helminthiasis, Leprosy, Spirochete, Parasitic infestations
• Amebic dysentery - Leptospirosis, Filariasis, HIV / AIDS, Worm infestation, Malaria, Diphtheria, Pertussis, Chikungunia.
• (Review) Barrier nursing
• Special Infection control measures - Notification, Isolation, Quarantine, Immunization.

UNIT XIII - NURSING MANAGEMENT OF PATIENTS WITH MEDICAL EMERGENCIES (2Hrs)

Nurse specialist (2 hrs)
• Nursing management of patients with :
• Poisoning
• Snakesbite
• Allergy & Hypersensitivity reactions

UNIT XIV - MISCELLANEOUS (5Hrs)

Specialist (5hrs)

Management of illnesses in Alternative systems of medicine – Ayurveda, Holistic medicine and others
• Nursing Management of patients with Dental disorders

METHODS OF TEACHING
• Lecture
• Discussion
• Demonstration
• Problem Based learning – problem solving, decision making
• Simulations – role plays, games (crossword puzzles etc.,)
• Seminar

METHODS OF EVALUATION
• Written Examinations
• Assignment
• Evaluation of Problem based learning, seminars
MEDICAL NURSING PRACTICAL
(ADULT INCLUDING GERIATRICS)

Placement: IIInd year B.Sc Nursing

Allotted hours: 480 hrs

Aim:

On completion of clinical experience, the students will be able to describe and apply the nursing process approach in the care of patients with common medical, communicable and dermatological conditions in various settings with emphasis on preventive, curative and rehabilitative aspects of nursing care.

BEHAVIOURAL OBJECTIVES:-

At the end of the clinical experience the students will be able to

- Identify the etiology, pathophysiology, symptomatology diagnostic measures, course and medical management of patients suffering from common medical conditions.
- Provide comprehensive nursing care to adults with various medical disorders using nursing process approach.
- Identify the etiology, pathophysiology, symptomatology diagnostic measures, course and medical management of patients suffering from common dermatological conditions.
- Provide comprehensive nursing care to adults with various dermatological disorders using nursing process approach.
- Identify the etiology, pathophysiology, symptomatology diagnostic measures, course and medical management of patients suffering from common infectious conditions.
- Provide comprehensive nursing care to adults with various infectious disorders using nursing process approach.
- Demonstrate skill in effective communication and maintain therapeutic interpersonal relationship.
- Maintain appropriate records and reports accurately.
- Counsel and educate patients & families
- Participate as a member of the health team.

Each student is expected to develop skill in:

- Performing general physical examination and review of systems
- Performing/assisting in therapeutic procedures
- Performing/assisting in non-invasive and invasive diagnostic procedures
- Administering medications through various routes
- Counselling and teaching regarding specific disease conditions
- Collecting specimens for common investigations
- Ambulation and exercise
- Planning therapeutic diets
- Planning and participating in Rehabilitation program
Specific skills:

- Practicing medical asepsis
- Using Glasgow Coma Scale in assessment of neurological patients
- Administration of medications through various routes - oral, IV, IM, SC
- IV infusion – central or peripheral, flow rate calculation
- Blood and blood component therapy
- Maintenance and monitoring Oxygen therapy by different methods
- Chest physiotherapy
- Nasogastric and jejunostomy feeding
- Performing / assisting in cardio pulmonary resuscitation
- Throat suctioning
- Bowel wash
- Enema
- Urinary drainage
- Maintaining intake and output and documentation
- Use of Personal Protective Equipment (PPE)
- Giving medicated baths
- Participating in counseling HIV positive patients
- Standard safety measures
- Practicing universal precautions
- Teaching prevention of infectious disease
- Providing comprehensive nursing care to clients with various medical, dermatological and infectious conditions

Assisting / Carrying out and preparing the clients for:-

- X ray, CT Scan, MR I scan, USG
- ABG analysis
- Pulmonary Function Test, Pulse oximetry, Bronchoscopy, Thoracocentesis
- Lung Biopsy, Pulmonary Angiogram
- Respiratory interventions (Nebulization, Oxygen administration, chest physiotherapy, postural drainage, spirometry, Steam inhalation)
- ECG, Echocardiogram, Exercise stress testing, Cardiac catheterization, Angiography, Hemodynamic monitoring, Central Venous Pressure (CVP) monitoring
- Blood studies
- Bone narrow aspiration
- Gastro, Oesophagoscopy, Duodenoscopy
- Barium meal & Barium enema.
- Gastric Lavage
- Colonoscopy, Proctoscopy, Sigmoidoscopy, rectal examination
- Liver biopsy
- Abdominal paracentesis
- Portal pressure monitoring
- Endoscopic Retrograde Cholangio Pancreatography (ERCP)
- Cholecystogram (oral & intravenous), Cholangiogram
- Intravenous Pyelogram
- Retrograde Pyelogram
- Cystourethrography
- Uroflowmetry
- Cystoscopy
• Renal biopsy
• Extra corporeal Shock Wave Lithotripsy (ESWL)
• Renal Angiogram
• Lumbar puncture
• Electro Encephalogram (EEG)
• Radio nucleide studies
• Cystorenography
• Skin biopsy and skin smear
• Myelogram
• Venesection

METHODS OF TEACHING

• Discussion
• Demonstration
• Case discussion
• Clinical Teaching

METHODS OF EVALUATION

1. Clinical diary - 5%
2. Nursing care study presentation (1) - 5%
3. Nursing care plan (5) - 20%
4. Drug Book - 5%
5. Diet plan (1) - 5%
6. Practical record (including Care studies & OSCE) - 20%
7. Ongoing clinical evaluation - 20%
8. Practical Examinations - 20%

REFERENCES


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MEDICAL SURGICAL NURSING - I (ADULT INCLUDING GERIATRICS)

PART II - SURGICAL NURSING
INCLUDING OPERATING ROOM TECHNIQUE,
EYE AND ENT NURSING

Placement: II Year B Sc Nursing

Allotted hours
Theory : 135Hrs.
Practical : 510Hrs

Time allotment

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<td>Surgery</td>
<td>30 Hrs</td>
<td>50 Hrs</td>
<td>80 Hrs</td>
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<td>OR Technique</td>
<td>5 Hrs</td>
<td>15 Hrs</td>
<td>20 Hrs</td>
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<tr>
<td>Eye</td>
<td>5 Hrs</td>
<td>10 Hrs</td>
<td>15 Hrs</td>
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<td>ENT</td>
<td>10 Hrs</td>
<td>10 Hrs</td>
<td>20 Hrs</td>
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<tr>
<td>Total</td>
<td>50 hrs</td>
<td>85 Hrs</td>
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COURSE DESCRIPTION

This course is designed to enable the students to identify the etiology, pathophysiology, clinical manifestations and management of clients with common surgical conditions and plan & provide comprehensive nursing care, using nursing process approach during pre, intra and postoperative period.

BEHAVIOURAL OBJECTIVES

On completion of the course the student will be able to:

- Appreciate the evolution, concepts and trends of general surgery and surgical nursing.
- Identify the unique role of a nurse in a surgical unit.
- Describe the organization and physical set up of operation theatre.
- Identify surgical instruments and equipment used for common surgeries.
- Identify the importance of infection control in operation theater settings.
- Describe the role of nurse in Perioperative nursing
- Describes the definition, etiology, pathophysiology, clinical manifestations, diagnostic investigations and management of patients with specific Surgical conditions of Respiratory, Gastro intestinal, Vascular, Renal & genitourinary, Musculoskeletal systems & Miscellaneous disorders.
- Describes the Pre and Post Operative management of patients undergoing thoracic & vascular, gastrointestinal, renal & genitourinary, and miscellaneous surgeries
- Describes the definition, etiology, pathophysiology, clinical manifestations, diagnostic investigations and surgical management of patients with specific disorders of, Ear Nose & Throat
- Describes the definition, etiology, pathophysiology, clinical manifestations, diagnostic investigations and surgical management of patients with specific disorders of the eye.
- Describe the perioperative nursing care in common eye and ENT surgeries.
UNIT I-INTRODUCTION (8Hrs)

Specialist (1hr)
- Evolution of General Surgery, Current trends in General Surgery

Nurse Specialist (7hrs)
- History of Surgical Nursing, Trends in Surgical Nursing, Wound care, Role of Nurse in surgical ward and surgical ICU
- Wound: - Types - Process of wound healing - Factors affecting healing, Inflammation, Infection, Abscess, Hemorrhage, Shock
- Types of surgery, Complications of General Surgery
- Care of a patient undergoing surgery:
  - Preoperative care: Preparation, Preoperative teaching, Informed consent
  - Postoperative care: Immediate postoperative care, Late postoperative care

UNIT II- INTRA OPERATIVE NURSING CARE (20Hrs)

Specialist (5hrs)
- Anesthesia: Types, Methods of administration, Effects, Stages, Drugs used, Equipments, Complications, Hypothermia, CPR, Pain Management

Nurse Specialist (15hrs)
- Organization & physical set up of OT, Classification, Design, Staffing pattern, Duties & Responsibilities of - Scrub Nurse, Circulating Nurse
- Principles of OT attire, Instruments, Suture materials, Equipment, OT table, OT set for general surgery, Positioning for different surgeries
- Gloving, gowning and hand washing
- Client monitoring during surgery
- Safety measures in OT, Infection control in OT, Fumigation, Disinfection & Sterilisation, Biomedical waste management, Prevention of hazards
- Preparation & assisting with common surgical procedures.

UNIT III- NURSING MANAGEMENT OF CLIENTS WITH SURGICAL CONDITIONS OF RESPIRATORY SYSTEM (10Hrs)

Specialist (4hrs)
- Assessment of clients with surgical conditions of respiratory system
- Etiology, pathophysiology, clinical manifestation diagnostic investigations and surgical management of clients with Empyema, Cancer of Lung, Lung abscess, Chest injury
- Recent advances in thoracic surgery, Special therapies

Nurse Specialist (6hrs)
- Review of anatomy & physiology of Respiratory system
- Nursing assessment of clients with surgical conditions of respiratory system
- Pre and post operative Nursing Management of patients undergoing Pneumonectomy, Lobectomy, Segmental Resection, Decortication
- Care of patients with intercostal drainage, Complications of chest surgeries, Respiratory interventions
UNIT IV- NURSING MANAGEMENT OF CLIENTS WITH SURGICAL CONDITIONS OF VASCULAR SYSTEM (9Hrs)

**Specialist (4hrs)**
- Assessment of clients with vascular surgical conditions
- Etiology, pathophysiology, clinical manifestations, diagnostic investigations and surgical management of clients with Thromboangitis obliterans, Raynand’s disease, Buerger’s disease, Varicose vein
- Recent advances in Vascular Surgery
- Special therapies

**Nurse Specialist (5hrs)**
- Review of anatomy & physiology of vascular system
- Nursing assessment of clients with vascular surgical disorders
- Pre & postoperative nursing management of clients undergoing vascular surgery.

UNIT V- NURSING MANAGEMENT OF CLIENTS WITH SURGICAL CONDITIONS OF GASTROINTESTINAL SYSTEM (17Hrs)

**Specialist (7hrs)**
- Assessment of clients with surgical conditions of gastrointestinal system
- Etiology, pathophysiology, clinical manifestations, diagnostic tests and surgical management of clients with:
  - Disorders of esophagus: Inflammation, Stricture, Obstruction, Bleeding, Tumours.
  - Disorders of stomach & duodenum:
    - Hernia, Gastritis, Peptic ulcer, Duodenal ulcer, Tumours
  - Disorders of small intestine: Inflammation, Infection, Enteritis, Malabsorption, Obstruction, Tumour, Perforation
  - Disorders of large intestine
    - Colitis, Inflammation, Infection, Obstruction, Tumour, Hernia, Appendicitis
  - Disorders of rectum and anus: Hemorrhoides, Fissure, Fistula, Tumour
  - Disorders of Peritoneum
  - Disorders of Pancreas: Inflammation, Cyst, Abscess, Tumour
  - Disorders of Gall Bladder: Inflammation, Stones, Tumours
- Special Therapies, Recent advances in GI surgery

**Nurse Specialist (10Hrs)**
- Review of anatomy & physiology of gastrointestinal system
- Nursing assessment of clients with surgical conditions of gastrointestinal system
- Management of clients with disorders of oral cavity
- Pre and post operative Nursing management of clients undergoing:
  - Glossectomy, Mandibulectomy, Oesophago gastrectomy, Gastrectomy, Gastrojejunostomy, Appendicectomy, Cholecystectomy, Choledochotomy, Pancreatectomy, Colostomy, Ileostomy, Abdomino Perineal resection,
  - Herinorrhaphy, Hemorrhoidectomy, Fisstulectomy, Fissurectomy
- Nursing Management of clients undergoing Laproscopic abdominal surgeries
- Care of stoma, Care of wound drains, Prevention of Complications
- Nutritional needs of clients undergoing gastrointestinal surgery
UNIT VI- NURSING MANAGEMENT OF CLIENTS WITH SURGICAL CONDITIONS OF 
URINARY & MALE REPRODUCTIVE SYSTEM

Specialist (6hrs)
- Assessment of clients with renal and genito urinary surgical conditions
- Etiology, pathophysiology, clinical manifestations, diagnostic tests & surgical management of clients with
- Congenital malformations; cryptorchidism
- Hypospadias, Epispadiasis
- Hydronephrosis, Renal calculi
- Tumours of kidney
- Disorders of Ureter, Urinary bladder, urethra & prostrate : Inflammation, Infection
- Stricture, Obstruction, Tumour, Benign prostate hypertrophy, Hydrocele, Urinary Diversions
- Recent advances in renal & genito urinary surgery, Special therapies.

Nurse Specialist (10hrs)
- Review of Anatomy and Physiology of genitourinary system
- Nursing assessment of clients undergoing renal and genitourinary surgeries.
- Pre and postoperative management of clients undergoing Nephrectomy, Nephrostomy, Cystostomy, Urinary diversions, Cystectomy, Prostatectomy, Hydrocele repair.
- Care of drains, Bladder irrigation

UNIT VII- NURSING MANAGEMENT OF CLIENTS WITH SURGICAL CONDITIONS OF 
MUSCULOSKELETAL SYSTEM

Specialist (5hrs)
- Assessment of clients with musculoskeletal surgical conditions
- Etiology, pathophysiology, clinical manifestations, diagnostic tests and surgical management of clients with
- Disorders of muscles, ligaments and joints: Inflammation, Infection, Dislocation, Fracture, Tumour, Trauma, Osteomalacia, Osteoporosis, Congenital deformities
- Disorders of spinal column: Deformities, Tumour, Inter Vertebral Disc Prolapse (IVDP) Pott’s spine
- Care of patients with Amputation, Prosthesis, Transplant, Replacement surgery, Rehabilitation
- Recent advances in orthopedic surgery
- Special therapies

Nurse Specialist (7hrs)
- Review of Anatomy and Physiology of musculoskeletal system
- Assessment of clients with musculoskeletal surgical conditions.
- Nursing management of clients undergoing musculoskeletal surgeries.
- Nursing management of clients with Plaster cast, Traction, Internal and External fixation, Replacement surgery, Prosthesis
- Ambulation and exercises in orthopedic surgeries, Use of assistive devices

66
UNIT VIII—NURSING MANAGEMENT OF CLIENTS WITH SURGICAL CONDITIONS OF OTHER SYSTEMS

Specialist (3hrs)
- Assessment of Breast, Disorders of Breast
- Disorders of Thyroid
- Burns

Nurse Specialist (5hrs)
- Review of anatomy & physiology of Breast and Thyroid gland
- Nursing assessment & management of clients with disorders of breast and thyroid and clients undergoing Mastectomy & Thyroidectomy
- Nursing management in burns.

UNIT IX—NURSING MANAGEMENT OF CLIENTS WITH CONDITIONS OF EAR, NOSE AND THROAT

Specialist (10hrs)
- Assessment of clients with disorders of ear, nose and throat
- Etiology, pathophysiology, clinical manifestations, diagnostic tests and management of clients with
- Disorders of ear: Deformities, Otalgia, Foreignbodies, Tumours ,Impacted wax, Perforated eardrum, Otitis media Otosclerosis, Mastoiditis, Mennier’s disease, Labynthitis, Ototoxicity
- Disorders of Nose and Throat: Epistaxis, Nasal obstruction, Laryngeal obstruction, Ca Larynx, Ca Oral cavity, Common Cold, Sinusitis, Rhinitis, Pharyngitis
- Tonsillitis, Adenoiditis, Peritonsilar Abscess, Laryngitis, Speech defects
- Prevention and rehabilitation in deafness, Assistive devices in deafness
- Special therapies, Recent advances in ENT

Nurse Specialist (10hrs)
- Review of Anatomy and Physiology of Ear, Nose and Throat
- Nursing assessment and Nursing Management of clients with disorders of ear, nose and throat
- Nursing procedures in patients with disorders of ear, nose and throat—tracheostomy care, irrigations
- Nursing management of clients undergoing
- Mastoidectomy, Tonsillectomy, Adenoidectomy, Laryngectomy, Tracheostomy
- Care of a deaf patient

UNIT X—NURSING MANAGEMENT OF CLIENTS WITH CONDITIONS OF EYE

Specialist (5hrs)
- Assessment of clients with disorders of eye
- Etiology, pathophysiology, clinical manifestations, diagnostic tests and management of clients with Refractive errors, Disorders of eyelids, Disorders of conjunctiva and uvea, Disorders of cornea, Cataract, Glaucoma Tumours of eye, Retinal detachment, Squint, Eye injuries, Foreign bodies Ocular emergency
- Special therapies, Alternative therapy, Recent advances in ophthalmology
- Blindness, Corneal transplantation, Eye banking, Eye prosthesis, Eye camp
Nurse Specialist (10hrs)
- Review of Anatomy and Physiology of Eye
- Eye injuries, Foreign bodies
- Nursing assessment and Nursing Management of Refractive errors, disorders of eyelids, conjunctiva, uvea, & cornea, Cataract, Glaucoma, Tumors of eye, Retinal detachment, Squint & Ocular emergencies.
- Nursing procedures: Eye care, Eye irrigation, Eye Instillation, Eye dressing
- Role of Nurse in caring a blind person
- Nursing management of clients undergoing ophthalmic surgeries-Glaucoma, Cataract

METHODS OF TEACHING
- Lecture cum discussion
- Case discussion
- Problem based learning- problem solving, decision making
- Simulations- role plays, games (crossword puzzles etc.,)
- Seminar

METHODS OF EVALUATION
- Written examination
- Written assignments
- Evaluation of problem based learning, seminars.

