

**SRM IST**  
**SRM COLLEGE OF NURSING**  
**M.SC. NURSING**

**1.OVERALL OBJECTIVES**

The candidate is prepared to function in a leadership position in selected areas of clinical speciality, Nursing education, Nursing Administration and in Nursing Research and carry out independent research studies.

**2. ELIGIBILITY FOR ADMISSION**

- a. The candidate should be a registered Nurse and registered Midwife or equivalent with any state nursing Registration Council.
- b. The minimum education requirements shall be the passing of:  
B.Sc., Nursing/ Post Basic B.Sc. Nursing with minimum of 55% aggregate marks.
- c. The candidate should have undergone B.Sc. Nursing/ Post Basic B.Sc. Nursing in an Institution which is recognized by Indian Nursing Council.
- d. Minimum 1 year of work experience after basic B.Sc. Nursing
- e. Minimum 1 year of work experience prior or after post basic B.Sc. Nursing.
- f. Candidate shall be Medically fit.
- g. 5% relaxation of marks for SC/ST candidate may be given.

**Entrance/Selection Test**

Selection of candidates should be based on the merit of the entrance examination held by University or competent authority.

**3. DURATION OF THE COURSE**

The duration of M.Sc. Nursing course shall extend over a period of two academic years. The course shall be non-semester annual pattern.

**4. MEDIUM OF INSTRUCTION**

English shall be the medium of Instruction for all the subjects of study and for examination.

## **5. COMMENCEMENT OF THE COURSE**

The course will commence from May of every academic year.

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

Each academic year shall consist of not less than 240 working days

## **7. ATTENDANCE**

- a. 75% of the attendance for theory and practical. However 100% of attendance for practical before the award of degree.
- b. A candidate lacking in the prescribed attendance and progress in any one subject in theory or practical, the first appearance shall not be permitted for appearing the University examination in that subject.
- c. There shall be no condonation of attendance however 5% allowance is in discretion of the Principal. Criteria for such allowance are: undue occurrence in the family, natural calamity, death of close family members, serious illness.

## **8. CURRICULUM**

The curriculum and syllabus for the M.Sc. Nursing course shall be as prescribed by the Academic Council of the University from time to time.

## **9. INTERNAL ASSESSMENT**

- a. There will be internal assessment of students performance in terms of theory and practical as given in the scheme of examination
- b. To qualify for appearing for the university examination, a candidate should secure a minimum of 50% of marks prescribed for internal assessment in the subject concerned.
- c. At least three theory examinations and if practical has been prescribed, one practical examinations will be conducted in the subject concerned and the average marks of such internal examination will be taken into consideration for award of internal marks.

- d. If a candidate fails in internal assessment in any subject(s), she will be given an opportunity to improve her internal marks by conducting a minimum of two examinations in theory and in practical if prescribed in the subject concerned.
- e. The details of internal marks awarded to the candidates should be submitted to the university by the Head of the institution at least 15 days prior to the commencement of the theory examination.

## **10. SCHEME OF EXAMINATION**

University examination will be conducted as Part-I and Part-II at the end of the first year and second year respectively, as per the syllabus prescribed. If a candidate fails in Part- I examination, he/she will be allowed to proceed to the second year of the course and reappear for supplementary examination in the failed subjects. University examinations will be conducted normally in June/November sessions.

## **11. MARKS QUALIFYING FOR A PASS**

- A candidate will be declared to have passed a subject/paper in the University examination if he/she secures not less than 50% of marks in the University theory examination, not less than 50% of marks in the University practical examination wherever prescribed and not less than 50% of marks in internal assessment.
- If the candidate fails in either practical or theory paper he/she has to reappear for both the paper (theory and Practical)
- Maximum number of attempts per subjects is three (3) inclusive of first attempt. The maximum period to complete the course successfully should not exceed 4 years.

## **PRACTICALS**

- a. 4 hours of practical examination per student.
- b. Maximum number of 10 students per day per speciality.
- c. The examination should be held in clinical area only for clinical specialities.
- d. One internal and external should jointly conduct practical examination.

- e. Examiner – Nursing faculty teaching respective speciality area in M.Sc. Nursing programme with minimum 3 year experience after M.Sc. Nursing.

## **12. REVALUATION OF ANSWER PAPERS**

There shall be no revaluation of the answer papers however re-totalling is permitted.

## **13. MODALITIES FOR AWARD OF CLASS**

The candidate who obtains the highest marks in aggregate in first attempt should be awarded first rank.

The candidate who obtains

- a. 75% and above in aggregate is considered to have passed in first class with distinction
- b. 60-75% in aggregate is considered to have passed in first division
- c. 50-59% is considered to have passed in second division
- d. 50% pass in each of the theory and practical separately.

## **14. MAINTENANCE OF LOG BOOK**

- a. Every candidate who obtains the highest marks in aggregate in first attempt should be awarded first rank.
- b. The head of the department & institution shall scrutinize the log book once in every three months.
- c. At the end of the programme, the candidate should summarize the contents and get the log Book certified by the Head of the institution/
- d. The logbook should be submitted at the time of practical examination for the scrutiny of the board of examiners.
- e. In addition to the above, the head of the department shall involve the candidates in seminars, journal club, group discussions, Nursing conference and in the teaching and training programme of under graduate students.
- f. Every candidate should be encouraged to present short title papers in conference and to make improvements in it and submit them for publication in reputed nursing journals. Motivation by the Heads of departments is essential in this area to sharpen the research skills of the candidates.

## **15. SUBMISSION OF DISSERTATION**

- a. Every candidate shall be required to submit 4 copies of dissertation in the speciality concerned, three months before the commencement of Part-II examination to the controller of examination through the head of the Department/Institutions.
- b. The dissertation should be neatly typed on one side only in double lined spacing and it should not exceed 60 pages excluding certifications, acknowledgements, annexures and Bibliography.
- c. The dissertation shall be valued by
  - i. An internal examiner with Nursing Research experience common to all the Branches of Speciality.
  - ii. An external examiner with Nursing Research experience common to all the branches of speciality.
- d. When certain corrections are suggested in relation to the dissertation, the Chairman, Board of Examiners would furnish a detailed report to the controller of Examinations about the corrections that the candidate has to carry-out. In such case the candidate should resubmit the dissertation carrying out the corrections suggested with in one month from the date of receipt of communication from the controller of examinations to the effect and till the dissertation is approved on such resubmission, the issue of mark statement to the candidate will be withheld. If approved on such resubmission the mark statement to the candidate will be issued.
- e. If the dissertation of a candidate is approved, but she fails in the university theory/practical examination, the marks awarded for her dissertation shall be carried over for the subsequent examination(s).
- f. When the dissertation of a candidate is rejected, the candidate shall submit a fresh dissertation two months prior to the commencement of the subsequent University examination

### **Research Guides**

- a. Qualification of Guide

Main Guide : Nursing faculty/ Nursing expert in the same clinical speciality holding Ph.D/M.Phil/M.Sc. Nursing with a minimum of 3 years experience in teaching in the post graduate programmed in Nursing

Co-Guide: A Co-Guide is a nursing faculty/expert in the field of study (may be from outside the college but should be within the city)

b. Guide -Students Ratio

Maximum of 1:4 (including as co-guide)

c. Research Committee

There should be a research committee in each college comprising of minimum 5 members chaired by the Principal, College of Nursing.

## **16. ELIGIBILITY FOR AWARD OF THE DEGREE**

The candidate will be awarded the degree of Master of Science in Nursing when a candidate has put in the prescribed programmes of study for two years and successfully completed all programme requirements including the submission of dissertation.

## **17. NUMBER OF APPEARANCE(S):**

A candidate registered for the M.Sc. Nursing course must pass the Part-I and Part-II examination within five years from the date of her admission; i.e., the candidate should pass the Part-I and Part-II examinations within nine attempts in the University examination. If the candidate fails to pass the Part-I and Part-II Examination within the period of five years, he/she shall be discharged from the course.

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

- A candidate having a break of study of five years and above from the date of admission and more than two spells of break will not be considered for readmission.
- The five years period of break or study shall be calculated from the date of first admission of the candidate to the course inclusive of all the subsequent spells of break of studies.

- A candidate having a break of study shall be re-admitted after satisfactory fulfillment of the regulations of the University at the commencement of an academic year only and shall undergo the full duration of the course. No exemption for the period of study already undergone or for the examination already passed shall be granted. The candidate will be required to appear for all the examinations as prescribed in the regulations in vogue at the time of readmission.

### 19. BRANCHES OF STUDY

The following shall be the branches of study for M.Sc. Degree in Nursing.

- Branch I - Medical Surgical Nursing
- Branch II - Paediatric Nursing
- Branch III - Obstetric & Gynaecology Nursing
- Branch IV - Community Health Nursing
- Branch V - Psychiatric Nursing

### 20. VACATION

The Heads of institutions shall declare 4 (four) weeks vacation in an academic year to the students. The period of vacation can be decided by the Head of the institution.

#### PLACEMENT I YEAR

<b>Subjects</b>	<b>Theory Hours</b>	<b>Practical Hours</b>
Advanced Nursing Practice	150	200
Nursing Education	150	150
Nursing Research and Statistics	150	100

Clinical Speciality -I Medical Surgical Nursing Obstetrics & Gynaecology Community Health Nursing Psychiatric Nursing Pediatric Nursing	150	650
<b>Total</b>	<b>600</b>	<b>1100</b>

**PLACEMENT : II YEAR**

Nursing Management	150	150
Nursing Research (Dissertation)	-	300
Clinical Speciality - II Medical Surgical Nursing Obstetrics & Gynaecology Community Health Nursing Psychiatric Nursing Pediatric Nursing	150	950
<b>Total</b>	<b>300</b>	<b>1400</b>

**SCHEME OF EXAMINATION**

I year	Theory			Practical		
	Hours	Internal	External	Hours	Internal	External
Advanced Nursing Practice	3	25	75	-	-	-
Nursing Education	3	25	75		50	50
Nursing Research and Statistics	3	25**	75*			
Clinical Speciality -I	3	25	75		100	100
<b>Total</b>		100	300		150	150
<b>II Year</b>						



Nursing Management	3	25	75			
Dissertation & viva	-	-	-		100	100
Clinical Speciality - II	3	25	75		100	100
<b>Total</b>		50	150		200	200

\* Nursing Research =50 and Statistics = 25

\*\*Nursing Research = 15 and Statistics = 10

# **SYLLABUS**

## **NURSING EDUCATION**

Placement: I Year

Hours of Instruction

Theory 150 Hours

Practical 150 Hours

Total: 300 Hours

### **Course Description**

This course is designed to assist students to develop a broad understanding of Fundamental Principles, concepts, trends and issues related to education and nursing education. Further, it would provide opportunity to students to understand, appreciate and acquire skills in teaching and evaluation, curriculum development, implementation, maintenance of standards and accreditation of various nursing educational programs.

### **Objectives**

At the end of the course, students will be able to:

1. Explain the aims of education, philosophies, trends in education and health: its impact on nursing education.
2. Describe the teaching learning process.
3. Prepare and utilize various instructional media and methods in teaching learning process.
4. Demonstrate competency in teaching, using various instructional strategies.
5. Critically analyze the existing nursing educational programs, their Problems, issues and future trends.
6. Describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration.
7. Plan and conduct continuing nursing education programs.
8. Critically analyze the existing teacher preparation programs in nursing.
9. Demonstrate skill in guidance and counseling.
10. Describe the problems and issues related to administration of nursing Curriculum including selection and organization of clinical experience.

11. Explain the development of standards and accreditation process in Nursing education programs.
12. Identify research priorities in nursing education.
13. Discuss various models of collaboration in nursing education and Services.
14. Explain the concept, principles, steps, tools and techniques of Evaluation
15. Construct, administer and evaluate various tools for assessment of Knowledge, skill, and attitude.

### Course Content

Units	Hours		Course Content
	Theory	Practical	
I	10		<p><b>Introduction :</b></p> <ul style="list-style-type: none"> <li>• □ Education :Definition, aims, concepts, philosophies &amp; their education implications,</li> <li>• □ Impact of Social, economical, political &amp; technological changes on education:</li> <li>• Professional education</li> <li>• Current trends and issues in education</li> <li>• Educational reforms and National Educational policy, various educational commissions-reports</li> <li>• Trends in development of nursing education in India</li> </ul>
II	20	30	<p><b>Teaching – Learning Process</b></p> <ul style="list-style-type: none"> <li>• □ Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning.</li> <li>• □ Educational aims and objectives; types, domains, levels, elements and writing of educational objectives</li> <li>• □ Competency based education(CBE) and outcome based education(OBE)</li> <li>• □ Instructional design: Planning and designing the lesson, writing lesson plan : meaning, its need and Importance formats.</li> <li>• □ Instruction strategies – Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem</li> </ul>

			<p>based learning (PBL), workshop, project, role-play(sociodrama), clinical teaching methods, programmed instruction, self directed learning(SDL), micro teaching, computer assisted instruction(CAI), computer assisted learning (CAL)</p>
III	10	10	<p><b>Instructional media and methods</b></p> <ul style="list-style-type: none"> <li>• <input type="checkbox"/> Key concepts in the selection and use of media in education</li> <li>• <input type="checkbox"/> Developing learning resource material using different media</li> <li>• <input type="checkbox"/> Instructional aids – types, uses, selection, Preparation, utilization.</li> <li>• <input type="checkbox"/> Teacher’s role in procuring and managing instructional Aids – Project and non-projected aids, multi media, video-tele conferencing etc</li> </ul>
IV	10		<p><b>Measurement and evaluation:</b></p> <ul style="list-style-type: none"> <li>• <input type="checkbox"/> Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement.</li> <li>• <input type="checkbox"/> Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages.</li> <li>• <input type="checkbox"/> Criterion and norm referenced evaluation</li> </ul>
V	12	10	<p><b>Standardized and non-standardized tests :</b></p> <ul style="list-style-type: none"> <li>✓ <input type="checkbox"/> Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- <ul style="list-style-type: none"> <li>• Essay, short answer questions and multiple Choice questions.</li> </ul> </li> <li>• Rating scales, checklist, OSCE/OSPE(Objective structured clinical/practical examination) <ul style="list-style-type: none"> <li>• Differential scales, and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique</li> </ul> </li> <li>✓ <input type="checkbox"/> Question bank-preparation, validation, moderation by panel, utilization</li> <li>✓ <input type="checkbox"/> Developing a system for maintaining confidentiality</li> </ul>
VI	8	5	<p><b>Administration, Scoring and Reporting</b></p> <ul style="list-style-type: none"> <li>• <input type="checkbox"/> Administering a test; scoring, grading</li> </ul>

			<p>versus marks</p> <ul style="list-style-type: none"> <li>□ Objective tests, scoring essay test, methods of Scoring, Item analysis.</li> </ul>
VII	12	6	<p><b>Standardized Tools</b></p> <ul style="list-style-type: none"> <li>□ Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities</li> </ul>
VIII	5	6	<p><b>Nursing Educational programs</b></p> <ul style="list-style-type: none"> <li>□ Perspectives of nursing education: Global and national.</li> <li>□ Patterns of nursing education and training programmes in India. Non-university and University</li> </ul> <p>programs: ANM, GNM, Basic B.Sc. Nursing, Post Certificate B.Sc. Nursing, M.Sc(N) programs, M.Phil and Ph.D) in Nursing, post basic diploma programs, nurse practitioner programs.</p>
IX	12	25	<p><b>Continuing Education in Nursing</b></p> <ul style="list-style-type: none"> <li>□ Concepts – Definition, importance, need scope, principles of adult learning, assessments of learning needs, priorities, resources.</li> <li>□ Program planning, implementation and evaluation of Continuing education programs.</li> <li>□ Research in continuing education.</li> <li>□ Distance education in nursing.</li> </ul>
X	10	10	<p><b>Curriculum Development</b></p> <ul style="list-style-type: none"> <li>□ Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, Types and framework.</li> <li>□ Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan.</li> <li>□ Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders.</li> <li>□ Equivalency of courses: Transcripts, credit system.</li> </ul>
XI	8	4	<p><b>Teacher preparation</b></p> <ul style="list-style-type: none"> <li>□ Teacher – roles &amp; responsibilities, functions, characteristics, competencies, qualities,</li> <li>□ Preparation of professional teacher</li> <li>□ Organizing professional aspects of teacher preparation programs</li> </ul>

			<ul style="list-style-type: none"> <li>• <input type="checkbox"/> Evaluation: self and peer</li> <li>• <input type="checkbox"/> Critical analysis of various programs of teacher education in India.</li> </ul>
XII	10	5	<p><b>Guidance and counseling</b></p> <ul style="list-style-type: none"> <li>• <input type="checkbox"/> Concept, principles, need, difference between guidance and counseling , trends and issues.</li> <li>• <input type="checkbox"/> Guidance and counseling services : diagnostic and remedial.</li> <li>• <input type="checkbox"/> Coordination and organization of services.</li> <li>• <input type="checkbox"/> Techniques of counseling : Interview, case work, characteristics of counselor, problems in counseling.</li> <li>• <input type="checkbox"/> Professional preparation and training for counseling.</li> </ul>
XIII	15	10	<p><b>Administration of Nursing Curriculum</b></p> <ul style="list-style-type: none"> <li>• <input type="checkbox"/> Role of curriculum coordinator – planning, implementation and evaluation.</li> <li>• <input type="checkbox"/> Evaluation of educational programs in nursing course and program.</li> <li>• <input type="checkbox"/> Factors influencing faculty staff relationship and techniques of working together.</li> <li>• <input type="checkbox"/> Concept of faculty supervisor (dual) position.</li> <li>• <input type="checkbox"/> Curriculum research in nursing.</li> <li>• <input type="checkbox"/> Different models of collaboration between education and service</li> </ul>
XIV	10		<p><b>Management of nursing educational institutions</b></p> <p><input type="checkbox"/> Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,</p>
XV	5	5	<ul style="list-style-type: none"> <li>• <input type="checkbox"/> Development and maintenance of standards and accreditation in nursing education programs.</li> <li>• <input type="checkbox"/> Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University.</li> <li>• <input type="checkbox"/> Role of Professional associations and unions.</li> </ul>

**Activities:**

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Micro teaching-2.

- Conduct practice teachings using different teaching strategies -10(like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical methods etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Conduct a continuing education workshop.
- Annotated bibliography.
- Critical evaluation of any nursing education program offered by a selected institution.
- Planning and Organizing field visits.
- Educational visits.
- Field visits (INC/SNRC) to get familiar with recognition/registration process.
- Construct, administer and evaluate tools (objective & essay type test, Observation checklist, rating scale etc)
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilities tests.)

**Methods of Teaching**

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar / Presentations
- Project work
- Field visits
- Workshop

**Methods of evaluation**

- Tests
- Presentation
- Project work
- Written assignments

**Internal Assessment**

<b>Techniques</b>	<b>Weightage</b>
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25
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	100
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**Practical – Internal assessment**

Learning resource material	25
Practice Teaching	50
Conduct Workshop /Short Term Course	25

**Practical – external assessment**

Practice teaching- 1-	50
Preparation/use of learning resource material-1	25
Construction of tests/rotation plan.	25

## **ADVANCED NURSING PRACTICE**

Placement: 1ST Year

Hours of Instruction  
Theory 150 Hours  
Practical 200 Hours  
Total : 350 Hours

### **Course Description**

The course is designed to develop an understanding of concepts and constructs of theoretical basis of advance nursing practice and critically analyze different theories of nursing and other disciplines.

### **Objectives:**

At the end of the course the students will be able to:

1. Appreciate and analyze the development of nursing as a profession.
2. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
3. Explain bio- psycho- social dynamics of health, life style and health care delivery system.
4. Discuss concepts, principles, theories, models, approaches relevant to nursing and their application.
5. Describe scope of nursing practice.
6. Provide holistic and competent nursing care following nursing process approach.
7. Identify latest trends in nursing and the basis of advance nursing practice.
8. Perform extended and expanded role of nurse.
9. Describe alternative modalities of nursing care.
10. Describe the concept of quality control in nursing.
11. Identify the scope of nursing research.
12. Use computer in patient care delivery system and nursing practice.
13. Appreciate importance of self development and professional advancement.



## Course content

unit	Hours	Content
I	10	<p><b>Nursing as a Profession</b></p> <ul style="list-style-type: none"> <li>□ History of development of nursing profession, characteristics, criteria of the profession, perspective of nursing profession-national, global</li> <li>□ Code of ethics(INC), code of professional conduct(INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations,</li> <li>□ Role of regulatory bodies</li> <li>□ Professional organizations and unions-self defense, individual and collective bargaining</li> <li>□ Educational preparations, continuing education, career opportunities, professional advancement &amp; role and scope of nursing education.</li> <li>□ Role of research, leadership and management.</li> <li>□ Quality assurance in nursing (INC).</li> <li>□ Futuristic nursing.</li> </ul>
II	5	<p><b>Health care delivery</b></p> <ul style="list-style-type: none"> <li>□ Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing Profession.</li> <li>□ Health care delivery system- national, state, district and local level.</li> <li>□ Major stakeholders in the health care system-Government, non-govt, Industry and other professionals.</li> <li>□ Patterns of nursing care delivery in India.</li> <li>□ Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of nongovernmental agencies.</li> <li>□ Information, education and communication (IEC).</li> <li>□ Tele-medicine.</li> </ul>
III	10	<p><b>Genetics</b></p> <ul style="list-style-type: none"> <li>□ Review of cellular division, mutation and law of inheritance, human genome project, The Genomic era.</li> <li>□ Basic concepts of Genes, Chromosomes &amp; DNA.</li> </ul>

		<input type="checkbox"/> Approaches to common genetic disorders. <input type="checkbox"/> Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening, Ethical, legal & psychosocial issues in genetic testing. <input type="checkbox"/> Genetic counseling. Practical application of genetics in nursing
IV	10	<b>Epidemiology</b> <input type="checkbox"/> Scope, epidemiological approach and methods, <input type="checkbox"/> Morbidity, mortality, <input type="checkbox"/> Concepts of causation of diseases and their screening, <input type="checkbox"/> Application of epidemiology in health care delivery, Health surveillance and health informatics <input type="checkbox"/> Role of nurse
V	20	<b>Bio-Psycho social pathology</b> <input type="checkbox"/> Pathophysiology and Psychodynamics of disease causation <input type="checkbox"/> Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, life style <input type="checkbox"/> Common problems: Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems, hemorrhage ]and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation. <input type="checkbox"/> Treatment aspects: pharmacological and pre- post operative care aspects, <input type="checkbox"/> Cardio pulmonary resuscitation. <input type="checkbox"/> End of life Care <input type="checkbox"/> Infection prevention (including HIV) and standard safety measures, bio-medical waste management. <input type="checkbox"/> Role of nurse- Evidence based nursing practice; Best practices <input type="checkbox"/> Innovations in nursing
VI	20	<b>Philosophy and Theories of Nursing</b> <input type="checkbox"/> Values, Conceptual models, approaches. <input type="checkbox"/> Nursing theories: Nightingale's, Henderson's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson parsee, etc and their applications, <input type="checkbox"/> Health belief models, communication and management, etc <input type="checkbox"/> Concept of Self health. <input type="checkbox"/> Evidence based practice model.

VII	10	<p><b>Nursing process approach</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Health Assessment- illness status of patients/clients (Individuals, family, community), Identification of health illness problems, health behaviors, signs and symptoms of clients.</li> <li><input type="checkbox"/> Methods of collection, analysis and utilization of data relevant to nursing process.</li> <li><input type="checkbox"/> Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.</li> </ul>
VIII	30	<p><b>Psychological aspects and Human relations</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Human behavior, Life processes &amp; growth and development, personality development, defense mechanisms,</li> <li><input type="checkbox"/> Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior,</li> <li><input type="checkbox"/> Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young &amp; middle adult, and Older adult)</li> <li><input type="checkbox"/> Sexuality and sexual health.</li> <li><input type="checkbox"/> Stress and adaptation, crisis and its intervention,</li> <li><input type="checkbox"/> Coping with loss, death and grieving,</li> <li><input type="checkbox"/> Principles and techniques of Counseling.</li> </ul>
IX	30	<p><b>Nursing practice</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Framework, scope and trends.</li> <li><input type="checkbox"/> Alternative modalities of care, alternative systems of health and complimentary therapies.</li> <li><input type="checkbox"/> Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community and institutions.</li> <li><input type="checkbox"/> Health promotion and primary health care.</li> <li><input type="checkbox"/> Independent practice issues,- Independent nurse-midwifery practitioner.</li> <li><input type="checkbox"/> Collaboration issues and models-within and outside nursing.</li> <li><input type="checkbox"/> Models of Prevention,</li> <li><input type="checkbox"/> Family nursing, Home nursing,</li> <li><input type="checkbox"/> Gender sensitive issues and women empowerment.</li> <li><input type="checkbox"/> Disaster nursing.</li> <li><input type="checkbox"/> Geriatric considerations in nursing.</li> <li><input type="checkbox"/> Evidence based nursing practice- Best practices</li> <li><input type="checkbox"/> Trans-cultural nursing.</li> </ul>

<b>X</b>	<b>25</b>	<p><b>Computer applications for patient care delivery system and nursing practice</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Use of computers in teaching, learning, research and nursing practice.</li> <li><input type="checkbox"/> Windows, MS office: Word, Excel, Power Point,</li> <li><input type="checkbox"/> Internet, literature search,</li> <li><input type="checkbox"/> Statistical packages,</li> <li><input type="checkbox"/> Hospital management information system: software</li> </ul>
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**Practical**

Clinical posting in the following areas:

- Specialty area- in-patient unit - 2 weeks
- Community health center/PHC - 2 weeks
- Emergency/ICU - 2 weeks

**Activities**

- Prepare Case studies with nursing process approach and theoretical basis
- Presentation of comparative picture of theories
- Family case- work using model of prevention
- Annotated bibliography
- Report of field visits (5)

**Methods of Teaching**

- Lecture cum discussion
- Seminar
- Panel discussion
- Debate
- Case Presentations
- Exposure to scientific conferences
- Field visits

**Methods of evaluation:**

- Tests
- Presentation
- Seminar
- Written assignments

## **Advance nursing Procedures**

Definition, Indication and nursing implications;

- CPR, TPN, Hemodynamic monitoring, Endotracheal intubation, Tracheostoma, mechanical ventilation, Pacemaker, Hemodialysis, Peritoneal dialysis, LP, BT Pleural and abdominal paracentesis OT techniques, Health assessment, Triage, Pulse oxymetry

## **Internal Assessment**

<b>Techniques</b>	<b>Weightage</b>
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25
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	100
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## **CLINICAL SPECIALITY – I MEDICAL SURGICAL NURSING**

Placement: 1st Year

Hours of instruction  
Theory: 150 Hours  
Practical: 650 Hours  
Total : 800 Hours

### **Course Description**

This course is common for the students undergoing clinical speciality-II in neuro science nursing/cardiovascular & thoracic nursing/critical care nursing/oncology nursing/orthopaedic and rehabilitation nursing/nephro & urology nursing, gastroenterology nursing/ geriatric nursing.

It is designed to assist students in developing expertise and in depth knowledge in the field of medical Surgical Nursing. It will help students to appreciate the patient as a holistic individual and develop skill to function as a specialized Medical-Surgical Nurse. It will further enable the student to function as educator, manager and researcher in the field of Medical –Surgical Nursing.

### **Objectives**

At the end of the course the students will be able to:

1. Appreciate the trends & issues in the field of Medical – Surgical Nursing as a speciality.
2. Apply concepts & theories related to health promotion.
3. Appreciate the client as a holistic individual.
4. Perform physical, psychosocial assessment of Medical – Surgical patients.
5. Apply Nursing process in providing care to patients.
6. Integrate the concept of family centered nursing care with associated disorder such as genetic, congenital and long-term illness.
7. Recognize and manage emergencies with Medical- Surgical patients.
8. Describe various recent technologies & treatment modalities in the management of critically ill patients.
9. Appreciate the legal & ethical issues relevant to Medical – Surgical Nursing.
10. Prepare a design for layout and management of Medical – Surgical Units.
11. Appreciate the role of alternative systems of Medicine in care of patients.

12. Incorporate evidence based Nursing practice and identify the areas of research in the field of Medical – Surgical Nursing.