*******************************
Aim:

On completion of clinical experience, the students will be able to describe and apply the nursing process approach in the Perioperative management of patients with common surgical, ophthalmic and ENT conditions in various settings with emphasis on preventive, curative and rehabilitative aspects of nursing care and develop skill in OR technique.

BEHAVIOURAL OBJECTIVES:-

At the end of the clinical experience the students will be able to

- Identify the etiology, pathophysiology, symptomatology, diagnostic measures, course and surgical management of patients suffering from common surgical conditions.
- Provide comprehensive nursing care to adults with various surgical disorders.
- Counsel & educate patients & families.
- Identify instruments used in common operations
- Participate in infection control practices in Operation Theatre
- Set up the table trolleys for common operative procedures
- Assist in giving anesthesia
- Assist in operative procedures
- Provide preoperative nursing care
- Identify the etiology, pathophysiology, symptomatology diagnostic measures, course and surgical management of patients suffering from common musculoskeletal disorders
- Provide comprehensive nursing care to adults with various musculoskeletal disorders
- Identify the etiology, pathophysiology, symptomatology diagnostic measures, course medical and surgical management of patients suffering from common ophthalmic conditions.
- Provide comprehensive nursing care to adults with various eye disorders
- Identify the etiology, pathophysiology, symptomatology diagnostic measures, course medical and surgical management of patients suffering from common ENT conditions.
- Provide comprehensive nursing care to adults with various ENT disorders

Each student is expected to develop skill in the following procedures in corresponding clinical areas:

GENERAL SURGERY

- Surgical asepsis
- Standard safety measures
- Pre operative preparation of patients
- Post operative care
- Receiving the patient, assessment, monitoring & care
- Care of wounds & drainage
- Suture removal
- Ambulation & exercise
- Naso gastric aspiration
• Care of chest drainage
• Bladder irrigation
• Ostomy care-gastrostomy, colostomy
• Blood and component therapy administration
• Universal precautions

**OR TECHNIQUE**

• Scrubbing, gowning, gloving
• Identify instruments suturing materials for common operations
• Disinfection, carbolization and fumigation of surgical suite
• Preparation of instrument sets for common operations
• Sterilization of sharps and instruments
• Prepare the OT table depending upon the operation
• Positioning and monitoring the patients
• Assisting for endotracheal intubation
• Assisting in major and minor operations
• Handling specimens
• Disposal of waste as per guidelines.

**ORTHOPAEDICS**

• Assessment of orthopaedic patients
• Assist in application of plaster cast and removal of cast
• Apply skin traction- Buck’s extension traction
• Assist in application and removal of prosthesis
• ROM exercises, muscle strengthening exercises
• Crutch maneuvering technique
• Assist in activities of daily living.

**OPHTHALMOLOGY**

• Performing examination of eye
• Assist with the diagnostic procedures in ophthalmology
• Assist with ophthalmologic therapeutic procedures
• Perform/assist with irrigations
• Apply eye bandage
• Instillation of eye drops/ ointments
• Assist with foreign body removal.

**ENT**

• Perform examination of ear, nose, throat
• Assist with ENT diagnostic procedures
• Assist with ENT therapeutic procedures
• Instillation of drops
• Perform/assist with irrigations
• Apply ear bandage
• Perform tracheostomy care
METHODS OF TEACHING

- Discussion
- Demonstration
- Case discussion
- Clinical Teaching

METHODS OF EVALUATION

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<td>Nursing care study presentation (1)</td>
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<tr>
<td>Nursing care plan (5)</td>
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<td>OR Technique Record</td>
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<tr>
<td>Practical record (care study + OSCE)</td>
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<td>Ongoing clinical evaluation</td>
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<td>Practical Examinations</td>
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REFERENCES

COMMUNITY HEALTH NURSING – I INCLUDING COMMUNITY MEDICINE

Placement: II Year BSc Nursing

Allotted hours:

Theory : 75 hours
35 hrs (Nurse Specialist)
40 hrs (Specialist in Community Medicine / Demography and Family Welfare)

Practical : 120 hours (4 weeks)

COMMUNITY HEALTH NURSING - I

Allotted Hours:
Theory : 35 hours
(By Nurse Specialist)

COURSE DESCRIPTION:
The course is designed to enables the students to demonstrate beginning skills in nursing process approach applied in community health nursing for community assessment and family health care services. It prepares the students for providing family focused nursing care based on sound principles using various tools and equipments in home and community environments.

BEHAVIORAL OBJECTIVES:
On completion of the course, the students will be able to:

- Identify the concepts of community health and community health nursing
- List the principles of community health nursing
- Describe the community profile of a selected geographical area
- Recognize the roles and responsibilities of a community health nursing personnel
- Explain the community health nursing approaches
- Conduct home visits to families in the community

UNIT I: - INTRODUCTION TO COMMUNITY HEALTH NURSING (6Hrs)

- Community health
  - Concept
  - Definitions
  - Scope
- Community health nursing
  - Concept
  - Definition
  - Scope
  - Difference between hospital nursing and community nursing
- Historical perspectives of community health nursing in world, India, and Kerala.
- Principles of community health nursing
- Educational qualifications and qualities of community health nurse
- Roles and responsibilities of community health nurse

UNIT II: APPROACHES IN COMMUNITY HEALTH NURSING (8Hrs)

- Community health nursing approaches
  - Epidemiological approach
  - Problem solving approach
  - Evidence based practice approach
  - Primary health care approach
    - Definition
    - Principles
    - Components
    - Primary health centre and village subentries.
    - Organizational set up and functions
  - Self help approach
    - Empowering people to care for themselves
  - Nursing process approach
    - Assessing the families in meeting their health needs
    - Nursing process in community health nursing

UNIT III: COMMUNITY ASSESSMENT (5Hrs)

- Community
  - Concept of community
- Community identification and assessment
  - Methods of community assessment
    - Community and family health surveys
  - Identification of community health problems and needs
- Community diagnosis

UNIT IV: FAMILY HEALTH CARE (6Hrs)

- Family health care
  - Concept of family and family health care
  - Family as the basic unit of service
  - Objectives of family health care
- Record, reports, and registers in family health care.
- Evaluation of family health care
- Role of nurse in family health care

UNIT V: FAMILY NURSE CONTACTS (10Hrs)

- Methods of family nurse contact.
  - Home visit
    - Process and Steps in home visit
    - Principles
    - Advantages
- Clinic services
- Health Counseling
- Interviewing the family

**Bag technique**
- Use of community health bag in home care
- Articles and equipment
- Principles of bag technique
- Steps in bag technique
- Carrying out therapeutic procedures as required for the family
  - Assessment of individuals and family
  - Monitoring the vital signs
  - Procedures for early detection of diseases
  - Prompt nursing care of minor ailments
  - Improvisation of nursing procedures

**COMMUNITY MEDICINE**

Placement: 11th Year B.Sc Nursing  
Time allotted:  
Theory: 40 hours  
(By specialist in Community Medicine/ Demography / Family Welfare)

**COURSE DESCRIPTION:**
The course familiarizes the students with the epidemiology of common communicable and non-communicable diseases in the country and prepares them to prevent and manage these diseases in community settings. The course emphasizes the importance of promotion of health by attending various life style health issues in the society. It also enables the students to incorporate the concept and principles of population control and family welfare in various settings of practice.

**BEHAVIORAL OBJECTIVES:**
On completion of the course, the students will be able to
- Describe the methods of epidemiology
- Manage the communicable diseases and non-communicable diseases in community settings
- Utilize the demographic details of community in their field practice
- Explain the family welfare programme in the country
- Recognize the significance of population control activities
- Criticize the financing of the health care in the country

**UNIT I: - EPIDEMIOLOGY**  
(4Hrs)

**Epidemiology**
- Definition, concept and aims
- Common Terminologies in epidemiology
- Epidemiological indicators of health
  - Morbidity and mortality measurements
- Methods in epidemiology
  - Descriptive / Analytical / Experimental
- Epidemiological investigations

UNIT II:- EPIDEMIOLOGY OF COMMUNICABLE DISEASES  (13Hrs)

- Epidemiology and Management of Common Communicable Diseases in community settings
  - Respiratory infections
  - Intestinal infections
  - Arthropod borne infections
  - Viral infections
  - Bacterial infections
  - Ricketsial infections
  - Parasitic Zoonoses
  - Surface infections
  - Other epidemics of current importance
    - Emerging and reemerging diseases

UNIT III:- EPIDEMIOLOGY OF NON COMMUNICABLE DISEASES  (8Hrs)

- Epidemiology and Management of Common Non-Communicable Diseases and life style health issues in community settings
  - Eugenics
  - Chronic diseases
  - Accidents and other non communicable diseases
  - Life style health issues.

UNIT IV:- DEMOGRAPHY AND FAMILY WELFARE SERVICES  (12Hrs)

- ‘Demography’ and ‘family welfare’
  - Concept, Definition and Scope
  - Methods of collection analysis and interpretation of demographic data
    - Demographic rates, ratios and indicators
  - Demographic trends of world, India and Kerala
- Population explosion
  - Consequences of population explosion
- Concept of Population control
  - Women empowerment
    - Social, economic and educational development
  - Limiting family size
    - Promotion of small family norms
  - Fertility reduction
- Methods of fertility reduction
  - Spacing
    - Barrier methods
    - Intra Uterine devices
    - Hormonal contraceptives
- Post conceptional contraceptives
- Emergency contraception
- Miscellaneous methods
  ▪ Terminal methods
  ▪ Medical termination of pregnancy
- Acts related to population control
- Family welfare programme
- National population policy

UNIT V: HEALTH ECONOMICS (3Hrs)

- Demand supply and cost of health care
- Financing of health care in India
  - Cost containment
  - Improving affordability of health care services
- Economics of illness in the family
COMMUNITY HEALTH NURSING – I – PRACTICAL

Placement: II\textsuperscript{nd} Year B.Sc Nursing

Allotted Hours:
Practical : 120 hours
(4 weeks)

AIM:
On completion of the learning experiences the students will be able to perform community need assessment for providing family focused nursing care based on sound principles and approaches using various tools and equipment, in various community environments.

BEHAVIORAL OBJECTIVES:
On completion of the course, the students will be able to:

- Describe the community profile of a selected geographical area
- Diagnose the health problems of the families and community
- Provide nursing care to the families based on nursing process approach
- Conduct home visits to families in the community
- Investigate on epidemiological issues in the community

LEARNING EXPERIENCES:
The practical experience includes 4 weeks posting in a rural community including participation in activities of a Rural Health Centre / Urban Health Centre and guided observation visits to selected areas. The Students should conduct household survey of families in a selected community to analyze the results. They should organize regular home visits to families in the assigned community and prepare family care plans for those families. They should maintain family folders and records of health care provided in the area. Other activities mainly include participating the activities of a clinic organized in the community / Health Centre. Guided observation visits should be arranged to:

- A sub centre (Subsidiary health center)
- Any agency for prevention of communicable diseases(eg: District TB Centre OR Regional Leprosy Hospital)
<table>
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<th>Sl No</th>
<th>Place of visit</th>
<th>Specific activities</th>
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| 1     | Sub centre (Subsidiary health centre or family welfare centre) | Situation based assignments  
Familiarizing the records and reports maintained by the sub centre  
Recognizing the staffing pattern and activities of the sub center  
Report of the visit |
| 2     | Agency for prevention of communicable diseases (e.g.: District TB Centre OR Regional Leprosy Hospital, or AIDS control society etc) | Situation based assignments  
Identifying the activities of the centre / agency for prevention of specific diseases in the community.  
Recognizing the organizational set up of the agency  
Report of the visit |

SKILLS REQUIRED:
- Conducting home visits in urban and rural areas
- Establishing rapport with the family and community
- Conducting Family health surveys and epidemiological investigations to identify health determinants of family and community
- Assessing the health status of individuals and families
- Preparing and maintaining various family health records and reports including family care plans.
- Counseling and teaching individuals and families in the community
- Demonstrating bag technique for doing various nursing interventions in home environment
- Performing simple laboratory investigations at health Centers
- Administering vaccinations to adults attending the clinics
- Assisting with temporary and permanent family planning activities

ASSIGNMENTS:

Group Assignment:
- Preparation of the demographic profile of the selected community, based on the data collected during family health survey

Individual Assignment:
- Nursing care plans of selected families in the assigned community
- Writing a brief report of the community health nursing activities’ and ‘guided observation visits’ in the *practical log book in community health nursing*
METHOD OF TEACHING

- Interactive lecture
- Discussions
- Demonstration
- Field trip
- Home visit
- Family Nursing care plan

METHOD OF EVALUATION

1. Written examinations
   - Introduction to community health (first year) 25 %
2. Written examinations
   - Community Health Nursing -I 25 %
3. Written examination Community Medicine 25 %
4. Ongoing Performance Evaluation 15 %
5. Assignments 10 %

REFERENCES


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Placement: II year BSc Nursing  
Allotted hours: 60Hrs

COURSE DESCRIPTION:

This course is designed to enable students to acquire understanding of pharmaco-dynamics, pharmacokinetics, principles of therapeutics and nursing implications.

BEHAVIOURAL OBJECTIVES:

On completion of the course, students will be able to:

- Describe pharmaco-dynamics, pharmacokinetics, classification & principles of drug administration.
- Explain chemotherapy of specific infections& infestations and nurses responsibilities.
- Describe antiseptics, disinfectants & insecticides and nurses responsibilities.
- Describe drugs acting on G.I system, Respiratory system, Urinary system, Nervous system, Cardiovascular system, endocrine system, skin & mucous membranes and nurses responsibilities.
- Describe the drugs used in de addiction, emergency, deficiency of vitamins& minerals, poisoning, immunization & immunosuppression, termination of pregnancy and nurses responsibilities.
- Demonstrate awareness of common drugs used in alternative systems of medicine.

UNIT I - INTRODUCTION TO PHARMACOLOGY  
(6Hrs)

- Definitions
- Sources
- Terminology used
- Types: Classification
- Pharmacodynamics: Actions, therapeutic
- Adverse, toxic
- Pharmacokinetics: absorption, distribution, metabolism, interaction, excretion
- Review: Routes and principles of administration of drugs
- Indian pharmacopoeia: Legal issues
- Rational use of drugs
- Principles of therapeutics

UNIT II - CHEMOTHERAPY  
(8Hrs)

- Pharmacology of commonly used: Penicillin, Cephalosporins, Aminoglycosides, Macrolide & Broad spectrum Antibiotics, Sulfonamides, Quinolones, Antiamoebic, Antimalarials, Anthelminthics, Antiscabies agents, Antiviral & antifungal agents, Anti tubercular agents, Antileprosy agents, Anticancer agents, Immuno-suppressants- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.
UNIT III - PHARMACOLOGY OF COMMONLY USED ANTISEPTICS, DISINFECTANTS AND INSECTICIDES (2Hrs)

- Antiseptics: Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse
- Disinfectants
- Insecticides

UNIT IV - DRUGS ACTING ON G.I SYSTEM (5Hrs)

- Pharmacology of commonly used- Antiemetics, Emetics, Purgatives, Antacids, Cholinergic, Anticholinergics, Fluid and electrolyte therapy, Antidiarrhoeals, Histamines- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.

UNIT V - DRUGS USED ON RESPIRATORY SYSTEM (4Hrs)

- Pharmacology of commonly used- Antiasthmatics, Mucolytics, Decongestants, Expectorants, Antitussives, Bronchodilators, Bronchoconstrictors, Antihistamines - Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.

UNIT VI - DRUGS USED ON URINARY SYSTEM (3Hrs)

- Pharmacology of commonly used- Diuretics and antidiuretics, Urinary antiseptics, Cholinergic and anticholinergics, Acidifiers and alkalinizers.- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.

UNIT VII – DRUGS USED ON SKIN AND MUCOUS MEMBRANES (3Hrs)

- Topical applications for skin, eye, ear, nose and buccal cavity- Antipruritics- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.

UNIT VIII - DRUGS ACTING ON NERVOUS SYSTEM (8Hrs)

- Basic & applied pharmacology of commonly used:
- Analgesics and Aesthetic: Analgesics- Non-steroidal anti inflammatory (NSAID) drugs, Antipyretics, Hypnotics & Sedatives- Opioids, Non-opioids, Tranquilizers, General & local anesthetics, Gases: oxygen, nitrous oxide, carbon-dioxide
- Cholinergic and anti-cholinergics: Muscle relaxants, Major tranquilizers, Anti-psychotics, Anti-depressants, Anticonvulsants, Adrenergics, Noradrenergics, Mood stabilizers, Acetyl choline, Stimulants- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse.

UNIT IX - CARDIOVASCULAR DRUGS (6Hrs)

- Hematinics
- Cardiotonics
- Antianginals
• Anti-hypertensives & Vasodilators
• Anti-arrythmics
• Plasma expanders
• Coagulants & anticoagulants
• Antiplatelets & thrombolytics
• Hypolipidemics—Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

UNIT X—DRUGS USED FOR HORMONAL DISORDERS AND SUPPLEMENTATION, CONTRACEPTION AND MEDICAL TERMINATION OF PREGNANCY

(6Hrs)

• Insulins & oral hypoglycemics
• Thyroid supplements & suppressants
• Steroids & anabolics
• Uterine stimulants & relaxants
• Oral contraceptives
• Other estrogen-progesterone preparations
• Corticotrophine & Gonadotropines
• Adrenaline
• Prostaglandins
• Calcitonins
• Calcium salts
• Calcium regulators
• Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse

UNIT XI—MISCELLANEOUS

(5Hrs)

• Drugs used in de-addiction
• Drugs used in CPR and emergency
• Vitamins and minerals
• Immunosuppressants
• Antidotes
• Antivenom
• Vaccines and sera

UNIT XII—INTRODUCTION TO DRUGS USED IN ALTERNATIVE SYSTEMS OF MEDICINE

(4Hrs)

• Ayurveda, Homeopathy, Unani, and Siddha etc

METHODS OF TEACHING

• Lecture Discussion
• Practice sessions using Practical worksheets
• Drug study and presentation
• Observation visits
METHODS OF EVALUATION

- Written examination
- Evaluation of written assignments, practical worksheets

REFERENCES:


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PATHOLOGY

Placement: II Year B.Sc Nursing

Allotted hours : 30 Hrs
Theory : 20 hrs
Practical: 10 hrs

COURSE DESCRIPTION

This course is designed to enable students to acquire knowledge of pathology of various disease conditions and apply this knowledge in practice of nursing.

BEHAVIOURAL OBJECTIVES

On completion of the course, the student will be able to;

- Define the common terms used in pathology
- Appreciate the deviation from normal to abnormal structure and functions of the body system
- Explain the pathological changes in disease conditions of the various systems
- Describe various laboratories tests for assessment and monitoring of disease conditions, examinations of body cavity fluids, transudates and exudates, examination of urine and faeces

UNIT I - INTRODUCTION (3Hrs)

- Importance of study of pathology
- Definition of terms
- Methods and techniques
- Cellular and tissue changes
- Infiltration and regeneration
- Inflammation and infections
- Wound healing
- Vascular changes
- Cellular growth, Neoplasm
- Benign and malignant growths
- In situ carcinoma
- Disturbances of fluid and electrolyte balance
UNIT II – SPECIAL PATHOLOGY  
(10Hrs)

- Pathologic changes in disease conditions of various system
- Respiratory tract; Tuberculosis, Bronchitis, Pleural effusion and Pneumonia, Lung abscess, emphysema, Bronchiectasis, Bronchial asthma, Chronic obstructive pulmonary disease and tumors
- Cardio vascular system; Pericardial effusion, rheumatic heart disease, ineffective endocarditis, atherosclerosis, Ischemia, infarction and aneurysm
- Gastro intestinal tract; Peptic ulcer, typhoid, carcinoma of GI tract – buccal, esophageal, gastric and intestinal
- Liver, Gallbladder and Pancreas; Hepatitis, chronic liver abscess, cirrhosis, tumors of liver, Gall bladder, pancreas, Cholecystitis
- Kidneys & Urinary tract: Glomerulonephritis, Pyelonephritis, Calculi, Renal failure, Renal carcinoma & Cystitis
- Male genital system: Cryptorchidism, Testicular atrophy, Prostatic hyperplasia, Carcinoma Penis & Prostate
- Female genital system: Fibroids, Carcinoma Cervix and Endometrium, Vesicular mole, Choriocarcinoma, Ectopic gestation, Ovarian cyst & tumors
- Cancer Breast
- Central Nervous System: Hydrocephalus, Meningitis, Encephalitis, Vascular disorders—Thrombosis, Embolism, Stroke, Paraplegia, Quadriplegia, Tumors, Meningiomas-Gliomas
- Metastatic tumors
- Skeletal system— Bone healing, Osteoporosis, Osteomyelitis.
- Arthritis & tumors

UNIT III - CLINICAL PATHOLOGY  
(4Hrs)

- Various blood and bone marrow tests in assessment and monitoring of disease conditions: Hemoglobin, RBC, White cell & platelet counts, Bleeding time, Clotting time and Prothrombin time,
- Blood grouping and cross matching, Blood chemistry, Serological and immunological tests, other blood tests, examination of bone marrow, methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values

UNIT IV- EXAMINATION OF BODY CAVITY FLUIDS, TRANSUDATES AND EXUDATES  
(2Hrs)

- The laboratory tests used in CSF analysis
- Examination of other body cavity fluids, transudates and exudates—sputum, wound discharge
- Analysis of semen—sperm count, motility, morphology and their importance in infertility
- Methods of collection of CSF and other cavity fluids for various clinical pathology, biochemistry, microbiology tests, inference and normal values.
UNIT V – URINE AND FAECES (1Hr)

• Urine: Physical characteristics, Analysis, Culture and sensitivity.
• Faeces: Characteristics, Stool examination-occult blood. Ova, Parasites, Cyst, Reducing substance etc
• Methods of collection for various tests, inference and normal values.

PRACTICAL (10Hrs)

• Observation visits to Hematology, Histopathology, Cytology, Endocrinology labs in Pathology departments and Blood Bank

METHODS OF TEACHING

• Lecture discussion
• Observation of various laboratory test in pathology, Biochemistry, Microbiology labs and blood bank

METHODS OF EVALUATION

• Written examination
• Written assignments

REFERENCES:

MEDICAL SURGICAL NURSING II (ADULT INCLUDING GERIATRICS)

Placement : III Year B.Sc Nursing

Allotted Hours
Theory : 120 Hrs
Practical : 360 hrs

Time allotment

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COURSE DESCRIPTION

This course is designed to enable the student to recognize the etiology, pathophysiology, symptomatology, diagnostic measures, and management of patients with complex medical and surgical conditions in Cardiology, cardio thoracic surgery, Neurosurgery, Nephrology, Oncology, Plastic and reconstructive surgery and emergencies and to provide comprehensive nursing care based on nursing process approach.

BEHAVIORAL OBJECTIVES

On completion of the course the student will be able to

- Describe the organization of critical care units and the role of the nurse in management of patients in critical care units
- Describe organization of emergency and disaster care services and the role of nurse in disaster management
- Describe the role of in management of common Emergencies
- Describe the nursing management of patient with respiratory disorders
- Describe the etiology pathophysiology and clinical manifestations of cardiac surgical conditions and the pre and post operative management of such patients
- Describe the pre and post operative management of patient with neurosurgical conditions
- Describe the nursing management of patient with renal disorders
- Describe the nursing management of patient with oncologic disorders
- Describe the nursing management of patients undergoing plastic, reconstructive and cosmetic surgery
- Explain the concept, theories, problems of ageing and the nursing care of the elderly
UNIT I: NURSING MANAGEMENT OF PATIENTS IN CRITICAL CARE UNITS (10Hrs)

- Introduction to critical care units: classification, organization; physical setup, policies, staffing norms, protocols, equipment and supplies
- Special equipments: ventilators, cardiac monitors, defibrillators, resuscitation equipments
- Infection control protocols
- Principles of critical care nursing
- Nursing management of critically ill patient;
- Monitoring of critically ill patient
- CPR- Advanced Cardiac Life support
- Treatment and procedures
- Transitional care
- Ethical and legal aspects
- Communication with patient and family
- Intensive care records
- Crisis intervention
- Death and dying
- Drugs used in critical care unit
- Psychosocial aspects of critical care nursing, patient, family and nurse
- Role of a critical care nurse

UNIT II: NURSING MANAGEMENT OF PATIENTS WITH EMERGENCIES AND DISASTER SITUATIONS DISASTER NURSING (10Hrs)

Disaster Nursing
- Concepts and principles of disaster nursing
- Causes and types of disaster: natural and man-made – earthquakes, floods, epidemics, cyclones, tsunami, fire, explosion, accidents, violence, terrorism- bio-chemical, war.
- Policies related to disaster management – international, national, state, institutional
- Disaster Preparedness- Team, guidelines, protocol, equipments, resources
- Coordination and involvement of community- various government department, non-government organizations and international agencies
- Role of nurse in disaster
- Legal aspects of disaster nursing
- Impact on health and after effects- Post traumatic stress disorder
- Rehabilitation: Physical, psychosocial, financial, relocation

Emergency Nursing
- Concepts, priorities, principles and scope of emergency nursing
- Organization of emergency services: Physical set up, staffing, equipment and supplies, protocol, concepts of triage and role of triage nurse
- Coordination and involvement of different departments and facilities
- Nursing assessment – History and physical assessment
- Etiology, pathophysiology, clinical manifestation, diagnosis, medical & surgical management of patient with medical & surgical emergency
- Common emergencies
- Respiratory emergencies, cardiac emergencies, shock and hemorrhage, poly trauma, road accidents, crush injuries, wounds, bites, poisoning: food, gas, drugs and chemical poisoning, seizures, thermal emergencies: heat stroke and cold injuries violence, abuse, sexual assault
- Cardio pulmonary resuscitation
- Crisis interventions
- Medico-legal aspects
- Role of Nurse: communication and interpersonal relations

UNIT III: NURSING MANAGEMENT OF PATIENTS WITH RESPIRATORY DISORDERS

**Nurse Specialist (5Hrs)**

- Nursing management of patients with Acute respiratory failure Acute Respiratory Distress Syndrome (ARDS), Pulmonary oedema, Interstitial lung disease, Nursing care of patients on Mechanical ventilator.

UNIT IV: NURSING MANAGEMENT OF PATIENTS WITH CARDIAC DISORDERS

**Specialist**

**Cardiology (5Hrs)**

- Cardiovascular Assessment -History & physical examination
- Diagnostic procedures -Cardiac catheterization, hemodynamic monitoring, cardiac enzyme & lipid profile, Electrocardiogram (ECG)
- Treatment modalities - drugs used in cardiac disorders, Percutaneous Transluminal, Coronary Angioplasty (PTCA), Coronary stenting, Laser ablation atherectomy.
- Supportive therapies - pacemakers, Intra Aortic Balloon Pump (IABP), defibrillators.
- Cardiac disorders - Coronary Artery Diseases, Acute coronary syndrome, Cardiomyopathies, Left Ventricular Failure (LVF), Dysrhythmias, Cardiac arrest – Cardiopulmonary Resuscitation- Advanced Cardiac Life Support (CPR-ACLS)
- Cardiac rehabilitation
- Recent trends in Cardiology

**Cardiac Surgery (5Hrs)**

- Pre and post operative management of patients undergoing closed and open heart surgery
- Valvotomy, Valve replacement surgeries
- Aneurysms repair
- Coronary Artery Bypass Graft
- Correction of congenital defects
- Heart transplantation
- Recent trends in Cardiac surgery

**Nurse Specialist (10Hrs)**

- Nurses role in diagnostic procedures - Cardiac catheterization, hemodynamic monitoring, cardiac enzyme & lipid profile, ECG
- Treatment modalities - Drugs used in cardiac disorders, Percutaneous Transluminal, Coronary Angioplasty (PTCA), Coronary stenting, Laser ablation atherectomy
- Supportive therapies - Pacemakers, IABP, defibrillators.
- Nursing management of patients with Coronary Artery Diseases, Acute coronary syndrome, Cardiomyopathies, LVF, Dysrhythmias, Cardiac arrest – CPR, ACLS
- Cardiac rehabilitation
• Pre and post operative nursing management of patients undergoing closed and open heart surgery, Valvotomy, Valve replacement surgeries, Aneurysms repair, Coronary Artery Bypass Graft, Correction of congenital defects, Heart transplantation

UNIT V: NURSING MANAGEMENT OF PATIENTS WITH NEUROSURGICAL CONDITIONS

Specialist (5Hrs)

• Neurological assessment
• Diagnostic measures
• Management of patients with head injuries, spinal injuries, herniation of inter vertebral disc, intra cranial and cerebral aneurysms, Intra Cranial Space Occupying Lesions (ICSOL), intra cranial surgeries and spinal surgeries.
• Rehabilitation
• Recent trends in Neuro Surgery

Nurse Specialist (10Hrs)

• Nursing assessment – History physical examination
• Nurses role in diagnostic measures
• Nursing management of patients with head injuries, spinal injuries, herniation of inter vertebral disc, intra cranial and cerebral aneurysms, ICSOL.
• Pre and postoperative nursing management of patients undergoing, intra cranial surgeries and spinal surgeries.

UNIT V1: NURSING MANAGEMENT OF PATIENTS WITH RENAL DISORDERS

Specialist (5Hrs)

• Renal Assessment
• Management of patients with Renal failure-Acute Renal Failure, Chronic Renal Failure, Dialysis - HaemoDialysis, PeritonealDialysis.
• Renal transplantation
• Rehabilitation
• Recent trends in Nephrology

Nurse Specialist (10Hrs)

• Nursing Assessment- History & Physical examination
• Nursing management of patients with Renal failure-Acute Renal Failure, Chronic Renal Failure, Dialysis- Haemodialysis, Peritoneal dialysis
• Renal transplantation

UNIT V11: NURSING MANAGEMENT OF PATIENTS WITH ONCOLOGICAL DISORDERS

Specialist (5Hrs)

• Cancer-incidence and trends
• Structure and characteristics of normal and cancer cells
• Classification, staging and grading of neoplasm
Common malignancies of various body systems: Oral, larynx, lung, stomach and colon, liver, Leukemia’s, lymphomas, breast, cervix, ovary, uterus, Sarcoma, brain, renal, bladder, prostate etc
Oncological emergencies
Treatment modalities - Immunotherapy, Chemotherapy, Radiationtherapy, Surgical intervention
Stem cell and Bonemarrow transplantation, Gene therapy and other forms of treatment
Palliative care
Recent trends in Oncology

Nurse Specialist (10Hrs)

- Structure and characteristics of normal and cancer cells
- Nursing Assessment- History & Physical examination
- Prevention, screening, early detection, warning sings of cancer
- Epidemiology, etiology, classification, pathophysiology, staging, clinical manifestations, diagnosis, treatment modalities and medical, surgical and nursing management of oncological conditions
- Common malignancies of various body systems: oral cavity, larynx, lung, stomach and colon, liver, Leukemias, lymphomas, breast, cervix, ovary, uterus, Sarcoma, brain, kidney, bladder, Prostate etc
- Oncological emergencies
- Nurses Role in Immunotherapy, Chemotherapy, Radiationtherapy, Surgical interventions
- Stem cell and Bonemarrow transplantation, Gene therapy and other forms of treatment
- Psychosocial aspects of cancer
- Rehabilitation
- Palliative care-Symptom and pain management

UNIT XI: NURSING MANAGEMENT OF PATIENTS UNDERGOING PLASTIC, RECONSTRUCTIVE AND COSMETIC SURGERIES

Specialist (5Hrs)

- General principles of plastic surgery
- Correction of Congenital defects
- Burns, skin grafting
- Repair of traumatic injuries
- Reconstructive surgeries
- Cosmetic surgeries – prosthesis
- Rehabilitation
- Recent trends in plastic surgery

Nurse Specialist (5Hrs)

- Nursing assessment – history and physical assessment
- Nursing management of patients undergoing plastic, reconstructive and cosmetic surgeries
- Legal aspects, psychosocial aspects, rehabilitation

UNIT IX: NURSING CARE OF ELDERLY

Specialist (5Hrs)

- Ageing – concepts, theories of ageing process
- Demography: myths and realities
• Cognitive aspects of ageing
• Normal biological ageing
• Age related body systems changes
• Common health problems – cardiovascular, respiratory, musculoskeletal, endocrine, genito-urinary, gastrointestinal, neurological, skin and other sensory organs
• Psychosocial and sexual abuse of elderly
• Provisions and programmes for elderly – privileges, community programmes and health services

Nurse Specialist (5Hrs)

• Nursing assessment – history and physical assessment
• Nursing management of elderly clients with common health problems- cardiovascular, respiratory, musculoskeletal, endocrine, genito-urinary, gastrointestinal, neurological, skin and other sensory organs
• Role of nurse in care of elderly – ambulation, nutrition, communication, psychosocial and spiritual
• Role of nurse for caregivers of elderly
• Role of family and formal and non formal caregivers
• Use of aids and prosthesis (hearing aids, dentures)
• Rehabilitation
• Legal and ethical issues
• Home and institutional care

METHODS OF TEACHING

• Lecture
• Discussion
• Problem based learning-problem solving, critical care pathways, critical thinking exercises
• Seminars
• Demonstration

METHODS OF EVALUATION

• Written examination
• Assignments
• Evaluation of Problem based learning

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MEDICAL SURGICAL NURSING II (ADULT INCLUDING GERIATRICS)

PRACTICAL

Placement: III Year B.Sc Nursing

Allotted Hours: 360 Hrs

AIM

On completion of clinical experience, the students will be able to gain proficiency in ICU nursing and apply the nursing process approach in the management of patients with common medical surgical critical care conditions with emphasis on preventive, curative and rehabilitative aspects of nursing care and develop skill in management of patient in emergency and disaster situations.