13. Recognize the role of Nurse practitioner as a member of the Medical – Surgical health team.

14. Teach Medical – Surgical Nursing to undergraduate nursing students & in-service nurses.

**COURSE CONTENT:**

Unit	Hours	Content
I	5	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical development of Medical- Surgical Nursing in India.</li> <li><input type="checkbox"/> Current status of health and disease burden in India.</li> <li><input type="checkbox"/> Current concept of health.</li> <li><input type="checkbox"/> Trends &amp; issues in Medical – Surgical Nursing.</li> <li><input type="checkbox"/> Ethical &amp; cultural issues in Medical – Surgical Nursing.</li> <li><input type="checkbox"/> Rights of patients.</li> <li><input type="checkbox"/> National health policy, special laws &amp; ordinances relating to older People.</li> <li><input type="checkbox"/> National goals.</li> <li><input type="checkbox"/> Five year plans.</li> <li><input type="checkbox"/> National health programs related to adult health.</li> </ul>
II	20	<p><b>Health Assessment of patients</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> History taking.</li> <li><input type="checkbox"/> Physical examination of various systems.</li> <li><input type="checkbox"/> Nutritional assessment.</li> <li><input type="checkbox"/> Related investigations and diagnostic assessment.</li> </ul>
III	5	<p><b>Care in hospital settings:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Ambulatory care.</li> <li><input type="checkbox"/> Acute and Critical care.</li> <li><input type="checkbox"/> Long term care.</li> <li><input type="checkbox"/> Home Health Care.</li> <li><input type="checkbox"/> Characteristics, care models, practice settings, interdisciplinary team.</li> <li><input type="checkbox"/> Hospitalization- effects of hospitalization on the patient &amp; family.</li> <li><input type="checkbox"/> Stressors &amp; reactions related to disease process.</li> <li><input type="checkbox"/> Nursing care using Nursing process approach.</li> </ul>
IV	10	<p><b>Management of patients with disorders of Gastro intestinal tract</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review of anatomy and physiology.</li> </ul>

		<input type="checkbox"/> Common Disorders-etiology, Patho physiology, Clinical manifestations, complications, prognosis. <input type="checkbox"/> Health assessment- History taking, physical examination, investigation and diagnostic assessment. <input type="checkbox"/> Treatment modalities and trends. <input type="checkbox"/> Nursing management. <input type="checkbox"/> Related research studies. <input type="checkbox"/> Evidence based nursing practice. <input type="checkbox"/> Rehabilitation and follow-up.
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V	10	<b>Management of patients with disorders of nervous system</b> <input type="checkbox"/> Review of anatomy and physiology. <input type="checkbox"/> Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. <input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment. <input type="checkbox"/> Treatment modalities and trends. <input type="checkbox"/> Nursing management. <input type="checkbox"/> Related research studies. <input type="checkbox"/> Evidence based nursing practice. <input type="checkbox"/> Rehabilitation and follow-up.
VI	10	<b>Management of patients with disorders of respiratory system</b> <input type="checkbox"/> Review of anatomy and physiology. <input type="checkbox"/> Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. <input type="checkbox"/> Health assessment-History taking, physical examination, Investigation and diagnostic assessment. <input type="checkbox"/> Treatment modalities and trends. <input type="checkbox"/> Nursing management. <input type="checkbox"/> Related research studies <input type="checkbox"/> Evidence based nursing practice <input type="checkbox"/> Rehabilitation and follow-up .
VII	10	<b>Management of patients with disorders of cardio vascular system</b> <input type="checkbox"/> Review of anatomy and physiology. <input type="checkbox"/> Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis <input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment. <input type="checkbox"/> Treatment modalities and trends. <input type="checkbox"/> Nursing management. <input type="checkbox"/> Related research studies. <input type="checkbox"/> Evidence based nursing practice.



		<input type="checkbox"/> Rehabilitation and follow-up.
VIII	5	<b>Management of patients with disorders of blood</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review of anatomy and physiology.</li> <li><input type="checkbox"/> Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li><input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li><input type="checkbox"/> Treatment modalities and trends.</li> <li><input type="checkbox"/> Nursing management.</li> <li><input type="checkbox"/> Related research studies.</li> <li><input type="checkbox"/> Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
IX	10	<b>Management of patients with disorders of genito Urinary system</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review of anatomy and physiology.</li> <li><input type="checkbox"/> Common Disorders-etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li><input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li><input type="checkbox"/> Treatment modalities and trends.</li> <li>Nursing management.</li> <li><input type="checkbox"/> Related research studies.</li> <li><input type="checkbox"/> Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
X	10	<b>Management of patients with disorders of endocrine system</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review of anatomy and physiology.</li> <li><input type="checkbox"/> Common Disorders- etiology, Patho physiology,Clinical manifestations, complications, prognosis.</li> <li><input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li><input type="checkbox"/> Treatment modalities and trends.</li> <li><input type="checkbox"/> Nursing management.</li> <li><input type="checkbox"/> Related research studies.</li> <li><input type="checkbox"/> Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
XI	8	<b>Management of patients with disorders of musculo- skeletal system</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review of anatomy and physiology.</li> <li><input type="checkbox"/> Common Disorders-etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li><input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li><input type="checkbox"/> Treatment modalities and trends.</li> <li>Nursing management.</li> <li><input type="checkbox"/> Related research studies.</li> </ul>

		<input type="checkbox"/> Evidence based nursing practice. <input type="checkbox"/> Rehabilitation and follow-up.
XII	8	<b>Management of patients with disorders of integumentary system</b> Review of anatomy and physiology. <input type="checkbox"/> Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. <input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment. <input type="checkbox"/> Treatment modalities and trends. <input type="checkbox"/> Nursing management. <input type="checkbox"/> Related research studies. <input type="checkbox"/> Evidence based nursing practice. <input type="checkbox"/> Rehabilitation and follow-up.
XIII	5	<b>Management of patients with disorders of Eye and ENT system</b> Review of anatomy and physiology. <input type="checkbox"/> Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. <input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment. <input type="checkbox"/> Treatment modalities and trends. <input type="checkbox"/> Nursing management. <input type="checkbox"/> Related research studies. <input type="checkbox"/> Evidence based nursing practice. <input type="checkbox"/> Rehabilitation and follow-up.
XIV	8	<b>Management of patients with disorders of reproductive system</b> Review of anatomy and physiology. <input type="checkbox"/> Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis. <input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment. <input type="checkbox"/> Treatment modalities and trends. <input type="checkbox"/> Nursing management. <input type="checkbox"/> Related research studies. <input type="checkbox"/> Evidence based nursing practice. <input type="checkbox"/> Rehabilitation and follow-up.
XV	8	<b>Geriatric nursing</b> <input type="checkbox"/> Nursing Assessment-History and Physical assessment. <input type="checkbox"/> Ageing; <input type="checkbox"/> Demography; Myths and realities. <input type="checkbox"/> Concepts and theories of ageing. <input type="checkbox"/> Cognitive Aspects of Ageing. <input type="checkbox"/> Normal biological ageing.

		<ul style="list-style-type: none"> <li><input type="checkbox"/> Age related body systems changes.</li> <li><input type="checkbox"/> Psychosocial Aspects of Aging.</li> <li><input type="checkbox"/> Medications and elderly.</li> <li><input type="checkbox"/> Stress &amp; coping in older adults.</li> <li><input type="checkbox"/> Common Health Problems &amp; Nursing Management;</li> <li><input type="checkbox"/> Psychosocial and Sexual.</li> <li><input type="checkbox"/> Abuse of elderly.</li> <li><input type="checkbox"/> Role of nurse for care of elderly: ambulation, nutritional, Communicational, psychosocial and spiritual.</li> <li><input type="checkbox"/> Role of nurse for caregivers of elderly.</li> <li><input type="checkbox"/> Role of family and formal and non formal caregivers.</li> <li><input type="checkbox"/> Use of aids and prosthesis (hearing aids, dentures,</li> <li><input type="checkbox"/> Legal &amp; Ethical Issues.</li> <li><input type="checkbox"/> Provisions and Programmes for elderly; privileges, Community Programs and health services;</li> <li><input type="checkbox"/> Home and institutional care.</li> <li><input type="checkbox"/> Issues, problems and trends.</li> </ul>
XVI	8	<p><b>Management of patients with communicable and sexually transmitted diseases:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review of immune system.</li> <li><input type="checkbox"/> Common Disorders of immune system – HIV/AIDS.</li> <li><input type="checkbox"/> Review of infectious disease process.</li> <li><input type="checkbox"/> Communicable Diseases- etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li><input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li><input type="checkbox"/> Treatment modalities and trends</li> </ul> <p>Nursing management.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Related research studies.</li> <li><input type="checkbox"/> Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
XVII	8	<p><b>Emergency, trauma and multi-system organ failure</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> DIC (disseminated intravascular coagulation)</li> <li><input type="checkbox"/> Trauma, burns, poisoning</li> <li><input type="checkbox"/> Etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li><input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>

## Practical

**Total = 660 Hours**  
**1 Week = 30 Hours**

<b>Dept/Unit</b>	<b>No. of Week</b>	<b>Total Hours</b>
General Medical Ward	4	120 Hours
General Surgical Ward	4	120 Hours
ICUs	4	120 Hours
Oncology	2	60 Hours
Ortho	2	60 Hours
Cardio	2	60 Hours
Emergency Department	2	60 Hours
Neuro	2	60 Hours
<b>Total</b>	<b>22 Weeks</b>	<b>660 Hours</b>

### **Student Activities:**

- Clinical presentations
- History taking
- Health Assessment
- Nutritional Assessment
- Health Education related to disease conditions
- Case studies
- Project work
- Field visits

## **CLINICAL SPECIALITY-I OBSTETRIC AND GYNAECOLOGICAL NURSING**

Placement: 1st year

Hours of Instruction  
Theory: 150 Hours.  
Practical: 650 Hours.  
Total: 800 Hours.

### **Course Description**

This course is designed to assist students in developing expertise and in-depth understanding in the field of Obstetric and Gynaecological Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function as an independent midwifery practitioner. It will further enable the student to function as educator, manager, and researcher in the field of Obstetric and Gynaecological nursing

### **Objectives**

At the end of the course the students will be able to:

1. Appreciate the trends in the field of midwifery, obstetrics and gynaecology as a speciality.
2. Describe the population dynamics and indicators of maternal and child health
3. Describe the concepts of biophysical, psychological and spiritual aspects of normal pregnancy, labor and puerperium.
4. Provide comprehensive nursing care to women during reproductive period and newborns.
5. Integrate the concepts of family centered nursing care and nursing process approach in obstetric and gynaecological nursing.
6. Identify and analyze the deviations from normal birth process and refer appropriately.
7. Describe the pharmacological agents, their effects during pregnancy, child birth, puerperium, lactation and the role of nurse
8. Counsel adolescents, women and families on issues pertaining to pregnancy, child birth and lactation
9. Describe the role of various types of complementary and alternative therapies in obstetric and gynaecological nursing.
10. Incorporate evidence based nursing practice and identify the areas of research in the field of obstetric and gynaecological nursing.

11. Describe the recent advancement in contraceptive technology and birth control measures

12. Appreciate the legal and ethical issues pertaining to obstetric and gynaecological nursing.

**Course Content**

Unit	Hours	Content
I	10	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical and contemporary perspectives</li> <li><input type="checkbox"/> Epidemiological aspects of maternal and child health</li> <li><input type="checkbox"/> Magnitude of maternal and child health problems</li> <li><input type="checkbox"/> Issues of maternal and child health : Age, Gender, Sexuality, psycho Socio cultural factors</li> <li><input type="checkbox"/> Preventive obstetrics</li> <li><input type="checkbox"/> National health and family welfare programmes related to maternal and child health: health care delivery system- National Rural health mission, Role of NGO's</li> <li><input type="checkbox"/> Theories, models and approaches applied to midwifery practice</li> <li><input type="checkbox"/> Role and scope of midwifery practice: Independent Nurse midwifery practitioner</li> <li><input type="checkbox"/> Legal and Ethical issues: Code of ethics and standards of midwifery practice, standing orders</li> <li><input type="checkbox"/> Evidence based midwifery practice</li> <li><input type="checkbox"/> Research priorities in obstetric and gynaecological nursing.</li> </ul>
II	15	<p><b>Human reproduction</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review of anatomy and physiology of human reproductive system: male and female</li> <li><input type="checkbox"/> Hormonal cycles</li> <li><input type="checkbox"/> Embryology</li> <li><input type="checkbox"/> Genetics, teratology and counseling</li> <li><input type="checkbox"/> Clinical implications</li> </ul>
III	25	<p><b>Pregnancy</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Maternal adaptation : Physiological</li> </ul> <p>Maternal adaptation : Physiological, psychosocial</p> <ul style="list-style-type: none"> <li>• Assessment – Maternal and foetal measures</li> </ul> <p>Maternal measures: History taking , examination-General, physical and obstetrical measure, identification of high risk,</p> <ul style="list-style-type: none"> <li>• Foetal measure- clinical parameters, biochemical- human estriol, Maternal Serum Alfa Feto Protein, Acetyl Choline esterase (AchE), Triple Test Aminocentesis, Cordocentesis, chorionic villus sampling (CVS)),</li> </ul>

		<ul style="list-style-type: none"> <li>• Biophysical- (US IMAGING, Foetal movement count, Ultra</li> </ul>
		<p>Sonography, Cardiotocography, cardiotomography, Non Stress Test(NST), Contraction stress test(CST), amnioscopy, foetoscopy,</p> <ul style="list-style-type: none"> <li>• Radiological examination,</li> </ul> <ul style="list-style-type: none"> <li><input type="checkbox"/> Interpretation of diagnostic tests and nursing implications</li> <li><input type="checkbox"/> Nursing management of the pregnant women, minor disorders of pregnancy and management, preparation for child birth and parenthood, importance of institutional delivery , choice of birth setting, importance and mobilizing of transportation, prenatal counseling, role of nurse and crisis intervention, identification of high risk pregnancy and refer</li> <li><input type="checkbox"/> Alternative/complementary therapies</li> </ul>
IV	25	<p><b>Normal Labour and nursing management:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Essential factors of labour</li> <li><input type="checkbox"/> Stages and onset</li> </ul> <p><b>First stage: Physiology of normal labour</b></p> <ul style="list-style-type: none"> <li>• Use of partograph: Principles, use and critical analysis, evidence based studies</li> <li>• Analgesia and anaesthesia in labour</li> <li>• Nursing management</li> </ul> <p><b>Second stage</b></p> <ul style="list-style-type: none"> <li>• Physiology , intrapartum monitoring</li> <li>• Nursing management.</li> <li>• Resuscitation , immediate newborn care and initiate breast feeding (Guidelines of National neonatology forum of India)</li> </ul> <p>Third stage</p> <ul style="list-style-type: none"> <li>• Physiology and nursing management</li> </ul> <p><b>Fourth stage – Observation, critical analysis and Nursing management.</b></p> <ul style="list-style-type: none"> <li>• Various child birth practice: water birth, position change etc</li> <li>• Evidence based practice in relation to labour intervention</li> </ul> <p><b>Role of nurse midwifery practitioner</b></p> <ul style="list-style-type: none"> <li>• Alternative/complementary therapies</li> </ul>
V	20	<p><b>Normal puerperium and nursing management</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Physiology of puerperium</li> <li><input type="checkbox"/> Physiology of lactation, lactation management, exclusive breast feeding ,Baby friendly hospital initiative(BFHI)</li> <li><input type="checkbox"/> Assessment of postnatal women.</li> <li><input type="checkbox"/> Minor discomforts and complications of puerperium</li> <li><input type="checkbox"/> Management of mothers during puerperium: Postnatal exercises Rooming in, bonding, warm chain</li> <li><input type="checkbox"/> Evidence based studies</li> </ul>

		<b>Role of nurse midwifery practitioner</b> <ul style="list-style-type: none"> <li>• Alternative/complementary therapies</li> </ul>
VI	20	<b>Normal Newborn</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Physiology and characteristics of normal newborn</li> <li><input type="checkbox"/> Physical and Behavioural assessment of newborn</li> <li><input type="checkbox"/> Needs of newborn</li> <li><input type="checkbox"/> Essential newborn care: Exclusive breast feeding, Immunization, Hygiene measures, Newborn nutrition</li> <li><input type="checkbox"/> Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU</li> <li><input type="checkbox"/> Observation and care of newborn</li> <li><input type="checkbox"/> Parenting process</li> </ul>
VII	10	<b>Pharmacodynamics in obstetrics</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Drugs used in pregnancy, labour, post partum and newborn</li> <li><input type="checkbox"/> Calculation of drug dose and administration</li> <li><input type="checkbox"/> Effects of drugs used</li> <li><input type="checkbox"/> Anaesthesia and analgesia in obstetrics</li> <li><input type="checkbox"/> Roles and responsibilities of midwifery nurse practitioner</li> <li><input type="checkbox"/> Standing orders and protocols and use of selected life saving drugs and interventions of obstetric emergencies approved by the MOHFW</li> </ul>
VIII	10	<b>Family welfare services</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Population dynamics</li> <li><input type="checkbox"/> Demography trends: vital statistics, calculation of indicators especially maternal and neonatal mortality rates and problems and other health problems</li> <li><input type="checkbox"/> Recent advancement in contraceptive technology</li> <li><input type="checkbox"/> Role of nurses in family welfare programmes in all settings</li> <li><input type="checkbox"/> Role of independent nurse midwifery practitioner</li> <li><input type="checkbox"/> Family life education</li> <li><input type="checkbox"/> Evidence based studies</li> <li><input type="checkbox"/> Information, Education and Communication(IEC)</li> <li><input type="checkbox"/> Management information and evaluation system(MIES)</li> <li><input type="checkbox"/> Teaching and supervision of health team members</li> </ul>
IX	5	<b>Infertility</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Primary and secondary causes</li> <li><input type="checkbox"/> Diagnostic procedures</li> <li><input type="checkbox"/> Counseling: ethical and legal aspects of assisted reproductive technology(ART)</li> <li><input type="checkbox"/> Recent advancement in infertility management.</li> <li><input type="checkbox"/> Adoption procedures</li> </ul>



		Role of nurses in infertility management.
X	5	<b>Menopause</b> <input type="checkbox"/> Physiological, psychological and social aspects <input type="checkbox"/> Hormone Replacement Therapy <input type="checkbox"/> Surgical menopause <input type="checkbox"/> Counseling and guidance Role of midwifery nurse practitioner
XI	5	<b>Abortion</b> <input type="checkbox"/> Types, causes <input type="checkbox"/> Legislations, Clinical rights and professional responsibility <input type="checkbox"/> Abortion procedures <input type="checkbox"/> Complications <input type="checkbox"/> Nursing management Role of midwifery nurse practitioner

## Practical

**Total = 660 Hours**  
**1 week = 30 Hours**

S.No.	Deptt./Unit	No. of Week	Total Hours
1	Anetenatal Wards & OPDs	4	120
2	Labour Room	5	150
3	Postnatal Ward	2	60
4	Family Planning Clinics	2	60
5	PHC/Rural maternity settings	4	120
6	Gynae	2	60
7	Maternity OT	2	60
8	NICU	1	30
<b>Total</b>		<b>22 Weeks</b>	<b>660Hours</b>

## Procedures observed

- Diagnostic
- Medical termination of pregnancy,

### **Procedures performed**

- Antenatal assessment-20
- Postnatal assessment-20
- Assessment during labour: use of partograph - 20
- Per vaginal examination-20
- Conduct of normal delivery-20
- Episiotomy and suturing-10
- Setting up of delivery areas
- Insertion of intra uterine devices (copper T)

### **Others**

- Identification of high risk women and referral
- Health education: to women and their families
- Motivation of couples for Planned Parenthood

## **CLINICAL SPECIALITY –I CHILD HEALTH (PAEDIATRIC) NURSING**

Placement: Ist Year

Hours of Instruction  
Theory 150 Hours  
Practical 650 Hours  
Total: 800 Hours

### **Course Description**

This course is designed to assist students in developing expertise and in-depth understanding in the field of Pediatric Nursing. It will help students to appreciate the child as a holistic individual and develop skill to function as neonatal and pediatric nurse specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric nursing.

### **Objectives**

At the end of the course the students will be able to:

1. Appreciate the history and developments in the field of pediatrics and Pediatric nursing as a specialty
2. Apply the concepts of growth and development in providing care to the pediatric clients and their families.
3. Appreciate the child as a holistic individual
4. Perform physical, developmental, and nutritional assessment of Pediatric clients
5. Apply nursing process in providing nursing care to neonates & children
6. Integrate the concept of family centered pediatric nursing care with related areas such as genetic disorders, congenital malformations and long term illness.
7. Recognize and manage emergencies in neonates
8. Describe various recent technologies and treatment modalities in the management of high risk neonates
9. Appreciate the legal and ethical issues pertaining to pediatric and neonatal nursing
10. Prepare a design for layout and management of neonatal units
11. Incorporate evidence based nursing practice and identify the areas of research in the field of pediatric/neonatal nursing
12. Recognize the role of pediatric nurse practitioner and as a member of the pediatric and neonatal health team

13. Teach pediatric nursing to undergraduate students & in-service nurses

Unit	Hours	Content
I	10	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical development of Pediatrics and Pediatric Nursing in India;</li> <li><input type="checkbox"/> Current status of child health in India;</li> <li><input type="checkbox"/> Trends in Pediatrics and Pediatric Nursing,</li> <li><input type="checkbox"/> Ethical and cultural issues in pediatric care</li> <li><input type="checkbox"/> Rights of children</li> <li><input type="checkbox"/> National health policy for children, special laws and Ordinances relating to children.</li> <li><input type="checkbox"/> National goals,</li> <li><input type="checkbox"/> Five year plans,</li> <li><input type="checkbox"/> National health programs related to child health.</li> </ul>
II	10	<p><b>Assessment of pediatric clients</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> History taking</li> <li><input type="checkbox"/> Developmental assessment</li> <li><input type="checkbox"/> Physical assessment</li> <li><input type="checkbox"/> Nutritional assessment</li> <li><input type="checkbox"/> Family assessment</li> </ul>
III	10	<p><b>Hospitalized child</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Meaning of hospitalization of the child, preparation for hospitalization, effects of hospitalization on the child and family</li> <li><input type="checkbox"/> Stressors and reactions related to developmental stages, play activities for ill hospitalized child.</li> <li><input type="checkbox"/> Nursing care of hospitalized child and family -principles and practices</li> </ul>
IV	15	<p><b>Pre-natal Pediatrics</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Embryological and fetal development, Prenatal factors influencing growth and development of fetus,</li> <li><input type="checkbox"/> Genetic patterns of common pediatric disorders, chromosomal aberrations, genetic assessment and counseling legal and ethical aspects of genetic, screening and counseling role of nurse in genetic counseling,</li> <li><input type="checkbox"/> Importance of prenatal care and role of pediatric nurse.</li> </ul>

V	15	<b>Growth and Development of children</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Principles of growth and development,</li> <li><input type="checkbox"/> Concepts and theories of growth and development,</li> <li><input type="checkbox"/> Developmental tasks and special needs from infancy to adolescence, developmental milestones,</li> <li><input type="checkbox"/> Assessment of growth and development of pediatric clients,</li> <li><input type="checkbox"/> Factors affecting growth and development</li> </ul>
VI	15	<b>Behavioral Pediatrics and Pediatric Nursing</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Parent child relationship,</li> <li><input type="checkbox"/> Basic behavioral pediatric principles and specific behavioral pediatric concepts/disorders- maternal deprivation, failure to thrive, child abuse, the battered child,</li> <li><input type="checkbox"/> Common behavioral problems and their management,</li> <li><input type="checkbox"/> Child guidance clinic.</li> </ul>
VII	15	<b>Preventive Pediatrics and Pediatric Nursing</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concept, aims and scope of preventive pediatrics,</li> <li><input type="checkbox"/> Maternal health and its influence on child health antenatal aspects of preventive pediatrics,</li> <li><input type="checkbox"/> Immunization, expanded program on immunization/ universal immunization program and cold chain,</li> <li><input type="checkbox"/> Nutrition and nutritional requirements of children, changing patterns of feeding, baby- friendly hospital initiative and exclusive breast feeding,</li> <li><input type="checkbox"/> Health education, nutritional education for children</li> <li><input type="checkbox"/> Nutritional programs</li> <li><input type="checkbox"/> National and international organizations related to child health,</li> </ul> <p>Role of pediatric nurse in the hospital and comm</p>
VIII	30	<b>Neonatal Nursing</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> New born baby- profile and characteristics of the new born,</li> <li><input type="checkbox"/> Assessment of the new born,</li> <li><input type="checkbox"/> Nursing care of the new born at birth, care of the new born and family,</li> <li><input type="checkbox"/> High risk newborn- pre term and term neonate and growth retarded babies,</li> <li><input type="checkbox"/> Identification and classification of neonates with infections, HIV &amp; AIDS, Ophthalmia neonatorum, congenital syphilis.</li> <li><input type="checkbox"/> High risk new born- Identification, classification and nursing management</li> <li><input type="checkbox"/> Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU.</li> </ul>

IX	30	IMNCI (Integrated management of neonatal and childhood illnesses)
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### Practical

**Total = 660Hours**  
**1 Week = 30Hours**

S.No.	Deptt./Unit	No. of Week	Total Hours
1	Pediatric Medicine Ward	4	120 Hours
2	Pediatric Surgery Ward	4	120 Hours
3	Labor Room/Maternity Ward	2	60 Hours
4	Pediatric OPD	2	60 Hours
5	NICU	4	120 Hours
6	Creche	1	30 Hours
7	Child Guidance Clinic	1	30 Hours
8	Community	4	120 Hours
<b>Total</b>		<b>22 Weeks</b>	<b>660 Hours</b>

### Student Activities

- Clinical presentations
- Growth & developmental assessment
- Assessment & prescription of nursing interventions for sick children
- Health education related to disease conditions
- Nutritional assessment
- Project work
- Field visits

## **CLINICAL SPECIALITY – I MENTAL HEALTH (PSYCHIATRIC) NURSING**

Placement: 1st Year

Hours of Instruction  
Theory 150 hours  
Practical 650 hours  
Total: 800 hours

### **Course Description**

This course is designed to assist students in developing expertise and in-depth understanding in the field of Psychiatric Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function Psychiatric nurse specialist. It will further enable the student to function as educator, manager, and researcher in the field of Psychiatric nursing.

### **Objectives**

At the end of the course the students will be able to:

1. Appreciate the trends and issues in the field of psychiatry and psychiatric nursing.
2. Explain the dynamics of personality development and human behaviour.
3. Describe the concepts of psychobiology in mental disorders and its implications for psychiatric nursing
4. Demonstrate therapeutic communications skills in all interactions
5. Demonstrate the role of psychiatric nurse practitioner in various therapeutic modalities
6. Establish and maintain therapeutic relationship with individual and groups
7. Uses assertive techniques in personal and professional actions
8. Promotes self-esteem of clients, others and self
9. Apply the nursing process approach in caring for patients with mental disorders
10. Describe the psychopharmacological agents, their effects and nurses role
11. Recognize the role of psychiatric nurse practitioner and as a member of the psychiatric and mental health team
12. Describe various types of alternative system of medicines used in psychiatric settings
13. Incorporate evidence based nursing practice and identify the areas of research in the field of psychiatric nursing

## Course Content

Unit	Hours	Content
I	15	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Mental Health and Mental Illness</li> <li><input type="checkbox"/> Historical perspectives</li> <li><input type="checkbox"/> Trends, issues and magnitude</li> <li><input type="checkbox"/> Contemporary practices</li> <li><input type="checkbox"/> Mental health laws/Acts</li> <li><input type="checkbox"/> National mental health program -National mental health authority, state mental health authority</li> <li><input type="checkbox"/> Human rights of mentally ill</li> <li><input type="checkbox"/> Mental Health/ Mental Illness Continuum</li> <li><input type="checkbox"/> Classification of mental illnesses-ICD, DSM</li> <li><input type="checkbox"/> Standards of Psychiatric nursing</li> <li><input type="checkbox"/> Challenges and Scope of psychiatric nursing</li> <li><input type="checkbox"/> Multi-disciplinary team and role of nurse</li> </ul> <p>Role of psychiatric nurse- extended and expanded</p>
II	10	<p><b>Concepts of Psychobiology</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> The Nervous System: <ul style="list-style-type: none"> <li>• An Anatomical Review</li> <li>• The Brain and limbic system</li> <li>• Nerve Tissue</li> <li>• Autonomic Nervous system</li> <li>• Neurotransmitters</li> </ul> </li> <li><input type="checkbox"/> Neuroendocrinology <ul style="list-style-type: none"> <li>• Pituitary, Thyroid Gland</li> <li>• Circadian Rhythms</li> </ul> </li> <li><input type="checkbox"/> Genetics</li> <li><input type="checkbox"/> Neuro psychiatric disorders</li> <li><input type="checkbox"/> Psychoimmunology <ul style="list-style-type: none"> <li>• Normal Immune response</li> <li>• Implications for psychiatric Illness</li> </ul> </li> <li><input type="checkbox"/> Implications for Nursing</li> </ul>
III	10	<p><b>Theories of Personality Development and relevance to nursing practice</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Psychoanalytic Theory- Freud's</li> <li><input type="checkbox"/> Interpersonal Theory-Sullivan's</li> <li><input type="checkbox"/> Theory of Psychosocial Development-Erikson's</li> <li><input type="checkbox"/> Theory of object relations</li> <li><input type="checkbox"/> Cognitive Development Theory</li> </ul>



		<input type="checkbox"/> Theory of Moral Development <input type="checkbox"/> A Nursing Model-Hildegard E.Peplau
IV	5	<b>Stress and its management</b> <input type="checkbox"/> An introduction to the concepts of stress <input type="checkbox"/> Psychological Adaptation to stress <input type="checkbox"/> Stress as a Biological Response. <input type="checkbox"/> Stress as an Environmental Event. Stress as Transaction between the Individual and the Environment. <input type="checkbox"/> Stress management.
V	10	<b>Therapeutic communication and interpersonal relationship</b> <input type="checkbox"/> Review communication process, factors affecting communication <input type="checkbox"/> Communication with individuals and in groups <input type="checkbox"/> Techniques of therapeutic communication-touch therapy <input type="checkbox"/> Barrier of communication with specific reference to psychopathology <input type="checkbox"/> Therapeutic attitudes <input type="checkbox"/> Dynamics of a therapeutic Nurse-client relationship; Therapeutic use of self Gaining self-awareness <input type="checkbox"/> Therapeutic nurse-patient relationship its phases ; Conditions essential to development of a therapeutic relationship <input type="checkbox"/> Therapeutic impasse and its management
VI	10	<b>Assertive Training</b> <input type="checkbox"/> Assertive Communication <input type="checkbox"/> Basic Human Rights <input type="checkbox"/> Response Patterns • (Nonassertive Behavior • Assertive Behavior • Aggressive Behavior • Passive-Aggressive Behavior) <input type="checkbox"/> Behavioral Components of Assertive Behavior <input type="checkbox"/> Techniques that Promote Assertive Behavior <input type="checkbox"/> Thought-Stopping Techniques Method Role of The Nurse
VII	10	Promoting Self-Esteem <input type="checkbox"/> Components of Self-Concept <input type="checkbox"/> The Development of Self-Esteem <input type="checkbox"/> The Manifestations of Low-Self-Esteem <input type="checkbox"/> Boundaries Role of The Nurse