BEHAVIORAL OBJECTIVES

On completion of the clinical experience the students will be able to:

- Provide care to critically ill patients
- Provide care to patients in emergency and disaster situation
- Counsel patient and families for grief and bereavement.
- Provide care to patients undergoing hemodialysis / peritoneal dialysis
- Identify potential problems and initiate measures to prevent them
- Demonstrate skill in performing advanced procedures
- Document accurately findings and medications
- Develop interpersonal relations with patients, family members and health care team
- Develop skill in neurological assessment
- Give care to the patient with head injury spinal injury
- Provide perioperative care to patient undergoing chest and cranial surgery
- Provide comprehensive care to patients with burns
- Provide perioperative management to patients undergoing plastic, reconstructive & cosmetic surgery
- Provide comprehensive care to patients with oncologic conditions

Each student is expected to develop skill in

- Monitoring of patients in ICU
- Maintain flow sheet
- Administration of drugs
- Counsel the patient and family
- Assist with diagnostic procedures
- Assist with therapeutic Procedures
- Plan rehabilitation program

Specific Skills

- Practice medical & surgical asepsis
- Care of patient on ventilators
- Perform Endotracheal suction
- Care of patients with artificial airway
- Assist in endotracheal intubation
- Demonstrate use of haemodynamic, cardiac monitors
• Collect specimens and interprets ABG analysis
• Assist with arterial puncture
• Maintain CVP line
• Pulse oximetry
• CPR-ACLS
• Care of patient undergoing defibrillation
• Care of patient with Pace makers
• Assist in Bag-mask ventilation
• Assist in preparation of Emergency tray/trolley - Crash Cart
• Administration of drugs through Infusion pump,
• Assisting in Epidural, Intra thecal, Intracardiac injections
• Total parenteral therapy
• Chest physiotherapy
• Perform active & passive Exercises
• Practice “triage”
• Assist with assessment, examination, investigation & their interpretations, in emergency and Disaster situations
• Assist in legal procedures in emergency unit
• Participate in managing crowd
• Monitoring and care of patients during dialysis
• Assess neurological status of patients
• Provide care to head injury spinal injury patients
• Pre and postoperative care with neuro surgery patients
• Assessment of flaps and grafts
• Care of patients undergoing plastic and reconstructive surgery
• Assessment of severity of burns using different scales
• Fluid & electrolyte replacement therapy in burns
• Care of burn wounds
• Screen for common cancers - Warning signs
• Assist with diagnostic procedures – Biopsies, Pap smear, Bone-marow aspiration
• Breast self examination
• Assist with therapeutic Procedures – Chemotherapy, Radiotherapy, Pain management, Stomal therapy, Hormonal therapy, Immuno therapy, Gene therapy, Alternative therapy
• Participate in palliative care

METHODS OF TEACHING

• Discussion
• Demonstration
• Case discussion
• Clinical Teaching

ASSINGMENTS TO BE COMPLETED

• Nursing care analysis (including OSCE)- 1
• Nursing care plan – 5
• Clinical presentation – 1
• Drug book
METHODS OF EVALUATION

- Ongoing clinical evaluation 25%
- Care plans 15%
- Clinical Presentation 10%
- Critical care pathways 10%
- Nursing care analysis (including OSCE) 15%
- Drug book 5%
- Practical Examination 20%

REFERENCES

CHILD HEALTH NURSING

Placement: III Year B.Sc Nursing

Allotted Hours
Theory : 120 Hrs
Practical : 360 Hrs (9 Weeks)

Time Allotment:

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COURSE DESCRIPTION

This course is designed to assist the students in identification and application of nursing principles specific to the area of children. Special emphasis is given to the growth and development of children.

BEHAVIORAL OBJECTIVES

On completion of course the students will be able to:

- Explain nature, principles and perspectives of heredity
- Explain the normal embryological development of fetus and associated anomalies
- Explain the maternal, prenatal and genetic influences in the development of defects and diseases
- Explain the screening methods of genetic disorders and the importance of genetic services and counseling in Paediatric nursing
- Manage the child with behavioral and social problems
- Identify the social and welfare services for challenged children
- Explain the modern concepts of child care and principles of child health nursing
- Describe national policy programmes and legislation in relation to child health and welfare
- List major causes of death during infancy, early and late childhood
- Describe the major functions and role of the Paediatric nurse in caring for a hospitalized child
- Describe the growth and development of children at different ages, identify their needs and provide parental guidance
- Identify the nutritional needs of children at different ages and ways of meeting the needs.
- Appreciate the role of play for normal and sick children
- Provide comprehensive care to normal and high risk neonates and manage common neonatal problems
- Provide nursing care in common childhood diseases.
- Identify measures to prevent common childhood diseases including immunization
UNIT I: - GENETICS AND EMBRYOLOGY (15Hrs)

Specialist (10 Hrs)

• Chromosomal aberrations
• Patterns of inheritance
  o Mendelian theory of inheritance, Multiple alleles and blood groups
  o Sex linked inheritance, Mechanisms of inheritance,
  o Errors of transmission (Mutation)
• Maternal, prenatal and genetic influences on development of defects and diseases
• Conditions affecting the mother: genetic and infections, consanguinity atopy
• Prenatal nutrition and food allergies, maternal age
  o Maternal drug therapy, prenatal testing and diagnosis
  o Effects of radiation, drugs and chemicals
  o Infertility, Spontaneous abortion
• Neural tube defects and the role of folic acid in lowering the risks
• Down syndrome
• Genetic testing in the neonates and children, Screening for congenital anomalies, developmental delay and dysmorphism
• Inborn errors of metabolism

Nurse Specialist (5 Hrs)

• Chromosomes- sex determination
• Review of cellular division-mitosis and meiosis
• Characteristics and structure of genes
• Impact of genetic condition on families
• Practical application of genetics in nursing
• Services related to genetics
  o Genetic testing, Human genome project, Gene therapy, The eugenics movement
  o Genetic counseling, Legal and ethical issues, Role of a nurse

UNIT II: - CHILD PSYCHOLOGY (3Hrs)

• Child’s normal behavior &development, theories of development.
• Developmental influences on child’s behavior
• Childhood problems – behavioral, developmental, habit disorders, discipline
• Child guidance clinic

UNIT III: - INTRODUCTION (15Hrs)

- MODERN CONCEPTS OF CHILD CARE

Nurse Specialist

• Internationally accepted rights of the child
• National policy and legislations in relation to child health and welfare
• Agencies related to welfare services to the children
• 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 child
• Impact of hospitalization on the child and family
• Grief and bereavement
• The role of a child health nurse in caring for a hospitalized child
• Principles related to child care
• Principles of Paediatric nursing
• Principles of pre and post operative care of infants and children
• Child health nursing procedures

UNIT IV: - THE HEALTHY CHILD  

Nurse Specialist

• Principles of growth and development
• Factors affecting growth and development
• Growth and development from birth to adolescence
• The needs of normal children through the stages of development and parental guidance
• Fluid requirement in children
• Nutritional needs of children and infants: Breast feeding, exclusive breast feeding, supplementary and artificial feeding and weaning
• Baby friendly hospital initiative
• Accidents: causes and prevention
• Value of play and selection of play material
• Preventive immunization, immunization programme and cold chain
• Preventive Paediatrics
• Care of under five and under five clinics/ well baby clinics
• School health programme

UNIT V: - NURSING CARE OF A NEONATE  

Specialist - Paediatrician (2Hrs)

• Management of high-risk newborn

Nurse Specialist (6Hrs)

• Nursing care of normal newborn/ Essential newborn care
• Neonatal resuscitation
• Nursing management of a low birth weight baby
• Kangaroo mother care
• Nursing management of common neonatal disorders
• Organization of neonatal unit
• Identification and nursing management of common congenital malformations

UNIT VI: - RESPIRATORY DISORDERS  

Specialist -Paediatrician  (1 Hr)

• Infections (Bronchitis, Pneumonia) childhood asthma

Nurse Specialist (5 Hrs)

• Nursing management of children with Acute and chronic respiratory disorders, Otitis-media,Croup, Bronchitis, Bronchial asthma, Bronchiolitis, Emphysema, Empyema, Pneumonia
UNIT VII: - CARDIOVASCULAR DISORDERS (9Hrs)

Specialist - Paediatrician (2Hrs)
• Congenital heart disorders, Rheumatic heart disease, Congestive heart failure

Specialist - Paediatric Surgeon (2Hrs)
• Surgical management of congenital heart diseases

Nurse Specialist (5Hrs)
• Nursing management of children with Congenital heart disorders, Rheumatic fever, Congestive heart failure, and children with cardiac surgeries

UNIT VIII: - HEMATOLOGICAL DISORDERS (6Hrs)

Specialist - Paediatrician (2 Hrs)
• Iron deficiency anemia, Leukemia

Nurse Specialist (4 Hrs)
• Nursing care of children with Anemia, Leukemia, Hemophilia, Thalassemia, Sickle cell anemia, Lymphoma

UNIT IX: - GASTROINTESTINAL DISORDERS (12 Hrs)

Specialist - Paediatric Surgeon (5 Hrs)
• Cleft lip and palate, Tracheo-oesophageal fistula, Pyloric stenosis, Intussusception, Hernia, Ano-rectal anomalies, Exomphalos

Specialist - Paediatrician (1 Hr)
• Acute diarrhoeal diseases

Nurse Specialist (6 Hrs)
• Assessment & nursing management of children with Gastroenteritis, hepatic disorders and Malabsorption syndrome
• Integrated management of neonatal and childhood illness (IMNCI)
• Nutritional deficiency diseases-Protein Energy Malnutrition
• Pre & postoperative management of children with Cleft lip & Cleft palate, Tracheo-oesophageal fistula, Pyloric stenosis, Hirschsprung’s disease, Exomphalos, Anorectal anomalies, Hernia

UNIT X: - NEUROLOGICAL DISORDERS (10Hrs)

Specialist-Paediatrician (2 Hrs)
• Meningitis, Encephalitis, Seizures disorders

Specialist - Paediatric Surgeon (2 Hrs)
• Hydrocephalus, Brain tumours, Spina bifida, Head injury
Nurse Specialist (6 Hrs)

- Nursing care of children with Meningitis, Encephalitis, Seizure disorder & Cerebral palsy
- Pre & postoperative nursing management of children with Hydrocephalus, Brain tumor, Head injuries & Spina-bifida

UNIT XI: - GENITOURINARY DISORDERS (7Hrs)

Specialist - Paediatric Surgeon (2Hrs)

- Obstructive uropathy, Wilms tumor, Congenital genito urinary abnormalities

Nurse Specialist (5 Hrs)

- Nursing management of children with Acute glomerulonephritis, Nephrotic syndrome & Renal failure
- Pre & postoperative management of children with Obstructive uropathy, Wilms tumor & Congenital genito urinary abnormalities

UNIT XII: - ENDOCRINE DISORDERS (2Hrs)

Nurse Specialist

- Nursing management of children with Juvenile diabetes mellitus, Congenital hypothyroidism, Diabetes insipidus

UNIT XIII: - MUSCULOSKELETAL DISORDERS (2Hrs)

Nurse Specialist

- Nursing management of children with Club foot, Congenital hip dislocation, Fracture

UNIT XIV: - INTEGUMENTARY DISORDERS (3Hrs)

Specialist - Paediatric Surgeon (1 Hr)

- Burns.

Nurse Specialist (2 Hrs)

- Scabies, Impetigo, Nursing management of a child with burns

UNIT XV: - COMMUNICABLE DISEASES (8Hrs)

Nurse Specialist

- Nursing management of children with Whooping cough, Diphtheria, Poliomyelitis, Tetanus, Measles, Mumps, Cholera, Candidiasis, AIDS, Chicken pox.
UNIT XVI: PAEDIATRIC EMERGENCIES  (3Hrs)

Nurse Specialist

- Nurse’s role in managing foreign body Aspiration, Burns, Shock, Accidents, Haemorrhage, Poisoning & Drowning

METHODS OF TEACHING

- Lecture cum discussion
- Field visit to Anganwadi and Child Guidance Clinic
- Film show
- Problem based learning- critical incidents
- Demonstration

METHODS OF EVALUATION

- Periodical class tests
- Written examinations: 3
- Quiz on growth and development
CHILD HEALTH NURSING – PRACTICAL

Placement: III Year B.Sc Nursing

Allotted Hours: 360 Hrs (9 Weeks)

AIM

The aim of the clinical posting is to enable the students to identify the normal growth and development of various age groups, deviation from normal and demonstrate skill in rendering comprehensive nursing care to children suffering from various disorders and their families with a desirable attitude.

BEHAVIORAL OBJECTIVES

On completion of the clinical posting the student will be able to

- Provide nursing care to children with various medical disorders
- Recognize different paediatric surgical conditions / malformations
- Provide pre and post operative care to children with common paediatric surgical conditions
- Perform assessment of children: Health, developmental and anthropometric
- Perform immunization
- Give health education and nutritional education
- Provide nursing care to critically ill children

CLINICAL SKILLS

Each student is expected to develop skill in

- Taking Paediatric history
- Physical examination including growth & development assessment of children of various age groups
- Administering oral, Intramuscular & intravenous medications
- Calculation of fluid requirements
- Prepare different strengths of I.V fluids
- Assessment of children-health, anthropometric and developmental assessment
- Apply restraints
- Administer O₂ inhalation by different methods
- Feeding of children – Katori, spoon, nasogastric methods, gastrostomy, jejunostomy etc.
- Collect specimens for common investigations
- Assist with common diagnostic procedures
- Teach mothers / parents regarding malnutrition, oral rehydration therapy, feeding, weaning, immunization schedule
- Play therapy
- Specific disease conditions
- Care for ostomies: colostomy irrigation, ureterostomy & gastrostomy
- Care of surgical wounds, Dressing, Suture removal
- Immunization
- Care of a baby in incubator / warmer
- Care of a child on ventilator
- Endotracheal suction
- Chest physiotherapy
• Total parenteral nutrition
• Administering fluids with infusion pump
• Phototherapy
• Monitoring of babies
• Cardio Pulmonary resuscitation

METHODS OF TEACHING

• Discussion
• Demonstration
• Case discussion
• Clinical teaching
• Nursing rounds

METHODS OF EVALUATION

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REFERENCES

MENTAL HEALTH NURSING

Placement: III Year B.Sc Nursing

Allotted Hours:
Theory : 90 Hrs
Practical : 315 Hrs

Time Allotment:

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COURSE DESCRIPTION

This course is designed for developing an understanding of the concepts of and approaches to mental health, identification, prevention and nursing management of common mental health problems with special emphasis on therapeutic interventions for individuals, family & community.

BEHAVIORAL OBJECTIVES

At the end of the course the student will:

- Describe the concepts of normal and abnormal behaviour, mental health and mental illness.
- Identify the principles and concepts of mental health nursing.
- Identify nurse’s role in the interdisciplinary mental health team.
- Develop therapeutic communication skills essential for therapeutic relationship with clients and their families.
- Explain various therapies used in the treatment of mentally ill clients and identify the role of nurse in these therapies.
- Describe the etiology, psychopathology and clinical manifestations of mental and behavioral disorders.
- Demonstrate skill in assessing the needs and problems of mentally ill clients and their families and providing comprehensive mental health care to them following nursing process approach.
- Apply the knowledge and concepts in planning and providing therapeutic milieu for the clients.
- Demonstrates skills in providing care in psychiatric emergencies.
- Discuss the role of mental health nurse in the prevention of mental illness and promotion of mental health.
- Demonstrate desirable attitude towards mentally ill and mental health nursing upholding the legal and ethical standards of mental health nursing.
UNIT I: - INTRODUCTION (7Hrs)

Nurse Specialist (5Hrs)
- Concept of Mental Health - Definition, criteria, contributing factors - review
- Defence mechanisms - review
- Personality development - Psychoanalytic theory, Psychosocial theory, Behavioral theory, Interpersonal theory, Humanistic theory
- Concept of normal and abnormal behaviour
- Concept of mental illness
- History and evolution of mental health services, treatments and nursing practices
- Nature and scope of mental health nursing
- Mental health team

Specialist – Psychiatrist (2Hrs)
- Classifications of mental disorders – ICD & DSM
- Psychopathology of mental disorders- review of structure and function of brain, limbic system, brain & behavior, abnormal neuronal transmission
- Etiology of mental illnesses - bio-psycho-social factors of mental & behavioural disorders,
- Symptomatology of mental disorders.
- Prevalence of mental & behavioral disorders
- Current trends in psychiatry

UNIT II : - PRINCIPLES AND CONCEPTS OF MENTAL HEALTH NURSING (7Hrs)

Nurse Specialist (7Hrs)
- Mental Health Nursing – Definition, Terminologies used
- Principles of mental health nursing
- Current trends and future challenges
- Standards of mental health nursing – Standards of care and professional practice
- Conceptual models and the role of nurse – Existential model, Psychoanalytical model, Behavioural model, Interpersonal model.
- Roles and functions of mental health nurse at different settings at various levels of nursing practice – basic level, advanced level.
- Qualities of a mental health nurse.

UNIT III: - NURSING PROCESS IN MENTAL HEALTH NURSING (6Hrs)

Specialist - Psychiatrist (2Hrs)
- Assessment of a psychiatric patient-Psychiatric History collection, Mental Status Examination (MSE), Neurological assessment, Mini mental status examination,
- Investigations – related blood chemistry, EEG, CT scan, MRI scan

Specialist - Clinical psychologist (1hr)
- Brief orientation to psychological tests, personality tests and rating scales.
UNIT IV: THERAPEUTIC COMMUNICATION AND NURSE–PATIENT RELATIONSHIP
(4Hrs)

Nurse Specialist (4 Hrs)

- Therapeutic communication–Definition, importance, techniques, characteristics
- Nontherapeutic responses
- Process recording
- Therapeutic nurse – patient relationship – definition, phases, tasks of nurse
- Review of technique of IPR – Johari window
- Therapeutic impasses and its interventions
- Ethical aspects in nurse – patient relationship

UNIT V: TREATMENT MODALITIES AND THERAPIES USED IN MENTAL DISORDERS & NURSES’ ROLE
(7Hrs)

Specialist - Psychiatrist (1Hr)

- Psychopharmacology – Classification of psychotropic medications
- Classification, mechanism of action, indications & side effects of antipsychotics, antidepressants, mood stabilizers, anti anxiety drugs, disulfiram & miscellaneous drugs used in the treatment of mental illnesses
- Electro convulsive therapy (ECT)

Specialist - Clinical psychologist (1Hr)

- Psycho-social therapies -Psycho therapy, Group therapy, Behaviour therapy, Therapeutic community and Milieu therapy, Activity therapies-Occupational therapy, Art therapy, Music therapy, Dance and movement therapy, Psychodrama. Family & Marital therapy, Other alternative therapies

Nurse Specialist (5 Hrs)

- Nurses’ role – In administration of psychopharmacological agents- antipsychotics, antidepressants, mood stabilizers, anti anxiety drugs, disulfiram & miscellaneous drugs.
- Geriatric considerations
- Nursing management of patients undergoing ECT, Geriatric considerations
- Nurses role in therapeutic milieu management.
- Nurses role in other psychosocial therapies and alternative therapies.
UNIT VI: **NURSING MANAGEMENT OF MENTAL AND BEHAVIOURAL DISORDERS**

(46Hrs)

A. **Organic Mental Disorders (3Hrs)**

**Specialist - Psychiatrist (1Hr)**

- Classification of organic mental disorders: ICD
- Delirium – definition, causes, clinical manifestations, diagnosis and management
- Dementia - definition, causes, clinical manifestations, diagnosis, differential diagnosis (Parkinson’s and Alzheimer’s) and management
- Amnestic Syndrome

**Nurse Specialist (2 Hrs)**

- Nursing assessment- history, physical, mental and neurological assessment of clients with organic mental disorders.
- Nursing management of clients with delirium, dementia, amnesic syndrome
- Geriatric considerations
- Homecare and rehabilitation

B. **Alcohol and other substance use disorders (5Hrs)**

**Specialist - Psychiatrist (2Hrs)**

- Commonly abused substances classification, forms, routes, action, intoxication, withdrawal and management- Alcohol use disorders, Opioid use disorders, Cannabis use disorders, Amphetamines use disorders, Sedatives & hypnotics use disorders, Nicotine use disorders.
- Etiology of dependence

**Specialist - Psychiatric social worker (1Hr)**

- Group therapy, motivation enhancement therapy and relapse prevention strategies for persons with substance use disorders.
- Self help groups - Alcoholic anonymous, Al – anon, Al –Ateen
- Concept of codependence, Family interventions

**Nurse Specialist**

- Nursing Management of clients with various substance use disorders in different states - acute intoxication, withdrawal state, dependence syndrome
- Nurses’ role in de- toxification, motivation enhancement therapy, ant-abuse therapy & group therapy
- Follow up and home care and rehabilitation

C. **Schizophrenia, Schizotypal & Delusional disorders (6Hrs)**

**Specialist (1 Hr)**

- Classification- ICD
- Schizophrenia - clinical features, clinical types, etiology, course & outcome diagnosis and management – pharmacological & psychosocial management.
- Persistent delusional disorders
• Acute Psychosis
• Schizo affective disorders – types and treatment (psychiatrist -1 Hr)

Nurse Specialist (5 Hrs)
• Nursing Management of patients with abnormal behaviors - delusions, hallucinations, withdrawn behaviour, excited, aggressive & violent behaviour, hyperactivity, suicidal behaviour, psychomotor retardation, stupor.
• Nursing Management of clients with schizophrenia and delusional disorders
• Nurse’s role in rehabilitation of chronic schizophrenic patients.
• Special considerations- pregnancy, lactation, geriatric population

D. Mood disorders (5Hrs)

Specialist (2Hrs)
• Etiology and classification of mood disorders,
• Mania – clinical features, management
• Depression – clinical features, management
• Bi-polar mood disorder-, clinical features and treatment
• Recurrent depressive disorder – clinical features and treatment
• Dysthymia – clinical features and treatment
• Neurotic depression - clinical features and treatment (Psychiatrist - 2 Hrs)

Nurse Specialist (3 Hrs)
• Treatment modalities of mood disorders and nurse’s role.
• Nursing assessment and nursing management of patients with mania, depression, bipolar disorder, recurrent depressive disorder, dysthymia, neurotic depression
• Special considerations - pregnancy and lactation, geriatric consideration

E. Neurotic Stress – related and somatoform disorders (8Hrs)

Specialist - Psychiatrist (2Hrs)
• Classification, etiology, psychopathology, clinical features, diagnosis and treatment of Anxiety disorders, Phobic disorders, Obsessive compulsive disorders, Dissociative (conversion) disorders, Somatoform disorders, Reaction to stress & adjustment disorders, Acute stress reaction, Post traumatic stress disorder, Adjustment disorders

Specialist - Clinical Psychologist (1 Hr)
• Behavioral techniques used in the treatment of neurotic disorders,
• Stress management

Nurse Specialist (5Hrs)
• Stress – Stress adaptation model: stress and stressor, coping resources and mechanisms, nurses’ role in stress management.
• Grief – Theories of grieving process
• Care of grieving clients, coping with loss, principles and techniques of counseling
• Nursing Management of clients with Anxiety disorders, Phobia, Obsessive compulsive disorder, Dissociative disorders, Somatoform disorders, Stress reaction and adjustment disorders
• Geriatric considerations

F. Disorders of adult personality and behaviour (6Hrs)

Specialist - Psychiatrist (3Hrs)

• Etiology, classification, clinical manifestation, diagnosis and treatment of specific personality disorders – Paranoid, Schizoid, Schizotypal, Antisocial, Hysterical, Narcistic, Anankastic, Anxious avoidant, Dependent and Passive – aggressive personality disorders
• Etiology, clinical manifestation, diagnosis and treatment of sexual disorders-Gender identity disorders, Paraphilias, Sexual dysfunctions, Disorders of sexual development and maturation.

Nurse Specialist (3 Hrs)

• Nursing management of clients with personality disorders
• Nursing management of clients with sexual disorders

G. Disorders related to psychological disturbances & physiological factors (3hrs)

Specialist - Psychiatrist(1hr)

• Etiology, Clinical Manifestation, Diagnosis and Treatment of Eating disorders - Anorexia nervosa, Bulimia nervosa, Obesity, Psychogenic vomiting
• Etiology, Clinical Manifestation, Diagnosis and Treatment of Sleep disorders
• Post partum psychiatric disorders

Nurse Specialist (2 Hrs)

• Nursing management of clients with Eating disorders, Sleep disorders, Post - partum psychosis

H. Mental Retardation (M) (5Hrs)

Specialist - Psychiatrist(1Hr)

• Mental retardation – definition, etiology, types - Mild, Moderate, Severe, Profound, management, and prevention

Specialist - Clinical Psychologist (1 Hr)

• Review of normal child development.
• Psychological tests to detect Mental retardation
• Behavioral techniques used in mentally handicapped children.
• Parental counseling and education

Specialist –Psychiatric social worker(1 Hr)

• Rehabilitation of the mentally handicapped
Nurse Specialist (2 Hrs)

- Nursing management of clients with mental retardation
- Nurse’s role in the prevention of mental retardation
- Nurse’s role in the rehabilitation of mentally retarded

I. Child and Adolescent Psychiatric disorders (5hrs)
Specialist - Psychiatrist(1Hr)

- Etiology, Classification, Clinical manifestation, Diagnosis and treatment of
  - Developmental disorders – Pervasive developmental disorders and specific developmental disorders
  - Behavioral and emotional disorders - Hyper kinetic disorders, Conduct disorders, separation anxiety disorders, enuresis and encopresis, tic disorders

Specialist - Clinical Psychologist (1Hr)

- Child guidance clinic and parental counseling, play therapy and behavioral techniques

Nurse Specialist (3Hrs)

- Nursing management of children with pervasive developmental disorders (Autism), specific developmental disorders, Hyper kinetic disorders, Conduct disorder, Separation anxiety disorder, Enuresis & Encopresis
- Special therapies used in child psychiatry and nurse’s role
- Mental health promotion with children and adolescents
- Nurse’s role in child psychiatry wards and child guidance clinic, parental education and counseling.

UNIT VII: -NURSES ROLE IN PSYCHIATRIC EMERGENCIES AND CRISIS INTERVENTION

Specialist Psychiatrist(1Hr)

- Etiology, clinical manifestations and emergency management of
  - Crisis
  - Family Violence
  - Sexual Assault
  - Suicide
    - Excited, aggressive, violent behaviors,
  - Side effects of psychotropic medications,
  - Pseudo – seizures,
  - Hyperventilation syndrome
  - ICU syndrome, Drug and alcohol disorders

Nurse Specialist (3 Hrs)

- Nurses role in crisis intervention, principles and techniques
- Nurses role in psychiatric emergencies – suicide, excited, aggressive, violent behaviors, side effects of psychotropic medications, pseudo seizures, hipper ventilation syndrome and ICU syndrome
- Nurse’s role in prevention of suicide in hospital and community
• Psycho social needs of the medically ill

UNIT VIII: - NURSE’S ROLE IN PSYCHOSOCIAL REHABILITATION (3Hrs)

Specialist - Psychiatric social worker (1Hr)
• Psychosocial Rehabilitation, types, principles
• Community –based rehabilitation of chronic psychiatric patients, patients with substance use disorders
• Self help groups

Nurse Specialist (2Hrs)
• Nurses’ role in community based psychosocial rehabilitation of chronic psychiatric patients at various settings- Day care centre, Half way homes, Quarter way homes, Night hospitals, Alternative housing/ foster care services, Residential care center
• Relapse prevention
• Home care services

UNIT IX: - COMMUNITY MENTAL HEALTH NURSING (3Hrs)

Specialist - Psychiatrist(1Hr)
• Community Psychiatry - Approaches,
• Model of preventive psychiatry, levels of prevention
• National Mental Health policy
• National Mental Health programme

Nurse Specialist (2 Hrs)
• Mental health nursing in community setting
• Roles and functions of community psychiatric nurse at various levels
• Principles of prevention, Nurses’ role in the prevention of mental illness at primary, secondary and tertiary levels
• Mental health agencies – government, voluntary, national & international agencies.
• Mental health nursing with special populations - children and adolescents, Victims of abuse, Domestic violence, Handicapped, Elderly clients, Clients with HIV/AIDS

UNIT X: - LEGAL AND ETHICAL ISSUES IN MENTAL HEALTH NURSING (3Hrs)

Specialist - Psychiatrist (1 Hr)
• Indian Lunacy Act – 1912
• Mental Health Act- 1987 - sections, articles and their implications
• Acts related to narcotic & psychotropic substances
• Forensic psychiatry
• Admission & Discharge of mentally ill patients
Nurse Specialist (2Hrs)

- Nurses’ role in admission and discharge procedures of mentally ill clients.
- Rights of a mentally ill person, Rights of a hospitalized mentally ill person.
- Legal aspects applied to psychiatric settings and legal responsibilities of mental health nurse

METHODS OF TEACHING

- Lecture
- Group discussion
- Role play
- Group Work
- Quiz Competition

METHODS OF EVALUATION

- Written Examination
- Quiz Competition
- Topic presentation

REFERENCES

Mental Health Nursing Practical

Placement: III Year B.Sc Nursing

Allotted Hours: 315 Hrs

AIM

On completion of the clinical experience, students will develop knowledge and beginning skill in identifying mental health needs, plan and provide comprehensive mental health care to individuals and their families and participate in preventive, promotive and curative mental health services with a desirable attitude.

Behavioral Objectives

On completion of the clinical experience, the students will

- Identify the role of nurse in interdisciplinary mental health team
- Develop therapeutic communication skills and maintain therapeutic relationship with clients and families
- Demonstrate skill in assessment of patients with mental health problems and identify their needs
- Demonstrate skill in providing comprehensive mental health care to patients with mental health problems based on nursing process approach
- Observe and assist in therapies – psycho-pharmacotherapy, ECT & other psychosocial therapies
- Plan and provide therapeutic milieu for clients with mental health problems based on scientific principles
- Counsel and educate patient and family
- Conduct incidental and planned health education programmes to families and community on mental health issues
- Demonstrate skill in providing care in psychiatric emergencies

The clinical experience in mental health nursing is provided through clinical posting and guided observation in the following selected areas

Clinical Posting Areas

In-patient wards, Out patient department, Occupational therapy units and community extension clinic of a Mental health centre

Guided – Observation areas

- Ideal mental health center and community mental health center
- Rehabilitation center for patients with Alzheimer’s & Related Disorders.
- De-addiction and rehabilitation center
- Rehabilitation center for patients with chronic mental illness
- Special school for mentally retarded
- Orphanage – SOS village / Janaseva Sisubhavan
- Rehabilitation center for children with physical & psychological disabilities
- Old age home
The student should develop beginning skills in the following activities.

- History collection
- Mental Status Examination
- Neurological Assessment
- Process recording
- Therapeutic communications skills
- Preparation of nursing care plans for patients with various abnormal behaviours and mental illnesses
- Administration of psychotropic medications
- Monitoring of side effects
- Assist in Electro Convulsive Therapy
- Conducting therapeutic groups
- Participating in psycho-social therapies and Providing therapeutic milieu for patients
- Detoxification & anti-abuse therapy
- Group therapy for abstinent alcoholics
- Conducting relaxation therapies
- Assessment of intelligence
- Parental counseling and education of children with physical and psychological problems
- Emergency nursing management of clients with suicidal aggressive and violent behaviors and side effects of psychotropic medications
- Admission and discharge of mentally ill patients.

METHODS OF TEACHING

- Demonstration
- Case presentation and Discussion
- Bedside clinic
- Care study
- Observation

ASSIGNMENTS FOR EVALUATION DURING CLINICAL EXPERIENCE

- Psychiatric nursing history collection and Mental Status Examination (2)
- Process Recording (2)
- Psychiatric Nursing care study Major mental illness (1)
  Minor mental illness (1)
- Clinical presentation (1)
- Health education (Planned) (1)
- Psychotropic drug file
- Submission / presentation of observation visits
### METHODS OF EVALUATION

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### REFERENCES

NURSING RESEARCH AND STATISTICS

Placement: III Year B.Sc Nursing

Allotted Hours
Theory
Research: 45 hrs
Practical: 90 hrs
Statistics: 15Hrs

COURSE DESCRIPTION

This course is designed to enable students to develop an understanding of basic concepts of research, research process and statistics. It is further, structured to conduct or participate need based research studies in various settings and utilize the research findings to provide quality-nursing care. The hours of practical will be utilized for conducting individual/group research project.

BEHAVIORAL OBJECTIVES

On completion of the course the student will be able to

- Appreciate the importance of research in nursing.
- Describe the concept of research, terms, needs and areas of research in nursing.
- Discuss the ethical aspects involved in carrying out a research.
- State the research problems and objectives.
- Review the related literature.
- Describe the research approaches and designs.
- Explain the sampling process.
- Describe the methods of data collection.
- Analyze, interpret and summarize the research data.
- Communicate and utilize research findings.
- Explain the use of statistics, scale of measurement and graphical presentation of data.
- Describe the measures of central tendency, and variability and methods of correlation.
- Explain the statistical packages and its application.