VIII	5	<p>Women and Mental Health</p> <ul style="list-style-type: none"> <li>• Normal reaction to conception, pregnancy and puerperium</li> <li>• Problems related to conception, pregnancy and puerperium and its management.</li> <li>• Counselling – Premarital, marital and genetic</li> </ul>
IX	10	<p><b>The nursing process in psychiatric/mental health nursing</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Mental health assessment- History taking, mental status examination</li> <li><input type="checkbox"/> Physical and neurological examination</li> <li><input type="checkbox"/> Psychometric assessment</li> <li><input type="checkbox"/> Investigations, Diagnosis and Differential diagnosis</li> <li><input type="checkbox"/> Interpretation of investigations</li> <li><input type="checkbox"/> Nurse’s role</li> <li><input type="checkbox"/> Nursing case management</li> <li>• Critical pathways of care</li> <li><input type="checkbox"/> Documentation</li> <li>• Problem-oriented recording</li> <li>• Focus charting</li> <li>• The PIE method</li> </ul>
X	35	<p><b>Psycho social and physical therapies</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Individual therapy</li> <li><input type="checkbox"/> Behavioural Therapy- Relaxation therapy, cognitive therapy, positive- negative reinforcement, bio-feedback, guided imagery, ab-reactive therapy</li> <li><input type="checkbox"/> Group Therapy</li> <li><input type="checkbox"/> Family Therapy</li> <li><input type="checkbox"/> Milieu Therapy</li> <li><input type="checkbox"/> The Therapeutic Community</li> <li><input type="checkbox"/> Occupational therapy</li> <li><input type="checkbox"/> Recreational therapy</li> <li><input type="checkbox"/> Play therapy</li> <li><input type="checkbox"/> Music therapy</li> <li><input type="checkbox"/> Light therapy</li> <li><input type="checkbox"/> Color therapy</li> <li><input type="checkbox"/> Aroma therapy</li> </ul>
XI	5	<p><b>Electroconvulsive Therapy</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical Perspectives</li> <li><input type="checkbox"/> Indications</li> <li><input type="checkbox"/> Contraindications</li> <li><input type="checkbox"/> Mechanisms of Action</li> <li><input type="checkbox"/> Side Effects</li> <li><input type="checkbox"/> Risks Associated with Electroconvulsive Therapy</li> <li><input type="checkbox"/> The Role of The Nurse in Electroconvulsive Therapy</li> </ul>

XII	10	<b>Psychopharmacology</b> <input type="checkbox"/> Historical Perspectives <input type="checkbox"/> Role of a Nurse in Psychopharmacological Therapy <ul style="list-style-type: none"> <li>• Antianxiety Agents</li> <li>• Antidepressants Agents</li> <li>• Mood stabilizers</li> <li>• Antipsychotics</li> <li>• Sedative-Hypnotics</li> <li>• Central Nervous System Stimulants</li> </ul> <input type="checkbox"/> Future developments
XIII	15	Alternative systems of medicine in mental health <input type="checkbox"/> Types of Therapies <ul style="list-style-type: none"> <li>• Herbal Medicine</li> <li>• Unani</li> <li>• Siddha</li> <li>• Homeopathic</li> <li>• Acupressure and Acupuncture</li> <li>• Diet and Nutrition</li> <li>• Chiropractic Medicine</li> <li>• Therapeutic Touch and Massage</li> <li>• Yoga</li> <li>• Pet Therapy</li> </ul>

## Practical

**Total = 660 Hours**  
**1 Week = 30 Hours**

S.No.	Area of Posting	No. of Week	Total Hours
1	Acute Psychiatric Ward	4	120 Hours
2	Chronic Psychiatric ward	4	120 Hours
3	Psychiatric Emergency Unit	2	60 Hours
4	O.P.D	2	60 Hours
5	Family Psychiatric Unit	2	60 Hours
6	Community Mental Health Unit	4	120 Hours
7	Rehabilitation / Occupational Therapy Unit/Half way home		
	/ Day care centre	4	120 Hours
<b>Total</b>		<b>22 Weeks</b>	<b>660 Hours</b>

**Student Activities**

- History taking
- Mental health assessment
- Psychometric assessment
- Personality assessment
- Process recording
- Therapies- Group Therapy
- Family Therapy
- Psychotherapy
- Milieu Therapy
- The Therapeutic Community
- Occupational therapy
- Recreational therapy
- Play therapy
- Music therapy
- Pet therapy
- Counselling
- Assisted ECT
- Assisted EEG
- Case studies
- Case presentation
- Project work
- Socio and psycho drama
- Field visits

## CLINICAL SPECIALITY- I COMMUNITY HEALTH NURSING

Placement: 1st Year

Hours of Instructions

Theory 150 hours

Practical 650 hours

Total 800 hours

### **Course Description**

The course is designed to assist students in developing expertise and in-depth understanding in the field of Community Health Nursing. It would help students to appreciate holistic life style of individuals, families & groups and develop skills to function as Community Health Nurse specialist/practitioner. It would further enable student to function as an educator, manager and researcher in the field of Community Health nursing.

### **Objectives**

At the end of the course, the student will be able to:

1. Appreciate the history and development in the field of Community Health and Community Health Nursing.
2. Appreciate role of individuals and families in promoting health of the Community.
3. Perform physical, developmental and nutritional assessment of individuals, families and groups.
4. Apply the concepts of promotive, preventive, curative and Rehabilitative aspects of health while providing care to the people.
5. Apply nursing process approach while providing care to individuals, families, groups and community.
6. Integrate the concepts of family centered nursing approach while providing care to the community.
7. Recognize and participate in the management of emergencies, epidemics and disasters.
8. Apply recent technologies and care modalities while delivering community health nursing care.
9. Appreciate legal and ethical issues pertaining to community health nursing care.
10. Conduct community health nursing care projects.

11. Participate in planning, implementation and evaluation of various national health and family welfare programmes at local, state and the national level.
12. Incorporate evidence based nursing practice and identify the areas of research in the community settings. Participate effectively as a member of Community Health team.
14. Coordinate and collaborate with various agencies operating in the community by using inter-sectoral approach.
15. Teach community health nursing to undergraduates, in-service nurses and the community health workers.
16. Demonstrate leadership and managerial abilities in community health nursing practice.

### Course content

unit	hours	content
I	10	<p>Introduction</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical development of Community Health and Community health Nursing- World and India, various health and family welfare committees</li> <li><input type="checkbox"/> Current status, trends and challenges of Community Health Nursing</li> <li><input type="checkbox"/> Health status of the Community-community diagnosis</li> <li><input type="checkbox"/> Scope of Community health Nursing practice</li> <li><input type="checkbox"/> Ethical and legal issues</li> <li><input type="checkbox"/> Socio-cultural issues in Community health Nursing</li> <li><input type="checkbox"/> National Policies, plans and programmes <ul style="list-style-type: none"> <li>• National health policy</li> <li>• National Population policy</li> <li>• National Health and welfare Programmes</li> <li>• National Health goals/ indicators/ Millennium developmental goals(MDG)/ Strategies</li> <li>• Planning process: Five year plans</li> <li>• National Rural Health Mission</li> <li>• Panchayat raj institutions</li> </ul> </li> </ul>
II	10	<p>Health</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concepts, issues</li> <li><input type="checkbox"/> Determinants</li> <li><input type="checkbox"/> Measurements</li> <li><input type="checkbox"/> Alternate systems for health promotion and management of health problems</li> <li><input type="checkbox"/> Health economics</li> </ul>

		<input type="checkbox"/> Health technology <input type="checkbox"/> Genetics and health <input type="checkbox"/> Waste disposal <input type="checkbox"/> Eco system
III	15	Population dynamics and control <input type="checkbox"/> Demography <input type="checkbox"/> Transition and theories of population <input type="checkbox"/> National population policy <input type="checkbox"/> National population programmes <input type="checkbox"/> Population control and related programmes <input type="checkbox"/> Methods of family limiting and spacing <input type="checkbox"/> Research, Census, National Family Health Survey
IV	30	Community health Nursing <input type="checkbox"/> Philosophy, Aims, Objectives, Concepts, Scope, Principles, Functions <input type="checkbox"/> Community health Nursing theories and models <input type="checkbox"/> Quality assurance: Community health Nursing standards, competencies, Monitoring community health nursing, nursing audits <input type="checkbox"/> Family nursing and Family centered nursing approach <input type="checkbox"/> Family health nursing process o Family health assessment o Diagnosis o Planning o Intervention o Evaluation <input type="checkbox"/> Nursing care for special groups: children, adolescents, adults, women, elderly, physically and mentally challenged- Urban and rural population at large <input type="checkbox"/> Community nutrition <input type="checkbox"/> Concept, role and responsibilities of community health Nurse practitioners/nurse midwifery practitioners-decision making skills, professionalism, legal issues
V	45	Maternal and neonatal care <input type="checkbox"/> IMNCI(Integrated Management of Neonatal And Childhood Illnesses) module <input type="checkbox"/> Skilled Birth Attendant (SBA) module
VI	15	<input type="checkbox"/> Disaster nursing (INC module on Reaching out: Nursing Care in emergencies)
VII	10	Information, education and communication <input type="checkbox"/> IEC/BCC: Principles and strategies <input type="checkbox"/> Communication Skills <input type="checkbox"/> Management information and evaluation system: Records and reports

		<input type="checkbox"/> Information technology <input type="checkbox"/> Tele-medicine and tele-nursing <input type="checkbox"/> Journalism <input type="checkbox"/> Mass media <input type="checkbox"/> Folk media
VIII	15	Health care delivery system: Urban, rural, tribal and difficult areas <input type="checkbox"/> Health organization: National, State, District, CHC, PHC, Sub Centre, Village - Functions, Staffing, pattern of assistance, layout, drugs, equipments and supplies, Roles and Responsibilities of DPHNO <input type="checkbox"/> Critical review of functioning of various levels, evaluation studies, recommendations and nursing perspectives <input type="checkbox"/> Alternative systems of medicine <input type="checkbox"/> Training and supervision of health workers <input type="checkbox"/> Health agencies: NGO's, Roles and functions <input type="checkbox"/> Inter-sectoral coordination <input type="checkbox"/> Public private partnership <input type="checkbox"/> Challenges of health care delivery system

### Practical

**Total = 660 Hours**  
**1 Week = 30 Hours**

S.No.	Deptt./Unit	No. of Week	Total Hours
1.	<b>Sub-centre, PHC, CHC</b>	12	360 Hours
2.	District family welfare bureau	1	30 Hours
3	Urban centers	6	180 Hours
4	Field visits	3	90 Hours
<b>Total</b>		<b>22 Weeks</b>	<b>660 Hours</b>

### Student Activities

- Identification of community leaders and resource persons (community mapping)
- Community health survey
- Community health nursing process- individual, family and special groups and community
- Counseling
- Health education – campaign, exhibition, folk media, preparation of IEC materials
- Organising and participating in special clinics/camps and national health and welfare programmes-Organise atleast one health and family welfare mela/fair (all stalls of national health and family welfare activities should be included)
- Estimation of Vital health statistics -Exercise



- Drill for disaster preparedness
- Organise atleast one in-service education to ANM's/LHV/PHN/HW
- Nutrition – Exercise on nutritional assessment on dietary planning, demonstration and education for various age groups
- Filling up of Records, reports and registers maintained at SC/PHC/CHC
- Assist women in self breast examination
- Conduct antenatal examination
- Conduct vaginal examination
- Conduct deliveries
- Post natal visits
- Perform Episiotomy and suturing
- Prepare Pap smear
- Conduct Insertion/Removal of IUD
- Blood Slide preparation
- Field visits
- Maintenance of log book for various activities

## NURSING RESEARCH AND STATISTICS

Placement: 1st Year

Hours of Instruction  
Theory 150 Hours  
Practical 100 Hours  
Total: 250 Hours

### Part-A: Nursing Research

Theory 100 Hours  
Practical 50 Hours  
Total : 150 Hours

#### **Course Description:**

The course is designed to assist the students to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of nursing practice, education and management.

#### **General Objectives:**

At the end of the course, the students will be able to:

1. Define basic research terms and concepts.
2. Review literature utilizing various sources
3. Describe research methodology
4. Develop a research proposal.
5. Conduct a research study.
6. Communicate research findings
7. Utilize research findings
8. Critically evaluate nursing research studies.
9. Write scientific paper for publication.

#### **Course Content**

Unit	Hours Theory	Practical	Course content
I	10		<b>Introduction:</b> <ul style="list-style-type: none"><li><input type="checkbox"/> Methods of acquiring knowledge – problem solving and scientific method.</li><li><input type="checkbox"/> Research – Definition, characteristics, purposes, kinds of research</li><li><input type="checkbox"/> Historical Evolution of research in nursing</li><li><input type="checkbox"/> Basic research terms</li><li><input type="checkbox"/> Scope of nursing research: areas, problems in nursing, health and social research</li><li><input type="checkbox"/> Concept of evidence based practice</li></ul>

			<input type="checkbox"/> Ethics in research <input type="checkbox"/> Overview of Research process
II	5	5	Review of Literature <input type="checkbox"/> Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature.
III	12		Research Approaches and designs  <input type="checkbox"/> Type: Quantitative and Qualitative <input type="checkbox"/> Historical, survey and experimental –Characteristics, types advantages and disadvantages <input type="checkbox"/> Qualitative: Phenomenology, grounded theory, ethnography
IV	10	5	Research problem:  <input type="checkbox"/> Identification of research problem <input type="checkbox"/> Formulation of problem statement and research objectives <input type="checkbox"/> Definition of terms <input type="checkbox"/> Assumptions and delimitations <input type="checkbox"/> Identification of variables <input type="checkbox"/> Hypothesis – definition, formulation and type
V	5	5	Developing theoretical/conceptual framework. <input type="checkbox"/> Theories: Nature, characteristics, Purpose and uses <input type="checkbox"/> Using, testing and developing conceptual framework, models and theories.
VI	6		Sampling <input type="checkbox"/> Population and sample <input type="checkbox"/> Factors influencing sampling <input type="checkbox"/> Sampling techniques <input type="checkbox"/> Sample size <input type="checkbox"/> Probability and sampling error <input type="checkbox"/> Problems of sampling
VII	20		Tools and methods of Data collection: <input type="checkbox"/> Concepts of data collection <input type="checkbox"/> Data sources, methods/techniques quantitative and qualitative. <input type="checkbox"/> Tools for data collection – types, characteristics and their development <input type="checkbox"/> Validity and reliability of tools <input type="checkbox"/> Procedure for data collection
VIII	5		Implementing research plan <input type="checkbox"/> Pilot Study, review research plan (design)., planning for data collection, administration of tool/interventions, collection of data
IX	10	10	Analysis and interpretation of data <input type="checkbox"/> Plan for data analysis: quantitative and qualitative

			<input type="checkbox"/> Preparing data for computer analysis and presentation. <input type="checkbox"/> Statistical analysis <input type="checkbox"/> Interpretation of data <input type="checkbox"/> Conclusion and generalizations <input type="checkbox"/> Summary and discussion
X	10		Reporting and utilizing research findings: <input type="checkbox"/> Communication of research results; oral and written <input type="checkbox"/> Writing research report purposes, methods and style Vancouver, American Psychological Association (APA), Campbell etc <input type="checkbox"/> Writing scientific articles for publication: purposes & style
XI	3	8	Critical analysis of research reports and articles
XII	4	7	Developing and presenting a research proposal Activities:

**Activities:**

- Annotated Bibliography of research reports and articles.
- Review of literature of selected topic and reporting
- Formulation of problem statement, objective and hypothesis
- Developing theoretical/conceptual framework.
- Preparation of a sample research tool
- Analysis and interpretation of given data
- Developing and presenting research proposal

**Method of Teaching**

- Lecture-cum-discussion
- Seminar/Presentations
- Project
- Class room exercises
- Journal club

**Methods of Evaluation**

- Quiz, Tests (Term)
- Assignments/Term paper
- Presentations
- Project work

**Internal Assessment**

<b>Techniques</b>	<b>Weightage (15marks)</b>
Term Test (2 tests)	40%
Assignment	20%
Presentation	20%
Project work	20%
Total	100%

## Part –B: Statistics

Hours of Instruction  
Theory 50 Hours  
Practical 50 Hours  
Total : 100 Hours

### **Course Description**

At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in nursing.

### **General Objectives**

At the end of the course the students will be able to:

1. Explain the basic concepts related to statistics
2. Describe the scope of statistics in health and nursing
3. Organize, tabulate and present data meaningfully.
4. Use descriptive and inferential statistics to predict results.
5. Draw conclusions of the study and predict statistical significance of the results.
6. Describe vital health statistics and their use in health related research.
7. Use statistical packages for data analysis

### **Course Content**

unit	Hours theory	practical	Course content
I	7	4	Introduction: <input type="checkbox"/> Concepts, types, significance and scope of statistics, meaning of data, <input type="checkbox"/> sample, parameter <input type="checkbox"/> type and levels of data and their measurement <input type="checkbox"/> Organization and presentation of data – Tabulation of data; <input type="checkbox"/> Frequency distribution <input type="checkbox"/> Graphical and tabular presentations
II	4	4	Measures of central tendency: <input type="checkbox"/> Mean, Median, Mode
III	4	5	Measures of variability; <input type="checkbox"/> Range, Percentiles, average deviation, quartile deviation, standard deviation
IV	3	2	Normal Distribution: <input type="checkbox"/> Probability, characteristics and application of normal probability curve; sampling error.
V	6	8	Measures of relationship: <input type="checkbox"/> Correlation – need and meaning

			<input type="checkbox"/> Rank order correlation; <input type="checkbox"/> Scatter diagram method <input type="checkbox"/> Product moment correlation <input type="checkbox"/> Simple linear regression analysis and prediction.
VI	5	2	Designs and meaning: <input type="checkbox"/> Experimental designs <input type="checkbox"/> Comparison in pairs, randomized block design, Latin squares.
VII	8	10	Significance of Statistic and Significance of difference between two Statistics (Testing hypothesis) <input type="checkbox"/> Non parametric test – Chi-square test, Sign, median test, Mann Whitney test. <input type="checkbox"/> Parametric test – ‘t’ test, ANOVA, MANOVA, ANCOVA
VIII	5	5	Use of statistical methods in psychology and education: <input type="checkbox"/> Scaling – Z Score, Z Scaling <input type="checkbox"/> Standard Score and T Score <input type="checkbox"/> Reliability of test Scores: test-retest method, parallel forms, split half method.
IX	4	2	Application of statistics in health: <input type="checkbox"/> Ratios, Rates, Trends <input type="checkbox"/> Vital health statistics – Birth and death rates. <input type="checkbox"/> Measures related to fertility, morbidity and mortality
X	4	8	Use of Computers for data analysis <input type="checkbox"/> Use of statistical package.

### Activities

- Exercises on organization and tabulation of data,
- Graphical and tabular presentation of data
- Calculation of descriptive and inferential statistics (chi square, t-test, correlation)
- Practice in using statistical package
- Computing vital health statistics

### Methods of Teaching:

- Lecture-cum-discussion
- Demonstration – on data organization, tabulation, calculation of statistics, use of statistical package, Classroom exercises, organization and tabulation of data,
- Computing Descriptive and inferential statistics; vital and health statistics and use of computer for data entry and analysis using statistical package.

**Methods of Evaluation**

- Test, Classroom statistical exercises.

**Internal Assessment**

Techniques Weightage 10 marks

Test – (2 tests) 100%

## NURSING MANAGEMENT

Placement: II Year

Hours of Instruction  
Theory 150 Hours  
Practical 150 Hours  
Total : 300 Hours

### Course Description

This course is designed to assist students to develop a broad understanding of Principles, concepts, trends and issues related to nursing management. Further, it would provide opportunity to students to understand, appreciate and acquire skills in planning, supervision and management of nursing services at different levels to provide quality nursing services.

### Objectives

At the end of the course, students will be able to:

1. Describe the philosophy and objectives of the health care institutions at various levels.
2. Identify trends and issues in nursing
3. Discuss the public administration, health care administration vis a vis nursing administration
4. Describe the principles of administration applied to nursing
5. Explain the organization of health and nursing services at the various levels/institutions.
6. Collaborate and co-ordinate with various agencies by using multisectoral approach
7. Discuss the planning, supervision and management of nursing workforce for various health care settings.
8. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care
9. Identify and analyse legal and ethical issues in nursing administration
10. Describe the process of quality assurance in nursing services.
11. Demonstrate leadership in nursing at various levels



## Course Content

Unit	Hours	Content
I	10	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Philosophy, purpose, elements, principles and scope of administration</li> <li><input type="checkbox"/> Indian Constitution, Indian Administrative system vis a vis health care delivery system: National, State and Local</li> <li><input type="checkbox"/> Organisation and functions of nursing services and education at National, State, District and institutions: Hospital and Community</li> <li><input type="checkbox"/> Planning process: Five year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans,</li> </ul>
II	10	<p><b>Management</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Functions of administration</li> <li><input type="checkbox"/> Planning and control</li> <li><input type="checkbox"/> Co-ordination and delegation</li> <li><input type="checkbox"/> Decision making – decentralization basic goals of decentralization.</li> <li><input type="checkbox"/> Concept of management</li> </ul> <p>Nursing management</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concept, types, principles and techniques</li> <li><input type="checkbox"/> Vision and Mission Statements</li> <li><input type="checkbox"/> Philosophy, aims and objective</li> <li><input type="checkbox"/> Current trends and issues in Nursing Administration</li> <li><input type="checkbox"/> Theories and models</li> </ul> <p>Application to nursing service and education</p>
III	15	<p><b>Planning</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Planning process: Concept, Principles, Institutional policies</li> <li><input type="checkbox"/> Mission, philosophy, objectives,</li> <li><input type="checkbox"/> Strategic planning</li> <li><input type="checkbox"/> Operational plans</li> <li><input type="checkbox"/> Management plans</li> <li><input type="checkbox"/> Programme evaluation and review technique(PERT), Gantt chart,</li> </ul> <p>Management by objectives(MBO)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Planning new venture</li> <li><input type="checkbox"/> Planning for change</li> <li><input type="checkbox"/> Innovations in nursing</li> </ul> <p>Application to nursing service and education</p>

IV	15	<p><b>Organisation</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concept , principles, objectives, Types and theories, Minimum requirements for organisation, Developing an organizational Structure, levels, organizational Effectiveness and organizational Climate,</li> <li><input type="checkbox"/> Organising nursing services and patient care: Methods of patient assignment- Advantages and disadvantages, primary nursing care,</li> <li><input type="checkbox"/> Planning and Organising: hospital, unit and ancillary services(specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc)</li> <li><input type="checkbox"/> Disaster management: plan, resources, drill, etc</li> </ul> <p>Application to nursing service and education</p>
V	15	<p><b>Human Resource for health</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Staffing</li> <li>• Philosophy</li> <li>• Norms: Staff inspection unit(SIU), Bajaj Committee, High power committee, Indian nursing council (INC)</li> <li>• Estimation of nursing staff requirement- activity analysis</li> <li>• Various research studies</li> <li><input type="checkbox"/> Recruitment: credentialing, selection, placement, promotion</li> <li><input type="checkbox"/> Retention</li> <li><input type="checkbox"/> Personnel policies</li> <li><input type="checkbox"/> Termination</li> <li><input type="checkbox"/> Staff development programme</li> <li><input type="checkbox"/> Duties and responsibilities of various category of nursing personnel</li> </ul> <p>Applications to nursing service and education</p>
VI	15	<p><b>Directing</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Roles and functions</li> <li><input type="checkbox"/> Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories</li> <li><input type="checkbox"/> Communication : process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations</li> <li><input type="checkbox"/> Delegation; common delegation errors</li> <li><input type="checkbox"/> Managing conflict: process, management, negotiation, consensus</li> <li><input type="checkbox"/> Collective bargaining: health care labour laws, unions, professional associations, role of nurse manager</li> <li><input type="checkbox"/> Occupational health and safety</li> </ul> <p>Application to nursing service and education</p>
VII	10	<p><b>Material management</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concepts, principles and procedures</li> </ul>

		<input type="checkbox"/> Planning and procurement procedures : Specifications <input type="checkbox"/> ABC analysis, <input type="checkbox"/> VED (very important and essential daily use) analysis <input type="checkbox"/> Planning equipments and supplies for nursing care: unit and hospital <input type="checkbox"/> Inventory control <input type="checkbox"/> Condemnation Application to nursing service and education
VIII	15	<b>Controlling</b> <input type="checkbox"/> Quality assurance – Continuous Quality Improvement • Standards • Models • Nursing audit <input type="checkbox"/> Performance appraisal: Tools, confidential reports, formats, Management, interviews <input type="checkbox"/> Supervision and management: concepts and principles <input type="checkbox"/> Discipline: service rules, self discipline, constructive versus destructive discipline, problem employees, disciplinary proceedings enquiry etc <input type="checkbox"/> Self evaluation or peer evaluation, patient satisfaction, utilization review Application to nursing service and education
IX	15	<b>Fiscal planning</b> <input type="checkbox"/> Steps <input type="checkbox"/> Plan and non-plan, zero budgeting, mid-term appraisal, capital and revenue <input type="checkbox"/> Budget estimate, revised estimate, performance budget <input type="checkbox"/> Audit <input type="checkbox"/> Cost effectiveness <input type="checkbox"/> Cost accounting <input type="checkbox"/> Critical pathways <input type="checkbox"/> Health care reforms <input type="checkbox"/> Health economics <input type="checkbox"/> Health insurance <input type="checkbox"/> Budgeting for various units and levels  Application to nursing service and education
X	10	<b>Nursing informatics</b> <input type="checkbox"/> Trends <input type="checkbox"/> General purpose <input type="checkbox"/> Use of computers in hospital and community <input type="checkbox"/> Patient record system

		<input type="checkbox"/> Nursing records and reports <input type="checkbox"/> Management information and evaluation system (MIES) <input type="checkbox"/> E- nursing, Telemedicine, telenursing <input type="checkbox"/> Electronic medical records
XI	10	<b>Leadership</b> <input type="checkbox"/> Concepts, Types, Theories <input type="checkbox"/> Styles <input type="checkbox"/> Manager behaviour <input type="checkbox"/> Leader behaviour <input type="checkbox"/> Effective leader: Characteristics, skills <input type="checkbox"/> Group dynamics <input type="checkbox"/> Power and politics <input type="checkbox"/> lobbying <input type="checkbox"/> Critical thinking and decision making <input type="checkbox"/> Stress management Applications to nursing service and education
XII	10	<b>Legal and ethical issues</b> Laws and ethics <input type="checkbox"/> Ethical committee <input type="checkbox"/> Code of ethics and professional conduct <input type="checkbox"/> Legal system: Types of law, tort law, and liabilities <input type="checkbox"/> Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character <input type="checkbox"/> Patient care issues, management issues, employment issues <input type="checkbox"/> Medico legal issues <input type="checkbox"/> Nursing regulatory mechanisms: licensure, renewal, accreditation <input type="checkbox"/> Patients rights, Consumer protection act(CPA) <input type="checkbox"/> Rights of special groups: children, women, HIV, handicap, ageing <input type="checkbox"/> Professional responsibility and accountability <input type="checkbox"/> Infection control <input type="checkbox"/> Standard safety measures

### **PRACTICALS**

1. Prepare prototype personal files for staff nurses, faculty and cumulative records
2. Preparation of budget estimate, Revised estimate and performance budget
3. Plan and conduct staff development programme
4. Preparation of Organisation Chart
5. Developing nursing standards/protocols for various units

6. Design a layout plan for speciality units /hospital, community and educational institutions
7. Preparation of job description of various categories of nursing personnel
8. Prepare a list of equipments and supplies for speciality units
9. Assess and prepare staffing requirement for hospitals, community and educational institutions
10. Plan of action for recruitment process
11. Prepare a vision and mission statement for hospital, community and educational institutions
12. Prepare a plan of action for performance appraisal
13. Identify the problems of the speciality units and develop plan of action by using problem solving approach
14. Plan a duty roster for speciality units/hospital, community and educational institutions
15. Prepare: anecdotes, incident reports, day and night reports, handing and taking over reports, enquiry reports, nurses notes, Official letters, curriculum vitae, presentations etc
16. Prepare a plan for disaster management
17. Group work
18. Field appraisal report

**CLINICAL SPECIALITY – II  
MEDICAL SURGICAL NURSING**

**SUB SPECIALITY – CARDIO VASCULAR AND THORACIC NURSING**

Placement: II year

Hours of Instruction

Theory: 150 hours.

Practical: 950 hours.

Total: 1100 hours.

**Course Description**

This course is designed to assist students in developing expertise and in-depth understanding in the field of cardiovascular and thoracic nursing. It will help students to develop advanced skills for nursing intervention in various cardio medical and surgical conditions. It will enable the student to function as Cardio vascular and Thoracic Nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of cardio vascular and thoracic nursing.