NURSING RESEARCH

UNIT I:- INTRODUCTION TO RESEARCH (8Hrs)

- Need and scope of nursing research
- Definition – research and nursing research
- Historical development of nursing research in India; research terminology; ethical consideration;
- Characteristics of a good research; steps of research-overview

UNIT II:- RESEARCH PROBLEM/QUESTION (4Hrs)

- Research problem: sources, identification of problem area, statement, criteria of a good research problem
• Objectives: formulation and statement

UNIT III:- REVIEW OF LITERATURE (5Hrs)
• Location, sources, online search, CINHAL, COCHRANE, purposes, method of review.

UNIT IV:- RESEARCH APPROACHES AND DESIGNS (8Hrs)
• Historical, survey, experimental, non-experimental and quasi experimental; quantitative and qualitative.

UNIT V:- SAMPLING AND DATA COLLECTION (10Hrs)
• Definition of terms: sample, sampling, population, element etc;
• Sampling criteria; Factors influencing sampling process, types of sampling technique; Data- why, what, from whom, when and where.
• Data collection methods and instruments: methods of data collection, questioning and interviewing, observations, record analysis, and measurement; types of instruments; validity and reliability of the instrument; pilot study and data collection procedures.

UNIT VI:- ANALYSES, INTERPRETATION AND SUMMARIZATION OF RESEARCH DATA (5Hrs)
• Analysis of data: organization, classification, tabulation and analysis of data, discussion and interpretation

UNIT VII:- COMMUNICATION AND UTILIZATION OF RESEARCH FINDING (5Hrs)
• Writing research report: format, style; footnote and bibliography
• Communication of research findings: verbal reports, writing research reports, writing scientific article or paper
• Critical review of published research; utilization of research finding

STATISTICS

UNIT VIII:- INTRODUCTION (1Hr)
• Definition, functions and limitations of statistics; scales of measurement.

UNIT IX:- FREQUENCY DISTRIBUTION, DIAGRAMMATIC AND GRAPHICAL PRESENTATION OF DATA (5Hrs)
• Raw data, the array, class interval, class limits, and class marks.
• Histogram, frequency polygons, curves; one dimensional and two dimensional Diagrams; Normal probability curve.

UNIT X:- MEASURES OF CENTRAL TENDENCY AND DISPERSION (7Hrs)
• The arithmetic mean; the median and mode; quartiles, deciles and percentiles.
• The range; the mean deviation and average deviation; the variance;
UNIT XI: TESTING OF HYPOTHESES  
- Introduction to ‘t’ test and Chi-square

UNIT XII: USE OF COMPUTER IN STATISTICS  
- Using computer for data analysis using statistical package

METHODS OF TEACHING
- Lecture cum discussion
- Computation of statistical problems
- Individual and group class room activities:
  - Statement and critiquing the problem, objectives and hypotheses
  - Critiquing a nursing research report

METHODS OF EVALUATION

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<td>Preparation of sample data collection tool</td>
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NURSING RESEARCH-PRACTICAL

Placement: - III Year B.Sc Nursing

Allotted Hours: 90 hrs

AIM

This course is aimed at familiarizing the students with the methodology of conducting a research thereby able to conduct a research independently.

BEHAVIOURAL OBJECTIVES

On completion of the course, the students will be able to

- Identify the problem areas.
- State research problems, objectives and hypotheses.
- Identify the variables.
- Prepare review of literature.
- Prepare sample data collection tools
- Conduct a group research project using the steps of data collection.
- Analyze the data collected using statistical packages
- Prepare a project report and submit for evaluation.
- Critically analyze other research studies conducted in the fields of nursing

METHODS OF TEACHING

- Group discussion
- Group presentations

METHOD OF EVALUATION

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<td>Classroom presentations (various stages of project work)</td>
<td>10</td>
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<tr>
<td>Evaluation of project report</td>
<td>70</td>
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</table>

*NB: - The marks obtained for the research project is added to the internal assessment of theory part of Nursing Research.

REFERENCES


OBSTETRICAL AND GYNAECOLOGICAL NURSING

OBSTETRICAL NURSING

Placement: IV year B.Sc Nursing

COURSE DESCRIPTION

This course is designed for students to appreciate the concepts and principles of obstetrical nursing. It helps them to acquire knowledge and develop beginning skills in rendering nursing care to normal and high-risk mothers during antenatal, natal and postnatal periods in the hospital and community settings. It also helps to develop skill in managing normal and high-risk neonates and participate in family welfare programmes.

BEHAVIOURAL OBJECTIVES

On completion of the course the students will be able to:

- Recognize concepts, trends and issues in obstetrical nursing
- Review the anatomy and physiology of the female reproductive system and fetal development.
- Explain maternal, prenatal and genetic influences on development of defects and diseases
- Describe the anatomical, physiological and psychosocial changes taking place during pregnancy, labour and puerperium
- Render comprehensive care to mother and child during antenatal, natal and postnatal periods skillfully.
- Identify and manage /assist in the management of abnormalities and emergencies of pregnancy, labour, and puerperium
- Describe the assessment and management of normal and high risk neonates
- Describe indications, dosage, action, side effects and nurse’s responsibilities in the administration of drugs used for mothers and neonates.
- Describe the importance of family welfare programme, methods of contraception and role of nurse in family welfare programme
- Utilise research findings in the clinical practice.

UNIT I : - INTRODUCTION TO MATERNITY NURSING (4Hrs)

Nurse Specialist (4Hrs)

- Introduction to the concepts of midwifery and obstetrical nursing
- Trends in maternity nursing
  - Historical perspectives and current trends
  - Legal & ethical aspects
  - Role of nurse in maternity care
  - Pre conception care and preparing for parenthood
- National policy and legislation in relation to maternal health and welfare
• Maternal morbidity, mortality and fertility rates
• Perinatal mortality and morbidity rates
• Essential obstetrical care

UNIT II: REVIEW OF ANATOMY AND PHYSIOLOGY OF FEMALE REPRODUCTIVE SYSTEM AND FOETAL DEVELOPMENT (6Hrs)

Nurse Specialist (6Hrs)

• Review of anatomy and physiology of female reproductive system
  - Female pelvis
  - Female organs of reproduction
  - Pelvic floor
  - Menstrual cycle
  - Human sexuality
• Foetal Development
  - Foetal development
  - Placental development
  - Foetal circulation
• Foetal skull

UNIT III: MATERNAL, PRENATAL AND GENETIC INFLUENCES ON DEVELOPMENT OF DEFECTS AND DISEASES (3Hrs)

Nurse Specialist (3Hrs)

• Review of genetics
• Conditions affecting mother
  - Genetic conditions and infections
  - Consanguinity
  - Prenatal nutrition and food allergies
  - Maternal age
  - Maternal drug therapy
  - Prenatal testing and diagnosis
  - Effect of radiation, drugs and chemicals
  - Infertility
  - Neural tube defects and role of folic acid

• Genetic counseling- Prevention early detection and management

UNIT IV: ASSESSMENT AND MANAGEMENT OF ANTENATAL PERIOD (10 Hrs)

Specialist (3Hrs)

• Endocrinology in relation to reproduction
• Immunology in obstetrics
• Antenatal assessment of fetal well-being
  - Clinical
  - Biochemical-
Maternal Serum Alpha Feto Protein, triple test, AchE, inhibin A
Prenatal genetic diagnosis
Amniocentesis and amniotic fluid analysis
Chorionic villous sampling
Cordocentesis
- Biophysical
  - Cardiff count
  - Biophysical profile
  - Contraction Stress Test, Non Stress Test
  - Ultrasonography and Doppler
  - Vibroacoustic stimulation test

Nurse Specialist (7hrs)

- Preconception care
- Normal pregnancy
- Physiological changes during pregnancy
- Discomforts of pregnancy
- Diagnosis of pregnancy
  - Signs and Symptoms
  - Differential diagnosis
  - Confirmatory tests
- Antenatal care
  - Objectives of antenatal care
  - Assessment: History and physical examination, Obstetrical examination, Signs of previous childbirth
  - Special diagnostic test
- Antenatal preparation and care
  - Antenatal counseling
  - Antenatal diet
  - Antenatal exercises
  - Education for childbirth
  - Preparation for safe confinement
  - Screening for risk factors

- Psychological and cultural aspects of pregnancy
  - Adjustment to pregnancy
  - Unwed mother
  - Single parent
  - Teenage pregnancy

UNIT V: - ASSESSMENT AND MANAGEMENT OF INTRANATAL PERIOD (10 Hrs)

Specialist (1Hr)

- Intrapartum foetal monitoring
  - Clinical
  - Biophysical: Ultrasonography continuous electronic foetal monitoring, Contraction stress test
  - Biochemical: foetal scalp blood sampling
- Foetal distress and management
Nurse Specialist (9Hrs)

- Physiology and Mechanism of labour
- Management of labour-1\textsuperscript{st} stage
  - Signs and symptoms of onset of labour, normal and abnormal, duration
  - Preparation for labour; woman, environment, articles
  - Assessment and observation of women in labour; partogram, maternal and foetal monitoring
  - Active management of labour
  - Pain relief and comfort during labour and birth
- Management of labour-2\textsuperscript{nd} stage
  - Signs and symptoms, Duration
  - Conduct of delivery
  - Episiotomy
  - Immediate assessment and care of the newborn
  - Neonatal resuscitation
- Management of labour-3\textsuperscript{rd} stage
  - Signs and symptoms; normal and abnormal, Duration
  - Method of placental expulsion
  - Management
  - Examination of placenta
  - Examination of perineum
  - Management of breast feeding-early initiation
- Management of labour-4\textsuperscript{th} stage
- Maintaining records and reports
- Organization and management of labour room

UNITVI: - ASSESSMENT AND MANAGEMENT OF PUERPERIUM (5Hrs)

Nurse specialist (5Hrs)

- Normal puerperium, physiology and duration
- Postnatal assessment and management
  - Promoting physical and emotional well being
  - Lactation management
  - Management of minor ailments
  - Postnatal exercises
- Family dynamics after childbirth
- Family welfare
- Follow up
- Maintaining records and reports

UNIT VII : - ASSESSMENT AND MANAGEMENT OF NEW BORN (4Hrs)

Nurse specialist (4Hrs)

- Normal neonate
  - Physiological adaptation
  - Initial and daily assessment
  - Essential newborn care
- Breast feeding
- Immunization
- Minor disorders and management
• Maintaining records and reports

UNIT VIII: **HIGH RISK PREGNANCY** (15Hrs)

**Specialist (6Hrs)**

• Disorders in pregnancy
  - Hyperemesis gravidarum
  - Bleeding in early pregnancy: Abortion, ectopic pregnancy, Vesicular mole
  - Antepartum hemorrhage: Placenta praevia, abruptio placenta

• Diseases complicating pregnancy
  - Medical and surgical conditions: heart disease, asthma, thyroid disorders, epilepsy, jaundice, TB
  - Infection: Reproductive Tract Infection, Sexually transmitted diseases, Urinary tract infection, HIV, TORCH
  - Gynaecological disorders: carcinoma cervix, fibroid, ovarian tumor, retroversion, genital prolapse
  - Hypertensive disorders of pregnancy: Pregnancy Induced Hypertension, toxemia
  - Diabetes complicating pregnancy
  - Hydramnios
  - Rh, ABO incompatibility
  - Mental disorders
  - Anemia
  - Coagulation disorders

• Multiple pregnancy
• Abnormalities of placenta and cord
• Intrauterine growth retardation

**Nurse Specialist (9 hrs)**

Nursing management of high risk mothers

• Disorders in pregnancy
  - Hyperemesis gravidarum
  - Bleeding in early pregnancy: Abortion, ectopic pregnancy, Vesicular mole
  - Antepartum hemorrhage: Placenta praevia, abruptio placenta

• Diseases complicating pregnancy
  - Medical and surgical conditions
  - Infection: Reproductive Tract Infection, Sexually transmitted diseases, Urinary tract infection HIV, TORCH
  - Gynaecological disorders
  - Pregnancy induced hypertension and toxemia of pregnancy
  - Diabetes
  - Hydramnios
  - Rh, ABO incompatibility
  - Mental disorders
  - Anemia
  - Coagulation disorders

• Multiple pregnancy
• Abnormalities of placenta and cord
• Intrauterine growth retardation
- Maintenance of records and reports

UNIT IX: - ABNORMALITIES OF LABOUR  
(15Hrs)

Specialist (7Hrs)

- Disorders in labour
  - Cephalo Pelvic Disproportion and contracted pelvis
  - Malpositions and malpresentations: occipito posterior, breech, brow, face, shoulder, unstable lie, compound presentations
  - Premature labour, PROM, post maturity, IUD
  - Disorders of uterine action
  - Precipitate labour
  - Prolonged labour
  - Complications of third stage: PPH, retained placenta, placenta accreta, inversion of uterus
  - Injuries to birth canal
- Obstetrical emergencies and their management
  - Cord presentation, Cord prolapse, Vasa praevia
  - Amniotic fluid embolism
  - Rupture of uterus
  - Shoulder dystocia
  - Shock in obstetrics
- Obstetrical procedures and operations
  - Induction of labour
  - Forceps, Vacuum, Version
  - Manual removal of placenta
  - Caesarean section
  - Destructive operations

Nurse Specialist (8Hrs)

- Nursing management of disorders in labour
- Nursing management of obstetrical emergencies
- Nursing management of women undergoing obstetrical operations and procedures

UNIT X: - ABNORMALITIES OF Puerperium  
(4Hrs)

Specialist (1Hr)

- Puerperal infections
- Postpartum hemorrhage
- Sub involution
- Thromboembolic disorders

Nurse Specialist (3Hrs)

- Nursing management of mothers with complications of puerperium
- Psychologic complications of puerperium and its management
  - Post partum blues
  - Postpartum depression
  - Postpartum psychosis
- Maintenance of records and reports
UNIT XI: - HIGH RISK NEW BORN

Nurse Specialist (5Hrs)

- Nursing management of
  - Low birth weight babies: SGA and preterm
  - Asphyxia neonatorum, RDS
  - Birth injuries
  - Congenital malformations
  - Jaundice
  - Hypoglycemia
  - Convulsions
  - Infections
  - Hemolytic diseases of newborn.
- Organization and management of neonatal intensive care units
- Admission of neonates in the neonatal intensive care units-protocols
- Infection control in neonatal intensive care units
- Maintenance of records and reports

UNIT XII: - PHARMACOTHERAPEUTICS IN OBSTETRICS

Specialist (2Hrs)

- Effects of drugs on pregnancy, labour and puerperium
- Analgesics and anesthetics in obstetrics

Nurse Specialist (2Hrs)

- Nursing responsibility in the administration of drugs in obstetrics
  - Oxytocics
  - Antihypertensives
  - Diuretics
  - Tocolytic agents
  - Anticonvulsants
  - Analgesics
  - Anesthetics

UNIT XIII: - FAMILY WELFARE PROGRAMME

Nurse Specialist (5Hrs)

Review of:

- Population trends and problems in India
- Concepts, aims, importance and history of family welfare programme
- National population dynamics, policy and education
- National family welfare programme; RCH, ICDS, MCH, safe motherhood, NRHM
- Organization and administration; at national, state, district, block and village levels.
- Methods of contraception; spacing, temporary and permanent,emergency contraception
- Counseling for family welfare
- Latest trends in contraception
- Maintenance of vital statistics
- Role of national, international and voluntary organizations
• Role of nurse in family welfare programme
• Training/supervision of/collaboration with other functionaries in community like ANM’s, LHV’s, Anganwadi workers, TBA’s (Traditional birth attendant- Dai)

METHODS OF TEACHING

• Lecture
• Discussion
• Seminars
• Assignments
• Demonstration

METHODS OF EVALUATION

1. Sessional Exams -30%
2. Model Exam -25%
3. Evaluation of class presentation (1) -20%
4. Evaluation of assignments (2) -25%
OBSTETRICAL NURSING PRACTICAL

Placement: IV year  Time allotted: 480 hrs

AIM

Aim of the clinical experience is to enable the students to acquire knowledge regarding changes taking place during pregnancy, develop skill in assessing, planning, implementing and evaluating comprehensive care given to the mother and child during antenatal, intranatal and postnatal periods with positive attitude.

BEHAVIOURAL OBJECTIVES

Students will be able to

- Perform assessment of pregnant women
- Provide comprehensive care to pregnant women
- Counsel mother and family regarding parent hood
- Perform assessment of women in labour
- Provide care to women in labour
- Conduct normal deliveries
- Perform episiotomy and suture it
- Resuscitate newborns
- Assist with caesarean sections, mtp and other surgical procedures
- Perform assessment of post natal mother and baby
- Provide comprehensive care to post natal mother and baby
- Perform highrisk screening
- Provide care to women at risk during antenatal, intranatal and postnatal periods
- Provide nursing care to newborn at risk
- Counsel mother and family regarding family welfare services

Specific skills

- Antenatal examination
  - Antenatal history taking
  - Physical examination
  - Haemoglobin & urine testing for sugar and albumin
- Immunization of antenatal mothers and newborn
- Assessment of risk status of antenatal mothers through risk assessment
- Teaching antenatal mother regarding self and newborn care
- Maintenance of antenatal records
- Assessment of woman in labour
- Monitoring, caring and preparation of woman in labour
- Conduct normal delivery
- Newborn assessment and immediate care
- Resuscitation of newborns
- Assessment of risk status of newborn
- Perform episiotomy and suturing
- Maintenance of labour and birth records
- Arrange for and assist with caesarean section and care for woman & baby during caesarean
- Arrange for and assist with mtp and other surgical procedures
• Examination of a postnatal mother and baby
• Care of postnatal mother and baby
• Perineal care
• Assisting with breast feeding and lactation management
• Teaching postnatal mother:
  □ Mother craft
  □ Post natal care
  □ Exercise
  □ Immunization
• Feeding at risk neonates
  □ Katori, spoon, palada, tube feeding and total parenteral nutrition
• Thermal management of neonates –
  □ Kangaroo mother care, care of baby in incubator
• Perform admission of neonates to NICU
• Monitoring and care of high risk neonates
• Assisting with exchange transfusion
• Care of baby on ventilator
• Care of a baby receiving phototherapy
• Infection control protocols in the nursery
• Counseling parents of high risk neonates
• Maintenance of neonatal records
• Insertion of IUCD
• Counselling the family about family planning methods
• Arrange for and assist with family planning operations
• Maintenance of family planning records and reports

ASSIGNMENTS

1. Antenatal ward, OPD, clinic (4 weeks)
   a. Antenatal assessment (30)
   b. Health education
   c. High risk assessment
   d. Prenatal counseling
   e. Antenatal diet plan
   f. Case book recordings
   g. Care study (1)
   h. Clinical presentation (1)
   i. Drug file

2. Labour room, OT (3 weeks)
   a. Intranatal assessment and care (20)
   b. Conduct normal deliveries (20)
   c. Pervaginal examination (5)
   d. Perform and suture episiotomy (5)
   e. Resuscitate newborn (5)
   f. Assist with cesarean sections (5)
   g. Witness/assist abnormal deliveries (5)
   h. Placental examination
   i. Health education
   j. Case book recordings
   k. Plan physical lay out of labour room
   l. Drug file
   m. Instrument file
3. Postnatal ward (3 weeks)
   a. Postnatal assessment and care (20)
   b. Newborn assessment and care (20)
   c. Case presentation(1)
   d. Case study(1)
   e. Health education(1)
   f. Case book recordings
   g. Postnatal diet plan
   h. Drug file
4. Newborn Nursery (1 week)
   a. Assessment of risk newborn (2)
   b. Clinical discussion (1)
   c. Care study (1)
   d. Drug file
   e. Preparation of physical lay out of a NICU
5. Family welfare unit (1 week)
   a. IUCD insertion (5)
   b. Field visit to a major family welfare center
   c. Arrange for and assist with tubectomy, minilap operation and vasectomy (1)
   d. Counseling the couple (2)
   e. Maintenance of records and reports in the family planning unit

METHODS OF TEACHING

- Discussion
- Demonstration
- Case discussion
- Clinical teaching

METHODS OF EVALUATION

- Ongoing clinical evaluation 15%
- Assessment & Care plans 10%
- Clinical Presentation 5%
- Nursing care analysis (including OSCE) 5%
- Health education 5%
- Drug file, Instrument 5%
- Maternity record 10%
- Practical examination 20%

REFERENCES

GYNAECOLOGICAL NURSING

Placement: IV year B.Sc Nursing

Allotted Hours
Theory : 30 hrs.
Practical: 120hrs

COURSE DESCRIPTION

This course is designed to help the students acquire knowledge, develop attitude and beginning skills in the management of women with gynaecological problems and render pre and post operative care to clients undergoing major and minor gynaecological operations

BEHAVIOURAL OBJECTIVES

On completion of the course the student will:

• Develop adequate knowledge regarding gynaecological disorders and its management.
• Demonstrate beginning skill in giving comprehensive nursing care to patients with gynaecological disorders
• Provide health education to prevent gynaecological complications and improve the self care ability of individuals, families and communities with common gynaecological conditions

UNIT I :- INTRODUCTION TO GYNAECOLOGICAL NURSING (2Hrs)

Nurse specialist (2Hrs)

• Concepts and principles of gynaecological nursing
• Trends and issues
• Review of structure and function of female reproductive system
• Review of menstrual cycle
• Sexuality and reproductive health

UNIT II :- GYNAECOLOGICAL ASSESSMENT (3Hrs)

Specialist (1Hr)

• Gynaecological examinations
• Diagnostic measures
  - Smears
  - Exfoliative cytology
  - Endoscopies
  - Radiology
  - Sampling and biopsy
  - Culdocentesis
Nurse Specialist (2Hrs)

- Nursing assessment: History and physical assessment
- Preparation and assisting with gynaecological investigations
- Breast self examination
- Sexual health assessment

UNIT III: - CONGENITAL MALFORMATIONS OF FEMALE REPRODUCTIVE ORGANS

Specialist (1Hr)

- Development of genital organs
- Congenital malformation of female genital organs
- Anomalies of external genitalia
- Vagina
- Uterus
- Fallopian tubes

Nurse Specialist (1Hr)

- Nursing management of clients with congenital malformation of female genital organs

UNIT IV: - PUBERTY, MENOPAUSE AND MENSTRUAL DYSFUNCTION (5 Hrs)

Specialist (2Hrs)

- Menopause
  - Management of menopausal problems
  - Hormone therapy
- Menstrual disorders
  - Dysmenorrheoa
  - Amenorrheoa
  - Premenstrual syndrome
- Abnormal uterine bleeding
  - Menorrhagia
  - Epimenorrheoa
  - Oligomenorrheoa, hypomenorrheoa
  - Metrorrhagia
  - Amenorrhoea
  - DUB

Nurse Specialist (3Hrs)

Nursing management of

- Puberty
- Menopause
- Menstrual disorders
  - Dysmenorrheoa
- Amenorrhoea
- Premenstrual syndrome
- Abnormal uterine bleeding
  - Menorrhagia
  - Epimennorrhoea
  - Oligomenorrhoea, hypomenorrhoea
  - Metrorrhagia
  - Amenorrhoea
  - DUB

UNIT V: GENITAL INFECTIONS AND SEXUALLY TRANSMITTED DISEASES (4Hrs)

Specialist (1Hr)

- Pelvic Inflammatory disease
- Chronic pelvic infection
- Infections of genital organs
  - Vulval and Vaginal infections
  - Cervicitis
  - Endometritis
  - Salpingitis
  - Oophoritis
  - Pelvic abscess
  - Genital TB
  - STD’s: Gonorrhea, syphilis, chlamydia, herpes, HIV, genital warts

Nurse Specialist (3Hrs)

Nursing care of patients with

- Pelvic Inflammatory disease
- Chronic pelvic infection
- Infections of genital organs
  - Vulval and Vaginal infections
  - Cervicitis
  - Endometritis
  - Salpingitis
  - Oophoritis
  - Pelvic abscess
  - Genital TB
  - STD’s: Gonorrhea, syphilis, chlamydia, herpes, HIV, genital warts
UNIT VI :- MECHANICAL DISTURBANCES AND INJURIES OF FEMALE GENITAL TRACT

Specialist (1Hr)

- Uterine displacements
  - Retroversion
  - Inversion
  - Prolapse
- Genital fistulas
  - R.V.F. and V.V.F

Nurse Specialist (2Hrs)

Nursing care of patients with:

- Uterine displacements
  - Retroversion
  - Inversion
  - Prolapse
- Genital fistulas
  - R.V.F. and V.V.F
- Injuries and trauma
- Sexual violence

UNIT VII :- BENIGN AND MALIGNANT LESIONS OF THE GENITAL ORGANS

Specialist (2Hrs)

- Benign lesions of the genital organs
  - Vulva and vagina
  - Cervix
  - Uterus: Fibroids, Polyps, endometriosis
  - Ovary: infection, cyst, tumour
  - Fallopian tube: infection, cyst, tumour
- Genital malignancies
  - Vulva and vagina
  - Cervix, Uterus, Endometrium
  - Ovary
  - Endometriosis

Nurse Specialist (4Hrs)

Pre and post operative nursing care of patients with

- Benign lesions of the genital organs
  - Vulva and vagina
  - Cervix
  - Uterus: Fibroids, Polyps
  - Ovary
  - Endometriosis
- Genital malignancies
  - Vulva and vagina
  - Cervix, Uterus, Endometrium
  - Ovary
UNIT VIII: INFERTILITY (3 Hrs)

Specialist (1Hr)

- Definition
- Causes of infertility
- Management of infertility
- Current trends and issues in the management of infertility

Nurse Specialist (2Hrs)

- Psychosocial aspects of infertility
- Adoption
- Nursing management of clients with infertility

UNIT IX: OPERATIVE GYNAECOLOGY AND PHARMACOTHERAPEUTICS (2Hrs)

Specialist (1Hr)

- Common gynaecological operations
- Drugs used in the treatment of gynaecological disorders.
- Special therapies

Nurse Specialist (1Hr)

- Preparation and assisting with gynaecological operations, procedures and instruments.
GYNAECOLOGICAL NURSING PRACTICAL

Placement: IV year B.Sc Nursing

Time allotted: 120hrs

AIM

On completion of the clinical experience students will gain adequate knowledge regarding gynaecological conditions, develop skill in assessing, planning implementing and evaluating comprehensive care to mothers suffering from gynaecological conditions with positive attitude.

Specific Skills

- Perform breast examination
- Perform gynecological examination
- Perform sexual health assessment
- Teaching breast self examination
- Assist with PAP smear collection
- Assist in procedures involved in infertility treatment
- Administer drugs and medications
- Counsel patients and families regarding gynecological conditions
- Prepare and assist in major gynecological procedures and surgeries
- Provide perioperative nursing care to gynecological clients.

METHODS OF TEACHING

1. Discussion
2. Demonstration
3. Case discussion
4. Clinical Teaching

ASSIGNMENTS TO BE COMPLETED

1. Gynecology ward including OPD (3 Weeks)
   a. Gynecologic assessment and care
   b. Assist in diagnostic and therapeutic procedures
   c. Care study (1)
   d. Clinical presentation (1)
   e. Health education
2. Operation theatre
   a. Assist in major and minor surgeries and report of cases assisted
   b. Instrument file

METHODS OF EVALUATION

1. Ongoing clinical evaluation 10%
2. Care plans 5%
3. Clinical Presentation 5%
4. Nursing care analysis (including OSCE) 5%
REFERENCES

COMMUNITY HEALTH NURSING – II

Placement : IV year B.Sc Nursing

Allotted Hours
Theory : 105 hours
Practical : 325 hours

COURSE DESCRIPTION:
The course is designed to enable the students to provide need-based services to the individuals and families in the community. It mainly focuses on specialized roles of community health nurses in urban and rural areas. The course helps the students to develop beginning skills in administration and management of community health services with an understanding of the organization of health sector in the country.

BEHAVIORAL OBJECTIVES:
On completion of the course, the students will be able to:
• Recognize the health care delivery system in India
• Describe the importance of health care and welfare programmes in India
• Explain the health plans and policies of India
• Prepare family finance budgets for rural households
• Provide planned nursing care to individuals and families in the community
• Work in advanced roles of community health nursing practice
• Demonstrate beginning skills in management of community health nursing services
• Recognize the importance of supervision in field practice
• Educate individuals and families on topics of health

UNIT:- I HEALTH CARE DELIVERY SYSTEM (15 Hrs)

• Health care delivery system of India
  - Major components of public sector health care delivery
    □ Environmental sanitation
    □ Health education
    □ Epidemiological activities
    □ MCH and FW services
    □ School health services
    □ Occupational health services
    □ Defense services
    □ Institutional services
      * PHC and Sub centers,
      * CHC and Dispensaries
      * Hospitals and others
    □ Health insurance schemes
      * ESI and CGHS
  • Private sector
  • Indigenous / Alternate systems of health care
    - Indian systems of medicine
    - Homeopathy
- Alternate systems of health care
- Others

• Voluntary agencies
  - National agencies
    - Indian Red Cross Society,
    - Family Planning Association of India,
    - Tuberculosis Association of India,
    - Hindu Kusht Nivaran Sangh,
    - Central Social Welfare Board,
    - All India Womens’ Conference,
    - Blinds’ Association of India
  - International agencies

• National health programmes

  (Detailed Discussion in Unit -II)

UNIT:- II  NATIONAL HEALTH PROGRAMMES  (15Hrs)

• Revised National Tuberculosis Control Programme
• National Anti Malaria Programme
• National Filaria Control Programme
• National Guinea Worm Eradication Programme
• National Leprosy Eradication Programme
• National AIDS Control Programme
• STD Control Programme
• National ARI Control Programme
• Iodine Deficiency Disorder Control Programme
• National Nutritional Anemia Prophylaxis Programme
• Mid Day Meal And Applied Nutritional Programmes
• National Programme For Control Of Blindness
• National Diabetes Control Programme
• National Cancer Control Programme
• RCH Programme
• Universal Child Immunization Programme
• Pulse Polio Immunisation Programme
• National Mental Health Programme
• National Water Supply And Sanitation Programme
• ICDS SCHEME
• Minimum Needs Programme
• 20 Point Programme
• Other programmes

UNIT:- III  COMMUNITY HEALTH SERVICES  (12Hrs)

• Organization of health care services at various levels
  - Central level
  - State level
  - District level
  - Rural / village level
- Urban Health Services
  - Services at Slums
  - Dispensaries and Special clinics
  - Services by corporations and municipalities
  - Welfare agencies in the community
  - Old age homes
  - Rehabilitation centers
  - Special schools
  - Other welfare agencies
- Referral system in health care
  - Primary, secondary and tertiary levels
  - Maximum utilization of the community resources
- Management information system in health services

UNIT:- IV HEALTH PLANNING AND POLICIES
(14Hrs)
- Health problems of India
- Health planning in India
  - Panchayath Raj and decentralization policies in health
  - National health policy – 2002
  - Millennium development goals
  - National Rural Health Mission
- Five year plans and its significance on health
- Various committees and commissions on health and family welfare
  - Recommendations of
    - Bhore Committee
    - Mudaliar Committee
    - Karthar Singh Committee
    - Sree Vasthav Committee
    - Shetty Committee
    - High power committee on Nursing
  - Central Council for Health and Family Welfare (CCH&FW)
- Health For All’ movement

UNIT:- V FAMILY FINANCE BUDGETTING
(7Hrs)
- Family financing and home economics
  - Family income and expenditures
  - Income generating activities of the family
  - Agriculture / House Hold / Cottage Industries
  - Family budget
  - Purchasing power of the family
  - Financial security of the family

UNIT:- VI ADVANCED ROLES FOR COMMUNITY HEALTH NURSING PRACTICE
(18 Hrs)
- Organizing community health programmes
  - Community assessment (review)
  - Planning, implementation and evaluation of health programmes in the community.
  - Organizing mass campaigns
  - Home visit and bag technique (review)
- Role of community health nurse related to:
  - Public health Nurse practitionership
- Demography and family welfare (review)
- MCH services
  - Under five clinics
  - Antenatal clinics
  - Immunization clinics
- Community psychiatry
- Community oncology
- School health services
  - School health programme
- Occupational health services
- Treatment of minor ailments
  - Practice of standing instructions
- Environmental sanitation
  - Waste management in home, community, and clinic
- Disaster management (review)
- Research in community (review)
- Others:
  - Sensitizing community on social and health issues like:
    - Substance abuse
    - Child abuse and child labor
    - Abuse of women and elderly
    - Commercial sex work

UNIT:- VII COMMUNITY HEALTH NURSING ADMINISTRATION

- Concept of public health administration
- Administration of health services at Central, State and Local levels
  - Functions of DGHS
  - Administrative functions of community health nurse
  - Leadership in community health nursing practice
- Public health legislations
- Supervision in community health nursing practice
  - Concept and definition
  - Techniques of supervision
  - Supervisory functions of community health nurse
- Team work in community health nursing
- Public relations

UNIT:- VIII INFORMATION EDUCATION AND COMMUNICATION (IEC) FOR HEALTH

- Concept of Communication
- Concept of IEC
- Health Education
  - Concept, Definition and models
  - Principles
- Health behavior
- Health propaganda and health education
- Planning of health education
  - Topics
  - Levels of health education
• Methods and media for communicating health messages
  - AV Aids for health education in community setting
  - Mass media in health education
• Role of nurse related to IEC for health

ASSIGNMENTS

1. Paper presentation: - 1 (based on selected topics of community health importance)
2. Preparation of organization charts of health care services at various levels of health care delivery
COMMUNITY HEALTH NURSING – II - PRACTICAL

Hours: 325

The practical experiences include one week posting in urban community and 10 weeks postings in a rural community. In the rural community students have to organize a health project based on the results of a community health survey conducted in the area. Students should conduct regular home visits for family health care, organize health education sessions, attend the guided observation visits and participate in the administrative activities of the rural health center.

Guided observation visits should be arranged to the following areas.