**Objectives**

At the end of the course the students will be able to:

1. Appreciate trends and issues related to cardio vascular and thoracic Nursing.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of cardio vascular and thoracic conditions
3. Participate in national health programs for health promotion, prevention and rehabilitation of patients with cardio vascular and thoracic conditions
4. Perform physical, psychosocial & spiritual assessment
5. Assist in various diagnostic, therapeutic and surgical procedures
6. Apply nursing process in providing comprehensive care to patients with cardio vascular and thoracic conditions
7. Demonstrate advance skills/competence in managing patients with cardio vascular and thoracic conditions including Advance Cardiac Life Support.
8. Describe the various drugs used in cardio vascular and thoracic conditions and nurses responsibility
9. Demonstrate skill in handling various equipments/gadgets used for critical care of cardio vascular and thoracic patients
10. Appreciate team work & coordinate activities related to patient care.
11. Practice infection control measures.
12. Identify emergencies and complications & take appropriate measures

13. Discuss the legal and ethical issues in cardio vascular and thoracic nursing
14. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs.
15. Appreciate the role of alternative system of medicine in care of patient
16. Incorporate evidence based nursing practice and identify the areas of research in the field of cardio vascular and thoracic nursing
17. Identify the sources of stress and manage burnout syndrome among health care providers.
18. Teach and supervise nurses and allied health workers.
19. Design a layout of ICCU and ICTU and develop standards for cardio vascular and thoracic nursing practice.

### Content Outline

Unit	Hours	Content
I	5	<b>Introduction</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical development, trends and issues in the field of cardiology.</li> <li><input type="checkbox"/> Cardio vascular and thoracic conditions – major health problem.</li> <li><input type="checkbox"/> Concepts, principles and nursing perspectives</li> <li><input type="checkbox"/> Ethical and legal issues</li> <li><input type="checkbox"/> Evidence based nursing and its application in cardio vascular and thoracic nursing( to be incorporated in all the units)</li> </ul>
II	5	<b>Epidemiology</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc</li> <li><input type="checkbox"/> Health promotion, disease prevention, Life style modification</li> <li><input type="checkbox"/> National health programs related to cardio vascular and thoracic conditions</li> <li><input type="checkbox"/> Alternate system of medicine</li> <li><input type="checkbox"/> Complementary therapies</li> </ul>
III	5	<b>Review of anatomy and physiology of cardio vascular and respiratory system</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung.</li> <li><input type="checkbox"/> Coronary circulation</li> <li><input type="checkbox"/> Hemodynamics and electro physiology of heart.</li> <li><input type="checkbox"/> Bio-chemistry of blood in relation to cardio pulmonary function</li> </ul>
IV	20	<b>Assessment and Diagnostic Measures:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> History taking</li> </ul>

		<ul style="list-style-type: none"> <li><input type="checkbox"/> Physical assessment <ul style="list-style-type: none"> <li>• Heart rate variability: Mechanisms , measurements, pattern, factors, impact of interventions on HRV</li> </ul> </li> <li><input type="checkbox"/> Diagnostic tests <ul style="list-style-type: none"> <li>• Hemodynamic monitoring: Technical aspects, monitoring, functional hemodynamic indices, ventricular function indices, output measurements (Arterial and swan Ganz monitoring).</li> <li>Blood gases and its significance, oxygen supply and demand</li> <li>• Radiologic examination of the chest: interpretation, chest film findings</li> <li>• Electro cardiography(ECG) : electrical conduction through the heart, basic electrocardiography, 12 lead electrocardiogram, axis determination</li> <li>- ECG changes in: intraventricular conduction abnormalities- Arrhythmias, ischemia, injury and infarction, atrial and ventricular enlargement, electrolyte imbalance,</li> <li>• Echocardiography: technical aspects, special techniques, echocardiography of cardiac structures in health and disease, newer techniques</li> <li>• Nuclear and other imaging studies of the heart: Magnetic Resonance Imaging.</li> <li>• Cardio electrophysiology procedures: diagnostic studies, interventional and catheter ablation, nursing care</li> <li>• Exercise testing: indications and objectives, safety and personnel, pretest considerations, selection, interpretation, test termination, recovery period</li> <li>• Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data</li> <li>• Pulmonary function test: Bronchoscopy and graphies</li> <li>• Interpretation of diagnostic measures</li> <li>• Nurse’s role in diagnostic tests</li> </ul> </li> <li><input type="checkbox"/> Laboratory tests using blood: Blood specimen collection, Cardiac markers, Blood lipids, Hematologic studies, Blood cultures, Coagulation studies, Arterial blood gases, Blood Chemistries, cardiac enzyme studies, Serum Concentration of Selected drugs.</li> <li><input type="checkbox"/> Interpretation and role of nurse</li> </ul>
V	25	<p><b>Cardiac disorders and nursing management:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: <ul style="list-style-type: none"> <li>• Hypertension</li> <li>• Coronary Artery Disease.</li> <li>• Angina of various types.</li> <li>• Cardiomegaly</li> <li>• Myocardial Infarction, Congestive cardiac failure</li> </ul> </li> </ul>



		<ul style="list-style-type: none"> <li>• Heart Failure, Pulmonary Edema, Shock.</li> <li>• Rheumatic heart disease and other Valvular Diseases</li> <li>• Inflammatory Heart Diseases, Infective Endocarditis, Myocarditis, Pericarditis.</li> <li>• Cardiomyopathy, dilated, restrictive, hypertrophic.</li> <li>• Arrhythmias, heart block</li> </ul> <p>Associated illnesses</p>
VI	10	<p><b>Altered pulmonary conditions</b></p> <p><input type="checkbox"/> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> <li>• Bronchitis</li> <li>• Bronchial asthma</li> <li>• Bronchiectasis</li> <li>• Pneumonias</li> <li>• Lung abscess, lung tumour</li> <li>• Pulmonary tuberculosis, fibrosis, pneumoconiosis etc</li> <li>• Pleuritis, effusion</li> <li>• Pneumo, haemo and pyothorax</li> <li>• Interstitial Lung Disease</li> <li>• Cystic fibrosis</li> <li>• Acute and Chronic obstructive pulmonary disease (conditions leading to)</li> <li>• Cor pulmonale</li> <li>• Acute respiratory failure</li> <li>• Adult respiratory distress syndrome</li> <li>• Pulmonary embolism</li> <li>• Pulmonary Hypertension</li> </ul>
VII	10	<p><b>Vascular disorders and nursing management</b></p> <p><input type="checkbox"/> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> <li>• Disorders of arteries</li> <li>• Disorders of the aorta</li> <li>• Aortic Aneurysms,</li> <li>• Aortic dissection</li> <li>• Raynaud’s phenomenon</li> <li>• Peripheral arterial disease of the lower extremities</li> <li>• Venous thrombosis</li> <li>• Varicose veins</li> <li>• Chronic venous insufficiency and venous leg ulcers</li> <li>• Pulmonary embolism</li> </ul>
VIII	10	<p><b>Cardio thoracic emergency interventions</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> CPR- BLS and ALS</li> <li><input type="checkbox"/> Use of ventilator, defibrillator , pacemaker</li> <li><input type="checkbox"/> Post resuscitation care.</li> <li><input type="checkbox"/> Care of the critically ill patients</li> <li><input type="checkbox"/> Psychosocial and spiritual aspects of care</li> </ul>

		<input type="checkbox"/> Stress management; ICU psychosis <input type="checkbox"/> Role of nurse
IX	10	<b>Nursing care of a patient with obstructive airway</b> <input type="checkbox"/> Assessment <input type="checkbox"/> Use of artificial airway <input type="checkbox"/> Endotracheal intubation, tracheostomy and its care <input type="checkbox"/> Complication, minimum cuff leak, securing tubes <b>Oxygen delivery systems.</b> <input type="checkbox"/> Nasal Cannula <input type="checkbox"/> Oxygen mask, Venturi mask <input type="checkbox"/> Partial rebreathing bag <input type="checkbox"/> Bi-PAP and C-PAP masks <input type="checkbox"/> Uses, advantages, disadvantages, nursing implications of each. <b>Mechanical Ventilation</b> <input type="checkbox"/> Principles of mechanical ventilation <input type="checkbox"/> Types of mechanical ventilation and ventilators. <input type="checkbox"/> Modes of ventilation, advantage, disadvantage, complications. <input type="checkbox"/> PEEP therapy, indications, physiology, and complications. <b>Weaning</b> off the ventilator. <input type="checkbox"/> Nursing assessment and interventions of ventilated patient.
X	10	<b>Congenital Heart Diseases,</b> <input type="checkbox"/> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: <ul style="list-style-type: none"> <li>• Embryological development of heart.</li> <li>• Classification – cyanotic and acyanotic heart disease.</li> <li>• Tetralogy of Fallots.</li> <li>• Atrial Septal Defect, Ventricular Septal Defect., Eisenmenger’s complex.</li> <li>• Patent ductus arteriosus, AP window</li> <li>• Truncus Arteriosus.</li> <li>• Transposition of great arteries.</li> <li>• Total Anomaly of Pulmonary Venous Connection.</li> <li>• Pulmonary stenosis, atresia.</li> <li>• Coarctation of aorta.</li> <li>• Ebstein’s anomaly</li> <li>• Double outlet right ventricle, Single ventricle, Hypoplastic left heart syndrome.</li> </ul>
XI	10	<b>Pharmacology</b> <input type="checkbox"/> Review <input type="checkbox"/> Pharmacokinetics <input type="checkbox"/> Analgesics/Anti inflammatory agents <input type="checkbox"/> Antibiotics, antiseptics

		<ul style="list-style-type: none"> <li><input type="checkbox"/> Drug reaction &amp; toxicity</li> <li><input type="checkbox"/> Drugs used in cardiac emergencies</li> <li><input type="checkbox"/> Blood and blood components</li> <li>• Antithrombolytic agents</li> <li>• Inotropic agents</li> <li>• Beta-blocking agents</li> <li>• Calcium channel blockers.</li> <li>• Vaso constrictors</li> <li>• Vaso dilators</li> <li>• ACE inhibitors.</li> <li>• Anticoagulents</li> <li>• Antiarrhythmic drugs.</li> <li>• Anti hypertensives</li> <li>• Diuretics</li> <li>• Sedatives and tranquilizers.</li> <li>• Digitalis.</li>   <li>• Antilipemics</li> <li><input type="checkbox"/> Principles of drug administration, role and responsibilities of nurses and care of drugs</li> </ul>
XII	10	<p><b>Nursing Care of patient undergoing cardio thoracic surgery</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Indications, selection of patient</li> <li><input type="checkbox"/> Preoperative assessment and preparation; counselling.</li> <li><input type="checkbox"/> Intraoperative care: Principles of open heart surgery, equipment, anaesthesia, cardiopulmonary by pass.</li> <li><input type="checkbox"/> Surgical procedures for Coronary Artery Bypass Grafting, recent advances and types of grafts, Valve replacement or reconstruction, cardiac transplant, Palliative surgery and different Stents, vascular surgery, other recent advances.</li> <li><input type="checkbox"/> Thoracic surgery: lobectomy, pneumonectomy, tumour excision etc</li> <li><input type="checkbox"/> Immediate postoperative care : assessment, post operative problems and interventions : Bleeding, Cardiac tamponade, Low cardiac output, Infarction, Pericardial effusion, Pleural effusion, Pneumothorax, Haemothorax, Coagulopathy, Thermal imbalance, Inadequate., ventilation/perfusion, Neurological problems, renal problems, Psychological problems.</li> <li><input type="checkbox"/> Chest physiotherapy</li> <li><input type="checkbox"/> Nursing interventions- life style modification, complementary therapy/alternative systems of medicine.</li> <li><input type="checkbox"/> Intermediate and late post operative care after CABG, valve surgery, others.</li> </ul> <p>Follow up care</p>

XIII	5	<b>Cardiac rehabilitation</b> <input type="checkbox"/> Process <input type="checkbox"/> Physical evaluation <input type="checkbox"/> Life style modification <input type="checkbox"/> Physical conditioning for cardiovascular efficiency through exercise <input type="checkbox"/> Counseling <input type="checkbox"/> Follow up care
XIV	5	<b>Intensive Coronary Care Unit/intensive cardio thoracic unit:</b> <input type="checkbox"/> Quality assurance <input type="checkbox"/> Standards, Protocols, Policies, Procedures <input type="checkbox"/> Infection control; Standard safety measures <input type="checkbox"/> Nursing audit <input type="checkbox"/> Design of ICCU/ICTU <input type="checkbox"/> Staffing; cardiac team <input type="checkbox"/> Burn out syndrome <input type="checkbox"/> Nurse's role in the management of I.C.C.U and ICTU. <input type="checkbox"/> Mobile coronary care unit. <input type="checkbox"/> Planning inservice educational programme and teaching

### Practicals

**Total – 960 Hours**  
**1 Weeks = 30 Hours**

S.No.	Deptt/ Unit	No. of Week	Total Hours
1	Cardio thoracic –Medical	4	120 Hours
	-Surgical	4	120 Hours
2.	OTs (Cardiac and thoracic)	4	120 Hours
3.	Casualty	2	60 Hours
4.	Diagnostic labs including cath lab	2	60 Hours
5.	ICCU	4	120 Hours
6.	ICU	4	120 Hours
7.	CCU	4	120 Hours
8.	Paediatric Intensive	2	60 Hours
9.	OPD	2	60 Hours
<b>Total</b>		<b>32 Weeks</b>	<b>960 Hours</b>

## **Essential Nursing Skills**

### **Procedures Observed**

1. Echo cardiogram
2. Ultrasound
3. Monitoring JVP , CVP
4. CT SCAN
5. MRI
6. Pet SCAN
7. Angiography
8. Cardiac catheterisation
9. Angioplasty
10. Various Surgeries
11. Any other

### **I. Procedures Assisted**

1. Arterial blood gas analysis
2. Thoracentesis
3. Lung biopsy
4. Computer assisted tomography (CAT Scan)
5. M.R.I.
6. Pulmonary angiography
7. Bronchoscopy
8. Pulmonary function test
9. ET tube insertion
10. Tracheostomy tube insertion
11. Cardiac catheterisation
12. Angiogram
13. Defibrillation
14. Treadmill test
- 70
15. Echo cardiography
16. Doppler ultrasound
17. Cardiac surgery
18. Insertion of chest tube
19. CVP Monitoring
20. Measuring pulmonary artery pressure by Swan-Ganz Catheter
21. Cardiac Pacing

### **II. Procedures Performed**

1. Preparation of assessment tool for CT client (Cardiac, thoracic and vascular).
2. ECG – Recording, Reading, Identification of abnormalities
3. Oxygen therapy – Cylinder, central supply, Catheter, nasal canula, mask, tent  
Through ET and Tracheostomy tube  
Manual resuscitation bag
4. Mechanical ventilation
5. Spirometer

6. Tuberculin skin test
7. Aerosol therapy
8. Nebulizer therapy
9. Water seal drainage
10. Chest physiotherapy including – Breathing Exercises  
Coughing Exercises  
Percussion & Vibration
11. Suctioning – Oropharyngeal, nasotracheal, Endotracheal  
Through tracheostomy tube
12. Artificial airway cuff maintenance
13. CPR
14. Care of client on ventilator
15. Identification of different – Arrhythmias  
Abnormal pulses, respirations  
B.P. Variation  
Heart sounds  
Breath sounds
16. Pulse oxymetry
17. Introduction of intracath
18. Bolus I.V. Injection
19. Life line
20. Maintenance of “Heplock”
21. Subcutaneous of Heparin
22. Obtaining leg measurements to detect early swelling in  
thrombophlebitis
23. Identification of Homans signs
24. Buerger – Allen exercises

CLINICAL SPECIALITY – II  
MEDICAL SURGICAL NURSING - CRITICAL CARE NURSING

Placement: II Year

Hours of instruction  
Theory: 150 hours  
Practical: 950 hours  
Total : 1100 hours

**Course Description**

This course is designed to assist students in developing expertise and indepth knowledge in the field of Critical care Nursing. It will help students to develop advanced skills for nursing intervention in caring for critically ill patients. It will enable the student to function as critical care nurse practitioner/ specialist. It will further enable the student to function as educator, manager and researcher in the field of Critical Care Nursing.

**Objectives**

At the end of the course the students will be able to

1. Appreciate trends and issues related to Critical Care Nursing.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of critically ill patients
3. Describe the various drugs used in critical care and nurses responsibility
4. Perform physical, psychosocial & spiritual assessment
5. Demonstrate advance skills/competence in managing critically ill patients including Advance Cardiac Life Support.
6. Demonstrate skill in handling various equipments/gadgets used for critical care
7. Provide comprehensive care to critically ill patients.
8. Appreciate team work & coordinate activities related to patient care.
9. Practice infection control measures.
10. Assess and manage pain .
11. Identify complications & take appropriate measures.
12. Discuss the legal and ethical issues in critical care nursing
13. Assist patients and their family to cope with emotional distress, spiritual, grief and anxiety
14. Assist in various diagnostic, therapeutic and surgical procedures
15. Incorporate evidence based nursing practice and identify the areas of research in the field of critical care nursing

16. Identify the sources of stress and manage burnout syndrome among health care providers.

17. Teach and supervise nurses and allied health workers.

18. Design a layout of ICU and develop standards for critical care nursing practice.

**Course Content**

<b>Unit</b>	<b>Hours</b>	<b>Content</b>
<b>I</b>	<b>5</b>	<b>Introduction to Critical Care Nursing</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical review- Progressive patient care(PPC)</li> <li><input type="checkbox"/> Review of anatomy and physiology of vital organs, fluid and electrolyte balance</li> <li><input type="checkbox"/> Concepts of critical care nursing</li> <li><input type="checkbox"/> Principles of critical care nursing</li> <li><input type="checkbox"/> Scope of critical care nursing</li> <li><input type="checkbox"/> Critical care unit set up including equipments supplies, use and care of various type of monitors &amp; ventilators</li> <li><input type="checkbox"/> Flow sheets</li> </ul>
<b>II</b>	<b>10</b>	<b>Concept of Holistic care applied to critical care nursing practice</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Impact of critical care environment on patients:- <ul style="list-style-type: none"> <li>• Risk factors, Assessment of patients, Critical care psychosis, prevention &amp; nursing care for patients affected with psychophysiological &amp; psychosocial problems of critical care unit, Caring for the patient’s family, family teaching</li> </ul> </li> <li><input type="checkbox"/> The dynamics of healing in critical care unit:-therapeutic touch, Relaxation, Music therapy, Guided Imagery, acupressure</li> <li><input type="checkbox"/> Stress and burnout syndrome among health team members</li> </ul>
<b>III</b>	<b>14</b>	<b>Review</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Pharmacokinetics</li> <li><input type="checkbox"/> Analgesics/Anti inflammatory agents</li> <li><input type="checkbox"/> Antibiotics, antiseptics</li> <li><input type="checkbox"/> Drug reaction &amp; toxicity</li> <li><input type="checkbox"/> Drugs used in critical care unit (inclusive of ionotropic, life saving drugs)</li> <li><input type="checkbox"/> Drugs used in various body systems</li> <li><input type="checkbox"/> IV fluids and electrolytes</li> <li><input type="checkbox"/> Blood and blood components</li> <li><input type="checkbox"/> Principles of drug administration, role of nurses and care of drugs</li> </ul>
<b>IV</b>	<b>5</b>	<b>Pain Management</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Pain &amp; Sedation in Critically ill patients</li> <li><input type="checkbox"/> Theories of pain, Types of pain, Pain assessment, Systemic responses to pain</li> <li><input type="checkbox"/> pain management-pharmacological and non-pharmacological</li> </ul>



		measures <input type="checkbox"/> Placebo effect
<b>V</b>	<b>5</b>	<b>Infection control in intensive care unit</b> <input type="checkbox"/> Nosocomial infection in intensive care unit; methyl resistant staphylococcus aureus (MRSA), Disinfection, Sterilization, Standard safety measures, Prophylaxis for staff
<b>VI</b>	<b>10</b>	<b>Gastrointestinal System</b> <input type="checkbox"/> Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Gastrointestinal Bleeding, Abdominal injury, Hepatic Disorders:-Fulminant hepatic failure, Hepatic encephalopathy, Acute Pancreatitis, Acute intestinal obstruction, perforative peritonitis
<b>VII</b>	<b>10</b>	<b>Renal System</b> <input type="checkbox"/> Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Renal Failure, Chronic Renal Failure, Acute tubular necrosis, Bladder trauma <input type="checkbox"/> Management Modalities: Hemodialysis, Peritoneal Dialysis, Continuous Ambulatory Peritoneal Dialysis, Continuous arterio-venous hemodialysis, Renal Transplant,
<b>VIII</b>	<b>10</b>	<b>Nervous System</b> <input type="checkbox"/> Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Common Neurological Disorders:-Cerebrovascular disease, Cerebrovascular accident, Seizure disorders, GuilleinBarre-Syndrome, Myasthenia Gravis, Coma, Persistent vegetative state, Encephalopathy, Head injury, Spinal Cord injury <input type="checkbox"/> Management Modalities: Assessment of Intracranial pressure, Management of intracranial hypertension, Craniotomy <input type="checkbox"/> Problems associated with neurological disorders: Thermo regulation, Unconsciousness, Herniation syndrome
<b>IX</b>	<b>5</b>	Endocrine System <input type="checkbox"/> Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing Management of :-Hypoglycemia, Diabetic Ketoacidosis, Thyroid crisis, Myxoedema, Adrenal crisis, Syndrome of Inappropriate/hypersecretion of Antidiuretic Hormone (SIADH)
<b>X</b>	<b>15</b>	<b>Management of other Emergency Conditions</b> <input type="checkbox"/> Mechanism of injury, Thoracic injuries, Abdominal injuries, pelvic fractures, complications of trauma, Head injuries

		<input type="checkbox"/> Shock: Shock syndrome, Hypovolemic, Cardiogenic, Anaphylactic, Neurogenic and Septic shock <input type="checkbox"/> Systemic inflammatory Response: The inflammatory response, Multiple organ dysfunction syndrome <input type="checkbox"/> Disseminated Intravascular Coagulation <input type="checkbox"/> Drug Overdose and Poisoning, <input type="checkbox"/> Acquired Immunodeficiency Syndrome (AIDS) <input type="checkbox"/> Ophthalmic: Eye injuries, Glaucoma, retinal detachment <input type="checkbox"/> Ear Nose Throat: Foreign bodies, stridor, bleeding, quincy, acute allergic conditions <input type="checkbox"/> Psychiatric emergencies;,, suicide, <input type="checkbox"/> crisis intervention
<b>XI</b>	<b>15</b>	<b>Cardiovascular emergencies</b> <input type="checkbox"/> Principles of Nursing in caring for patient's with Cardiovascular disorders <input type="checkbox"/> Assessment: Cardiovascular system: Heart sounds, Diagnostic studies:- Cardiac enzymes studies, Electrocardiographic monitoring, Holter monitoring, Stress test. Echo cardiography, Coronary angiography, Nuclear medicine studies <input type="checkbox"/> Causes, Pathophysiology, Clinical types, Clinical features, Diagnostic Prognosis, Management : Medical, Surgical & Nursing management of:-Hypertensive crisis, Coronary artery disease, Acute Myocardial infarction, Cardiomyopathy, Deep vein thrombosis, Valvular diseases, Heart block, Cardiac arrhythmias & conduction disturbances, Aneurysms, Endocarditis, Heart failure Cardio pulmonary resuscitation BCLS/ ACLS <input type="checkbox"/> Management Modalities: Thrombolytic therapy, Pacemaker – temporary & permanent, Percutaneous transluminal coronary angioplasty, Cardioversion, Intra Aortic Balloon pump monitoring, Defibrillations, Cardiac surgeries, Coronary Artery Bypass Grafts (CABG/MICAS), Valvular surgeries, Heart Transplantation, Autologous blood transfusion, Radiofrequency Catheter Ablation
<b>XII</b>	<b>15</b>	<b>Respiratory System</b> <input type="checkbox"/> Acid-base balance & imbalance <input type="checkbox"/> Assessment : History & Physical Examination <input type="checkbox"/> Diagnostic Tests:Pulse Oximetry, End –Tidal Carbon Dioxide Monitoring, Arterial blood gas studies, chest radiography, pulmonary Angiography, Bronchoscopy, Pulmonary function Test, Ventilation perfusion scan, Lung ventilation scan <input type="checkbox"/> Causes Pathophysiology, Clinical types, Clinical features, Prognosis, Management: Medical, Surgical and Nursing management of Common pulmonary disorders:-Pneumonia, Status asthmaticus, interstitial lung disease, Pleural effusion, Chronic obstructive pulmonary disease, Pulmonary tuberculosis, Pulmonary edema, Atelectasis, Pulmonary embolism, Acute

		<p>respiratory failure, Acute respiratory distress syndrome (ARDS), Chest Trauma Haemothorax, Pneumothorax</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Management Modalities:-Airway Management</li> <li><input type="checkbox"/> Ventilatory Management:-Invasive, non- invasive, long term mechanical ventilations</li> <li><input type="checkbox"/> Bronchial Hygiene:-Nebulization, deep breathing exercise, chest physiotherapy, postural drainage, Inter Costal Drainage, Thoracic surgeries</li> </ul>
<b>XIII</b>	<b>7</b>	<p><b>Burns</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Clinical types, classification, pathophysiology, clinical features, assessment, diagnosis, prognosis, Management: Medical, Surgical &amp; Nursing management of burns</li> <li><input type="checkbox"/> Fluid and electrolyte therapy – calculation of fluids and its administration</li> <li><input type="checkbox"/> Pain management</li> <li><input type="checkbox"/> Wound care</li> <li><input type="checkbox"/> Infection control</li> <li><input type="checkbox"/> Prevention and management of burn complications</li> <li><input type="checkbox"/> Grafts and flaps</li> <li><input type="checkbox"/> Reconstructive surgery</li> <li><input type="checkbox"/> Rehabilitation</li> </ul>
<b>XIV</b>	<b>10</b>	<p><b>Obstetrical Emergencies</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, Pathophysiology, Clinical types, clinical features, diagnostic Prognosis, Management: Medical, Surgical and Nursing management of :Antepartum haemorrhage, Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, Post partum haemorrhage, Puerperal sepsis, Obstetrical shock</li> </ul>
<b>XV</b>	<b>2</b>	<p><b>Neonatal Paediatric emergencies</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> <li>• Neonatal emergencies</li> <li><input type="checkbox"/> Asphyxia Neonatarum, Pathological Jaundice in Neonates, Neonatal seizures, Metabolic disorders, Intra cranial Hemorrhage, Neonatal Sepsis, RDS/HMD (Respiratory Distress Syndrome/Hyaline Membrane Disease), Congenital disorders:- <ul style="list-style-type: none"> <li>• Cyanotic heart disease, tracheo oesophageal fistula, congenital hypertropic pyloric stenosis, imperforate anus</li> <li>• Pediatric emergencies</li> <li><input type="checkbox"/> Dehydration, Acute broncho pneumonia, Acute respiratory distress syndrome, Poisoning, Foreign bodies, seizures, traumas, Status asthmaticus</li> </ul> </li> </ul> </li> </ul>
<b>XVI</b>	<b>2</b>	Legal and ethical issues in critical care-Nurse’s role

		<input type="checkbox"/> Brain death <input type="checkbox"/> Organ donation & Counselling <input type="checkbox"/> Do Not Resuscitate(DNR) <input type="checkbox"/> Euthanasia <input type="checkbox"/> Living will
<b>XVII</b>	<b>2</b>	Quality assurance <input type="checkbox"/> Standards, Protocols, Policies, Procedures <input type="checkbox"/> Infection control; Standard safety measures <input type="checkbox"/> Nursing audit <input type="checkbox"/> Design of ICU/CCU

### Practical

**Total = 960 Hours**  
**1 Week = 30 Hours**

S.No.	Deptt./Unit	No. of Week	Total Hours
3	Burns ICU	2	60 Hours
5	Medical ICU	8	240 Hours
6	Surgical ICU	12	360 Hours
9	CCU	2	60 Hours
10	Emergency Department	3	90 Hours
12	Dialysis Unit	1	30 Hours
13	Transplant Room	2	60 Hours
14	Paediatric/ NICU	2	60 Hours
<b>Total</b>			<b>960 Hours</b>
		<b>32 Weeks</b>	

## ESSENTIAL CRITICAL CARE NURSING SKILLS

### I. Procedures Observed

1. CT Scan
2. MRI
3. EEG
4. Hemodialysis
5. Endoscopic Retrograde cholangio Pancreaticogram(ERCP)
6. Heart/ Neuro/GI./ Renal Surgeries

### II. Procedures Assisted

1. Advanced life support system
2. Basic cardiac life support
3. Arterial line/arterial pressure monitoring/blood taking

4. Arterial blood gas
5. ECG recording
6. Blood transfusion
7. IV cannulation therapy
8. Arterial Catheterization
9. Chest tube insertion
10. Endotracheal intubations
11. Ventilation
12. Insertion of central line/cvp line
13. Connecting lines for dialysis

### **III. Procedure Performed**

1. Airway management
  - a. Application of oropharyngeal airway
  - b. Oxygen therapy
  - c. CPAP (Continuous Positive Airway pressure)
  - d. Care of tracheostomy
  - e. Endotracheal extubation
2. Cardiopulmonary resuscitation, Basic cardiac life support, ECG
3. Monitoring of critically ill patients – clinically with monitors, capillary refill time (CRT) assessment of jaundice, ECG.
4. Gastric lavage
5. Assessment of critically ill patients Identification & assessment of risk factors, Glasgow coma scale, and dolls eye movement, arterial pressure monitoring, cardiac output/pulmonary artery pressure monitoring, and detection of life threatening abnormalities
6. Admission & discharge of critically ill patients
7. Nutritional needs – gastrostomy feeds, pharyngeal feeds, jejunostomy feeds, TPN, formula preparation & patient education.
8. Assessment of patient for alteration in blood sugar levels monitoring blood sugar levels periodically & administering insulin periodically.

9. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, use of insulin syringes/ tuberculin, monitoring fluid therapy, blood administration.

10. Setting up dialysis machine and starting, monitoring and closing dialysis

11. Procedures for prevention of infections:

Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions.

12. Collection of specimen.

13. Setting, use & maintenance of basic equipment, ventilator, O2 analyzer, monitoring equipment, transducers, defibrillator, infusion & syringe pumps, centrifuge machine.

#### **IV. Other Procedures**

**CLINICAL SPECIALITY-II**  
**MEDICAL SURGICAL NURSING- ONCOLOGY NURSING**

Placement: II Year

Hours of Instruction  
Theory: 150 hours  
Practicals: 950 hours  
Total: 1100 hours

**Course Description**

This course is designed to assist students in developing expertise and indepth understanding in the field of oncology Nursing. It will help students to develop advanced skills for nursing intervention in various oncological conditions. It will enable the student to function as oncology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of oncology nursing.

**Objectives**

1. Explain the prevention, screening and early detection of cancer
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of oncological disorders of various body systems
3. Describe the psychosocial effects of cancer on patients and families.
4. Demonstrate skill in administering/assisting in various treatment modalities used for patients with cancer
5. Apply nursing process in providing holistic care to patients with cancer.
6. Apply specific concepts of pain management
7. Appreciate the care of death and dying patients and value of bereavement support.
8. Describe the philosophy, concept and various dimensions of palliative care
9. Appreciate the role of alternative systems of medicine in care of cancer patients
10. Appreciate the legal & ethical issues relevant to oncology nursing
11. Recognize and manage Oncological emergencies
12. Counsel the patients with cancer and their families
13. Incorporate evidence based nursing practice and identify the areas of research in the field of oncology nursing
14. Recognize the role of oncology nurse practitioner as a member of oncology team
15. Collaborate with other agencies and utilize resources in caring for cancer patients.

16. Teach and supervise nurses and allied health workers.

17. Design a layout and develop standards for management of oncology units/hospitals and nursing care.

**Content Outline**

Unit	Hours	Content
I	4	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Epidemiology-Incidence, Prevalence – Global, National, State and Local</li> <li><input type="checkbox"/> Disease burden, concept of cancer, risk factors</li> <li><input type="checkbox"/> Historical perspectives</li> <li><input type="checkbox"/> Trends and issues</li> <li><input type="checkbox"/> Principles of cancer management</li> <li><input type="checkbox"/> Roles and responsibilities of oncology nurse</li> </ul>
II	5	<p><b>The Nature of Cancer</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Normal cell biology</li> <li><input type="checkbox"/> The Immune system</li> <li><input type="checkbox"/> Pathological and pathophysiological changes in tissues</li> <li>• Biology of the cancer cell</li> <li>• Clone formation Transformation</li> <li>• Tumor stem lines</li> <li>• Structure of a solid tumor</li> <li>• Products produced by the tumor</li> <li>• Systemic effects of tumor growth</li> </ul>
III	4	<p><b>Etiology of Cancer</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Carcinogenesis,</li> <li><input type="checkbox"/> Theories of cancer causation</li> <li><input type="checkbox"/> Risk factors</li> <li><input type="checkbox"/> Carcinogens – genetic factors, chemical carcinogens, radiation, viruses, Immune system failure, rapid tissue proliferation</li> <li><input type="checkbox"/> Hormone changes, diet, emotional factors</li> </ul>
IV	10	<p><b>Diagnostic Evaluation</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Health assessment: History taking, physical examination,</li> <li><input type="checkbox"/> Staging and grading of tumors,</li> <li><input type="checkbox"/> TNM Classification</li> <li><input type="checkbox"/> Common diagnostic tests</li> <li>• Blood investigation: Haemetological, Bio-chemical, Tumor markers, Hormonal assay</li> <li>• Cytology:Fine needle aspiration cytology(FNAC)</li> <li>• Histopathology: Biopsy</li> <li>• Radiological assessment: MRI, Ultrasound, Computed tomography, Mammography, Positron emission</li> </ul>



		<p>tomography(PET), Radio nuclide imaging, Functional metabolism imaging</p> <ul style="list-style-type: none"> <li>• Endoscopies</li> </ul> <p>Nurses responsibilities in diagnostic measures</p>
V	10	<p><b>Levels of prevention and care</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer,</li> <li><input type="checkbox"/> Self examination-Oral, Breast, Testicular</li> <li><input type="checkbox"/> Secondary prevention – early diagnosis.</li> <li><input type="checkbox"/> Screening</li> <li><input type="checkbox"/> Tertiary prevention – disability limitation,</li> <li><input type="checkbox"/> Rehabilitation :Mobility , Speech, Bowel and bladder, Ostomies etc</li> <li><input type="checkbox"/> Patient and family education,</li> <li><input type="checkbox"/> Discharge instruction, follow-up care and use of community resources.</li> </ul>
VI	10	<p><b>Cancer Treatment Modalities and Nurse’s Role</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b><i>Surgery</i></b> <ul style="list-style-type: none"> <li>• Principles of surgical oncology</li> <li>• Current surgical strategy,</li> <li>• Determining surgical risk</li> <li>• Special surgical techniques</li> <li>• Pre-intra-postoperative nursing care</li> <li>• Acute and chronic surgical complications</li> <li>• Future directions and advances</li> </ul> </li> <li><input type="checkbox"/> <b><i>Chemotherapy</i></b> <ul style="list-style-type: none"> <li>• Principles and classification of chemotherapeutics</li> <li>• Pharmacology of antineoplastic drugs- Mechanism of action, Absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity</li> <li>• Calculating drug doses,</li> <li>• Therapeutic response to chemotherapy-Tumor variables, drug resistance,</li> <li>• Safety precautions</li> </ul> </li> <li><input type="checkbox"/> <b><i>Radiation Therapy</i></b> <ul style="list-style-type: none"> <li>• Physics of radiotherapy</li> <li>• Types of ionizing rays</li> <li>• Radiation equipments:Linear accelerator, cobalt, Implants,Isotopes,</li> <li>• Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy</li> <li>• Effects of radiation on the body tissue,</li> <li>• Radiation biology – cell damage hypoxic cells, alteration of</li> </ul> </li> </ul>

		<p>tumor kinetics.</p> <ul style="list-style-type: none"> <li>• Approaches to radiation therapy –</li> <li>• External radiotherapy</li> <li>• Internal radiotherapy – unsealed,</li> <li>• Sealed sources.</li> <li>• Effectiveness of radiotherapy-Radiosensitivity, treatment effects</li> <li>• Complications of radiotherapy</li> <li>• Radiation safety: Standards of Bhaba Atomic Research Centre(BARC)</li> <li>□ <b>Bone Marrow Transplantation /Stem Cell Transplantation</b></li> <li>• Types, indications, transplantation procedure, complications and nursing management</li> <li>• Types and donor sources</li> <li>• Preparation and care of donor and recipient</li> <li>• Bone marrow bank</li> <li>• Legal and ethical issues</li> <li>□ <b>Immunotherapy (Biotherapy)</b></li> <li>• Concepts and principles</li> <li>• Classification of agents</li> <li>• Treatment and applications</li> <li>□ <b>Gene Therapy</b></li> <li>• Current Concepts and practices</li> <li>□ <b>Alternative and Complementary Therapies</b></li> <li>• Current practices</li> </ul>
VII	10	<p><b>Pain management:- Theories, types and</b></p> <ul style="list-style-type: none"> <li>• Nature of cancer pain</li> <li>• Pathophysiology of pain</li> <li>• Pain threshold</li> <li>□ <b>Assessment of pain</b></li> <li>• Principles of cancer pain control</li> <li>• Pharmacological: Opioid and non-opioid analgesic therapy</li> <li>• Patient controlled analgesia(PCA)</li> <li>• Other invasive techniques of pain control</li> <li>• Recent developments in Cancer pain</li> <li>□ <b>Non- Pharmacological pain relief technique-</b></li> <li>• Complementary therapies(Music, massage, meditation, relaxation techniques, biofeed back etc)</li> <li>• Psychological intervention in pain control</li> <li>• Alternative system of medicines</li> </ul> <p>Role of nurse</p>
VIII	5	<p><b>Palliative care</b></p> <ul style="list-style-type: none"> <li>□ Definition and scope, philosophy</li> <li>□ Concept and elements of palliative care</li> </ul>

		<input type="checkbox"/> Global and Indian perspective of palliative care <input type="checkbox"/> Quality of life issues <input type="checkbox"/> Communication skill <input type="checkbox"/> Nursing perspective of palliative care and its elements <input type="checkbox"/> Home care <input type="checkbox"/> Hospice care Role of nurse in palliative care
IX	2	<b>Infection control:</b> <ul style="list-style-type: none"> <li>• Process of infection, risk of hospitalization, nosocomial infections- prevention and control of infection in acute, long term care facility and community based care</li> <li>• Standard safety measures</li> </ul>
X	30	<b>Nursing Care of Patients With Specific Malignant Disorders</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Malignancies of G.I. system-oral, oesophagus, stomach, rectal, liver &amp; pancreas, care of ostomies/stoma</li> <li><input type="checkbox"/> Respiratory malignancies</li> <li><input type="checkbox"/> Genito urinary system malignancies- prostate Bladder, renal testicular malignancies,</li> <li><input type="checkbox"/> Gynecological malignancies-cervix, uterus, ovary</li> <li><input type="checkbox"/> Hematological malignancies-Lymphomas, Leukemias.</li> <li><input type="checkbox"/> Malignancies of musculoskeletal system</li> <li><input type="checkbox"/> Endocrine malignancies</li> <li><input type="checkbox"/> Skin</li> <li><input type="checkbox"/> Head and Neck -brain tumors</li> <li><input type="checkbox"/> Other malignancies – Breast cancer, AIDS related Malignancies (Kaposi's Sarcoma)</li> </ul>
XI	10	<b>Paediatric malignancies</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Leukemia, Lymphoma, Neuro- blastoma</li> <li><input type="checkbox"/> Wilm's tumor, Soft tissue sarcoma, Retinoblastoma</li> <li><input type="checkbox"/> Nursing Management of children with Paediatric Malignancies</li> </ul>
XII	15	<b>Nursing Management of Physiological Conditions and Symptoms of Cancer Patient</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Nutrition: - effects of cancer on nutritional Status and its consequences:-Anemia, Cachexia, Xerostomia, mucositis, Dysphagia , nausea and vomiting, constipation, diarrhoea, electrolyte imbalances, taste alterations</li> <li><input type="checkbox"/> Impaired mobility: Decubitus ulcer, pathologic fractures, thrombophlebitis, pulmonary embolism, contractures, footdrop</li> </ul> <b>Other symptoms</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Dyspepsia &amp; hiccup, dyspnoea</li> <li><input type="checkbox"/> intestinal obstruction,</li> </ul>

		<input type="checkbox"/> Fungating wounds <input type="checkbox"/> Anxiety & depression, insomnia <input type="checkbox"/> Lymph edema <b>Impact of cancer on sexuality:</b> <input type="checkbox"/> Effects of radiotherapy/ chemotherapy/surgery on sexuality of the cancer patient <input type="checkbox"/> Nursing management of cancer patients experiencing sexual dysfunction <input type="checkbox"/> Sexual counseling
XIII	10	<b>Cancer Emergencies</b> <input type="checkbox"/> Disseminated intravascular coagulation(DIC), <input type="checkbox"/> Malignant pleural effusion <input type="checkbox"/> Neoplastic cardiac tamponade and septic shock spinal cord compression <input type="checkbox"/> Superior venacava syndrome <input type="checkbox"/> Metabolic emergency: hyper and hypo calcemia <input type="checkbox"/> Surgical emergency <input type="checkbox"/> Urological emergency <input type="checkbox"/> Hemorrhage <input type="checkbox"/> Organ obstruction <input type="checkbox"/> Brain metastasis <input type="checkbox"/> Nurses role in managing oncologic emergencies
XIV	8	<b>Psycho-Social Aspects of Nursing Care</b> <input type="checkbox"/> Psychological responses of patients with cancer <input type="checkbox"/> Psychosocial assessment – <input type="checkbox"/> Crisis intervention, coping mechanisms <input type="checkbox"/> Stress management, spiritual/cultural care and needs <input type="checkbox"/> Counseling: individual and family <input type="checkbox"/> Maximizing quality of life of patient and family Ethical, moral and legal issues- <input type="checkbox"/> End of life care <input type="checkbox"/> Grief and grieving process <input type="checkbox"/> Bereavement support <input type="checkbox"/> Care of Nurses who care for the dying.
XV	2	<b>Layout and Design of an oncology institution/ ward, OPD, chemotherapy unit, Bone marrow transplantation unit, Pain clinic etc</b> <input type="checkbox"/> Practice Standards of oncology nursing • Policies and Procedures <input type="checkbox"/> Establishing Standing orders and Protocols Quality Assurance Programme in oncology units <input type="checkbox"/> Nursing audit

### Clinical Experience

S.No.	Deptt./ Unit	No. of Week	Total Hours
1	Medical Oncology ward	6	180 Hours
2	Surgical Oncology ward	6	180 Hours
3	Bone marrow transplantation Unit	2	60 Hours
4	Operation Theatre	2	60 Hours
5	Radiotherapy Unit	2	60 Hours
6	Chemotherapy Unit	4	120 Hours
7	Out patient department and pain clinic	2	60 Hours
8	Pediatric Oncology ward	2	60 Hours
9	Palliative Care ward	2	60 Hours
10	Community oncology	2	60 Hours
11	Hospice	1	30 Hours
12	Other field visits	1	30 Hours
<b>Total</b>		<b>32 Weeks</b>	<b>960 Hours</b>

### Procedures Observed

1. CT Scan
2. MRI
3. PET Scan(Positron Emission Tomography)
4. Ultra sound
5. Mammography
6. Radio Nuclide Imaging
7. Bone Scan
8. Thyroid Function Test
9. Functional and Metabolic Imaging
10. Transportation of radioactive materials
11. Others

### Procedures Assisted

1. IV cannulation – Open method
2. Chemotherapy
3. Radiotherapy – Brachytherapy – Low Density Radiation, High Density Radiation.
4. Interstitial implantation
5. Bio-therapy and Gene therapy
6. Teletherapy – Treatment planning
7. Bone marrow aspiration and biopsy
8. Biopsy – tissue
9. FNAC – Fine Needle Aspiration Cytology and biopsy
10. Advance Cardiac life support

11. Endotracheal intubation
12. Defibrillation Ventilation
13. Tracheostomy
14. Thoracentesis
15. Paracentesis
16. Lumbar Puncture
17. Arterial Blood Gas
18. Nerve Block
19. Chest tube insertion
20. Intercostal drainage
21. CVP monitoring

**Procedure Performed**

1. Screening for cancer
2. Assessment of pain
3. Assessment of Nutritional status
4. Care of Tracheostomy
5. Endotracheal intubation
6. Gastric gavage
7. Pap smear
8. IV cannulation
9. Care of surgical flaps
10. Care of ostomies
11. Blood transfusion and component therapy
12. Counseling
13. Practice standard safety measures
14. Care of dead body and mortuary formalities

**Other procedures**

**(As per the institutional protocol):**

1. Alternative therapies

## CLINICAL SPECIALITY – II

### MEDICAL SURGICAL NURSING- NEUROSCIENCES NURSING

Placement: II Years

Hours of Instruction  
Theory – 150 Hours  
Practical- 950 Hours  
Total : 1100 Hours

#### Course Description

This course is designed to assist students in developing expertise and indepth knowledge in the field of neurology and neurosurgical Nursing. It will help students to develop advanced skills for nursing intervention in caring for patients with neurological and neurosurgical disorders. It will enable the student to function as neuroscience nurse practitioner/ specialist. It will further enable the student to function as educator, manager and researcher in the field of neurology and neurosurgical Nursing.

#### Objectives

At the end of the course the students will be able to

1. Appreciate trends and issues related to neurology and neurosurgical Nursing.
2. Review the anatomy and physiology of nervous system
3. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of patients with neurological and neurosurgical disorders
4. Perform neurological assessment and assist in diagnostic procedures
5. Describe the concepts and principles of neuroscience nursing
6. Describe the various drugs used in neurosciences and nurses responsibility
7. Assist in various therapeutic and surgical procedures in neuroscience nursing
8. Demonstrate advance skills/competence in managing patients with neurological and neurosurgical disorder following nursing process approach
9. Identify psychosocial problems of patients with disabilities and assist patients and their family to cope with emotional distress, spiritual, grief and anxiety
10. Participate in preventive, promotive and rehabilitative services for neurological and neurosurgical patients.
11. Explain the legal and ethical issues related to brain death, organ transplantation and practice of neuroscience nursing
12. Incorporate evidence based nursing practice and identify the areas of research in the field of neuroscience nursing

13. Organise and conduct inservice education program for nursing personnel.
14. Develop standards of care for quality assurance in neuroscience nursing practice
15. Identify the sources of stress and manage burnout syndrome among health care providers.
16. Teach and supervise nurses and allied health workers.
17. Plan and develop physical layout of neuro intensive care unit

### Course Content

Unit	Hours	Content
I	5	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>□ Introduction to neuroscience(neurological and neurosurgical) nursing</li> <li>• History-Development in neurological and neurosurgical nursing, Service &amp; education</li> <li>• Emerging trends and issues in neurology and neuro surgery and its implication to nursing.</li> <li>• neurological and neurosurgical problems –</li> <li>• Concepts, principles and nursing perspectives</li> <li>• Ethical and legal issues</li> <li>• Evidence based nursing and its application in neurological and neurosurgical nursing</li> </ul>
II	5	<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li>□ Major health problems-</li> <li>□ Risk factors associated with neurological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations, occupational and infections.</li> <li>□ Health promotion, disease prevention, life style modification and its implications to nursing</li> </ul> <p>Alternate system of medicine/complementary therapies</p>
III	10	<p><b>Review of Anatomy and physiology</b></p> <ul style="list-style-type: none"> <li>□ Embryology</li> <li>□ Structure and functions of Nervous system- CNS, ANS, cerebral circulation , cranial and spinal nerves and reflexes, motor and</li> </ul>



		<p>sensory functions</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Sensory organs</li> </ul>
IV	15	<p><b>Assessment and diagnostic measures</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Assessment <ul style="list-style-type: none"> <li>• History taking</li> <li>• Physical assessment, psychosocial assessment</li> <li>• Neurological assessments, Glasgow coma scale interpretation &amp; its relevance to nursing.</li> <li>• Common assessment abnormalities</li> </ul> </li> <li><input type="checkbox"/> Diagnostic measures <ul style="list-style-type: none"> <li>• Cerebro spinal fluid analysis</li> <li>• Radiological studies-Skull and spine X-ray Cerebral Angiography, CT Scan, Single Photon Emission Computer Tomography(SPECT), MRI (Magnetic Resonance Imaging), MRA, MRS, Functional MRI, Myelography, PET (Positron Emission Test), Interventional radiology.</li> <li>• Electorgraphic studies- Electro encephalo graphy, MEG, EMG, video EEG,</li> <li>• Nerve conduction studies-Evoked potentials, visual evoked potentials, brain stem auditory evoked potentials, somatosensory evoked potentials</li> <li>• Ultrasound studies-Carotid duplex, transcranial Doppler sonography,</li> <li>• Immunological studies</li> <li>• Biopsies – muscle, nerve and Brain.</li> </ul> </li> </ul> <p>Interpretation of diagnostic measures Nurse’s role in diagnostic tests</p>
V	5	<p><b>Meeting Nutritional needs of neurological patients</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Basic nutritional requirements</li> <li><input type="checkbox"/> Metabolic changes following injury and starvation</li> <li><input type="checkbox"/> Nutritional assessment</li> <li><input type="checkbox"/> Common neurological problems that interfere with nutrition and strategies for meeting their nutritional needs</li> <li><input type="checkbox"/> Special metabolic and electrolyte imbalances</li> <li><input type="checkbox"/> Chronic fatigue syndrome</li> </ul> <p><b>Drugs used in neurological and neurosurgical disorders</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Classification</li> <li><input type="checkbox"/> Indications, contraindications, actions and effects, toxic effects</li> </ul> <p>Role of nurse</p>

VII	10	<p><b>Traumatic conditions.</b></p> <p>□ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Cranio cerebral injuries.</li> <li>• Spinal &amp; Spinal cord injuries.</li> <li>• Peripheral nerve injuries.</li> <li>• Unconsciousness</li> </ul>
VIII	10	<p><b>Cerebro vascular disorders.</b></p> <p>□ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Stroke &amp; arterio venous thrombosis.</li> <li>• Haemorrhagic embolus.</li> <li>• Cerebro vascular accidents.</li> <li>• Intracranial aneurysm.</li> <li>• Subarchnoid Haemorrhage.</li> <li>• Arterio venous fistula.</li> <li>• Brain tumours</li> </ul> <p>□ Diseases of cranial nerves;Trigiminal neuralgia, Facial palsy, Bulbar palsy.</p>
IX	10	<p><b>Degenerating and demyelinating disorders</b></p> <p>□ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Motor neuron diseases.</li> <li>• Movement disorders- Tics, dystonia, chorea, wilson’s disease, essential tremors</li> <li>• Dementia.</li> <li>• Parkinson’s disease.</li> <li>• Multiple sclerosis.</li> <li>• Alzemier’s</li> </ul>
X	10	<p><b>Neuro infections</b></p> <p>□ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and</p>

		<p>Nursing management of Neuro infections</p> <ul style="list-style-type: none"> <li>• Meningitis-types</li> <li>• Encephalitis.</li> <li>• Poliomyelitis.</li> <li>• Parasitic infections.</li> <li>• Bacterial infections</li> <li>• Neurosyphilis.</li> <li>• HIV &amp; AIDS.</li> <li>• Brain abscess.</li> </ul>
XI	10	<p><b>Paroxysmal disorders.</b></p> <p>□ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Epilepsy and seizures.</li> <li>• Status epilepticus.</li> <li>• Syncope.</li> <li>• Menier’s syndrome.</li> <li>• Cephalgia.</li> </ul>
XII	10	<p><b>Developmental disorders.</b></p> <p>□ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Hydrocephalus.</li> <li>• Craniosynostosis.</li> <li>• spina bifida- Meningocele, Meningomyelocele</li> <li>encephalocele</li> <li>• syringomyelia.</li> <li>• Cerebro vascular system anomalies.</li> <li>• Cerebral palsies.</li> <li>• Down’s syndrome</li> </ul>
XIII	10	<p><b>Neuro muscular disorders.</b></p> <p>□ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Polyneuritis – G B Syndrome.</li> <li>• Muscular dystrophy.</li> <li>• Myasthenia gravis.</li> <li>• Trigeminal neuralgia.</li> </ul>

		<ul style="list-style-type: none"> <li>• Bell’s palsy.</li> <li>• Menier’s disease</li> <li>• Carpal tunnel syndrome</li> <li>• Peripheral neuropathies</li> </ul>
XIV	5	<p><b>Neoplasms – surgical conditions.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, pathophysiology, Clinical types, Clinical features,</li> </ul> <p>diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Space occupying lesions -types</li> <li>• Common tumors of CNS,</li> </ul>
XV	5	<p><b>Other disorders</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, pathophysiology, Clinical types, Clinical features,</li> </ul> <p>diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Metabolic disorders- diabetes, insipidus, metabolic encephalopathy</li> <li><input type="checkbox"/> Sleep disorders</li> <li><input type="checkbox"/> Auto immune disorders- multiple sclerosis, inflammatory myopathies</li> </ul>
XVI	10	<p><b>Neuro emergencies</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, pathophysiology, Clinical types, Clinical features,</li> </ul> <p>diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Increased intracranial pressure</li> <li>• Unconscious</li> <li>• Herniation syndrome</li> <li>• Seizures</li> <li>• Severe head injuries</li> <li>• Spinal injuries</li> <li>• Cerebro vascular accidents</li> </ul>
XVII	5	<p><b>Rehabilitation.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concept and Principles of Rehabilitation.</li> <li><input type="checkbox"/> Factors affecting quality of life and coping</li> <li><input type="checkbox"/> Rehabilitation in acute care setting, and following stroke, head injury and degenerative disorders of brain</li> <li><input type="checkbox"/> Physiotherapy.</li> <li><input type="checkbox"/> Counselling</li> <li><input type="checkbox"/> Care giver’s role</li> </ul> <p><b>Speech &amp; Language.</b>-Neurogenic communication disorders, Speech therapy</p>

XVIII	5	<b>Ethical and legal issues in neuroscience nursing</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Brain death and organ transplantation</li> <li><input type="checkbox"/> Euthanasia</li> <li><input type="checkbox"/> Negligence and malpractice</li> <li><input type="checkbox"/> Nosocomial infections</li> </ul>
XIX	5	<ul style="list-style-type: none"> <li><input type="checkbox"/> Quality assurance in neurological nursing practice</li> <li><input type="checkbox"/> Role of advance practitioner in neurological nursing</li> <li><input type="checkbox"/> Professional practice standards</li> <li><input type="checkbox"/> Quality control in neurologic nursing</li> <li><input type="checkbox"/> Nursing audit</li> <li><input type="checkbox"/> Neuro ICU <ul style="list-style-type: none"> <li>• Philosophy, aims and objectives</li> <li>• Policies, staffing pattern, design and physical plan of neuro ICU</li> <li>• Team approach, functions</li> <li>• Psychosocial aspects in relation to staff and clients of neuro ICU,</li> <li>• In-service education</li> </ul> </li> </ul>

## Practical

**Total = 960 Hours**  
**1 Week = 30 Hours**

<b>S.No.</b>	<b>AREA OF POSTING</b>	<b>No. of Week</b>	<b>Total Hours</b>
1	O.P.D.	2	60
2	Casualty	2	60
3	Diagnostics	2	60
4	Neuro psychiatry	1	30
5	Neuro Medical wards	4	120
6	Paediatric Neuro ward	2	60
7	Neuro surgical wards	4	120
8	Head Injury ward	3	90
9	ICU- neuro medicine	4	120
10	I.C.U.- neuro surgical	4	120
11	Rehabilitation	2	60
12	Operation Theatre	2	60
<b>Total</b>		<b>32 Weeks</b>	<b>960 Hours</b>

## ESSENTIAL NEURO NURSING SKILLS

### I. Procedures Observed

1. CT scan
2. MRI
3. PET
4. EEG
5. EMG
6. Sleep pattern studies/Therapy
7. Radiographical studies
8. Neuro surgeries
9. Nerve conduction studies
10. Ultrasound studies
11. Any other

### II. Procedures Assisted

1. Advanced Cardiac life support
2. Lumbar Puncture
3. Biopsies – muscle, nerve and Brain
4. Arterial Blood Gas
5. ECG Recording
6. Blood transfusion
7. IV cannulation – open method

8. Endotracheal intubation
9. Ventilation
10. Tracheostomy
11. ICP monitoring
12. Gama Knife
13. Cereberal angiography
14. Myelography
15. Neuro surgeries

### **III. Procedures Performed:**

1. Airway management
  - a. Application of Oro Pharyngeal Airway
  - b. Care of Tracheostomy
  - c. Conduct Endotracheal Intubation
  - d. use of AMBU bag, artificial respirators
  - e. Setting of Ventilators and Care of patients on ventilators
2. Cardio Pulmonary Resuscitation -Defibrillation
3. Neurological assessment -Glasgow coma scale
4. Gastric Lavage
5. IV Cannulation
6. Administration of emergency IV Drugs, fluid
7. Care of patients with incontinence, bladder training  
Catheterization
8. Care of patients on traction related to the neurological conditions
9. Blood Administration.
10. Muscle strengthening exercises
11. Guidance and counseling
12. Monitoring – management and care of monitors.

### **IV. Other Procedures:**

**CLINICAL SPECIALITY – II**  
**MEDICAL SURGICAL NURSING- NEPHRO-UROLOGY NURSING**

Placement : II Year

Hour of Instruction  
Theory : 150 Hours  
Practical : 950 Hours  
Total : 1100 Hours

**Course Description**

This course is designed to assist students in developing expertise and indepth understanding in the field of Nephro and urological Nursing. It will help students to develop advanced skills for nursing intervention in various nephro and urological conditions. It will enable the student to function as nephro and urology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of nephro and urology nursing

**Objectives**

At the end of the course the students will be able to:

1. Appreciate trends and issues related to nephro and urological nursing
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of nephro and urological conditions
3. Perform physical, psychosocial & spiritual assessment
4. Assist in various diagnostic, therapeutic and surgical interventions
5. Provide comprehensive nursing care to patients with nephro and urological conditions
6. Describe the various drugs used in nephro and urological conditions and nurses responsibility
7. Demonstrate skill in handling various equipments/gadgets used for patients with nephro and urological conditions
8. Appreciate team work & coordinate activities related to patient care.
9. Practice infection control measures.
10. Identify emergencies and complications & take appropriate measures
11. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
12. Discuss the legal and ethical issues in nephro and urological nursing
13. Identify the sources of stress and manage burnout syndrome among health care providers
14. Appreciate the role of alternative system of medicine in the care of patient
15. Incorporate evidence based nursing practice and identify the areas of research in the field of nephro and urological nursing
16. Teach and supervise nurses and allied health workers.
17. Design a layout of kidney transplant unit and dialysis unit
18. Develop standards of nephro urological nursing practice



## Course Content

Unit	Hours	Content
I	5	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical development: trends and issues in the field of nephro and urological nursing.</li> <li><input type="checkbox"/> nephro and urological problems</li> <li><input type="checkbox"/> Concepts, principles and nursing perspectives</li> <li><input type="checkbox"/> Ethical and legal issues</li> <li><input type="checkbox"/> Evidence based nursing and its application in nephro and urological nursing(to be incorporated in all the units)</li> </ul>
II	5	<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Major health problems- urinary dysfunction, urinary tract infections, Glomerular disorders, obstructive disorders and other urinary disorders</li> <li><input type="checkbox"/> Risk factors associated with nephro and urological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations</li> <li><input type="checkbox"/> Health promotion, disease prevention, life style modification and its implications to nursing</li> </ul> <p>Alternate system of medicine/complementary therapies</p>
III	5	<p><b>Review of anatomy and physiology of urinary system</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Embryology</li> <li><input type="checkbox"/> Structure and functions</li> <li><input type="checkbox"/> Renal circulation</li> <li><input type="checkbox"/> Physiology of urine formation</li> <li><input type="checkbox"/> Fluid and electrolyte balance</li> <li><input type="checkbox"/> Acid base balance</li> <li><input type="checkbox"/> Immunology specific to kidney</li> </ul>
IV	20	<p><b>Assessment and diagnostic measures</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> History taking</li> <li><input type="checkbox"/> Physical assessment, psychosocial assessment</li> <li><input type="checkbox"/> Common assessment abnormalities-dysurea, frequency, enuresis, urgency, hesitancy, hematuria, pain, retention, burning on urination, pneumaturia, incontinence, nocturia, polyurea, anuria, oliguria,</li> <li><input type="checkbox"/> Diagnostic tests-urine studies, blood chemistry, radiological</li> </ul>

		<p>procedures-KUB, IVP,nephrotomogram, retrograde pyelogram, renal arteriogram, renalultrasound, CT scan, MRI, cystogram, renal scan, biopsy, endoscopy-cystoscopy, urodynamics studiescystometrogram, urinary flow study, sphincter electromyography, voiding pressure flow study, videourodynamics, Whitaker study</p> <p>Interpretation of diagnostic measures</p> <p>Nurse's role in diagnostic tests</p>
V	5	<p><b>Renal immunopathy/Immunopathology</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> General Concept of immunopathology</li> <li><input type="checkbox"/> Immune mechanism of glomerular vascular disease</li> <li><input type="checkbox"/> Role of mediator systems in glomerular vascular disease</li> </ul>
VI	15	<p><b>Urological Disorders and Nursing Management</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of <ul style="list-style-type: none"> <li><input type="checkbox"/> Urinary tract infections- pyelonephritis, lower urinary tract infections,</li> <li><input type="checkbox"/> Disorders for ureters, bladder and urethra</li> <li><input type="checkbox"/> Urinary tract infections- <ul style="list-style-type: none"> <li><input type="checkbox"/> Urinary dysfunctions- urinary retention, urinary incontinence, urinary reflux,</li> <li><input type="checkbox"/> Bladder disorders- neoplasms, calculi, neurogenic bladder, trauma, congenital abnormalities</li> <li><input type="checkbox"/> Benign prostatic hypertrophy(BPH)</li> <li><input type="checkbox"/> Ureteral disorders: ureteritis, ureteral trauma, congenital anomalies of ureters</li> <li><input type="checkbox"/> Urethral disorders- tumours, trauma, congenital anomalies of ureters,</li> </ul> </li> </ul> </li> </ul>
VII	25	<p><b>Glomerular disorders and nursing management</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of <ul style="list-style-type: none"> <li><input type="checkbox"/> Glomerular nephritis- chronic, acute , nephritic syndrome</li> <li><input type="checkbox"/> Acute Renal failure and chronic renal failure.</li> </ul> </li> </ul>

		<input type="checkbox"/> Renal calculi <input type="checkbox"/> Renal tumours-benign and malignant <input type="checkbox"/> Renal trauma <input type="checkbox"/> Renal abscess <input type="checkbox"/> Diabetic nephropathy <input type="checkbox"/> Vascular disorders <input type="checkbox"/> Renal tuberculosis <input type="checkbox"/> Polycystic <input type="checkbox"/> Congenital disorders <input type="checkbox"/> Hereditary renal disorders
VIII	10	<input type="checkbox"/> Management of Renal emergencies <input type="checkbox"/> Anuria <input type="checkbox"/> Acute Renal failure <input type="checkbox"/> Poisoning <input type="checkbox"/> Trauma <input type="checkbox"/> Urine retention <input type="checkbox"/> Acute graft rejection <input type="checkbox"/> Hematuria <input type="checkbox"/> Nurse's role
IX	10	<b>Drugs used in urinary disorders</b> <input type="checkbox"/> Classification <input type="checkbox"/> Indications, contraindications, actions and effects, toxic effects <input type="checkbox"/> Role of nurse
X	10	<b>Dialysis</b> <input type="checkbox"/> Dialysis- Historical, types, Principles, goals <ul style="list-style-type: none"> <li>• Hemodialysis- vascular access sites- temporary and permanent</li> <li>• Peritoneal dialysis</li> </ul> <input type="checkbox"/> Dialysis Procedures- steps, equipments, maintenance, <input type="checkbox"/> Role of nurse- pre dialysis, intra and post dialysis <input type="checkbox"/> Complications- <input type="checkbox"/> Counseling <input type="checkbox"/> patient education <input type="checkbox"/> Records and reports
XI	10	<input type="checkbox"/> Kidney transplantation <input type="checkbox"/> Nursing management of a patient with Kidney transplantation <input type="checkbox"/> Kidney transplantations- a historical review <input type="checkbox"/> Immunology of graft rejections <input type="checkbox"/> The recipient of a renal transplant <input type="checkbox"/> Renal preservations

		<input type="checkbox"/> Human Leucocytic Antigen(HLA) typing matching and cross matching in renal transplantation <input type="checkbox"/> Surgical techniques of renal transplantations <input type="checkbox"/> Chronic renal transplant rejection <input type="checkbox"/> Complication after KTP: Vascular and lymphatic, Uroloical, cardiovascular, liver and neurological, infectious complication <input type="checkbox"/> KTP in children and management of pediatric patient with KTP <input type="checkbox"/> KTP in developing countries <input type="checkbox"/> Results of KTP <input type="checkbox"/> Work up of donor and recipient for renal transplant <input type="checkbox"/> Psychological aspect of KTP and organ donations <input type="checkbox"/> Ethics in transplants <input type="checkbox"/> Cadaveric transplantation
XII	5	<input type="checkbox"/> Rehabilitation of patient with nephrological problems <input type="checkbox"/> Risk factors and prevention <input type="checkbox"/> Rehabilitation of patients on dialysis and after kidney transplant <input type="checkbox"/> Rehabilitation of patients after urinary diversions <input type="checkbox"/> Family and patient teaching
XIII	10	<b>Pediatric urinary disorders</b> <input type="checkbox"/> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of children with Renal Diseases -UTI, ureteral reflux, glomerulo nephritis, nephrotic syndrome infantile nephrosis, cystic kidneys, familial factors in renal diseases in childhood, Haemolytic uraemic syndrome. Benign recurrent haemturia, nephropathy, wilms' tumour
XIV	5	<b>Critical care units- dialysis , KTP unit</b> <input type="checkbox"/> Philosophy, aims and objectives <input type="checkbox"/> Policies, staffing pattern, design and physical plan of Dialysis and KTP units <input type="checkbox"/> Team approach, functions <input type="checkbox"/> Psychosocial aspects in relation to staff and clients of ICU, dialysis unit

		<input type="checkbox"/> In-service education <input type="checkbox"/> Ethical and legal issues
XV	5	<input type="checkbox"/> Quality assurance in nephrological nursing practice <input type="checkbox"/> Role of advance practioner in nephrological nursing <input type="checkbox"/> Professional practice standards <input type="checkbox"/> Quality control in nephrological nursing <input type="checkbox"/> Nursing audit

## Practicals

**Total = 960 Hours**  
**1 Week = 30 Hours**

S. No.	Deptt./ Unit	No. of Week	Total Hours
1	Nephrology Ward	6	180 Hours
2	Pediatrics	2	60 Hours
3	Critical Care Unit	2	60 Hours
4	Urology Ward	6	180 Hours
5	Dialysis Unit	4	120 Hours
6	Kidney Transplantation Unit	2	60 Hours
7	URO OT	2	60 Hours
8	Emergency Wards	2	60 Hours
9	Uro Nephro OPDs	4	120 Hours
10	Diagnostic Labs	2	60 Hours
<b>Total</b>		<b>32Weeks</b>	<b>960Hours</b>

### I. Procedures Observed

1. CT Scan
2. MRI
3. Radiographic studies
4. Urodynamics
5. Hemodialysis
6. Renal Surgeries

## **II. Procedures Assisted**

1. Blood transfusion
2. I V cannulation therapy
3. Arterial Catheterization
4. Insertion of central line/cvp line
5. Connecting lines for dialysis
6. Peritoneal dialysis
7. Renal biopsy
8. Endoscopies- Bladder, urethra

## **III. Procedure Performed**

1. Health assessment
2. Insertion of urethral and suprapubic catheters
3. Urine analysis
4. Catheterisation
5. Peritoneal dialysis
6. Bladder irrigation
7. Care of ostomies
8. Care of urinary drainage
9. Bladder training
10. Care of vascular access
11. Setting up dialysis machine and starting, monitoring and closing dialysis
12. Procedures for prevention of infections:
13. Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions.
14. Collection of specimen.
15. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, blood administration. monitoring -fluid therapy, electrolyte imbalance,
16. Nutritional needs , diet therapy & patient education.
17. Counselling

## **IV. OTHER PROCEDURES:**

CLINICAL SPECIALITY – II  
MEDICAL SURGICAL NURSING - ORTHOPEDIC NURSING

Placement : II Year

Hours of Instruction  
Theory : 150 Hours  
Practical : 950 Hours  
Total : 1100 Hours

**Course Description**

This course is designed to assist students in developing expertise and indepth understanding in the field of orthopedic nursing. It will help students to develop advanced skills for nursing intervention in various orthopedic conditions. It will enable the student to function as orthopedic nurse practitioner/specialist providing quality care. It will further enable the student to function as educator, manager, and researcher in the field of orthopedic nursing.

**Objectives**

At the end of the course the students will be able to:

1. Appreciate the history and developments in the field of orthopedic nursing
2. Identify the psycho-social needs of the patient while providing holistic care.
3. Perform physical and psychological assessment of patients with orthopedic conditions and disabilities.
4. Describe various disease conditions and their management
5. Discuss various diagnostic tests required in orthopedic conditions
6. Apply nursing process in providing care to patients with orthopedic conditions and those requiring rehabilitation.
7. Recognize and manage orthopedic emergencies.
8. Describe recent technologies and treatment modalities in the management of patients with orthopedic conditions and those requiring rehabilitation.
9. Integrate the concept of family centered, long term care and community based rehabilitation to patients with orthopedic conditions.
10. Counsel the patients and their families with orthopedic conditions
11. Describe various orthotic and prosthetic appliances
12. Appreciate the legal and ethical issues pertaining to patients with orthopedic conditions and those requiring rehabilitation.

13. Appreciate the role of alternative system of medicine in care of patients with orthopedic conditions
14. Incorporate evidence based nursing practice and identify the areas of research in the field of orthopedic nursing.
15. Recognize the role of orthopedic nurse practitioner and as a member of the orthopedic and rehabilitation team.
16. Teach orthopedic nursing to undergraduate students and in-service nurses.
17. Prepare a design and layout of orthopedic and rehabilitative units.

#### Course Content

Unit	Hours	Content
I	5	<b>Introduction</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical perspectives – History and trends in orthopedic nursing</li> <li><input type="checkbox"/> Definition and scope of orthopedic nursing</li> <li><input type="checkbox"/> Anatomy and physiology of Musculo-skeletal system</li> <li><input type="checkbox"/> Posture, Body landmarks Skeletal system Muscular system. Nervous system - Main nerves</li> <li><input type="checkbox"/> Healing of - Injury, bone injury,</li> <li><input type="checkbox"/> Repair of ligaments</li> <li><input type="checkbox"/> Systemic response to injury</li> <li><input type="checkbox"/> Ergonomics, Body mechanics, biomechanical measures</li> <li><input type="checkbox"/> Orthopedic team</li> </ul>
II	8	<b>Assessment of Orthopedic Patient</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Health Assessment: History, physical examination- Inspection, palpation, movement, Measurement, muscle strength Testing.</li> <li><input type="checkbox"/> Diagnostic studies – Radiological studies, Muscle enzymes, serologic studies</li> </ul>
III	15	<b>Care of patients with devices</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Splints, braces, various types of plaster cast</li> <li><input type="checkbox"/> Various types of tractions,</li> <li><input type="checkbox"/> Various types of orthopedic beds and mattresses</li> <li><input type="checkbox"/> Comfort devices</li> <li><input type="checkbox"/> Implants in orthopedic</li> <li><input type="checkbox"/> Prosthetics and Orthotics</li> </ul>
IV	8	<b>Injuries</b> Trauma & Injuries <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of :</li> <li>• Early management of Trauma</li> <li>• Fractures</li> </ul>



		<ul style="list-style-type: none"> <li>• Injuries of the <ul style="list-style-type: none"> <li><input type="checkbox"/> Shoulder and arm</li> <li><input type="checkbox"/> Elbow, fore arm, wrist, hand</li> <li><input type="checkbox"/> Hip, thigh, knee, leg, ankle, foot</li> <li><input type="checkbox"/> Spine</li> <li><input type="checkbox"/> Head injury <input type="checkbox"/> Chest injur</li> </ul> </li> <li>Polytrauma</li> <li>• Nerve injuries</li> <li>• Vascular injuries</li> <li>• Soft tissue injuries</li> <li>• Sports injuries</li> <li>• Amputation</li> </ul>
V	8	<p><b>Infections of Bones and Joints</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of : <ul style="list-style-type: none"> <li>• Tuberculosis</li> <li>• Osteomyelitis</li> <li>• Arthritis</li> <li>• Leprosy</li> </ul> </li> </ul>
VI	5	<p><b>Bone Tumours</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of: <ul style="list-style-type: none"> <li>• Bone tumors – Benign, Malignant and metastatic</li> <li>• Different types of therapies for tumors</li> </ul> </li> </ul>
VII	10	<p><b>Deformities</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and nursing management of: Scoliosis, Kyphosis, Lordosis</li> <li><input type="checkbox"/> Congenital disorders: Congenital dislocation of hip(CDH), Dislocation of patella, knee,</li> <li><input type="checkbox"/> Varus and valgus deformities,</li> <li><input type="checkbox"/> Deformities of digits,</li> <li><input type="checkbox"/> Congenital torticollis.</li> <li><input type="checkbox"/> Meningocele, meningomyelocele, spina bifida,</li> <li><input type="checkbox"/> Chromosomal disorders.</li> <li><input type="checkbox"/> Computer related deformities</li> </ul>
VIII	5	<p><b>Disorders of the spine</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Intervertebral disc prolapse, Fracture of the spine</li> <li><input type="checkbox"/> Low back disorder – Low back pain, PND, spinal stenosis, spondylosis</li> </ul>

IX	5	<p><b>Nutritional/Metabolic and Endocrine Disorders</b></p> <p><input type="checkbox"/> Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of:</p> <ul style="list-style-type: none"> <li>• Rickets,</li> <li>• Scurvy,</li> <li>• Hyper vitaminosis A and D,</li> <li>• Osteomalacia,</li> <li>Osteoporosis</li> <li>• Paget’s disease,</li> <li>• gout,</li> <li>• Gigantism,</li> <li>• Dwarfism,</li> <li>• Acromegaly.</li> <li>• Therapeutic diets for various orthopedic disorders</li> </ul>
X	8	<p><b>Neuro-Muscular Disorders:</b></p> <p><input type="checkbox"/> Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of:</p> <ul style="list-style-type: none"> <li>• Poliomyelitis, Cerebral Palsy</li> <li>• Myasthenia gravis</li> <li>• Spina bifida.</li> <li>• Peripheral nerve lesion,</li> <li>• Paraplegia, Hemiplegia, Quadriplegia.</li> <li>• Muscular dystrophy</li> </ul> <p>Chronic/Degenerative Diseases of Joints and Autoimmune Disorders:</p> <p><input type="checkbox"/> Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and nursing management of:</p> <ul style="list-style-type: none"> <li>• Osteo Arthritis</li> <li>• Rheumatoid Arthritis</li> <li>• Ankylosing spondylitis.</li> <li>• Spinal disorders.</li> <li>• Systemic Lupus Erythematosus</li> </ul>
XI	5	<p><b>Orthopedic Disorders in Children:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> General and special consideration on pediatric orthopedics</li> <li><input type="checkbox"/> Genetic disorders</li> <li><input type="checkbox"/> Congenital anomalies</li> <li><input type="checkbox"/> Growth disorders</li> <li><input type="checkbox"/> Genetic counseling</li> <li><input type="checkbox"/> Nurses role in genetic counseling</li> </ul>

XII	5	<p><b>Geriatric Problems</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Geriatric population, types of disabilities, causes, treatment and Management – Hospitalization, rest, physiotherapy, involvement of family members, social opportunities.</li> <li><input type="checkbox"/> Care at home – involvement of family and community, follow up care and rehabilitation</li> </ul>
XIV	6	<p><b>Pharmacokinetics</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Principles of drug administration</li> <li><input type="checkbox"/> Analgesics and anti inflammatory agents</li> <li><input type="checkbox"/> Antibiotics, Antiseptics,</li> <li><input type="checkbox"/> Drugs used in orthopedics and neuromuscular disorders</li> <li><input type="checkbox"/> Blood and blood components</li> <li><input type="checkbox"/> Care of drugs and nurses role</li> </ul>
XV	30	<p><b>Nurses Role in Orthopedic Conditions</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Gait analysis</li> <li><input type="checkbox"/> Urodynamic studies</li> <li><input type="checkbox"/> Prevention of physical deformities</li> <li><input type="checkbox"/> Alteration of body temperature regulatory system and immune systems</li> <li><input type="checkbox"/> Immobilization – cast, splints, braces and tractions</li> <li><input type="checkbox"/> Prevention and care of problems related to immobility</li> <li><input type="checkbox"/> Altered sleep patterns</li> <li><input type="checkbox"/> Impaired communication</li> <li><input type="checkbox"/> Self care and activities of daily living</li> <li><input type="checkbox"/> Bladder and bowel rehabilitation</li> <li><input type="checkbox"/> Sensory function rehabilitation</li> <li><input type="checkbox"/> Psychological reaction related to disabilities and disorders.</li> <li><input type="checkbox"/> Coping of individual and family with disabilities and disorders</li> <li><input type="checkbox"/> Maintaining sexuality</li> <li><input type="checkbox"/> Spirituality – A rehabilitative prospective</li> </ul> <p>Orthopedic Reconstructive Surgeries</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Replacement surgeries – Hip, Knee, Shoulder</li> <li><input type="checkbox"/> Spine surgeries</li> <li><input type="checkbox"/> Grafts and flaps surgery</li> <li><input type="checkbox"/> Deformity correction.</li> </ul> <p>Physiotherapy</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concepts, Principles, purpose,</li> <li>• Mobilization – Exercises: types, re-education in walking: Crutch walking, wheel chair, Transfer techniques,</li> </ul>

		<ul style="list-style-type: none"> <li>• Types of gaits: Non-weight bearing, partial weight bearing, four point crutch, tripod, walking with sticks, calipers</li> <li>• Forms of therapies: Hydrotherapy, electrotherapy, wax bath, heat therapy, ice, helio therapy, radiant heat,</li> <li>• Chest physiotherapy</li> </ul>
XVI	8	<p><b>Rehabilitation</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Principles of rehabilitation, definition, philosophy, process,</li> <li><input type="checkbox"/> Various types of therapies</li> <li><input type="checkbox"/> Special therapies and alternative therapies</li> <li><input type="checkbox"/> Rehabilitation counseling</li> <li><input type="checkbox"/> Preventive and restorative measures.</li> <li><input type="checkbox"/> Community based rehabilitation (CBR)</li> <li><input type="checkbox"/> Challenges in rehabilitation.</li> <li><input type="checkbox"/> Role of the nurse in rehabilitation,</li> <li><input type="checkbox"/> Legal and ethical issues in rehabilitation nursing</li> <li><input type="checkbox"/> Occupational therapy</li> </ul>
XVII	5	<p><b>National Policies and Programmes</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> National programmes for rehabilitation of persons with disability</li> <li>-</li> <li>National Institutes, artificial limbs manufacturing Corporation, District Rehabilitation Centers and their schemes</li> <li><input type="checkbox"/> Regional rehabilitation centers etc.</li> <li><input type="checkbox"/> Public policy in rehabilitation nursing</li> <li><input type="checkbox"/> The persons with disabilities act 1995,</li> <li><input type="checkbox"/> Mental rehabilitation and Multiple disabilities act 1992,</li> <li><input type="checkbox"/> The National Trust Rules 1999 and 2000</li> <li><input type="checkbox"/> Rehabilitation Council of India</li> <li><input type="checkbox"/> Legal and ethical aspects in orthopedic nursing</li> <li><input type="checkbox"/> Rehabilitation health team and different categories of team members.</li> </ul>
XVIII	4	<p><b>Quality assurance</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Standards, Protocols, Policies, Procedures</li> <li><input type="checkbox"/> Nursing audit</li> <li><input type="checkbox"/> Staffing</li> <li><input type="checkbox"/> Design of orthopedic, physiotherapy and rehabilitation unit</li> </ul>

### **Practicals**

1. Clinical practice in Orthopedic, physiotherapy and Rehabilitation Units.
2. Application of tractions and plaster casts and removal of tractions and plaster casts and other appliances.
3. Apply Theories and Nursing Process in the management of patients with orthopedic conditions.
4. Provide various types of physical and rehabilitative therapies
5. Provide health education on related disease conditions.
6. Unit management and plan - designing

### **Clinical Experience**

**Total = 960 Hours**  
**1 Week = 30 Hours**

<b>S. No.</b>	<b>Deptt./Unit</b>	<b>No. of Week</b>	<b>Total Hours</b>
1	Orthopedic Ward	8	240 Hours
2	Orthopedic Operation theatre	4	120 Hours
3	Neurosurgical Ward	2	60 Hours
4	Orthopedic O.P.D.	4	120 Hours
5	Casualty/Emergency and Trauma	4	120 Hours
6	Rehabilitation Units	2	60 Hours
7	Physiotherapy Unit	4	120 Hours
8	Paediatric /paediatric surgery unit	2	60 Hours
9	Field Visit	2	60 Hours
<b>Total</b>			
		<b>32 Weeks</b>	<b>960 Hours</b>

### **Procedures Observed**

1. X Ray
2. Ultrasound
3. MRI
4. C T Scan/bone scan
5. Arthroscopy
6. Electrothermally – assisted capsule shift or ETAC (Thermal capsulorrhaphy)
7. Fluroscopy
8. Electromyography
9. Myelography
10. Discography
11. Others

### **Procedures Assisted**

1. Blood Transfusion
2. IV cannulation and therapy
3. Ventilation

4. Various types of tractions
5. Orthopedic surgeries – Arthrocentesis, Arthroscopy, Bone lengthening, Arthrodesis, grafting, Fractures fixation, reconstructive, reimplantation, replantation, spinal decompression, transplantation of bone, muscle or articular cartilage, autografting, allografting.
6. Injection – Intra articular, intra osseous.
7. Advance Life Support

### **Procedures Performed**

1. Interpretation of X ray films.
2. Application and removal of splints, casts, and braces.
3. Care of tractions – skin and skeletal traction, pin site care.
4. Cold therapy.
5. Heat therapy
6. Hydrotherapy
7. Therapeutic exercises
8. Use of TENS (Transcutaneous electrical nerve stimulation)
9. Techniques of transportation
10. Crutch walking, walkers, wheel chair.
11. Use of devices for activities of daily living and prevention of deformities.
12. Administration of drugs: IV injection, IV cannulation, and Blood transfusion.
13. Procedures for prevention of infections: disinfection and sterilization, surveillance, fumigation.
14. Special skin/ part preparations for orthopedic surgeries.
15. Surgical dressings – Debridement.
16. Bladder and bowel training

### **Other Procedures**

**CLINICAL SPECIALITY - II**  
**MEDICAL SURGICAL NURSING - GASTRO ENTEROLOGY NURSING**

Placement : II Year

Hours of Instruction

Theory : 150 hrs.

Practical : 950 hrs.

Total : 1100 hrs.

**Course Description**

This course is designed to assist students in developing expertise and indepthunderstanding in the field of gastro enterology Nursing. It will helpstudents to develop advanced skills for nursing intervention in variousgastro enterology conditions. It will enable the student to function as gastro enterology nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of gastro enterology nursing

**Objectives**

At the end of the course the students will be able to

1. Appreciate trends and issues related to gastro enterology nusing
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of gastrointestinal conditions
3. Participate in national health programs for health promotion, prevention and rehabilitation of patients with gastrointestinal conditions
4. Perform physical, psychosocial & spiritual assessment
5. Assist in various diagnostic, therapeutic and surgical procedures
6. Provide comprehensive care to patients with gastrointestinal conditions
7. Describe the various drugs used in gastrointestinal conditions and nurses responsibility
8. Demonstrate skill in handling various equipments/gadgets used for patients with gastrointestinal conditions
9. Appreciate team work & coordinate activities related to patient care.
10. Practice infection control measures.
11. Identify emergencies and complications & take appropriate measures
12. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
13. Discuss the legal and ethical issues in GE nursing
14. Identify the sources of stress and manage burnout syndrome among health care providers
15. Appreciate the role of alternative system of medicine in care of patient
16. Incorporate evidence based nursing practice and identify the areas of research in the field of gastrointestinal nursing
17. Teach and supervise nurses and allied health workers.
18. Design a layout of Gastro entrology intensive care unit (GEICU) , liver care/transplant unit

## Course Content

Unit	Hours	Content
I	5	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical development: trends and issues in the field of gastro enterology.</li> <li><input type="checkbox"/> Gastro enterological problems</li> <li><input type="checkbox"/> Concepts, principles and nursing perspectives</li> <li><input type="checkbox"/> Ethical and legal issues</li> <li><input type="checkbox"/> Evidence based nursing and its application in gastrointestinal nursing(to be incorporated in all the units)</li> </ul>
II	5	<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Risk factors associated with GE conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations</li> <li><input type="checkbox"/> Health promotion, disease prevention, life style modification and its implications to nursing</li> <li><input type="checkbox"/> National health programmes related to gastro enterology</li> <li><input type="checkbox"/> Alternate system of medicine/complementary therapies</li> </ul>
III	5	<p><b>Review of anatomy and physiology of gastrointestinal system</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Gastrointestinal system</li> <li><input type="checkbox"/> Liver, biliary and pancreas</li> <li><input type="checkbox"/> Gerontologic considerations</li> <li><input type="checkbox"/> Embryology of GI system</li> <li><input type="checkbox"/> Immunology specific to GI system</li> </ul>
IV	15	<p><b>Assessment and diagnostic measures</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> History taking</li> <li><input type="checkbox"/> Physical assessment, psychosocial assessment</li> <li><input type="checkbox"/> Diagnostic tests <ul style="list-style-type: none"> <li>• Radiological studies:Upper GIT- barium swallow, lower GITBarrium enema,</li> <li>• Ultra sound:</li> <li>• Computed tomography</li> <li>• MRI</li> <li>• Cholangiography: Percutaneous transheptatic Cholangiogram(PTC)</li> <li>• Magnetic Resonance Cholangio pancreotography (MRCP)</li> <li>• Nuclear imaging scans(scintigraphy)</li> <li>• Endoscopy</li> <li>• Colonoscopy</li> <li>• Proctosigmoidoscopy</li> <li>• Endoscopic Retrogrde Cholongio pancreotography (ERCP)</li> </ul> </li> </ul>



		<ul style="list-style-type: none"> <li>• Endoscopic ultrasound</li> <li>• Peritonoscopy(Laproscopy)</li> <li>• Gastric emptying studies</li> <li>• Blood chemistries: Serum amylase, serum lipase</li> <li>• Liver biopsy</li> <li>• Miscellaneous tests:Gastric analysis, fecal analysis</li> <li>• Liver function tests: Bile formation and excretion, dye excretion test, Protein metabolism, haemostatic functions- prothrombin vitamin K production, serum enzyme tests,Lipid metabolismserum cholesterol</li> </ul> <p>Interpretation of diagnostic measures Nurse's role in diagnostic tests</p>
V	25	<p><b>Gastro intestinal disorders and nursing management</b></p> <p>□ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of</p> <ul style="list-style-type: none"> <li>• Disorders of the mouth:Dental caries,Peridontal disease,Acute tooth infection, Stomatitis, Thrush (moniliasis),Gingivitis, Leukoplakia, Inflammation of the parotid gland, Obstruction to the flow of saliva,Fracture of the jaw</li> <li>• Disorders of the oesophagus: Reflux oesophagitis, Oesophageal achalasia, Oesophageal varices, Hiatus hernia, Diverticulum</li> <li>• Disorders of the stomach and duodenum: Gastritis, Peptic ulcer, Dumping of the stomach, Food poisoning, idiopathic gastroparesis, Aerophagia and belching syndrome, Ideopathic cyclic nausea and vomiting, Rumination syndrome, Functional dyspepsia, Chronic Non specific (functional) abdominal pain</li> <li>• Disorders of the small intestine <ul style="list-style-type: none"> <li>– Malabsorption syndrome – tropical sprue</li> <li>– Gluten – sensitive enteropathy (Coeliac disease)</li> <li>– Inflammatory diseases of intestines and abdomen,: appendicitis, Peritonities, Intestinal obstruction, Abdominal TB, Gastrointestinal polyposis syndrome</li> <li>– Chronic inflammatory bowel disease, Ulcerative colites, crohn's disease</li> <li>– Infestations and infections – Worm infestations, Typhoid, Leptospirosis</li> <li>– Solitary rectal ulcer syndrome</li> <li>– Alteration in bowel elimination (diarrhoea, constipation, fecal impaction, fecal incontinence, Irritable bowel syndrome, Chronic idiopathic constipation, Functional diarrhoea</li> </ul> </li> </ul> <p>Anorectal Conditions: Hemorrhoids, Anal fissure, Anal fistula, Abscess, Strictures, Rectal prolapse, Pruritis ani, Pelonidal disease,</p>

		Anal condylomas, Warts
VI	15	<p><b>Disorder of liver, pancreas gall bladder and nursing management</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Disorders of liver biliary tract :</li> <li><input type="checkbox"/> Viral Hepatitis – A, B, C, D &amp; E</li> <li><input type="checkbox"/> Toxic hepatitis</li> <li>• Cirrhosis of liver, liver failure, Liver transplantation</li> <li>• Non cirrhotic portal fibrosis</li> <li>• Liver abscess,;</li> <li>• Parasitic and other cysts of the liver</li> <li>• Disorders of the Gall Bladder and Bile Duct:</li> <li><input type="checkbox"/> Cholecystitis</li> <li><input type="checkbox"/> Cholelithiasis</li> <li><input type="checkbox"/> Choledocholithiasis</li> <li><input type="checkbox"/> Disorders of the pancreas: Pancreatitis,</li> <li><input type="checkbox"/> Benign tumors of islet cells</li> <li><input type="checkbox"/> Disorders of the Peritoneum</li> <li>• Infections of the peritoneum</li> <li><input type="checkbox"/> Surgical peritonitis</li> <li><input type="checkbox"/> Spontaneous bacterial peritonitis</li> <li><input type="checkbox"/> Tuberculosis peritonitis</li> <li><input type="checkbox"/> Disorders of the Diaphragm</li> <li>• Diaphragmatic hernia</li> <li>• Congenital hernias</li> <li>• Paralysis of diaphragm</li> <li>• Tumors of the diaphragm</li> <li><input type="checkbox"/> Hiccups</li> </ul>
VII	15	<p><b>Gastro intestinal emergencies and nursing interventions</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of:</li> <li>• Esophageal varices,</li> <li>• Ulcer perforation,</li> <li>• Acute cholecystitis</li> <li>• Diverticulitis</li> <li>• Fulminant hepatic failure</li> <li>• Biliary obstruction</li> <li>• Bowel obstruction</li> <li>• Gastroenteritis</li> <li>• Intussusception</li> <li>• Acute intestinal obstruction, perforation</li> <li>• Acute pancreatitis</li> <li>• Cirrhosis of liver complications</li> <li>• Liver , spleen, stomach pancreatic, mesenteric, bowel and</li> </ul>

		<p>greater vessel injuries</p> <ul style="list-style-type: none"> <li>• Acute appendicitis /peritonitis</li> <li>• Acute abdomen</li> <li>• Food poisoning</li> </ul>
VIII	15	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Congenital Anomalies of Esophagus</b> <ul style="list-style-type: none"> <li>• Esophageal atresia</li> <li>• Tracheo esophageal fistula</li> <li>• Esophageal stenosis</li> <li>• Esophageal duplications</li> <li>• Dysphagia – Lusoria – aberrant right subclavian artery compressing esophagus</li> <li>• Esophageal rings – schalzkiring</li> <li>• Esophageal webs</li> </ul> </li> <li><input type="checkbox"/> Congenital Anomalies of Stomach <ul style="list-style-type: none"> <li>• Gastric atresia</li> <li>• Micro gastria</li> <li>• Gastric diverticulum</li> <li>• Gastric duplication</li> <li>• Gastric teratoma</li> <li>• Gastric volvulus</li> <li>• Infantile hypertrophic pyloric stenosis</li> <li>• Adult hypertrophic pyloric stenosis</li> </ul> </li> <li><input type="checkbox"/> Congenital Anomalies of Duodenal <ul style="list-style-type: none"> <li>• Duodenal Atresia or stenosis</li> <li>• Annular pancreas</li> <li>• Duodenal duplication cysts</li> <li>• Malrotation and mid gut volvulus</li> </ul> </li> <li><input type="checkbox"/> Developmental anomalies of the intestine: <ul style="list-style-type: none"> <li>• Abdominal wall defects (omphalocele and Gastroschisis)</li> <li>• Meckel’s diverticulum</li> <li>• Intestinal atresia</li> </ul> </li> <li><input type="checkbox"/> Hirschsprung’s disease</li> </ul>
IX	15	<p><b>Pharmo Kinetics</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Drugs used in GIT</li> <li><input type="checkbox"/> Principles of administration</li> <li><input type="checkbox"/> Roles responsibilities of nurses</li> <li><input type="checkbox"/> Drugs in Peptic ulcer disease</li> <li><input type="checkbox"/> Proton Pump inhibitors</li> <li><input type="checkbox"/> H2 Receptor Antagonists</li> <li><input type="checkbox"/> Cytoprotective Agents:</li> </ul>

		<input type="checkbox"/> Drugs used in Diarrhea <input type="checkbox"/> Drugs used in constipation <input type="checkbox"/> Drugs used in Inflammatory Bowel Disease <input type="checkbox"/> Aminosalicylates <input type="checkbox"/> Corticosteroids <input type="checkbox"/> Immunomodulators <input type="checkbox"/> chemotherapy <input type="checkbox"/> Antibiotics <input type="checkbox"/> Antiemetics: <input type="checkbox"/> Anticholinergics <input type="checkbox"/> Antihistaminics <input type="checkbox"/> Anthelminthics <input type="checkbox"/> Vitamin Supplements
X	10	<b>Nutrition and nutritional problems related to GI system</b> <input type="checkbox"/> Nutritional assessment and nursing interventions <input type="checkbox"/> Therapeutic diets <input type="checkbox"/> Adverse reactions between drugs and various foods <input type="checkbox"/> Malnutrition- etiology , clinical manifestations and management <input type="checkbox"/> Tube feeding, parenteral nutrition, total parenteral nutrition <input type="checkbox"/> Obesity- etiology, clinical manifestations and management <input type="checkbox"/> Eating disorders- anorexia nervosa, bulimia nervosa <input type="checkbox"/> Recent advances in nutrition
XI	15	<b>Malignant disorders of gastro intestinal system</b> <input type="checkbox"/> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical, other modalities and nursing management of: <ul style="list-style-type: none"> <li>• Malignancy of oral cavity ,Lip,Tongue,buccal mucosa, oropharynx, Salivary gland</li> <li>• Esophageal , Gastric , Carcinoma of bowel - Small bowel, Colorectal and Anal carcinoma,</li> <li>• Liver, biliary tract and Pancreatic carcinoma</li> </ul>
XII	5	<b>Administration and management of GE unit</b> <input type="checkbox"/> Design & layout <input type="checkbox"/> Staffing, <input type="checkbox"/> Equipment, supplies, <input type="checkbox"/> Infection control; Standard safety measures <input type="checkbox"/> Quality Assurance:-Nursing audit –records /reports, Norms, policies and protocols <input type="checkbox"/> Practice standards
XIII	5	<b>Education and training in GE care</b> <input type="checkbox"/> Staff orientation, training and development, <input type="checkbox"/> In-service education program, <ul style="list-style-type: none"> <li>• Clinical teaching programs</li> </ul>

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### Practicals

**Total = 960 Hours**  
**1 Week = 30 Hours**

S.No.	Deptt./Unit	No. of Week	Total Hours
1	Diagnostic labs	2	60 Hours
2	Emergency and casualty	3	90 Hours
3	Liver transplant unit	1	30 Hours
4	GE Medical Ward	6	180 Hours
5	GE Surgical Ward	8	240 Hours
6	OT	2	60 Hours
7	ICU	4	120 Hours
8	Pediatric gastroenterology	2	60 Hours
9	Oncology	2	60 Hours
10	GE OPD	2	60 Hours
<b>Total</b>			<b>32 Weeks 960 Hours</b>

### Procedures Assisted

1. Endoscopy room – Upper G.I. Endoscopy (Diagnostic and therapeutic).
2. Sigmoidoscopy
3. Colonoscopy
4. Polypectomy
5. Endoscopic retrograde cholangio pancreatography (ERCP)
6. Liver biopsy
7. Percutaneous catheter drainage (PCD) of Pseudocyst pancreas
8. Abdominal paracentesis
9. Percutaneous aspiration of liver abscess
10. GE Lab : PT, HbsAg, Markers – A, B, C virus, CBP, ESR, Stool Test

### Procedures Performed

1. History and Physical assessment
2. RT intubation / extubation / aspiration/suction
3. Gastric lavage and gavage
4. Bowel wash
5. Therapeutic Diets
6. Ostomy feeding
7. Stoma care
8. Monitoring vital parameters
9. Plan of inservice education programme for nursing staff and Class-IV employees

## 10. Counseling

### **CLINICAL SPECIALITY – II OBSTETRIC AND GYNAECOLOGICAL NURSING**

Placement - II Year

Hours of Instruction

Theory: 150 hrs

Practical 950 hrs

Total 1100 hrs

#### **Course Description**

This course is designed to assist the student in developing expertise and indepth understanding in the field of Obstetric and gynecological Nursing .It will help the student to develop advanced nursing skills for nursing interventions in various obstetrical and gynecological conditions. It will further enable the students to function as midwifery nurse practitioner/ specialist, educator, manager and researcher in the field of obstetric and gynecological nursing.

#### **Objectives**

At the end of the course, the student will be able to:

1. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of women with obstetric and gynaecological conditions
2. Perform physical, psychosocial, cultural & spiritual assessment
3. Demonstrate competence in caring for women with obstetrical and gynaecological conditions
4. Demonstrate competence in caring for high risk newborn.
5. Identify and Manage obstetrical and neonatal emergencies as per protocol.
6. Practice infection control measures
7. Utilize recent technology and various diagnostic, therapeutic modalities in the management of obstetrical , gynecological and neonatal care.
8. Demonstrate skill in handling various equipments/gadgets used for obstetrical, gynaecological and neonatal care
9. Teach and supervise nurses and allied health workers.
10. Design a layout of speciality units of obstetrics and gynecology
11. Develop standards for obstetrical and gynaecological nursing practice.
12. Counsel women and families

13. Incorporate evidence based nursing practice and identify the areas of research in the field of obstetrical and gynaecological nursing

14. Function as independent midwifery nurse practitioner

Unit	Hours	Content
I	25	<p><b>Management of problems of women during pregnancy</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Risk approach of obstetrical nursing care , concept &amp; goals.</li> <li><input type="checkbox"/> Screening of high-risk pregnancy, newer modalities of diagnosis.</li> <li><input type="checkbox"/> Nursing Management of Pregnancies at risk-due to obstetrical complication               <ul style="list-style-type: none"> <li>• Pernicious Vomiting.</li> <li>• Bleeding in early pregnancy, abortion, ectopic pregnancy, and gestational trophoblastic diseases.</li> <li>• Hemorrhage during late pregnancy, ante partum hemorrhage, Placenta praevia, abruptio placenta.</li> <li>• Hypertensive disorders in pregnancy, pre-eclampsia, eclampsia, Hemolysis Elevated liver enzyme Low Platelet count (HELLP)</li> <li>• Iso-immune diseases. Rh and ABO incompatibility</li> <li>• Hematological problems in pregnancy.</li> <li>• Hydramnios-oligohydramnios</li> <li>• Prolonged pregnancy- post term, post maturity.</li> <li>• Multiple pregnancies.</li> <li>• Intra uterine infection &amp; pain during pregnancy.</li> <li>• Intra Uterine Growth Retardation(IUGR), Premature Rupture of Membrane(PROM), intra uterine death</li> </ul> </li> </ul>
		<p>Pregnancies at risk-due to pre-existing health problems</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Metabolic conditions.</li> <li><input type="checkbox"/> Anemia and nutritional deficiencies</li> <li><input type="checkbox"/> Hepatitis</li> <li><input type="checkbox"/> Cardio-vascular disease.</li> <li><input type="checkbox"/> Thyroid diseases.</li> <li><input type="checkbox"/> Epilepsy.</li> <li><input type="checkbox"/> Essential hypertension</li> <li><input type="checkbox"/> Chronic renal failure.</li> <li><input type="checkbox"/> Tropical diseases.</li> <li><input type="checkbox"/> Psychiatric disorders</li> <li><input type="checkbox"/> Infections Toxoplasmosis Rubella Cytomegalo virus Herpes (TORCH); Reproductive Tract Infection(RTI);STD; HIV/AIDS,</li> </ul>

		<p>Vaginal infections; Leprosy, Tuberculosis</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Other risk factors: Age- Adolescents, elderly; unwed mothers, sexual abuse, substance use</li> <li><input type="checkbox"/> Pregnancies complicating with tumors, uterine anomalies, prolapse, ovarian cyst</li> </ul>
		<p>Abnormal labour, pre-term labour &amp; obstetrical emergencies</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Etiology, pathophysiology and nursing management of <ul style="list-style-type: none"> <li>• Uncoordinated uterine actions, Atony of uterus, precipitate labour, prolonged labour.</li> <li>• Abnormal lie, presentation, position compound presentation.</li> <li>• Contracted pelvis-CPD; dystocia.</li> <li>• Obstetrical emergencies Obstetrical shock, vasa praevia, inversion of uterus, amniotic fluid embolism, rupture uterus, presentation and prolapse cord.</li> <li>• Augmentation of labour. Medical and surgical induction.</li> <li>• Version</li> <li>• Manual removal of placenta.</li> <li>• Obstetrical operation: Forceps delivery, Ventouse, Caesarian section, Destructive operations</li> <li>• Genital tract injuries-Third degree perineal tear, VVF, RVF</li> </ul> </li> <li><input type="checkbox"/> Complications of third stage of labour: <ul style="list-style-type: none"> <li>• Post partum Hemorrhage.</li> <li>• Retained placenta.</li> </ul> </li> </ul>
		<p>post partum complications</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Nursing management of <ul style="list-style-type: none"> <li>• Puerperal infections, puerperal sepsis, urinary complications, puerperal venous thrombosis and pulmonary embolism</li> <li>• Sub involution of uterus, Breast conditions, Thrombophlebitis</li> <li>• Psychological complications, post partum blues, depression, psychosis</li> </ul> </li> </ul>
		<p>management of nursing services in NICU High Risk Newborn</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concept, goals, assessment, principles.</li> <li><input type="checkbox"/> Nursing management of <ul style="list-style-type: none"> <li>• Pre-term, small for gestational age, post-mature infant, and baby of diabetic and substance use mothers.</li> <li>• Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax,</li> </ul> </li> </ul>



		<p>pneumo mediastinum</p> <ul style="list-style-type: none"> <li>• Icterus neonatorum.</li> <li>• Birth injuries.</li> <li>• Hypoxic ischaemic encephelopathy</li> <li>• Congenital anomalies.</li> <li>• Neonatal seizures.</li> <li>• Neonatal hypocalcaemia, hypoglycemia, hypomagnesaemia.</li> <li>• Neonatal heart diseases.</li> <li>• Neonatal hemolytic diseases</li> <li>• Neonatal infections, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS</li> <li>• Advanced neonatal procedures.</li> <li>• Calculation of fluid requirements.</li> <li>• Hematological conditions – erythroblastosis fetalis, hemorrhagic disorder in the newborn</li> <li>• Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU</li> </ul>
VI	15	<p><b>HIV/AIDS</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> HIV positive mother and her baby</li> <li><input type="checkbox"/> Epidemiology</li> <li><input type="checkbox"/> Screening</li> <li><input type="checkbox"/> Parent to child transmission(PTCT)</li> <li><input type="checkbox"/> Prophylaxis for mother and baby</li> <li><input type="checkbox"/> Standard safety measures</li> <li><input type="checkbox"/> Counseling</li> <li><input type="checkbox"/> Breast feeding issues</li> <li><input type="checkbox"/> National policies and guidelines</li> </ul> <p>Issues: legal, ethical, psychosocial and rehabilitation</p> <p>Role of nurse</p>
VII	25	<p><b>Gynecological problems and nursing management</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Gynecological assessment</li> <li><input type="checkbox"/> Gynecological procedures</li> <li><input type="checkbox"/> Etiology, pathophysiology, diagnosis and nursing management of</li> <li>• Menstrual irregularities</li> <li>• Diseases of genital tract</li> <li>• Genital tract infections</li> <li>• Uterine displacement</li> <li>• Genital prolapse</li> <li>• Genital injuries</li> <li>• Uterine malformation</li> <li>• Uterine fibroid, ovarian tumors, Breast carcinoma, Pelvic inflammatory diseases, reproductive tract malignancies,</li> </ul>

		hysterectomy – vaginal and abdominal. • Sexual abuse, rape, trauma , assault
VIII	5	<b>Administration and management of obstetrical and gynaecological unit</b> <input type="checkbox"/> Design & layout <input type="checkbox"/> Staffing, <input type="checkbox"/> Equipment, supplies, <input type="checkbox"/> Infection control; Standard safety measures <input type="checkbox"/> Quality Assurance:-Obstetric auditing –records /reports, Norms, policies and protocols <input type="checkbox"/> Practice standards for obstetrical and gynaecological unit
IX	5	<b>Education and training in obstetrical and gynaecological care</b> <input type="checkbox"/> Staff orientation, training and development, <input type="checkbox"/> In-service education program, <input type="checkbox"/> Clinical teaching programs.

## Practicals

**Total = 960 Hours**  
**1 Week = 30 Hours**

S.No.	Deptt./ Unit	No. of Week	Total Hours
1	Antenatal OPD including Infertility clinics/Reproductive medicine, Family welfare and post partum clinic / PTCT	6	180 Hours
2	Antenatal and Postnatal ward	6	180 Hours
3	Labour room	4	120 Hours
4	Neonatal Intensive Care Unit	3	90 Hours
5	Obstetric/Gynae Operation Theatre	3	90 Hours
6	Gynae Ward	4	120 Hours
7	CHC, PHC, SC	6	180 Hours
<b>Total</b>		<b>32 Weeks</b>	<b>960 Hours</b>

## Procedure Observed

- Assisted Reproductive Technology procedures
- Ultra sonography

- Specific laboratory tests.
- Amniocentesis.
- Cervical & vaginal cytology.
- Fetoscopy.
- Hysteroscopy.
- MRI.
- Surgical diathermy.
- Cryosurgery.

### **Procedures Assisted**

- Operative delivery
- Abnormal deliveries-Forceps application, Ventouse, Breech
- Exchange blood transfusion
- Culdoscopy.
- Cystoscopy
- Tuboscopy
- Laparoscopy.
- Endometrial Biopsy
- Tubal patent test
- Chemotherapy
- Radiation therapy
- Medical Termination of Pregnancy.
- Dilatation and Curettage

### **Procedures Performed**

- History taking.
- Physical Examination-General
- Antenatal assessment. – 20
- Pelvic examination
- Assessment of risk status.
- Assessment of Intra uterine foetal well-being.kick chart and foetal movement chart, Doppler assessment, Non Stress Test, Contraction stress test(Oxytocin challenge test)
- Universal precautions- Disposal of biomedical waste.
- Per Vaginal examination and interpretation (early pregnancy, labour, post partum).
- Utilization of Partograph
- Medical & Surgical induction(Artificial rupture of membranes).
- Vacuum extraction
- Conduct of delivery.
- Prescription and administration of fluids and electrolytes through intravenous route.
- Application of outlet forceps, delivery of breach – Burns Marshall, Loveset manoeuvre
- Repair of tears and Episiotomy suturing.
- Vacuum extraction

- controlled cord traction, Manual removal of placenta, placental examination,
- Manual vacuum aspiration
- Postnatal assessment.- 20
- Management of breast engorgement
- Thrombophlebitis (white leg)
- Postnatal counseling.
- Reposition of inversion of uterus.
- Laboratory tests: Blood- Hb, Sugar, Urine-albumin,sugar
- Breast care, breast exam, and drainage breast abscess.
- Postnatal exercise.
- Assessment –New born assessment; physical and neurological, Apgar score, high-risk newborn, Monitoring neonates; Clinically and With monitors, Capillary refill time, Assessment of jaundice, danger signs
- Anthropometric measurement
- Neonatal resuscitation
- Gastric Lavage
- Care of newborn in multi channel monitor and ventilator.
- Care of newborn in radiant warmer and incubator.
- Kangaroo mother care.
- Assisting mother with exclusive Breast-feeding
- Feeding technique: Katori, spoon, naso/orogastric, Total Parenteral nutrition
- Assessement, calculation and administration of fluids and medications:
  - Oral
  - I.D.
  - I.M.
  - I.V.- Securing IV line, infusion pump
- 122
- Administration of drug per rectum
- Capillary blood sample collection.
- Oxygen therapy.
- Phototherapy.
- Chest physiotherapy.
- counseling – Parental, bereavment, family planning, infertility etc
- Setting of operation theatre.
- Trolley and table set up for Obstetrical & gynaecological operations.
- Pap smear.
- Vaginal smear.
- Insertion of pessaries,
- Insertion of IUD and removal.
- Teaching skills
- communication skills
- Prepare referral slips
- Pre transport stabilization
- Networking with other stake holders

**CLINICAL SPECIALTY –II  
PEDIATRIC (CHILD HEALTH) NURSING**

Placement : II Year

Hours of Instruction  
Theory 150 hours  
Practical 950 hours  
Total : 1100 hours

**Course Description**

This course is designed to assist students in developing expertise and indepth understanding in the field of Pediatric Nursing. It will help students to develop advanced skills for nursing intervention in various pediatric medical and surgical conditions. It will enable the student to function as pediatric nurse practitioner/specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric nursing.

**Objectives**

At the end of the course the students will be able to:

1. Apply the nursing process in the care of ill infants to pre adolescents in hospital and community
2. Demonstrate advanced skills/competence in nursing management of children with medical and surgical problems
3. Recognize and manage emergencies in children
4. Provide nursing care to critically ill children
5. Utilize the recent technology and various treatment modalities in the management of high risk children
6. Prepare a design for layout and describe standards for management of pediatric units/hospitals
7. Identify areas of research in the field of pediatric nursing

**Course Content**

Unit	Hours	Content
<b>I</b>	<b>5</b>	<b>Introduction</b> <input type="checkbox"/> Current principles, practices and trends in Pediatric Nursing <input type="checkbox"/> Role of pediatric nurse in various settings -Expanded and extended
<b>II</b>	<b>35</b>	<input type="checkbox"/> Pathophysiology, assessment(including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities and nursing intervention in selected pediatric medical disorders • Child with respiratory disorders: - Upper respiratory tract: choanal atresia, tonsillitis,

		<p>epistaxis, aspiration.</p> <ul style="list-style-type: none"> <li>- Lower respiratory tract: Broncheolitis, Bronchopneumonia, Asthma, cystic fibrosis</li> <li>• Child with gastro-intestinal disorders: <ul style="list-style-type: none"> <li>- Diarrheal diseases, gastro-esophageal reflux.</li> <li>- Hepatic disorders: Hepatitis, Indian childhood cirrhosis, liver transplantation.</li> <li>- Malabsorption syndrome, Malnutrition</li> </ul> </li> <li>• Child with renal/ urinary tract disorders: Nephrotic syndrome, Nephritis, Hydronephrosis, hemolytic-uremic syndrome, kidney transplantation</li> <li>• Child with cardio-vascular disorders: <ul style="list-style-type: none"> <li>- Acquired: Rheumatic fever, Rheumatic heart disease,</li> <li>- Congenital: Cynotic and acynotic</li> </ul> </li> <li>• Child with endocrine/metabolic disorders: Diabetes insipidus, Diabetes Mellitus – IDDM, NIDDM, hyper and hypo thyroidism, phenylketonuria, galactosemia</li> <li>• Child with Neurological disorders: Convulsions, Meningitis, encephalitis, guillian- Barre syndrome</li> <li>• Child with oncological disorders: Leukemias, Lymphomas, Wilms’ tumor, neuroblastomas, neuroblastomas, Rhabdomyosarcoma, retinoblastoma, hepatoblastoma, bone tumors</li> <li>• Child with blood disorders: Anemias, thalasseмии, hemophilia, polycythemia, thrombocytopenia, and disseminated intravascular coagulation</li> <li>• Child with skin disorders</li> <li>• Common Eye and ENT disorders</li> <li>• Common Communicable diseases</li> </ul>
<b>III</b>	<b>35</b>	<ul style="list-style-type: none"> <li>□ Assessment(including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing interventions in selected pediatric surgical problems/ Disorders</li> <li>• Gastrointestinal system: Cleft lip, cleft palate and conditions requiring plastic surgery, Tracheo esophageal fistula/atresia, Hirschsprungs’ disease/megacolon, malrotation, intestinal obstruction, duodenal atresia, gastrochisis, exomphalus, anorectal malformation, omphalocele, diaphragmatic hernia</li> <li>• Anomalies of the nervous system: Spina bifida, Meningocele, Myelomeningocele, hydrocephalus</li> <li>• Anomalies of the genito-urinary system: Hypospadias, Epispadias, Undescended testes, Exstrophy bladder</li> <li>• Anomalies of the skeletal system</li> <li>• Eye and ENT disorders</li> </ul>

		<ul style="list-style-type: none"> <li>• Nursing management of the child with traumatic injuries: General principles of managing Pediatric trauma</li> <li>- Head injury, abdominal injury, poisoning, foreign body obstruction, burns</li> <li>- &amp; Bites</li> <li>• Child with oncological disorders: Solid tumors of childhood, Nephroblastoma, Neuro blastoma, Hodgkin's/Non Hodgkin's Lymphoma, Hepatoblastoma, Rhabdomyosarcoma</li> <li>• Management of stomas, catheters and tubes</li> <li>• Management of wounds and drainages</li> </ul>
<b>IV</b>	<b>10</b>	<p><b>Intensive care for pediatric clients</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Resuscitation, stabilization &amp; monitoring of pediatric patients</li> <li><input type="checkbox"/> Anatomical &amp; physiological basis of critical illness in infancy and childhood</li> <li><input type="checkbox"/> Care of child requiring long-term ventilation</li> <li><input type="checkbox"/> Nutritional needs of critically ill child</li> <li><input type="checkbox"/> Legal and ethical issues in pediatric intensive care</li> <li><input type="checkbox"/> Intensive care procedures, equipment and techniques</li> <li><input type="checkbox"/> Documentation</li> </ul>
<b>V</b>	<b>20</b>	<p><b>High Risk Newborn</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concept, goals, assessment, principles.</li> <li><input type="checkbox"/> Nursing management of <ul style="list-style-type: none"> <li>• Post-mature infant, and baby of diabetic and substance use mothers.</li> <li>• Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum</li> <li>• Icterus neonatorum.</li> <li>• Birth injuries.</li> <li>• Hypoxic ischaemic encephelopathy</li> <li>• Congenital anomalies.</li> <li>• Neonatal seizures.</li> <li>• Neonatal hypocalcaemia, hypoglycemia, hypomagnesaemia.</li> <li>• Neonatal heart diseases.</li> <li>• Neonatal hemolytic diseases</li> <li>• Neonatal infections, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS</li> <li>• Advanced neonatal procedures.</li> <li>• Calculation of fluid requirements.</li> <li>• Hematological conditions – erythroblastosis fetalis, hemorrhagic disorder in the newborn</li> <li>• Organization of neonatal care, services(Levels), transport,</li> </ul> </li> </ul>

		<p>neonatal intensive care unit, organization and management of nursing services in NICU</p> <p><b>Developmental disturbances and implications for nursing</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Adjustment reaction to school,</li> <li><input type="checkbox"/> Learning disabilities</li> <li><input type="checkbox"/> Habit disorders, speech disorders,</li> <li><input type="checkbox"/> Conduct disorders,</li> <li><input type="checkbox"/> Early infantile autism, Attention deficit hyperactive disorders (ADHD), depression and childhood schizophrenia.</li> </ul>
<b>VII</b>	<b>10</b>	<p><b>Challenged child and implications for nursing</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Physically challenged, causes, features, early detection &amp; management</li> <li><input type="checkbox"/> Cerebral palsied child,</li> <li><input type="checkbox"/> Mentally challenged child.</li> <li><input type="checkbox"/> Training &amp; rehabilitation of challenged children</li> </ul>
<b>VIII</b>	<b>5</b>	<p><b>Crisis and nursing intervention</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> The hospitalized child,</li> <li><input type="checkbox"/> Terminal illness &amp; death during childhood</li> <li><input type="checkbox"/> Nursing intervention-counseling</li> </ul>
<b>IX</b>	<b>5</b>	<p><b>Drugs used in Pediatrics</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Criteria for dose calculation</li> <li><input type="checkbox"/> Administration of drugs, oxygen and blood</li> <li><input type="checkbox"/> Drug interactions</li> <li><input type="checkbox"/> Adverse effects and their management</li> </ul>
<b>X</b>	<b>10</b>	<p><b>Administration and management of pediatric care unit</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Design &amp; layout</li> <li><input type="checkbox"/> Staffing,</li> <li><input type="checkbox"/> Equipment, supplies,</li> <li><input type="checkbox"/> Norms, policies and protocols</li> <li><input type="checkbox"/> Practice standards for pediatric care unit</li> <li><input type="checkbox"/> Documentation</li> </ul>
<b>XI</b>	<b>5</b>	<p><b>Education and training in Pediatric care</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Staff orientation, training and development,</li> <li><input type="checkbox"/> In-service education program,</li> <li><input type="checkbox"/> Clinical teaching programs.</li> </ul>



## Practical

**Total = 960 Hours**  
**1 Week = 30 Hours**

- Field visits:

S. No.	Deptt./ Unit	No. of Week	Total Hours
1	Pediatric medicine ICU	4	120 Hours
2	Pediatric surgical ICU	4	120 Hours
3	NICU	4	120 Hours
4	Pediatric OT	2	60 Hours
5	Pediatric medicine ward	6	180 Hours
6	Pediatric surgery ward	6	180 Hours
7	Emergency/Casualty	4	120 Hours
8	Field visits*	2	60 Hours
<b>Total</b>		<b>32</b>	<b>960 Hours</b>

\*Child care center, Anganwadi, play school, Special schools for challenged children, Juvenile court, UNICEF, Orphanage, Creche, SOS village

### I. Procedures Observed:

- Echo cardiogram
- Ultrasound head
- ROP screening (Retinopathy of prematurity)
- Any other

### II. Procedures Assisted

- Advanced neonatal life support
- Lumbar Puncture
- Arterial Blood Gas
- ECG Recording
- Umbilical catheterization – arterial and venous
- Arterial B P monitoring
- Blood transfusion- exchange transfusion full and partial
- IV cannulation & therapy
- Arterial catheterization
- Chest tube insertion
- Endotracheal intubation
- Ventilation
- Insertion of long line
- Assist in surgery

### **III. procedures performed:**

- Airway Management
    - Application of Oro Pharyngeal Airway
    - Oxygen therapy
    - CPAP(Continuous Positive Airway Pressure)
    - Care of Tracheostomy
    - Endotracheal Intubation
  - Neonatal Resuscitation
  - Monitoring of Neonates – clinically & with monitors, CRT(Capillary Refill Time), assessment of jaundice, ECG
  - Gastric Lavage
  - Setting of Ventilators
  - Phototherapy
  - Assessment of Neonates: Identification & assessment of risk factors, APGAR Score, gestation age, Anthropometric assessment, Weighing the baby, Newborn examination, detection of life threatening congenital abnormalities,
  - Admission & discharge of neonates
  - Feeding - management of breast feeding, artificial feeding, expression of breast milk, OG(Orogastric) tube insertion, gavage feeding, TPN, Breast feeding counseling
  - Thermoregulation- Axillary temperature, Kangaroo Mother Care (KMC), Use of Radiant warmer, incubators, management of thermoregulation & control
  - Administration of Drugs: I/M, IV injection, IV Cannulation & fixation infusion pump, Calculation of dosages, Neonatal formulation of drugs, use of tuberculin/ insulin syringes, Monitoring fluid therapy, Blood administration.
  - Procedures for prevention of infections: Hand washing, disinfections & sterilization, surveillance, fumigation
  - Collection of specimens
  - Setting, Use & maintenance of basic equipment: Ventilator, O2 analyzer, monitoring equipment, Photo therapy unit, Flux meter, Infusion pump, Radiant warmer, incubator, Centrifuge machine, Bilimeter, Refractometer, laminar flow
- IV. Other Procedures

**CLINICAL SPECIALITY - II  
PSYCHIATRIC (MENTAL HEALTH) NURSING**

Placement: II Year

Hours of Instruction  
Theory 150 hrs  
Practical 950 hrs  
Total : 1100 Hours

**Course Description**

This course is designed to assist students in developing expertise and indepth understanding in the field of Psychiatric Nursing. It will help students to develop advanced skills for nursing intervention in various psychiatric conditions. It will enable the student to function as psychiatric nurse practitioner/specialist. It will further enable the student to function as educator, manager, and researcher in the field of Psychiatric nursing

**Objectives**

At the end of the course the students will be able to:

1. Apply the nursing process in the care of patients with mental disorders in hospital and community
2. Demonstrate advanced skills/competence in nursing management of patients with mental disorders
3. Identify and care for special groups like children, adolescents, women, elderly, abused and neglected, people living with HIV/AIDS.
4. Identify and manage psychiatric emergencies.
5. Provide nursing care to critically ill patients with mental disorders
6. Utilize the recent technology and various treatment modalities in the management of patients with mental disorders
7. Demonstrate skills in carrying out crisis intervention.
8. Appreciate the legal and ethical issues pertaining to psychiatric nursing.
9. Identify areas of research in the field of psychiatric nursing.
10. Prepare a design for layout and describe standards for management of Psychiatric units/emergency units/hospitals
11. Teach psychiatric nursing to undergraduate students & in-service nurses.

## Course Content

Unit	Hours	Content
I	2	<b>Principles and practice of Psychiatric nursing</b> <input type="checkbox"/> Review
II	4	<b>Crisis Intervention</b> <input type="checkbox"/> Crisis, Definition <input type="checkbox"/> Phases In The Development of A Crisis <input type="checkbox"/> Types of Crisis; Dispositional , Anticipated Life Transitions Traumatic Stress, Maturation/ Development , Reflecting Psychopathology <input type="checkbox"/> Psychiatric Emergencies and their management <input type="checkbox"/> Grief and grief reaction <input type="checkbox"/> Crisis Intervention; Phases <input type="checkbox"/> Post traumatic stress disorder (PTSD) <input type="checkbox"/> Role of the Nurse
III	4	<b>Anger/ Aggression Management</b> <input type="checkbox"/> Anger and Aggression, Types, Predisposing Factors <input type="checkbox"/> Management <input type="checkbox"/> Role of The Nurse
IV	5	<b>The Suicidal Client</b> <input type="checkbox"/> Epidemiological Factors <input type="checkbox"/> Risk Factors • Predisposing Factors: Theories of Suicide-Psychological, Sociological ,Biological <input type="checkbox"/> Nursing Management
V	5	<b>Disorders of Infancy, Childhood, and Adolescence</b> <input type="checkbox"/> Mentally Challenged <input type="checkbox"/> Autistic Disorders <input type="checkbox"/> Attention-Deficit/Hyperactivity Disorder <input type="checkbox"/> Conduct Disorders, behavioural disorders <input type="checkbox"/> Oppositional Defiant Disorder <input type="checkbox"/> Tourette's Disorders <input type="checkbox"/> Separation Anxiety Disorder <input type="checkbox"/> Psychopharmacological Intervention and Nursing Management
VI	5	<b>Delirium, Dementia, and Amnesic Disorders</b> <input type="checkbox"/> Delirium <input type="checkbox"/> Dementia <input type="checkbox"/> Amnesia <input type="checkbox"/> Psychopharmacological Intervention and Nursing Management
VII	10	<b>Substance-Related Disorders</b> <input type="checkbox"/> Substance-Use Disorders

		<input type="checkbox"/> Substance-Induced Disorders <input type="checkbox"/> Classes Of Psychoactive Substances <input type="checkbox"/> Predisposing Factors <input type="checkbox"/> The Dynamics Of Substance-Related Disorders <input type="checkbox"/> The Impaired Nurse <input type="checkbox"/> Codependency <input type="checkbox"/> Treatment Modalities For Substance-Related Disorders and Nursing Management
<b>VIII</b>	<b>10</b>	<b>Schizophrenia and Other Psychotic Disorders (Check ICD10)</b> <input type="checkbox"/> Nature of the Disorder <input type="checkbox"/> Predisposing Factors <input type="checkbox"/> Schizophrenia -Types <ul style="list-style-type: none"> <li>• Disorganized Schizophrenia</li> <li>• Catatonic Schizophrenia</li> <li>• Paranoid Schizophrenia</li> <li>• Undifferentiated Schizophrenia</li> <li>• Residual Schizophrenia</li> </ul> <input type="checkbox"/> Other Psychotic disorders <ul style="list-style-type: none"> <li>• Schizoaffective Disorder</li> <li>• Brief Psychotic Disorder</li> <li>• Schizophreniform Disorder</li> <li>• Psychotic Disorder Due to a General Medical Condition</li> <li>• Substance-Induced Psychotic Disorder</li> </ul> <input type="checkbox"/> Treatment and Nursing Management
<b>IX</b>	<b>8</b>	<b>Mood Disorders</b> <input type="checkbox"/> Historical Perspective <input type="checkbox"/> Epidemiology <input type="checkbox"/> The Grief Response <input type="checkbox"/> Maladaptive Responses To Loss <input type="checkbox"/> Types Of Mood Disorders <input type="checkbox"/> Depressive disorders <input type="checkbox"/> Bipolar disorders <input type="checkbox"/> Treatment and Nursing Management
<b>X</b>	<b>8</b>	<b>Anxiety Disorders</b> <input type="checkbox"/> Historical Aspects <input type="checkbox"/> Epidemiological Statistics <input type="checkbox"/> How Much is too Much? <input type="checkbox"/> Types <ul style="list-style-type: none"> <li>• Panic Disorder</li> <li>• Generalized Anxiety Disorder</li> <li>• Phobias</li> <li>• Obsessive-Compulsive Disorder</li> <li>• Posttraumatic Stress Disorder</li> <li>• Anxiety Disorder Due to a General Medical Condition</li> </ul>

		<ul style="list-style-type: none"> <li>• Substance-Induced Anxiety Disorder</li> <li><input type="checkbox"/> Treatment Modalities</li> <li><input type="checkbox"/> Psychopharmacology &amp; Nursing Management</li> </ul>
<b>XI</b>	<b>5</b>	<p><b>Somatoform And Sleep Disorders</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Somatoform Disorders</li> <li><input type="checkbox"/> Historical Aspects</li> <li>• Epidemiological Statistics</li> <li>• Pain Disorder</li> <li>• Hypochondriasis</li> <li>• Conversion Disorder</li> <li>• Body Dysmorphic Disorder</li> <li><input type="checkbox"/> Sleep Disorder</li> <li><input type="checkbox"/> Treatment Modalities and Nursing Management</li> </ul>
<b>XII</b>	<b>4</b>	<p><b>Dissociative Disorders and Management</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical Aspects</li> <li><input type="checkbox"/> Epidemiological Statistics</li> <li><input type="checkbox"/> Application of the Nursing Management</li> <li><input type="checkbox"/> Treatment Modalities and Nursing Management</li> </ul>
<b>X III</b>	<b>4</b>	<p><b>Sexual And Gender Identity Disorders</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Development Of Human Sexuality</li> <li><input type="checkbox"/> Sexual Disorders</li> <li><input type="checkbox"/> Variation In Sexual Orientation</li> <li><input type="checkbox"/> Nursing Management</li> </ul>
<b>XIV</b>	<b>4</b>	<p><b>Eating Disorders</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Epidemiological Factors</li> <li><input type="checkbox"/> Predisposing Factors : Anorexia Nervosa And Bulimia Nervosa</li> <li>obesity</li> <li><input type="checkbox"/> Psychopharmacology</li> <li><input type="checkbox"/> Treatment &amp; Nursing Management</li> </ul>
<b>XV</b>	<b>4</b>	<p><b>Adjustment and Impulse Control Disorders</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical and Epidemiological Factors</li> <li>• Adjustment Disorders</li> <li>• Impulse Control Disorders</li> <li><input type="checkbox"/> Treatment &amp; Nursing Management</li> </ul>
<b>XVI</b>	<b>4</b>	<p><b>Medical Conditions due to Psychological Factors</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Asthma</li> <li><input type="checkbox"/> Cancer</li> <li><input type="checkbox"/> Coronary Heart Disease</li> <li><input type="checkbox"/> Peptic Ulcer</li> <li><input type="checkbox"/> Essential Hypertension</li> <li><input type="checkbox"/> Migraine Headache</li> </ul>

		<input type="checkbox"/> Rheumatoid Arthritis <input type="checkbox"/> Ulcerative Colitis <input type="checkbox"/> Treatment & Nursing Management
<b>XVII</b>	<b>8</b>	<b>Personality Disorders</b> <input type="checkbox"/> Historical perspectives <input type="checkbox"/> Types Of Personality Disorders <input type="checkbox"/> Paranoid Personality Disorder <input type="checkbox"/> Schizoid Personality Disorder <input type="checkbox"/> Antisocial Personality Disorder <input type="checkbox"/> Borderline Personality Disorder <input type="checkbox"/> Histrionic Personality Disorder <input type="checkbox"/> Narcissitic Personality Disorder <input type="checkbox"/> Avoidance Personality Disorder <input type="checkbox"/> Dependent Personality Disorder <input type="checkbox"/> Obsessive-Compulsive Personality Disorder <input type="checkbox"/> Passive-Aggressive Personality Disorders <input type="checkbox"/> Identification, diagnostic, symptoms <input type="checkbox"/> Psychopharmacology <input type="checkbox"/> Treatment & Nursing Management
<b>XVIII</b>	<b>8</b>	<b>The Aging Individual</b> <input type="checkbox"/> Epidemiological Statistics <input type="checkbox"/> Biological Theories <input type="checkbox"/> Biological Aspects of Aging <input type="checkbox"/> Psychological Aspects of Aging <input type="checkbox"/> Memory Functioning <input type="checkbox"/> Socio-cultural aspects of aging <input type="checkbox"/> Sexual aspects of aging <input type="checkbox"/> Special Concerns of the Elderly Population <input type="checkbox"/> Psychiatric problems among elderly population <input type="checkbox"/> Treatment & Nursing Management
<b>XIX</b>	<b>5</b>	<b>The person living with HIV Disease</b> <input type="checkbox"/> Psychological problems of individual HIV/AIDS <input type="checkbox"/> Counseling <input type="checkbox"/> Treatment & Nursing Management
<b>XX</b>	<b>5</b>	<b>Problems Related to Abuse or Neglect</b> <input type="checkbox"/> Vulnerable groups, Women, Children, elderly, psychiatric patients, under privileged, challenged <input type="checkbox"/> Predisposing Factors <input type="checkbox"/> Treatment & Nursing management- Counseling
<b>XXI</b>	<b>7</b>	<b>Community Mental Health Nursing</b>

		<input type="checkbox"/> National Mental Health Program- Community mental health program <input type="checkbox"/> The Changing Focus of care <input type="checkbox"/> The Public Health Model <input type="checkbox"/> The Role of the Nurse <input type="checkbox"/> Case Management <input type="checkbox"/> The community as Client <input type="checkbox"/> Primary Prevention <input type="checkbox"/> Populations at Risk <input type="checkbox"/> Secondary prevention <input type="checkbox"/> Tertiary Prevention <input type="checkbox"/> Community based rehabilitation
<b>XXII</b>	<b>5</b>	<b>Ethical and Legal Issues in Psychiatric/Mental Health Nursing</b> <input type="checkbox"/> Ethical Considerations <input type="checkbox"/> Legal Consideration <input type="checkbox"/> Nurse Practice Acts <input type="checkbox"/> Types of Law <input type="checkbox"/> Classification within Statutory and Common Law <input type="checkbox"/> Legal Issues in Psychiatric/Mental Health Nursing <input type="checkbox"/> Nursing Liability
<b>XXIII</b>	<b>5</b>	<b>Psychosocial rehabilitation</b> <input type="checkbox"/> Principles of rehabilitation <input type="checkbox"/> Disability assessment <input type="checkbox"/> Day care centers <input type="checkbox"/> Half way homes <input type="checkbox"/> Reintegration into the community <input type="checkbox"/> Training and support to care givers <input type="checkbox"/> Sheltered workshops <input type="checkbox"/> Correctional homes
<b>XXIV</b>	<b>5</b>	<b>Counseling</b> <input type="checkbox"/> Liaison psychiatric nursing <input type="checkbox"/> Terminal illnesses-Counseling <input type="checkbox"/> Post partum psychosis-treatment, care and counseling <input type="checkbox"/> Death dying- Counseling <input type="checkbox"/> Treatment, care and counseling – <input type="checkbox"/> Unwed mothers <input type="checkbox"/> HIV and AIDS
<b>XXV</b>	<b>5</b>	<b>Administration and management of psychiatric units including emergency units</b> <input type="checkbox"/> Design & layout <input type="checkbox"/> Staffing, <input type="checkbox"/> Equipment, supplies, <input type="checkbox"/> Norms, policies and protocols <input type="checkbox"/> Quality assurance



		<input type="checkbox"/> Practice standards for psychiatric nursing <input type="checkbox"/> Documentation
<b>XXVI</b>	<b>5</b>	<b>Education and training in psychiatric care</b> <input type="checkbox"/> Staff orientation, training and development, <input type="checkbox"/> In-service education program, <input type="checkbox"/> Clinical teaching programs.

## Practicals

**Total = 960 Hours**  
**1 Week = 30 Hours**

S.No.	Area of Posting	No. of Week	Total Hours
1	Acute Psychiatric Ward	4	120 Hours
2	Chronic Psychiatric Ward	4	120 Hours
3	De-addiction Unit	4	120 Hours
4	Psychiatric Emergency Unit	4	120 Hours
5	O.P.D (Neuro and psychiatric)	3	90 Hours
6	Child Psychiatric Unit and child guidance clinic	2	60 Hours
7	Post natal ward	1	30 Hours
8	Family Psychiatric Unit	2	60 Hours
9	Field visits	2	60 Hours
10	Rehabilitation	2	60 Hours
11	Community Mental Health Unit	4	120 Hours
<b>Total</b>		<b>32 Weeks</b>	<b>960 Hours</b>

### Essential Psychiatric nursing skills

#### Procedures Observed

1. Psychometric tests
2. Personality tests
3. Family therapy
4. Assisted
5. CT
6. MRI
7. Behavioral therapy.

#### Procedures Performed

1. Mental status examination
2. Participating in various therapies – Physical; ECT,
3. Administration of Oral, IM, IV psychotropic drugs

4. Interviewing skills
5. Counseling skills
6. Communication skills
7. Psychoeducation
8. Interpersonal relationship skills
9. Community Survey for identifying mental health problems
10. Rehabilitation therapy
11. Health education and life skills training.
12. Supportive psychotherapeutic skills
13. Group therapy
14. Milieu therapy
15. Social/Recreational therapy.
16. Occupational therapy.

## **CLINICAL SPECIALITY – II COMMUNITY HEALTH NURSING**

Placement : II Year

Hours of Instruction  
Theory- 150 hours  
Practicals- 950 hours  
Total- 1100 hrs

### **Course Description**

This course is designed to assist students in developing expertise and indepth understanding in the field of community health nursing. It will help students to develop advanced skills for nursing intervention in various aspects of community health care settings. It will enable the student to function as community health Nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of community health nursing.

### **Objectives**

At the end of the course the students will be able to:

1. Appreciate trends and issues related to community health Nursingreproductive and child health, school health, Occupational health, international health, rehabilitation, geriatric and mental health.
2. Apply epidemiological concepts and principles in community health nursing practice
3. Perform community health assessment and plan health programmes
4. Describe the various components of Reproductive and child health programme.
5. Demonstrate leadership abilities in organizing community health nursing services by using inter-sectoral approach.
6. Describe the role and responsibilities of community health nurse in various national health and family welfare programmes
7. Participate in the implementation of various national health and family welfare programme
8. Demonstrate competencies in providing family centered nursing care independently
9. Participate/Conduct research for new insights and innovative solutions to health problems
10. Teach and supervise nurses and allied health workers.
11. Design a layout of sub center/Primary health center/Community health centre and develop standards for community health nursing practice.

### Content Outlines

Unit	Hours	Content
<b>I</b>	<b>20</b>	<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Introduction</li> <li>• Concept, scope, definition, trends, History and development of modern Epidemiology</li> <li>• Contribution of epidemiology</li> <li>• Implications</li> <li><input type="checkbox"/> Epidemiological methods</li> <li><input type="checkbox"/> Measurement of health and disease:</li> <li><input type="checkbox"/> Health policies</li> <li><input type="checkbox"/> Epidemiological approaches</li> <li>• Study of disease causatives</li> <li>• Health promotion</li> <li>• Levels of prevention</li> <li><input type="checkbox"/> Epidemiology of</li> <li>• Communicable diseases</li> <li>• Non-communicable diseases</li> <li><input type="checkbox"/> Emerging and re-emerging diseases Epidemics</li> <li><input type="checkbox"/> National Integrated disease Surveillance Programme</li> <li><input type="checkbox"/> Health information system</li> <li><input type="checkbox"/> Epidemiology study and reports</li> <li><input type="checkbox"/> Role of Community health nurse</li> </ul>
<b>II</b>	<b>40</b>	<p><b>National Health and Family Welfare Programmes</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Objectives, Organisation/manpower/resources, Activities, Goals, inter-sectoral approach, implementation, item/purpose, role and responsibilities of community health nurse:</li> <li>• National Vector Borne Disease Control Programm (NVBDCP)</li> <li>• NationalFilaria Control Programme</li> <li>• National Leprosy Eradication Programme</li> <li>• Revised national TB Control Programme</li> <li>• National Programme for Control of Blindness</li> <li>• National Iodine Deficiency disorders Control Progeramme</li> <li>• National Mental Health Programme</li> <li>• National AIDS Control Programme</li> <li>• National Cancer Control Programme</li> <li>• RCH I and II</li> <li>• Non- communicable disease programmes</li> <li>• NRHM</li> </ul>

		<p>- Health Schemes:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ESI</li> <li><input type="checkbox"/> CGHS</li> <li><input type="checkbox"/> Health Insurance</li> </ul>
<b>III</b>	<b>15</b>	<p><b>School Health</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Introduction: definition, concepts, objectives,.</li> <li><input type="checkbox"/> Health assessment, Screening, identification, referral and follow up,</li> <li><input type="checkbox"/> Safe environment</li> <li><input type="checkbox"/> Services, programmes and plans- first aid, treatment of minor ailments</li> <li><input type="checkbox"/> Inter-sectoral coordination</li> <li><input type="checkbox"/> Adolescent health</li> <li><input type="checkbox"/> Disaster, disaster preparedness, and management</li> <li><input type="checkbox"/> Guidance and counseling</li> <li><input type="checkbox"/> School health records - maintenance and its importance</li> <li><input type="checkbox"/> Roles and responsibilities of community health nurse</li> </ul>
<b>IV</b>	<b>15</b>	<p><b>International health</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Global burden of disease</li> <li><input type="checkbox"/> Global health rules to halt disease spread</li> <li><input type="checkbox"/> Global health priorities and programmes</li> <li><input type="checkbox"/> International quarantine</li> <li><input type="checkbox"/> Health tourism</li> <li><input type="checkbox"/> International cooperation and assistance</li> <li><input type="checkbox"/> International travel and trade</li> <li><input type="checkbox"/> Health and food legislation, laws, adulteration of food</li> <li><input type="checkbox"/> Disaster management</li> <li><input type="checkbox"/> Migration</li> <li><input type="checkbox"/> International health agencies –World Health organizations, World health assembly, UNICEF, UNFPA, SIDA, US AID, DANIDA, DFID. AusAID etc</li> <li><input type="checkbox"/> International health issues and problems</li> <li><input type="checkbox"/> International nursing practice standards</li> <li><input type="checkbox"/> International health vis-a vis national health</li> <li><input type="checkbox"/> International health days and their significance</li> </ul>
<b>V</b>	<b>15</b>	<p><b>Education and administration</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Quality assurance</li> <li><input type="checkbox"/> Standards, Protocols, Policies, Procedures</li> <li><input type="checkbox"/> Infection control; Standard safety measures</li> <li><input type="checkbox"/> Nursing audit</li> <li><input type="checkbox"/> Design of Sub-Centre/Primary Health Centre/Community health center</li> <li><input type="checkbox"/> Staffing; Supervision and monitoring-Performance appraisal</li> <li><input type="checkbox"/> Budgeting</li> </ul>

		<input type="checkbox"/> Material management <input type="checkbox"/> Role and responsibilities of different categories of personnel in community health <input type="checkbox"/> Referral chain- community outreach services <input type="checkbox"/> Transportation <input type="checkbox"/> Public relations <input type="checkbox"/> Planning in-service educational programme and teaching Training of various categories of health workerspreparation of manuals
<b>VI</b>	<b>10</b>	<b>Geriatric</b> <input type="checkbox"/> Concept, trends, problems and issues <input type="checkbox"/> Aging process, and changes <input type="checkbox"/> Theories of ageing <input type="checkbox"/> Health problems and needs <input type="checkbox"/> Psycho-physiological stressors and disorders <input type="checkbox"/> Myths and facts of aging <input type="checkbox"/> Health assessment <input type="checkbox"/> Home for aged-various agencies <input type="checkbox"/> Rehabilitation of elderly <input type="checkbox"/> Care of elderly <input type="checkbox"/> Elderly abuse <input type="checkbox"/> Training and supervision of care givers <input type="checkbox"/> Government welfare measures Programmes for elderly- Role of NGOs <input type="checkbox"/> Roles and responsibilities of Geriatric nurse in the community
<b>VII</b>	<b>10</b>	<b>Rehabilitation</b> <input type="checkbox"/> Introduction: Concepts, principles, trends, issues, <input type="checkbox"/> Rehabilitation team <input type="checkbox"/> Models, Methods <input type="checkbox"/> Community based rehabilitation <input type="checkbox"/> Ethical issues <input type="checkbox"/> Rehabilitation Council of India <input type="checkbox"/> Disability and rehabilitation- Use of various prosthetic devices <input type="checkbox"/> Psychosocial rehabilitation <input type="checkbox"/> Rehabilitation of chronic diseases <input type="checkbox"/> Restorative rehabilitation <input type="checkbox"/> Vocational rehabilitation <input type="checkbox"/> Role of voluntary organizations <input type="checkbox"/> Guidance and counseling <input type="checkbox"/> Welfare measures <input type="checkbox"/> Role and responsibilities of community health nurse
<b>VIII</b>	<b>10</b>	<b>Community mental health</b>

		<ul style="list-style-type: none"> <li><input type="checkbox"/> Magnitude, trends and issues</li> <li><input type="checkbox"/> National Mental Health Program- Community mental health program</li> <li><input type="checkbox"/> The Changing Focus of care</li> <li><input type="checkbox"/> The Public Health Model</li> <li><input type="checkbox"/> Case Management- Collaborative care</li> <li><input type="checkbox"/> Crisis intervention</li> <li><input type="checkbox"/> Welfare agencies</li> <li><input type="checkbox"/> Population at Risk</li> <li><input type="checkbox"/> The community as Client</li> <li>• Primary Prevention</li> <li>• Secondary prevention</li> <li>• Tertiary Prevention</li> <li><input type="checkbox"/> Community based rehabilitation</li> <li><input type="checkbox"/> Human rights of mentally ill</li> <li><input type="checkbox"/> Substance use</li> <li><input type="checkbox"/> Mentally challenged groups</li> <li><input type="checkbox"/> Role of community health nurse</li> </ul>
<b>IX</b>	<b>15</b>	<p><b>Occupational health</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Introduction: Trends, issues, Definition, Aims, Objectives, Workplace safety</li> <li><input type="checkbox"/> Ergonomics and Ergonomic solutions</li> <li><input type="checkbox"/> Occupational environment- Physical, social, Decision making, Critical thinking</li> <li><input type="checkbox"/> Occupational hazards for different categories of people physical, chemical, biological, mechanical, , Accidents,</li> <li><input type="checkbox"/> Occupational diseases and disorders</li> <li><input type="checkbox"/> Measures for Health promotion of workers; Prevention and control of occupational diseases, disability limitations and rehabilitation</li> <li><input type="checkbox"/> Women and occupational health</li> <li><input type="checkbox"/> Occupational education and counseling</li> <li><input type="checkbox"/> Violence at workplace</li> <li><input type="checkbox"/> Child labour</li> <li><input type="checkbox"/> Disaster preparedness and management</li> <li><input type="checkbox"/> Legal issues: Legislation, Labour unions, ILO and WHO recommendations, Factories act, ESI act</li> <li><input type="checkbox"/> Role of Community health nurse, Occupational health team</li> </ul>

## Practical

**Total = 960 Hours**  
**1 Week = 30 Hours**

S.No.	Deptt./Unit	No. of Week	Total Hours
1	<b>Urban and Rural community</b>	17	510 Hours
2	School Health	3	90 Hours
3	International health	2	60 Hours
4	Administration(SC/PHC/CHC)	2	60 Hours
5	Occupational health	2	60 Hours
6	Community Mental Health	2	60 Hours
7	Home for aged and Hospice	2	60 Hours
8	Rehabilitation	2	60 Hours
	<b>Total</b>	<b>32 Weeks</b>	<b>960 Hours</b>

### **Categorisation of practical activities**

#### **Observed**

- MCH office and DPHNO
- CHC/ First Referral Unit(FRU)
- Child guidance clinic
- Institute/Unit for mentally challenged
- District TB centre
- AIDS control society
- Filariasis clinic
- RCH clinic
- STD clinic
- Leprosy clinic
- Community based rehabilitation unit
- Cancer centers
- Palliative care
- Home of old age
- Mental health units
- De-addiction centres
- School health services
- Industry
- Selected industrial health centers
- ESI unit
- Municipality/ corporation office

#### **Assisted**

- Laparoscopic sterilization
- Vasectomy
- All clinics related to RCH
- Monitoring of national health and family welfare programmes



**Performed**

- Conduct various clinics
- School health assessment.
- Health survey.
- Health assessment
- Drug administration as per the protocols
- Treatment of minor ailments
- Investigating outbreak of epidemic.
- Screening for leprosy, TB and non-communicable disease
- Presumptive and radical treatment for Malaria.
- Counselling
- Report writing
- Referrals
- Writing a project proposal
- Material management- requisition for indent, condemnation, inventory maintenance,
- Training and Supervision of various categories of personnel
- Liaison with NGO's