<table>
<thead>
<tr>
<th>SI No</th>
<th>Place of visit</th>
<th>Specific activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A social welfare agency</td>
<td>- Situation based assignments</td>
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<tr>
<td></td>
<td></td>
<td>- Draw an organization structure of the visited agency</td>
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<td></td>
<td></td>
<td>- Report of the visit</td>
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<tr>
<td>2</td>
<td>An occupational health center</td>
<td>- Objective based community exercises</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Situation based assignments</td>
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<tr>
<td></td>
<td></td>
<td>- Identifying the activities of the center for prevention of specific occupational diseases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Drawing the floor plan of the plant visited</td>
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<tr>
<td></td>
<td></td>
<td>- Recognizing the organizational set up of the centre</td>
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<tr>
<td></td>
<td></td>
<td>- Report of the visit</td>
</tr>
<tr>
<td>3</td>
<td>District Public Health Nurses’ (DPHN) office</td>
<td>- Objective based assignments</td>
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<tr>
<td></td>
<td></td>
<td>- Drawing the organizational structure of the community health nursing administration at district level</td>
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<tr>
<td></td>
<td></td>
<td>- Interacting with the personnel using interview schedules</td>
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<tr>
<td></td>
<td></td>
<td>- Report of the interactions / visit</td>
</tr>
</tbody>
</table>

PRACTICAL SKILLS

The students should develop beginning skills and competence in:

- Conducting community surveys to make community diagnoses
- Assessing family health needs and problems
- Preparing family care plans to provide need based nursing care to the individuals and families in the community
- Preparing and maintaining family folders for selected families in the community
- Using the community health-nursing bag for doing various nursing procedures at home environment
- Improvising the resources for home adaptation of common nursing procedures
- Organising community health programmes and mass campaigns in the community
- Preparing family budgets
- Supervision of the field health staff
- Establishing public relations and rapport with the community
- Working with the public health team in the community
- Providing incidental and planned health education to individuals and families
METHOD OF TEACHING

1. Interactive lecture
2. Discussions
3. Demonstration
4. Field trips and observation visits
5. Paper presentations
6. Project method

ASSIGNMENTS:
- Submission of report of the community survey and community health project as a group work
- Writing the report of the community health project, observation visits and other relevant activities in the field in the *practical logbook*
- Demonstration of bag technique in home environment (during each home visits and one for evaluation)
- Submission of nursing care plans and family care analysis of selected families in the assigned community
- Organize health education sessions (incidental health education and one planned health education for evaluation)

METHOD OF EVALUATION

1. Written examination
2. Practical examination and viva voce
3. Ongoing field performance evaluation
4. Evaluation of assignments

REFERENCES

NURSING ADMINISTRATION

Placement: IV Year BSc Nursing

Allotted Hours
Theory : 60 Hrs.
Practical: 140Hrs.

COURSE DESCRIPTION

This course is designed to enable the students to acquire an understanding of the management of clinical nursing services and nursing educational programmes. This course enables the students to develop an understanding of professional responsibilities, prospects and contributions to the growth of profession.

BEHAVIOURAL OBJECTIVES

On completion of the course, the students will be able to:

• Explain the important concepts, principles and functions of management.
• Describe the management of nursing service in the hospital.
• Describe the roles and functions of administrators in nursing service
• Explain the functions of human resources department.
• Formulate job descriptions for the various categories of nursing personnel in nursing service & educational institutions
• Participate in planning and organization of in-service educational programme.
• Describe the head nurse’s role in ward management
• Discuss the importance of human relations in nursing.
• Describe the management of nursing educational institutions.
• Explain the roles and functions of nurse administrator in nursing educational institutions.
• Describe the professional, ethical & legal responsibilities of a nurse.
• Explain the various opportunities available for career advancement.

UNIT I – INTRODUCTION TO MANAGEMENT (10Hrs)

• Concept of administration and management
• Theories and principles of management
• Levels and roles of management
• Functions of management
  • Planning
  • Organizing – organizational structure, line and staff organization, organizational chart
  • Staffing
  • Budgeting – concept, principles, types, cost benefit analysis, audit.
  • Leading
  • Controlling – programme evaluation review techniques (PERT), activity plan, bench marking.
• Related concepts – authority, responsibility, delegation, decentralization
• Leadership – styles, qualities of a leader.
• Supervision – principles, methods and techniques; qualities of a supervisor
UNIT II – MANAGEMENT OF NURSING SERVICE DEPARTMENT (6Hrs)

- Planning of hospital and patient care units - lay out and physical facilities
- Formulation of mission, vision, philosophy and objectives
- Roles and functions of nursing service administrator
- Role of nurse administrator in:
  - Time planning
  - Budgeting
  - Quality assurance – preparation of standards, policies and procedures
  - Evaluation of patient care – nursing audit
  - Evaluation of personnel - performance appraisal
- Duties and responsibilities of nursing superintendent

UNIT III – HUMAN RESOURCE MANAGEMENT (9Hrs)

- Recruiting, selecting, deployment, retaining, promoting, superannuating
- Patient classification systems
- Nursing care delivery systems or methods of patient assignment
- Man power requirement – INC norms
- Scheduling of staff
- Job description, job analysis, Job specification,
- Employee morale, techniques of employee motivation
- Staff welfare programmes
- Staff development programmes –, orientation programme, in service education programme, continuing education
- Maintenance of discipline

UNIT IV– ROLE OF HEAD NURSE IN WARD MANAGEMENT (6Hrs)

- Factors influencing ward management
- Role of head nurse in
  - Patient care
  - Material management – inventory control, indenting
  - Supervision of staff and students
  - Maintenance of records and reports
  - Training of staff and students
  - Evaluation of staff and students

UNIT V– ORGANISATIONAL BEHAVIOUR AND HUMAN RELATIONS IN NURSING (3Hrs)

- Concepts and theories of organizational behavior
- Communication – channels, techniques
- Group dynamics
- Public relation in nursing
- Relation with professional association, employee unions,
- Collective bargaining
UNIT VI– INTRODUCTION TO MANAGEMENT OF NURSING EDUCATIONAL INSTITUTIONS (6Hrs)

- Historic development
- Types of educational programmes in nursing
- Formulating philosophy and objectives
- Organizational pattern of school and college of nursing – government and private
- Functions of nursing school and college administrator
- Requirements of the nursing school and college: INC norms
  - Physical facilities – building, hostel, hospital, other clinical and nonclinical areas, transportation facilities
  - Faculty and non teaching staff
- Regulatory bodies, accreditation, affiliation

UNIT VII– MANAGEMENT OF NURSING EDUCATIONAL INSTITUTION (13Hrs)

- Administration of faculty – recruitment, selection, appointment, job description, placement, performance appraisal, staff development and welfare programmes: staff records
- Administration of non teaching staff – staff pattern, supervision and evaluation, staff records
- Administration of finance – review of budgeting; preparation of budget proposal
- Material management – purchasing of audio visual aids, laboratory equipments, books and journals: related records
- Administration of curriculum, planning, implementation and evaluation, revision: planning of clinical experience – affiliation; preparation of master rotation plan and clinical rotation plan.
- Administration of students – selection, recruitment, policies, admission, orientation programme, guidance and counseling, student welfare programme, health check up, maintenance of discipline, student records – cumulative records, health records, admission register, anecdotal records etc.
- Programme evaluation
- Institutional records and reports – administrative, faculty, staff, and students
- Maintenance of public relations - importance, methods; school publications – magazines, brochure, newsletter; role of principal

UNIT VIII– NURSING AS A PROFESSION (4Hrs)

- Professional organizations at international, national and state levels
- Professional ethics
  - Code of ethics by ICN & INC
  - Professional conduct ICN, INC
  - Standards of nursing practice
- Legal aspects in nursing
  - Legal terms related to practice; registrate & licensing
  - Consumer protection act
  - Laws related to nursing practice; breach & penalties
  - Malpractice, negligence, torts
- Suggestion - A discussion with subject expert on the related topic.

- Current trends and issues in: nursing, nursing service administration and nursing educational administration.
UNIT IX– PROFESSIONAL ADVANCEMENTS

- Registration at the SNC – policies and procedures.
- Career opportunities
- Preparing a resume, applying for a job
- Resignation from a post
- Participation in research activities, publication, journals, newspapers

METHODS OF TEACHING

1. Lecture
2. Discussion
3. Case discussion
4. Role play
5. Filed trip to Kerala Nursing Council

METHODS OF EVALUATION

1. Sessional Examination - 20%
2. Model Examination - 20%
3. Ongoing evaluation of clinical performance - 15%
4. Written Assignments - 15%
5. Nursing rounds - 10%
6. Bedside Clinics - 10%
7. Demonstration - 10%
NURSING ADMINISTRATION – PRACTICALS

Hours allotted: 140Hrs

AIM

The aim of the practical experience is to develop managerial skills needed for the management of nursing educational institutions and nursing service in the hospital.

BEHAVIORAL OBJECTIVES:

The student will be able to:

- Prepare the organizational chart of an organization
- Outline the duties and responsibilities of various categories of nursing personnel
- Develop skill in management of ward and special units like cssd, dietary department, house keeping department, intensive care unit.
- Apply the knowledge of staffing & scheduling in preparing duty roster for nursing personnel.
- Demonstrate skill in teaching and supervision of staff and students.
- Develop leadership skills
- Develop skill in oral and written communication

SKILLS TO BE DEVELOPED

1. Conceptual skills
   - Preparation of organizational chart
   - Preparation of job description
   - Preparation of work plan
   - Plan of assignments for a staff and students
   - Preparation of performa for evaluation of staff
   - Report of duties and responsibilities of night supervisor

2. Communication skills
   - Oral reports
   - Preparation of night report
   - Preparation of day report
   - Maintenance of records

3. Conceptual and technical skills
   - Preparation of duty roster
   - Indenting and inventory control
   - Management of special units like CSSD, dietary department, house keeping department, intensive care unit

4. Supervisory and teaching skills
   - Supervision of staff
   - Supervision of students
   - Conduction of nursing rounds, bedside clinics, demonstration
   - Night supervision
ASSIGNMENTS

2. Preparation of job description of staff nurse, head nurse, nursing superintendent, lecturer, nursing assistant
3. Preparing night report of the nursing superintendent office
4. Preparation of Performa for evaluation of performance of staff
5. Preparing day report of a ward
6. Conducting nursing rounds, bedside clinics, demonstration

REFERENCES

NURSING EDUCATION

Placement: IV Year B.Sc Nursing

Allotted Hours:
Theory : 60 Hrs
Practical : 125 Hrs

COURSE DESCRIPTION

This course is meant to familiarize the students with philosophies, theories, principles and methods of the teaching learning process and curriculum development. It is also designed to equip the students with the beginning skills in the art of teaching in basic nursing education programme.

BEHAVIORAL OBJECTIVES

On completion of the course the student will be able to:
- Describe the development and trends in nursing and nursing education.
- Explain the philosophy of nursing education.
- Construct objectives and various levels.
- Describe teaching learning process.
- Demonstrate beginning skills in the art of teaching in basic nursing education programme using various teaching methodologies
- Describe the concepts, principles and process of curriculum development.
- Use appropriate teaching aids to facilitate learning.
- Demonstrate beginning skills in the construction of evaluation tools.
- Evaluate one’s own performance as a teacher for self-improvement.
- Recognize the need for guidance and counseling in nursing educational institutions
- Identify the teacher’s role in preventive discipline.

UNIT I: - NURSING EDUCATION (7 Hrs)

- Education – meaning and definitions
- Need / importance of education
- Aims of education & types of education
- Principles and functions of education
- Agencies of education
- Education as a process
- Dimensions of the educative process – substantive, procedural, environmental, human relations
- History of education & current trends in education.
- Nursing education – definitions, aims and patterns of nursing education
- Development of nursing education - international, national and state levels
- Current trends and issues in nursing education

UNIT II: - PHILOSOPHY (5Hrs)

- Philosophy - meaning & definitions
- Relationship between philosophy and education
- Important philosophies – idealism, naturalism, pragmatism, realism & eclectic philosophy
- Philosophy of nursing education – factors influencing, principles, steps
UNIT III: - EDUCATIONAL OBJECTIVES (5Hrs)

- Definitions of educational objectives
- Elements of an educational objective, qualities, domains – cognitive, affective, psychomotor
- Bloom’s taxonomy
- Types of objectives, statement, principles and steps

UNIT IV: - TEACHING - LEARNING PROCESS (6Hrs)

- Teaching - meaning & definitions
- Principles of teaching & maxims of teaching
- Qualities of good teacher, role & functions of a teacher in nursing
- Role of a clinical instructor
- Classroom management
- Learning – nature, laws & characteristics (review), theories & principles

UNIT V: – TEACHING METHODOLOGY (8Hrs)

- Teaching methods – Principles in the selection of, types
- Lecture, Demonstration
- Group methods – Group discussion, seminar, symposium, panel discussion, workshop & role play brain storming, buzz group, syndicate method
- Exhibition, project method, field trip, programmed instruction and simulation
- Micro teaching
- Problem based learning, computer assisted learning, self instructional modules
- Clinical teaching methods – bedside demonstration, nursing rounds, bedside clinics, clinical conference, care study presentations & process recording

UNIT VI: - CURRICULUM DEVELOPMENT (12Hrs)

- Curriculum – meaning & definitions, types
- Principles of curriculum development, steps in curriculum development
- Curriculum planning – levels and stages.
- Factors influencing curriculum development
- Organization of learning experience
- Preparation of master plan & clinical rotation plan
- Course plan – essential elements
- Unit plan – types of unit, elements & characteristics of good units
- Lesson plan – importance, advantages & elements of a good lesson plan
- Types of questions, purposes, characteristics of good questions and questioning techniques.
- Assignment- definition, importance, purposes, types, principles
- Characteristics of a good assignment.

UNIT VII: – EDUCATIONAL MEDIA (6Hrs)

- Educational media – definition, purposes, classifications, principles & sources
- Dale’s cone of experience
- Types of audio-visual aids-
  - Graphic aids- chalk board & other display boards, charts, graphs, posters, flash cards, flannel graphs, bulletins & cartoons
  - Three dimensional aids – objects, specimens, models, puppets, mock-ups & dioramas
Printed aids – pamphlets & leaflets
Projected aids – over head projector, slides, films, TV, VCR/ VCD, camera & LCD, epidiascope
Audio aids - radio, tape recorder, public address systems
Computers
Activity aids

UNIT VIII: – EDUCATIONAL EVALUATION (7Hrs)

- Educational evaluation – definition, purposes, scope, principles, methods & types
- Criteria for selection of assessment techniques & methods
- Steps in evaluation, tools of evaluation & qualities of a good evaluation tool
- Essay type questions – advantages and disadvantages, guidelines in the construction of
- Objective type questions – classification, principles of constructing, advantages and disadvantages
- Practical and oral examinations – principles, advantages and disadvantages.
- Internal assessment – methods, policies, advantages and disadvantages
- Programme evaluation – peer review
- Teacher evaluation – self evaluation, peer evaluation, evaluation by students
- Rating scales – different types, advantages and disadvantages
- Clinical evaluation – importance, purposes, methods tools in different areas and specialties
- Evaluation of performance of students
- Review of records - anecdotal records, critical incident record, cumulative record

UNIT IX: – GUIDANCE AND COUNSELING (3Hrs)

- Guidance and counseling – meaning, definitions, purposes, scope, need and significance
- Counseling – principles, areas, types, steps and approaches.
- Roles, preparation & qualities of a counselor
- Organization of counseling services, policies and procedures
- Management of crisis & referral

UNIT X: - DISCIPLINE IN EDUCATION (2Hrs)

- Aims of discipline in education
- Principles & types of discipline
- Dealing with weaker students
- Preventive discipline – teacher’s role
- Disciplinary problems and disciplinary procedures
METHODS OF TEACHING

1. Lecture cum discussion
2. Demonstration of various methods of teaching and preparation of audio visual aids

METHODS OF EVALUATION

5. Sessional Exams - 15%
6. Model Exam -20%
7. Evaluation of practice teaching (3) -40%
8. Evaluation of assignments -25%
AIM

The aim of the practical experience is to equip students with beginning skills in various methods of teaching, preparation and use of audio visual aids and preparation and use of tools of evaluation.

BEHAVIOURAL OBJECTIVES

The student will be able to:
- Formulate philosophy of nursing education
- Plan and organize learning experience for students
- Plan and organize teaching
- Demonstrate skill in classroom teaching
- Develop different types of evaluation tool

SKILLS TO BE DEVELOPED

Skill in -
- Formulating the philosophy of nursing education
- Constructing educational objectives – specific and general
- Preparing course plan, unit plan and lesson plan
- Preparing master rotation plan and clinical rotation plan
- Preparing and using audio visual aids
- Constructing different types of test items
- Formulating evaluation tools – preparation of check list, performance evaluation tool, rating scale
- Teaching skills
  - Selecting the content
  - Organizing the content
  - Skill in formulation of questions
  - Skill in preparation of assignments
  - Skill in explanation
  - Skill in use of examples
  - Stimulus variation
  - Set induction
  - Closure
  - Use of silence and non verbal cues
  - Skill of reinforcement
  - Recognizing and attention behaviour
  - Fluency, pace of speech
  - Class management
  - Use of higher order questions
  - Planned repetition
  - Skill of increasing pupil participation
  - Completeness of communication
  - Illustrating and use of example
  - Evaluating the pupil’s progress
  - Response management
  - Question delivery and distribution
  - Diagnosing pupil learning difficulties
Five hours of teaching practice for each student using various teaching methodologies.

ASSIGNMENTS

- Preparation of
  - Master rotation plan
  - Clinical rotation plan
  - Course plan
  - Unit plan
  - Lesson plan
  - Test items
  - Evaluation tool
  - Audio visual aids

Group Activity on

- Various methods of teaching

REFERENCES: