

ALL INDIA INSTITUTE OF MEDICAL SCIENCES



BHUBANESWAR (ODISHA)

CURRICULUM & REGULATIONS

FOR

M.Sc. Nursing

COLLEGE OF NURSING

ALL INDIA INSTITUTE OF MEDICAL SCIENCES

Sijua, Post-Dumuduma, Bhubaneswar-751019 Odisha

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SYLLABUS AND REGULATIONS FOR M.Sc. NURSING PROGRAM

Preamble

The syllabus and regulations for the M.Sc. Nursing is developed by an Expert Advisory Committee for Nursing Education and Research constituted by Ministry of Health & Family Welfare, Government of India comprising of twelve members under the chairpersonship of Director, Bhubaneswar. The Ministry of Health and Family Welfare, New Delhi has directed through vide letter No. Z-28016/53/2006/SSH Dated 23rd October, 2013 to implement the same syllabus and regulations in all new six AIIMS. Later, minor modifications were made as per the practical needs of the course and the said modification were approved in the 2nd academic committee meeting held on 30th April, 2017 and consequently also approved by meetings of 2nd Governing Body and 2nd Institute Body held on 11th May, 2017 and 30th May, 2017 respectively. The final draft of the syllabus and regulations for M.Sc. Nursing course is presented in this document.

Philosophy

National Health Policy (NHP) 2002 emphasizes the need to prepare nurses to function in super-specialty areas who are required in tertiary care institutions, entrusting some limited public health functions to nurses after providing adequate training, and increase the ratio of degree holding vis-a-vis diploma holding nurses.

It is observed that there is an acute shortage of nursing faculty in under graduate and postgraduate nursing programme in India.

Postgraduate programme is essential to prepare nurses to improve the quality of nursing education and practice in India. Postgraduate programme in nursing builds upon and extends competence acquired at the graduate levels, emphasizes application of relevant theories into nursing practice, education, administration and development of research skills.

The programme prepares nurses for leadership position in nursing and health fields who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the national priorities and the changing needs of the society. This programme provides the basis for the post material programme in nursing. Further the programme encourages accountability and commitment to lifelong learning which fosters improvement of quality care.

Aim

The aim of the postgraduate programme in nursing is to prepare graduates to assume responsibilities as nurse specialists, consultants, educators, administrators in a wide variety of professional settings. 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 to carry out independent Research Work.

Objectives

On completion of the two-year M.Sc. Nursing programme, the graduate will be able to: -

1. Utilize/apply the concepts, theories and principles of nursing science.
2. Demonstrate advance competence in practice of nursing.
3. Practice as a nurse specialist.
4. Demonstrate leadership qualities and function effectively as nurse educator and manager.
5. Demonstrate skill in conducting nursing research, interpreting and utilizing the findings from health-related research.
6. Demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
7. Establish collaborative relationship as team members with other disciplines.
8. Demonstrate interest in continuous learning for personal and professional advancement.

Regulation of AIIMS Act

As per the AIIMS act the institute is empowered to grant medical, dental, nursing degrees, diplomas and other academic distinctions and titles.

Short Title and Commencement

These regulations shall be called “the regulations for the Master of Science in Nursing (M.Sc. Nursing) Degree. The regulations and syllabi are subject to modifications from to time by the institute academic committee.

Eligibility for Admission

1. Candidate should have passed the B.Sc. (Hons.) Nursing/ B.Sc. Nursing/ Post Basic B.Sc. Nursing degree from this Institution or any other Indian Nursing Council (INC) recognized college/institute with 60% aggregate marks (55% in case of SC/ST candidates).
2. The candidate should be a registered nurse and registered midwife (RN, RM) with any state nursing registration council.
3. Candidate shall be medically fit.

Entrance/ Selection test:

Selection of the candidates based on the merit of the entrance examination held by AIIMS.

Duration of the Course:

The duration of certified study for the M.Sc. Nursing course shall extend over a period of two academic years. The maximum period to complete the course successfully should not exceed four years.

Commencement of the Course:

This course shall commence from August of the academic year.

Medium of Instruction:

English shall be the medium of instruction for the entire subject of study and for examinations of the M.Sc. Nursing degree course.

Curriculum:

The curriculum and the syllabi for the course shall be as prescribed/ revised by the institute academic committee from time to time.

Eligibility criteria for Postgraduate (M.Sc. Nursing) Teacher:

Nursing faculty/Nursing expert in same clinical speciality holding Ph.D./M.Sc. Nursing with minimum of 3 years teaching experience after obtaining Postgraduate nursing qualification.

Branches of Study:

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

Branch I – Medical Surgical Nursing (*Cardio Vascular & Thoracic Nursing/ Critical Care Nursing/ Oncology Nursing/ Neurosciences Nursing/ Nephro-Urology Nursing/ Orthopedic Nursing/ Gastro Enterology Nursing*)

Branch II – Paediatric Nursing

Branch III – Obstetric &Gynaecological Nursing

Branch IV – Community Health Nursing

Branch V – Psychiatric Nursing

COURSE OF INSTRUCTION

S. No.	First Year		
	Subjects	Theory Hrs.	Practical Hrs.
1.	Nursing Education	150	150
2.	Advanced Nursing Practice	150	200
3.	Nursing Research & Statistics	150	100
4.	*Clinical Specialty- I	150	650
	Total	600	1100

S. No.	Second Year		
	Subjects	Theory Hrs.	Practical Hrs.
1.	Nursing Management	150	150
2.	Nursing Research (Dissertation)	----	300
3.	**Clinical specialty- II	150	950
	Total	300	1400

Educational visit 2 weeks

*Clinical specialty- I

- Branch I - Medical Surgical Nursing (*Cardio Vascular & Thoracic Nursing/ Critical care Nursing/ Oncology Nursing/ Neurosciences Nursing/ Nephro Urology Nursing/ Orthopedic Nursing/ Gastroenterology Nursing*)
- Branch II - Paediatric Nursing
- Branch III - Obstetrics & Gynaecological Nursing
- Branch IV - Community Health Nursing
- Branch V - Psychiatric Nursing

**Clinical specialty- II

- Branch I - Medical Surgical Nursing (*Cardio Vascular & Thoracic Nursing/ Critical care Nursing/ Oncology Nursing/ Neurosciences Nursing/ Nephro-Urology Nursing/ Orthopedic Nursing/ Gastro Enterology Nursing*)
- Branch II - Paediatric Nursing
- Branch III - Obstetrics & Gynaecological Nursing
- Branch IV - Community Health Nursing
- Branch V - Psychiatric Nursing

Note: Students have to maintain log book for each activity during the course of study

SCHEME OF EXAMINATION

S. No	Year & Subjects	Theory			Practical	
		Hours	Internal	External	Internal	External
I Year						
1.	Nursing Education	3	25	75	50	50
2.	Advanced Nursing Practice	3	25	75		
3.	Nursing Research & Statistics	3	25	75		
4.	Clinical Specialty- I	3	25	75	100	100
	Total		100	300	150	150
II Year						
1.	Nursing Management	3	25	75		
2.	Dissertation & viva				100	100
3.	Clinical Specialty- II	3	25	75	100	100
	Total		50	150	200	200

Rules of Examination:

1. Minimum pass marks shall be 50% in each of the theory and practical papers separately.
2. A candidate must have minimum 80% attendance in theory and 90% in practical (irrespective of the kind of absence) for appearing in examination.
3. If a candidate fails in the subject (either theory or practical) has to appear in the examination for both theory and practical paper of that subject.
4. Supplementary examination will be held within a gap of 45 days from the declaration of results of annual examination. A candidate, who fails to pass in any subject, shall be permitted to continue studies into the second year. However, he/she shall not be allowed to appear for the second-year examination until he/she passes all the subjects of the first year M.Sc. Nursing examination.
5. A candidate not fulfilling the eligibility criteria for writing the professional examination will be treated as the attempt and she /he will be only allowed to write the subsequent professional examination after meeting the eligibility criteria.
6. A candidate must have 100% attendance in each of the clinical areas before award of Degree.

7. Internal assessment marks in both theory and practical of all should not exceed more than 75% on an average in a batch.
8. The maximum period to complete the course successfully should not exceed four years.
9. An examiner should be a Lecturer/Assistant Professor or above position in a College of Nursing with M.Sc. Nursing qualification in respective subject with minimum of 5 years of teaching experience after obtaining postgraduate nursing qualification at Collegiate/ University level.
10. All practical examinations must be held in the respective clinical areas. Internal and External Examiner should jointly conduct practical examination of each student.
11. Following Question pattern should be followed.

Theory: Types of Question and distribution of marks (75 Marks)

1.	Essay: 3x15 marks	45 marks
2.	Short notes: 6x5 marks <i>(2 choices may be given)</i>	30 marks
Nursing Research and Statistics:		75 marks
Section A- Nursing Research		50 marks
1.	Essay: 2x15 marks	30 marks
2.	Short notes: 4x5 marks <i>(1 choice may be given)</i>	20 marks
Section B: Statistics		25 marks
1.	Essay: 1x15 marks	15 marks
2.	Short notes: 2x5 marks <i>(1 choice may be given)</i>	10 marks

Practical:

- 5 hours of practical examination per student.
- Practical examination in clinical specialties includes Long case, OSCE/OSPE and Viva-Voce.
- Long case examination refers to application of nursing process to an assigned patient.

12. Submission of Research Proposal/ Dissertation: As per institute policy.

During the programme of study, the candidate is required to write a dissertation in his/ her specialty. The candidate shall submit a dissertation in the field of specialty, before THREE months of the final examination for evaluation.

13. 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 programme of study for two years and successfully completed all programme requirements including the submission of dissertation.

Award of class:

- a. 75% (Seventy-five percent) and above in aggregate is considered to have passed with **Distinction.**
- b. 60 % (Sixty percent) to less 75 % (Seventy-five) in aggregate is considered to have passed in **First Class.**
- c. 50% (Fifty percent) and above is considered to have **Passed.**
- d. Below 50% (Fifty percent) is considered to have **Failed.**

Meritorious candidates will be awarded medals as per Institute Policy

M.Sc. Nursing

First Year

1-NURSING EDUCATION

Placement: First 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 analyse 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 analyse 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 OUTLINE			
Units	Hours		Course Content
	Theory	Practical	
I	10		<p>Introduction:</p> <ul style="list-style-type: none"> ➤ Education, definitions, aims, concepts of philosophies & their educational implications, ➤ Impact of Social, economical, political & technological changes in education: <ul style="list-style-type: none"> • Professional education • Current trends and issues in education • women education, adult education • Liberal education • Educational reforms and national educational policy, reports of various educational commissions • Trends in development of nursing education: <ul style="list-style-type: none"> - Historical development of nursing education in India - Overview of nursing education in the world, review of the pattern of nursing education in U.K., USA and India. - Agencies of education in India.
II	20	30	<p>Teaching – Learning Process</p> <ul style="list-style-type: none"> ➤ Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning. ➤ Educational aims and objectives; types, domains, levels, elements and writing of educational objectives. ➤ Competency based education (CBE) and outcome-based education (OBE). ➤ Instructional design: Planning and designing the lesson, writing lesson plan: meaning, its need and importance, formats. ➤ Instruction strategies– Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem based learning (PBL), workshop, project, role-play (socio-drama), clinical teaching methods, programmed instruction, self-directed learning(SDL), micro-teaching, computer assisted instruction(CAI), computer assisted learning (CAL).

COURSE OUTLINE			
Units	Hours		Course Content
	Theory	Practical	
III	10	10	<p>Instructional media and methods</p> <ul style="list-style-type: none"> ➤ Key concepts in the selection and use of media in education ➤ Developing learning resource material using different media ➤ Instructional aides - types, uses, selection, preparation, utilization. ➤ Teacher's role in procuring and managing instructional Aids - Projected and non-projected aids, multimedia, video-tele conferencing etc.
IV	10		<p>Measurement and evaluation:</p> <ul style="list-style-type: none"> ➤ Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement. ➤ Principles of assessment, formative and summative assessment- internal assessment, external examination, advantages and disadvantages. ➤ Criterion and norm referenced evaluation,
V	12	10	<p>Standardized and non-standardized tests:</p> <ul style="list-style-type: none"> ➤ Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- <ul style="list-style-type: none"> • Essay, short answer questions and multiple-choice questions. • Rating scales, checklist, OSCE/OSPE (Objective structured clinical/practical examination) • Differential scales and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique ➤ Question bank-preparation, validation, moderation by panel, utilization ➤ Developing a system for maintaining confidentiality
VI	8	5	<p>Administration, Scoring and Reporting</p> <ul style="list-style-type: none"> ➤ Administering a test; scoring, grading versus marks ➤ Objective tests, scoring essay test, methods of scoring, Item analysis.
VII	8	6	<p>Standardized Tools</p> <ul style="list-style-type: none"> ➤ Tests of intelligence, aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical

COURSE OUTLINE			
Units	Hours		Course Content
	Theory	Practical	
			abilities and disabilities.
VIII	5	6	<p>Nursing Educational programs</p> <ul style="list-style-type: none"> ➤ Perspectives of nursing education: Global & national. ➤ Patterns of nursing education and training programmes in India. Non-university and University programs: ANM, GNM, Basic B.Sc. Nursing, Post Certificate/ Post Basic B.Sc. Nursing, M.Sc. (N) programs, M.Phil., Ph.D. in Nursing, Post Basic super-specialty diploma programs, nurse practitioner programs.
IX	12	25	<p>Continuing Education in Nursing</p> <ul style="list-style-type: none"> ➤ Concepts, definition, importance, need scope, principles of adult learning, and assessment of learning needs, priorities, and resources. ➤ Program planning, implementation and evaluation of continuing education programs and in-service education. ➤ Research in continuing education. ➤ Distance and correspondence education in nursing.
X	10	10	<p>Curriculum Development</p> <ul style="list-style-type: none"> ➤ Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, types and framework. ➤ Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan. ➤ Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders. ➤ Equivalency of courses: Transcripts, credit system.
XI	8	4	<p>Teacher preparation</p> <ul style="list-style-type: none"> ➤ Teacher- roles & responsibilities, functions, characteristics, competencies, qualities ➤ Preparation of professional teacher ➤ Organizing professional aspects of teacher preparation programs ➤ Evaluation: self and peer ➤ Critical analysis of various programs of teacher education in

COURSE OUTLINE			
Units	Hours		Course Content
	Theory	Practical	
			India.
XII	10	5	Guidance and counseling <ul style="list-style-type: none"> ➤ Concept, principles, need, difference between guidance and counseling, trends and issues. ➤ Guidance and counseling services: diagnostic and remedial. ➤ Counseling process ➤ Coordination and organization of services. ➤ Techniques of counseling: Interview, case work, characteristics of counselor, problems counseling. ➤ Professional preparation and training for counseling.
XIII	12	10	Administration of Nursing Curriculum <ul style="list-style-type: none"> ➤ Role of curriculum coordinator – planning, implementation and evaluation. ➤ Evaluation of educational programs in nursing- course and program. ➤ Factors influencing faculty staff relationship and techniques of working together. ➤ Concept of faculty supervisor (dual) position. ➤ Curriculum research in nursing. ➤ Different models of collaboration between education and service
XIV	10		Management of nursing educational institutions <ul style="list-style-type: none"> ➤ Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,
XV	5	5	Development and maintenance of standards and accreditation in nursing education programs <ul style="list-style-type: none"> ➤ Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University. ➤ Role of Professional associations and unions.

Activities:

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Micro teaching.
- Conduct practice teachings using different teaching strategies (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	Methods of evaluation
<ul style="list-style-type: none">• Lecture cum discussion• Demonstration/ Return demonstration• Seminar / Presentations• Project work• Field visits• Workshop	<ul style="list-style-type: none">• Tests• Presentation• Project work• Written assignments

2-ADVANCED NURSING PRACTICE

Placement: First 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 analyse different theories of nursing and other disciplines.

Objectives:

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

1. Appreciate and analyse 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.

UNIT No.	HOUR	CONTENT
I	10	<p>Nursing as a Profession</p> <ul style="list-style-type: none"> ➤ History of development of nursing profession, characteristics, criteria of the profession, perspective of nursing profession-national, global ➤ Code of ethics (INC), code of professional conduct (INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations, ➤ Role of regulatory bodies ➤ Professional organizations and unions, self-defence, individual and collective bargaining ➤ Educational preparations, continuing education, career opportunities, professional advancement & role and scope of nursing education. ➤ Role of research, leadership and management. ➤ Quality assurance in nursing. ➤ Futuristic nursing. ➤ Innovation in nursing
II	5	<p>Health care delivery</p> <ul style="list-style-type: none"> ➤ Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing profession. ➤ Health care delivery system- national, state, district and local level. ➤ Major stakeholders in the health care system -Government, non- govt, Industry and other professionals. ➤ Patterns of nursing care delivery in India. ➤ Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of non- governmental agencies. ➤ Information, education and communication (IEC). ➤ Tele-medicine.
III	10	<p>Genetics</p> <ul style="list-style-type: none"> ➤ Review of cellular division, mutation and patterns/ law of inheritance, Human genome project, The Genomic era. ➤ Basic concepts of Genes, Chromosomes & DNA. ➤ Common genetic disorders ➤ Role of genetics in common disease [Cancer, Lifestyle diseases] ➤ Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening,

		<ul style="list-style-type: none"> ➤ Ethical, legal & psychosocial issues in genetic testing. ➤ Genetic counselling. ➤ Practical application of genetics in nursing.
IV	15	<p>Epidemiology</p> <ul style="list-style-type: none"> ➤ Scope, epidemiological approach and methods, Morbidity, mortality, rates and ratios ➤ Concepts of causation of diseases and their screening, ➤ Application of epidemiology in health care delivery, Health surveillance and health informatics ➤ Role of nurse
V	25	<p>Bio-Psycho social pathology</p> <ul style="list-style-type: none"> ➤ Pathophysiology and Psychodynamics of disease causation ➤ Concept of Self health ➤ Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, life style ➤ 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. ➤ Treatment aspects: pharmacological and pre- post-operative care aspects, ➤ Cardio pulmonary resuscitation. ➤ End of life Care: care of dying and dead ➤ Infection prevention (including HIV) and standard safety measures, bio-medical waste management. ➤ Role of nurse- Evidence based nursing practice; Best practices.
VI	20	<p>Philosophy and Theories of Nursing</p> <ul style="list-style-type: none"> ➤ Values, Conceptual models, approach. ➤ Nursing theories: Nightingale's, Hendersons's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson, Parsce, etc. and their applications, Health belief models, communication and management models. ➤ Evidence based practice model.
VII	5	<p>Scope of nursing practice:</p> <ul style="list-style-type: none"> - Alternative modalities of care - Extended role of the nurse, in promotive, preventive, curative and restorative

		health care delivery system in community and institutions.
VIII	15	<p>Nursing process approach</p> <ul style="list-style-type: none"> ➤ Health Assessment- illness status of patients / clients (Individuals, family, community), Identification of health-illness problems, health behaviors, signs and symptoms of clients. ➤ Methods of collection, analysis and utilization of data relevant to nursing process. ➤ Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.
IX	20	<p>Psychological aspects and Human relations</p> <ul style="list-style-type: none"> ➤ Human behavior, Life processes & growth and development, personality development, defense mechanisms, ➤ Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior, ➤ Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young & middle adult, and Older adult) ➤ Sexuality and sexual health. ➤ Stress and adaptation, crisis and its intervention. ➤ Coping with loss, death and grieving ➤ Principles and techniques of Counseling.
X	15	<p>Nursing practice</p> <ul style="list-style-type: none"> ➤ Framework, scope and trends of nursing practice. ➤ Alternative modalities of care, alternative systems of health and complimentary therapies. ➤ Health promotion and primary health care. ➤ Independent practice issues- Independent nurse-midwifery practitioner. ➤ Collaboration issues and models-within and outside nursing. ➤ Models of Prevention, mass communication ➤ Family nursing, Home nursing, ➤ Gender sensitive issues and women empowerment. ➤ Disaster nursing. ➤ Geriatric considerations in nursing. ➤ Evidence based nursing practice- Best practices ➤ Trans-cultural nursing.
XI	10	<p>Computer applications for patient care delivery system and nursing practice</p> <ul style="list-style-type: none"> ➤ Use of computers in teaching, learning, research and nursing practice. ➤ Windows, MS office: Word, Excel, Power Point,

	<ul style="list-style-type: none"> ➤ Internet, literature search ➤ Statistical packages.
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PRACTICAL

Clinical posting in the following areas:

Specialty area- in-patient unit	4 weeks
Emergency/ICU	2 weeks

Activities

- Prepare Case studies with nursing process approach and theoretical basis-5
- Presentation of comparative picture of theories-1
- Case- work using model of prevention-1
- Annotated bibliography 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, Tracheostomy, mechanical ventilation, Pacemaker, Haemodialysis, Peritoneal dialysis, LP, BT, Thoracentesis and abdominal paracentesis, OT techniques, Health assessment, Triage, Pulse oximetry

3-NURSING RESEARCH AND STATISTICS

Placement: First 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 OUTLINE			
Unit	Hours		Content Existing
	Theory	Practical	
I	10		Introduction: <ul style="list-style-type: none"> ➤ Need for research in nursing ➤ Methods of acquiring knowledge – problem solving and scientific method. ➤ Research – Definition, characteristics, purposes, kinds of research ➤ Historical Evolution of research in nursing ➤ Basic research terms ➤ Scope of nursing research: areas, problems in nursing, health and social research ➤ Concept of evidence-based practice ➤ Ethics in research ➤ Overview of Research process
II	5	5	Review of Literature <ul style="list-style-type: none"> ➤ Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature. ➤ Methods of writing review of literature writing anecdotal bibliography
III	10	5	Research problem: <ul style="list-style-type: none"> ➤ Identification of research problem ➤ Formulation of problem statement and research objectives ➤ Definition of terms ➤ Assumptions and delimitations ➤ Identification of variables ➤ Hypothesis – definition, formulation and types.
IV	12		Research Approaches and designs <ul style="list-style-type: none"> ➤ Types of research approaches: Characteristics, types advantages and disadvantages ➤ Types of research designs <ul style="list-style-type: none"> • Quantitative research designs: Experimental, Non experimental, RCT • Qualitative research designs: Phenomenology, Grounded theory, Ethnography and case study. ➤ Mixed research designs
V	4	7	Developing and presenting a research proposal
VI	5	5	Developing theoretical/conceptual framework.

COURSE OUTLINE			
Unit	Hours		Content Existing
	Theory	Practical	
			<ul style="list-style-type: none"> ➤ Theories: Nature, characteristics, Purpose and uses Using, testing and developing conceptual framework, models and theories.
VII	6		Sampling <ul style="list-style-type: none"> ➤ Population and sample ➤ Factors influencing sampling ➤ Sampling techniques ➤ Sample size ➤ Probability and sampling error ➤ Problems of sampling
VIII	20	10	Tools and methods of Data collection: <ul style="list-style-type: none"> ➤ Concepts of data collection ➤ Data sources, methods /techniques quantitative and qualitative. ➤ Tools for data collection – types, characteristics and their development ➤ Validity and reliability of tools ➤ Procedure for data collection
IX	5		Implementing research plan <ul style="list-style-type: none"> ➤ Pilot Study, ➤ Review research plan (design), ➤ Planning for data collection, ➤ Administration of tool/interventions, collection of data.
X	10	10	Analysis and interpretation of data <ul style="list-style-type: none"> ➤ Plan for data analysis: quantitative and qualitative ➤ Preparing data for computer analysis and presentation. ➤ Statistical analysis ➤ Interpretation of data ➤ Conclusion and generalizations ➤ Summary and discussion
XI	10		Reporting and utilizing research findings: <ul style="list-style-type: none"> ➤ Communication of research results; oral and written ➤ Writing research report purposes, methods and Style-Vancouver, American Psychological Association (APA), Campbell etc ➤ Writing scientific articles for publication: purposes & style
XII	3	8	Critical analysis of research reports and articles

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
- Journal club presentation
- Critical evaluation of selected research studies
- Writing a scientific paper

Method of Teaching

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

Methods of Evaluation

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

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. Apply & interpret measures of central tendency & measures of variance.
6. Identify concepts related to probability.
7. Use parametric and non- parametric statistical methods.
8. Draw conclusions of the study and predict statistical significance of the results.
9. Describe vital health statistics and their use in health-related research.
10. Use statistical packages for data analysis.

COURSE OUTLINE			
Unit	Hours		Content
	Theory	Practical	
I	8	4	Introduction: <ul style="list-style-type: none"> ➤ Definition, nature and scope of statistics ➤ Role of statistics in Nursing/health research ➤ Meaning of data, data types, scales of measurement ➤ Population and sample, parameter and statistic ➤ Organization of data–scrutiny and pre-processing ➤ Presentation of data–tables, diagrams/charts and graphs ➤ Frequency table–histogram, frequency curves ➤ Use of Excel and SPSS for data organization & presentation

COURSE OUTLINE			
Unit	Hours		Content
	Theory	Practical	
II	4	4	Measures of central tendency: <ul style="list-style-type: none"> ➤ Concept of central tendency, measures–mean, median and mode ➤ Percentile values–quartiles, percentiles, computation ➤ Interpretation of the measures
III	5	7	Measures of variability; <ul style="list-style-type: none"> ➤ Concept of dispersion, measures–range, quartile deviation, inter quartile range, mean deviation about median, variance, standard deviation, standard error, Coefficient of variation ➤ Computation and interpretation of the different measures Boxplot, Skewness, Kurtosis and related measures ➤ Using of Excel and SPSS for computing summary statistic
IV	3	3	Probability (3+3) <ul style="list-style-type: none"> ➤ Basic concepts of probability ➤ Sampling–basic concepts, probability sampling v/s non probability sampling, simple, stratified and systematic sampling methods ➤ Sample size determination in finite population. ➤ Normal distribution–properties and application ➤ Binomial distribution, Poisson distribution
V	7	10	Measures of relationship: <ul style="list-style-type: none"> ➤ Correlation and regression scatter plot, Pearson’s Product. Moment Correlation, Spearman’s rank correlation ➤ Regression model–simple linear regression, fitting and prediction ➤ Multiple regressions discriminate canonical correlation. ➤ Principle component and factor analysis ➤ Use of Excel and SPSS
VI	5	3	Design of experiments <ul style="list-style-type: none"> ➤ Basic concepts, Completely Randomized Design (CRD), Randomized Block Design (RBD), Latin Square Design (LSD)- applications, Factorial design
VII	9	10	Significance of Statistic and Testing hypothesis <ul style="list-style-type: none"> ➤ Inferential statistics ➤ Concept of hypothesis: null and alternative hypothesis, type I and type II errors, p- value, statistical significance ➤ Parameter tests: t test, Z test ➤ F- test for testing quality of variances ➤ One-way analysis of variance (ANOVA)MANOVA, ANCOVA ➤ Nonparametric tests: sign test, median test, ➤ Wilcoxon signed rank test, Mann–Whitney test, Chi-square test

COURSE OUTLINE			
Unit	Hours		Content
	Theory	Practical	
VIII	5	6	Use of statistical methods in psychology & education <ul style="list-style-type: none"> ➤ Scaling–Z score, Z Scaling ➤ Standard Score and T score ➤ Reliability of test scores: test retest method, parallel forms, split half method ➤ Validation of research tools, Kappa statistics
IX	4	3	Population Statistics <ul style="list-style-type: none"> ➤ Rates, Ratios and trends ➤ Measurement of fertility: Crude Birth Rate, Standardized Birth Rate, fertility, fecundity ➤ Measuring mortality: Death Rate, Age Specific Death Rate (ASDR), Infant Mortality Rate (IMR)
X	4	8	Use of Computers for data analysis <ul style="list-style-type: none"> ➤ 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

- Tests, assignments, and classroom statistical exercises.

CLINICAL SPECIALITY – I MEDICAL SURGICAL NURSING

Placement: First 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 neurosciences nursing/cardiovascular & thoracic nursing/critical care nursing/oncology nursing/orthopaedic and rehabilitation nursing/nephron & 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 practices 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 OUTLINE		
Unit	Hours	Content
I	5	<p>Introduction:</p> <ul style="list-style-type: none"> ➤ Historical development of Medical- Surgical Nursing in India. ➤ Current status of health and disease burden in India. ➤ Current concept of health. ➤ Scope of Medical-Surgical Nursing practices ➤ Different medical surgical nursing care settings ➤ Trends & issues in Medical Surgical Nursing. ➤ Ethical & cultural issues in Medical Surgical Nursing. ➤ Rights of patients. ➤ National health policy, special laws & ordinances relating to older people ➤ National goals, Five-year plans. ➤ National health programs related to adult health.
II	20	<p>Health Assessment of patients</p> <ul style="list-style-type: none"> ➤ History taking. ➤ Physical examination of various systems. ➤ Nutritional assessment. ➤ Related investigations and diagnostic assessment.
III	5	<p>Care in hospital settings:</p> <ul style="list-style-type: none"> ➤ Ambulatory care. ➤ Acute and critical care. ➤ Long term care. ➤ Home health care. ➤ Characteristics, care models, practice settings, interdisciplinary team. ➤ Hospitalization- effects of hospitalization on the patient & family. ➤ Stressors & reactions related to disease process. ➤ Nursing care using nursing process approach.
IV	10	<p>Management of patients with disorders of Gastro intestinal tract</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.

COURSE OUTLINE		
Unit	Hours	Content
V	10	<p>Management of patients with disorders of nervous system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, Pathophysiology, Clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
VI	10	<p>Management of patients with disorders of respiratory system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
VII	10	<p>Management of patients with disorders of cardio vascular system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.

COURSE OUTLINE		
Unit	Hours	Content
VIII	5	<p>Management of patients with disorders of blood</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies ➤ Evidence based nursing practice ➤ Rehabilitation and follow-up
IX	10	<p>Management of patients with disorders of genito urinary system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
X	10	<p>Management of patients with disorders of endocrine system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.

COURSE OUTLINE		
Unit	Hours	Content
XI	10	<p>Management of patients with disorders of musculo-skeletal system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
XII	8	<p>Management of patients with disorders of integumentary system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
XIII	5	<p>Management of patients with disorders of Eye and ENT</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders-etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.

COURSE OUTLINE		
Unit	Hours	Content
XIV	7	<p>Management of patients with disorders of reproductive system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology. ➤ Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health assessment- History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
XV	7	<p>Geriatric nursing</p> <ul style="list-style-type: none"> ➤ Nursing Assessment-History and Physical assessment. ➤ Ageing; ➤ Demography; Myths and realities. ➤ Concepts and theories of ageing. ➤ Cognitive Aspects of Ageing. ➤ Normal biological ageing. ➤ Age related body systems changes. ➤ Psychosocial Aspects of Aging. ➤ Medications and elderly. ➤ Stress & coping in older adults. ➤ Common Health Problems & Nursing Management; ➤ Psychosocial and Sexual. ➤ Abuse of elderly. ➤ Role of nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual. ➤ Role of nurse for caregivers of elderly. ➤ Role of family and formal and non-formal caregivers. ➤ Use of aids and prosthesis (hearing aids, dentures), ➤ Legal & Ethical Issues. ➤ Provisions and Programmes for elderly; privileges, Community Programs and health services; ➤ Home and institutional care. ➤ Issues, problems and trends.

COURSE OUTLINE		
Unit	Hours	Content
XVI	8	<p>Management of patients with communicable and sexually transmitted diseases:</p> <ul style="list-style-type: none"> ➤ Review of immune system. ➤ Common Disorders of immune system – HIV/AIDS. ➤ Review of infectious disease process. ➤ Communicable Diseases- etiology, Pathophysiology, Clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. ➤ Treatment modalities and trends. ➤ Nursing management. ➤ Related research studies. ➤ Evidence based nursing practice. ➤ Rehabilitation and follow-up.
XVII	10	<p>Emergency, trauma and multi-system organ failure</p> <ul style="list-style-type: none"> ➤ DIC (disseminated intravascular coagulation), sepsis, MODS ➤ Trauma, burns, poisoning, bites ➤ Etiology, pathophysiology, clinical manifestations, complications, prognosis. ➤ Health Assessment-History taking, physical examination, investigation and diagnostic assessment. <ul style="list-style-type: none"> • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based nursing practice. • Rehabilitation and follow-up.

PRACTICAL

Total= 660 Hours

S. No.	Dept/Unit	No. of Week
1.	General Medical Ward	4
2.	General Surgical Ward	4
3.	ICUs	4
4.	Oncology	2
5.	Ortho	2
6.	Cardio	2
7.	Emergency Department	2
8.	Neuro	2
	Total	22

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: First 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.

COMPETENCIES:

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

1. Appreciate the trends in the field of midwifery, obstetrics and gynaecological Nursing as a speciality.
2. Describe the population dynamics and indicators of maternal and Paediatric.
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 new-borns.
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.

Unit no	Hours	CONTENT
I	10	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Historical and contemporary perspectives ➤ Epidemiological aspects of maternal and neonatal health ➤ Magnitude of maternal and neonatal problems ➤ Issues of maternal and neonatal health: Age, Gender, Sexuality, psycho Socio cultural factors ➤ Preventive obstetrics ➤ National health and family welfare programme related to maternal and neonatal health: health care delivery system- National Rural health mission, Role of NGO's ➤ Theories, models and approaches applied to midwifery practice ➤ Role and scope of midwifery practice: Independent Nurse practitioners, midwifery practitioner, neonatal nurse ➤ Scope of midwifery practice in India: GOI guidelines ➤ Legal and Ethical issues: Code of ethics and standards of midwifery practice, standing orders ➤ Evidence based midwifery practice <p>Research priorities in obstetric and gynecological nursing.</p>
II	15	<p>Human reproduction</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology of human reproductive system: male and female ➤ Hormonal cycles ➤ Embryology ➤ Genetics, teratology and counseling <p>Clinical implications</p>
III	25	<p>Pregnancy</p> <ul style="list-style-type: none"> ➤ Maternal adaptation: Physiological and psychosocial <ul style="list-style-type: none"> • Assessment – Maternal and fetal measures Maternal measures: History taking, examination- General, physical and obstetrical measure, identification of high-risk pregnancy • Fetal measure- clinical parameters, biochemical- human estriol, Maternal Serum Alfa Feto Protein, Acetyl Cholinesterase (AchE), Triple Test Amniocentesis, Cordocentesis, chorionic villus sampling (CVS)), • Biophysical- (US IMAGING, Fetal movement count, Ultra Sonography, Cardiotocography, cardio tomography, Non-Stress Test (NST), Contraction

		<p>stress test (CST), amnioscopy, foetoscopy etc.</p> <ul style="list-style-type: none"> ➤ Radiological examination, Interpretation of diagnostic tests and nursing implications ➤ 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 ➤ Respectful maternity care ➤ Prenatal counseling, role of nurse and crisis intervention ➤ Identification of high-risk pregnancy and referral services. ➤ Role of Nurses midwifery practitioner <ul style="list-style-type: none"> • Alternative/complementary therapies
IV	25	<p>Normal Labour and nursing management:</p> <ul style="list-style-type: none"> ➤ Essential factors of labour ➤ Stages and onset <p>First stage: Physiology of normal labour</p> <ul style="list-style-type: none"> • Use of partograph: Principles, use and critical analysis, evidence-based studies • Analgesia and anesthesia in labour • Nursing management <p>Second stage</p> <ul style="list-style-type: none"> • Physiology, intrapartum monitoring • Nursing management. • Resuscitation, immediate newborn care and initiate breast feeding (Guidelines of National neonatology forum of India) <p>Third stage</p> <ul style="list-style-type: none"> • Physiology and nursing management <p>Fourth stage – Observation, critical analysis and Nursing management.</p> <ul style="list-style-type: none"> • Various child birth practice: water birth, position change etc. • Evidence based practice in relation to labour intervention <p>Role of nurse midwifery practitioner Alternative/complementary therapies</p>
V	20	<p>Normal puerperium and nursing management</p> <ul style="list-style-type: none"> ➤ Physiology of puerperium ➤ Physiology of lactation, lactation management ➤ exclusive breastfeeding, Baby friendly hospital initiative (BFHI) ➤ Assessment of postnatal women. ➤ Minor discomforts and complications of puerperium ➤ Management of mothers during puerperium:

		<ul style="list-style-type: none"> ➤ Postnatal exercises Rooming in, bonding, warm chain ➤ Evidence based studies
VI	20	<p>Normal Newborn</p> <ul style="list-style-type: none"> ➤ Physiology and characteristics of normal newborn ➤ Physical and Behavioral assessment of newborn ➤ Needs of newborn ➤ Essential newborn care: Exclusive breast feeding, Immunization, Hygiene measures, Newborn nutrition ➤ Respectful newborn care ➤ Organization of neonatal care, services (Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU ➤ Observation and care of newborn ➤ Parenting process
VII	10	<p>Pharmacodynamics in obstetrics</p> <ul style="list-style-type: none"> ➤ Drugs used in pregnancy, labour, post-partum and newborn ➤ Calculation of drug dose, administration of drugs, and effects of drugs used ➤ Anesthesia and analgesia in obstetrics ➤ Roles and responsibilities of midwifery nurse practitioner ➤ Standing orders and protocols and use of selected life saving drugs and interventions of obstetric emergencies approved by the MOHFW
VIII	10	<p>Family welfare services</p> <ul style="list-style-type: none"> ➤ Population dynamics ➤ Demography trends: vital statistics, calculation of indicators especially maternal and neonatal mortality rates and problems and other health problems ➤ Recent advances in contraceptive technology ➤ Role of nurses in family welfare programmes in all settings ➤ Role of independent nurse midwifery practitioner ➤ Family life education ➤ Evidence based studies ➤ Information, Education and Communication (IEC) ➤ Management information and evaluation system (MIES) ➤ Teaching and supervision of health team members
IX	5	Infertility

		<ul style="list-style-type: none">➤ Primary and secondary causes➤ Diagnostic procedures➤ Counseling: ethical and legal aspects of assisted reproductive technology (ART)➤ Recent advancement in infertility management.➤ Adoption procedures➤ Role of nurses in infertility management.
X	5	Menopause <ul style="list-style-type: none">➤ Physiological, psychological and social aspects➤ Hormone Replacement Therapy➤ Surgical menopause➤ Counseling and guidance➤ Role of nurse practitioner
XI	5	Abortion <ul style="list-style-type: none">➤ Types, causes➤ Legislations, patient rights and professional responsibility➤ Abortion procedures➤ Complications➤ Role of midwifery nurse practitioner

PRACTICAL

Total = 660 Hours

S. No.	Dept./Unit	No. of Week
1	Antenatal Wards & OPDs	4
2	Labour Room	5
3	Postnatal Ward	2
4	Family Planning Clinics	2
5	PHC/Rural maternity settings	4
6	Gynae	2
7	Maternity OT	2
8	NICU	1
	Total	22 Weeks

Procedures observed

- Diagnostic investigations : amniocentesis, chorionic villi sampling
- Infertility management: artificial reproduction: artificial insemination, invitro fertilization, and related procedures

Procedures assisted

- Medical termination of pregnancy

Procedures performed

- Antenatal assessment-20
- Postnatal assessment-20
- Assessment during labour and 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: as per the institutional policy

CLINICAL SPECIALTY –I PAEDIATRIC NURSING

Placement: First 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 centred 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

COURSE OUTLINE		
Unit	Hours	Content
I	5	Introduction <ul style="list-style-type: none"> ➤ Historical development of Pediatrics and Pediatric Nursing in India; ➤ Current status of Paediatric in India; ➤ Trends and issues in Pediatrics and Pediatric Nursing, ➤ Ethical and cultural issues in pediatric care ➤ Rights of children ➤ National health policy for children, special laws and ordinances relating to children.
II	10	Assessment of paediatric clients <ul style="list-style-type: none"> ➤ History taking ➤ Developmental assessment ➤ Physical assessment ➤ Nutritional assessment ➤ Family assessment
III	5	Hospitalized child <ul style="list-style-type: none"> ➤ Meaning of hospitalization of the child, preparation for hospitalization, effects of hospitalization on the child and family ➤ Stressors and reactions related to developmental stages, play activities for ill hospitalized child. ➤ Nursing care of hospitalized child and family -principles and practices
IV	10	Pre-natal Pediatrics <ul style="list-style-type: none"> ➤ Embryological and fetal development, Prenatal factors influencing growth and development of fetus ➤ 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, ➤ Importance of prenatal care and role of pediatric nurse.
V	10	Growth and Development of children <ul style="list-style-type: none"> ➤ Principles of growth and development, ➤ Concepts and theories of growth and development, ➤ Developmental tasks and special needs from infancy to adolescence,

COURSE OUTLINE		
Unit	Hours	Content
		<p>developmental milestones,</p> <ul style="list-style-type: none"> ➤ Assessment of growth and development of pediatric clients, ➤ Factors affecting growth and development.
VI	10	<p>Behavioral Pediatrics and Pediatric Nursing</p> <ul style="list-style-type: none"> ➤ Parent child relationship ➤ Basic behavioral pediatric principles and specific behavioral pediatric concepts/disorders- maternal deprivation, failure to thrive, child abuse, the battered child ➤ Common behavioral problems and their management, ➤ Child guidance clinic.
VII	10	<p>Preventive Pediatrics and Pediatric Nursing</p> <ul style="list-style-type: none"> ➤ Concept, aims and scope of preventive pediatrics, ➤ Maternal health and its influence on Paediatric /antenatal aspects of preventive pediatrics, ➤ Immunization, expanded program on immunization/universal immunization program and cold chain, ➤ Nutrition and nutritional requirements of children, changing patterns of feeding, baby- friendly hospital initiative and exclusive breast feeding, and breast-feeding technique. ➤ Health education, nutritional education for parents and children ➤ National Nutritional programs ➤ National Health Programme Related to Paediatric ➤ National health Goals ➤ Five Year Plan ➤ National and international organizations related to Paediatric, Role of pediatric nurse in the hospital and community.
VIII	10	<p>Developmental disturbances and implications for nursing</p> <ul style="list-style-type: none"> ➤ Adjustment reaction to school, ➤ Learning disabilities ➤ Habit disorders, speech disorders, ➤ Conduct disorders,

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Early infantile autism, Attention deficit hyperactive disorders (ADHD), depression and childhood schizophrenia
IX	10	<p>Challenged child and implications for nursing</p> <ul style="list-style-type: none"> ➤ Physically challenged, causes, features, early detection & management ➤ Children with cerebral palsy ➤ Mentally challenged child. ➤ Training & rehabilitation of challenged children
X	40	<p>Neonatal Nursing</p> <ul style="list-style-type: none"> ➤ New born baby: Concept, Goals, assessment, principles. <ul style="list-style-type: none"> - profile and characteristics of the new born, ➤ Nursing care of the new born at birth, care of the new born and family ➤ Assessment of gestational age for IUGR babies ➤ High Risk New-born: Identification, classification and nursing management. Neonatal Resuscitation ➤ Nursing management of <ul style="list-style-type: none"> • Preterm, term neonate and growth retarded babies. • Post-mature infant, and baby of diabetic and substance use mothers. • Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumothorax, pneumomediastinum • Icterus neonatorum. • Birth injuries. • Hypoxic ischaemic encephalopathy • Congenital anomalies. • Neonatal seizures. • Neonatal hypocalcaemia, hypoglycaemia, hypomagnesaemia. • Neonatal heart diseases. • Neonatal haemolytic diseases • Neonatal infections: neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS ➤ Advanced neonatal procedures.

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Calculation of fluid requirements. ➤ Haematological conditions – erythroblastosis fetalis, haemorrhagic disorder in the new-born ➤ Organization of neonatal care, services (Levels), transport
XI	30	<p>IMNCI (Integrated management of neonatal and childhood illnesses)</p> <p>Community Pediatrics and Pediatric Nursing:</p> <ul style="list-style-type: none"> ○ Components ○ principles ○ IMNCI Case Management Process for neonate to 2 months. ○ IMNCI case management process for 2 months to 5 yrs.

PRACTICAL

Total = 650 Hours

S.No.	Dept/Unit	No. of Week
1	Pediatric Medicine Ward	4
2	Pediatric Surgery Ward	4
3	Labor Room/Maternity Ward	2
4	Pediatric OPD	2
5	NICU	4
6	Creche	1
7	Child Guidance Clinic	1
8	Community pediatrics	4
	Total	22 Weeks

Student Activities

- Case study/Clinical presentations: High risk new-born: Medical and surgical condition
- Growth & developmental assessment, Nutritional assessment
- Assessment as per IMNCI
- Assessment & prioritised nursing care for hospitalised child based on nursing process.
- Health education related to disease conditions
- Project work

- **Field visits:** Anganwadi, Creche/Play school, UNICEF, Institute for challenged child children and child care centre.

Procedures Observed:

- ROP screening (Retinopathy of prematurity)
- Ultrasound head

Procedures Assisted

- Advanced neonatal life support
- Umbilical catheterization – arterial and venous
- Blood transfusion- exchange transfusion full and partial
- Airway Management
 - Application of Oro Pharyngeal Airway
 - Oxygen therapy
 - CPAP (Continuous Positive Airway Pressure)

Procedures Performed

- Assessment of Neonates: Identification & assessment of risk factors, APGAR Score, gestation age, Anthropometric assessment, Weighing the baby, New-born examination, detection of life-threatening congenital abnormalities,
- Admission & discharge of neonates
- Feeding-management of breastfeeding, artificial feeding, expression of breast milk, OG (Orogastric) tube insertion, gavage feeding, TPN, Breast feeding counselling
- Thermoregulation- Axillary temperature, Kangaroo Mother Care (KMC), Use of Radiant warmer, incubators, management of thermo regulation & control
- Monitoring of Neonates – clinically & with monitors, CRT (Capillary Refill Time), assessment of jaundice, ECG
- Neonatal Resuscitation
- 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
- **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, fumigation

CLINICAL SPECIALITY – I PSYCHIATRIC NURSING

Placement: First 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 nurse's role
11. Recognize the role of psychiatric nurse practitioner and as a member of the psychiatric and Psychiatric 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 OUTLINE		
Units	Hours	Content
I	15	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Psychiatric and Mental Illness ➤ Historical perspectives ➤ Trends, issues and magnitude ➤ Contemporary practices ➤ Psychiatric laws/Acts ➤ National Psychiatric program -National Psychiatric authority, state Psychiatric authority ➤ Human rights of mentally ill ➤ Psychiatric/ Mental Illness Continuum ➤ Classification of mental illnesses-ICD, DSM ➤ Standards of Psychiatric nursing ➤ Challenges and Scope of psychiatric nursing ➤ Multi-disciplinary team and role of nurse ➤ Current treatment modalities and role of the nurse ➤ Role of psychiatric nurse- extended and expanded
II	10	<p>Concepts of Psychobiology</p> <ul style="list-style-type: none"> ➤ The Nervous System: <ul style="list-style-type: none"> • An Anatomical Review • The Brain and limbic system • Nerve Tissue • Autonomic Nervous system • Neurotransmitters ➤ Neuroendocrinology <ul style="list-style-type: none"> • Pituitary, Thyroid Gland • Circadian Rhythms ➤ Genetics ➤ Neuro psychiatric disorders ➤ Psychoimmunology <ul style="list-style-type: none"> • Normal Immune response • Implications for psychiatric Illness ➤ Implications for Nursing

COURSE OUTLINE		
Units	Hours	Content
III	10	<p>Theories of Personality Development and relevance to nursing practice</p> <ul style="list-style-type: none"> ➤ Psychoanalytic Theory- Freud's ➤ Interpersonal Theory-Sullivan's ➤ Theory of Psychosocial Development-Erikson's ➤ Theory of object relations ➤ Cognitive Development Theory ➤ Theory of Moral Development ➤ A Nursing Model-Hildegard E. Peplau
IV	5	<p>Stress and its management</p> <ul style="list-style-type: none"> ➤ An introduction to the concepts of stress ➤ Psychological Adaptation to stress ➤ Stress as a Biological Response. ➤ Stress as an Environmental Event. ➤ Stress as Transaction between the Individual and the Environment. ➤ Stress management.
V	10	<p>Therapeutic communication and interpersonal relationship</p> <ul style="list-style-type: none"> ➤ Review communication process, factors affecting communication ➤ Communication with individuals and in groups ➤ Techniques of therapeutic communication-touch therapy ➤ Barrier of communication with specific reference to psychopathology ➤ Therapeutic attitudes ➤ Dynamics of a therapeutic Nurse-client relationship; Therapeutic use of self-Gaining self-awareness ➤ Therapeutic nurse-patient relationship its phases; Conditions essential to development of a therapeutic relationship ➤ Therapeutic impasse and its management
VI	10	<p>Assertive Training</p> <ul style="list-style-type: none"> ➤ Assertive Communication ➤ Basic Human Rights ➤ Response Patterns <ul style="list-style-type: none"> • (Nonassertive Behavior • Assertive Behavior • Aggressive Behavior • Passive-Aggressive Behavior) ➤ Behavioural Components of Assertive Behavior ➤ Techniques that Promote Assertive Behavior ➤ Thought-Stopping Techniques Method ➤ Role of The Nurse

COURSE OUTLINE		
Units	Hours	Content
VII	5	Promoting Self-Esteem <ul style="list-style-type: none"> ➤ Components of Self-Concept ➤ The Development of Self-Esteem ➤ The Manifestations of Low-Self-Esteem ➤ Boundaries ➤ Role of The Nurse
	5	Women and Psychiatry <ul style="list-style-type: none"> • Normal reaction to conception, pregnancy and puerperium • Problems related to conception, pregnancy and puerperium and its management. • Counseling – Premarital, marital and genetic
VIII	15	The nursing process in psychiatric/Psychiatric nursing <ul style="list-style-type: none"> ➤ Psychiatric assessment- History taking, mental status examination ➤ Physical and neurological examination ➤ Psychometric assessment ➤ Investigations, Diagnosis and Differential diagnosis ➤ Interpretation of investigations ➤ Nurse's role ➤ Nursing case management <ul style="list-style-type: none"> • Critical pathways of care ➤ Documentation <ul style="list-style-type: none"> • Problem-oriented recording • Focus charting • The PIE method
IX	35	Psycho social and physical therapies <ul style="list-style-type: none"> ➤ Individual therapy ➤ Behavioral Therapy- Relaxation therapy, cognitive therapy, positive- negative reinforcement, bio-feedback, guided imagery, ab-reactive therapy ➤ Group Therapy ➤ Family Therapy ➤ Milieu Therapy ➤ The Therapeutic Community ➤ Occupational therapy ➤ Recreational therapy ➤ Play therapy ➤ Music therapy ➤ Light therapy ➤ Color therapy ➤ Aroma therapy

COURSE OUTLINE		
Units	Hours	Content
X	5	Electroconvulsive Therapy <ul style="list-style-type: none"> ➤ Historical Perspectives ➤ Indications ➤ Contraindications ➤ Mechanisms of Action ➤ Side Effects ➤ Risks Associated with Electroconvulsive Therapy ➤ The Role of The Nurse in Electroconvulsive Therapy
XI	10	Psychopharmacology <ul style="list-style-type: none"> ➤ Historical Perspectives ➤ Role of a Nurse in Psychopharmacological Therapy <ul style="list-style-type: none"> • Antianxiety Agents • Antidepressants Agents • Mood stabilizers • Antipsychotics • Sedative-Hypnotics • Central Nervous System Stimulants ➤ Future developments
XII	15	Alternative systems of medicine in Psychiatric <ul style="list-style-type: none"> ➤ Types of Therapies <ul style="list-style-type: none"> • Herbal Medicine • Unani • Siddha • Homeopathic • Acupressure and Acupuncture • Diet and Nutrition • Chiropractic Medicine • Therapeutic Touch and Massage • Yoga • Pet Therapy

PRACTICAL

Total = 660 Hours

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

Student Activities

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

CLINICAL SPECIALITY- I COMMUNITY HEALTH NURSING

Placement: First 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.
13. 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

17.

Course outline		
Unit	Hours	Content
I	12	<p>Introduction</p> <ul style="list-style-type: none"> • Review of Health: Concepts, Determinants, issues and Measurements. • Health promotion and Levels of prevention • Alternate systems for health promotion and management of health problems • Health economics • Health Scheme • Health technology • Genetics and health • Waste disposal • Eco system • National health policy • Planning process: Five-year plans: NITI Ayog
II	30	<p>Community health Nursing</p> <p>Review of</p> <ul style="list-style-type: none"> • Philosophy, Aims, Objectives, Concepts, Scope, Principles, Functions • Historical development of Community Health and Community Health Nursing- World and India • Various health and family welfare committees • Current status, trends and challenges of Community Health Nursing • Issues in Community Health Nursing: Ethical, legal and Socio-cultural • Community health Nursing theories and models • Health status of the Community-community identification and community diagnosis • Family nursing and Family centered nursing approach • Family health nursing process <ul style="list-style-type: none"> - Family health assessment - Diagnosis - Planning - Intervention - Evaluation • Nursing care for special groups: children, adolescents, women, transgender, • Nursing care for Urban and rural population at large • Community health Nurse practitioner's/nurse midwifery Practitioners- Concept, role and responsibilities, decision making skills, professionalism • MLHP
III	5	<p>Community nutrition</p> <ul style="list-style-type: none"> • Nutrients and its need • Guideline for healthy eating

Course outline		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Nutrition of various age group (women, 0-6-month, young child over 6 months, older children, adolescent, men and old people) • Feeding sick people at home • Malnutrition • Nutrition services
IV	15	<p>Population dynamics and control</p> <ul style="list-style-type: none"> • Demography • Research, Census, National Family Health Survey • Transition and theories of population • National population policy • National population programmes • Population control and related programmes • Methods of family limiting and spacing
V	45	<p>Maternal and neonatal care</p> <ul style="list-style-type: none"> • IMNCI (Integrated Management of Neonatal and Childhood Illnesses) module • Skilled Birth Attendant (SBA) module
VI	15	Disaster nursing (INC module on Reaching out: Nursing Care in emergencies)
VII	10	<p>Information, education and communication</p> <ul style="list-style-type: none"> • IEC/BCC: Principles and strategies • Communication Skills • Management information and evaluation system: Records and reports • Health information system • Information technology • Tele-medicine and tele-nursing • Journalism • Mass media • Folk media
VIII	18	<p>Health care delivery system: Urban, rural, tribal and difficult areas</p> <ul style="list-style-type: none"> • Health organization: National, State, District, Village • CHC, PHC, Sub Centre, - Functions, Staffing, pattern of assistance, layout, drugs, equipment and supplies, • Panchayat raj institutions • Critical review of functioning of various levels, evaluation studies, recommendations and nursing perspectives • Alternative systems of medicine • Training and supervision of health workers • Health agencies: NGO's, Roles and functions

Course outline		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Inter-sectoral coordination • Public private partnership • Challenges of health care delivery system

PRACTICAL

Total = 660 Hours

S. No.	Dept./Unit	No. of Week
1	Sub-centre, PHC, CHC	12
2	District family welfare bureau	1
3	Urban centers	6
4	Field visits	3
	Total	22 Weeks

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 at least 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 at least 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

M.Sc. Nursing
SECOND YEAR

1-NURSING MANAGEMENT

Placement: Second 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 multi-sectoral 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.
12. Discuss the importance of integrating nursing practice, education, & research for improving the quality of nursing services.
13. Discuss the role of nurse manager in organizing emergency nursing and other support services.
14. Identify and analyse ethical & legal issues in nursing management.
15. Identify areas of research in nursing management.

COURSE OUTLINE		
Unit	Hours	Content
I	15	<p>Introduction to Administration and Management</p> <ul style="list-style-type: none"> ➤ Concept of Administration: Philosophy, purpose, elements, principles and scope of administration. ➤ Concept of management: Meaning, concept, purpose, significance and functions of management. ➤ Administration Vs Management ➤ Theories of administration ➤ Indian Constitution, Indian administrative system vis a vis health care delivery system: National, State and Local ➤ Organization and functions of nursing services and education at National, State, District and institutions: Hospital and Community ➤ Planning process: Five-year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans
II	10	<p>Nursing management</p> <ul style="list-style-type: none"> ➤ Concept of nursing management ➤ Vision and mission ➤ Philosophy, aims and objective ➤ Scope of nursing management ➤ Current trends and issues in nursing administration ➤ Theories and models ➤ Application to nursing service and education
III	10	<p>Planning</p> <ul style="list-style-type: none"> ➤ Planning process: Concept, principles, institutional policies ➤ Mission, philosophy, objectives, ➤ Strategic planning ➤ Operational plans ➤ Management plans ➤ Programme evaluation and review technique (PERT), Gantt chart, ➤ Planning for change ➤ Innovations in nursing ➤ Planning new venture ➤ Application to nursing service and education

COURSE OUTLINE		
Unit	Hours	Content
IV	15	<p>Organisation</p> <ul style="list-style-type: none"> ➤ Concept, principles, objectives, types and theories, minimum requirements for organisation, developing an organizational structure, levels, organizational effectiveness and organizational climate, ➤ Organising nursing services and patient care: Methods of patient assignment- advantages and disadvantages, primary nursing care, ➤ Planning and Organising: hospital, unit and ancillary services (specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc) ➤ Disaster management: plan, resources, drill, etc ➤ Application to nursing service and education
V	15	<p>Human Resource for health</p> <ul style="list-style-type: none"> ➤ Staffing <ul style="list-style-type: none"> • Philosophy • Norms: Staff inspection unit (SIU), Bajaj Committee, High power committee, Indian nursing council (INC) • Estimation of nursing staff requirement- activity analysis • Various research studies ➤ Recruitment: credentialing, selection, placement, promotion ➤ Retention ➤ Personnel policies ➤ Termination ➤ Staff development programme ➤ Duties and responsibilities of various category of nursing personnel ➤ Applications to nursing service and education
VI	15	<p>Directing</p> <ul style="list-style-type: none"> ➤ Elements and functions of directing ➤ Motivation: types, Motivational theories. ➤ Communication: process, types, technique, channels and barriers of communication ➤ Public relations in context of nursing. ➤ Delegation; common delegation errors ➤ Managing conflict: process, management, negotiation, consensus ➤ Collective bargaining: health care labour laws, unions, professional associations, role of nurse manager ➤ Occupational health and safety ➤ Application to nursing service and education

COURSE OUTLINE		
Unit	Hours	Content
VII	10	<p>Material management</p> <ul style="list-style-type: none"> ➤ Concepts, principles and procedures ➤ Planning and procurement procedures: Specifications ➤ ABC analysis, ➤ VED (very important and essential daily use) analysis ➤ Planning equipments and supplies for nursing care: unit and hospital ➤ Inventory control ➤ Condemnation ➤ Application to nursing service and education
VIII	15	<p>Controlling</p> <ul style="list-style-type: none"> ➤ Introduction to controlling-meaning, concept, definition, purpose, scope and principles ➤ Quality assurance – Continuous Quality Improvement (CQI) <ul style="list-style-type: none"> • Standards • Models • Nursing audit ➤ Performance appraisal: methods and Tools ➤ Supervision and management: concepts, principles and types. ➤ Discipline: constructive versus destructive discipline, maintenance of discipline- service rules, self discipline, disciplinary proceedings and enquiry etc ➤ Evaluation of service: Self evaluation or peer evaluation, patient satisfaction, utilization review ➤ Application to nursing service and education
IX	15	<p>Fiscal planning</p> <ul style="list-style-type: none"> ➤ Introduction to fiscal management – meaning, concept, definition, purpose, significance, scope & principles ➤ Steps ➤ Plan and non-plan, zero budgeting, mid-term appraisal, capital and revenue ➤ Budget estimate, revised estimate, performance budget ➤ Audit ➤ Cost effectiveness ➤ Cost accounting ➤ Critical pathways ➤ Health care reforms ➤ Health economics ➤ Health insurance ➤ Budgeting for various units and levels ➤ Application to nursing service and education

COURSE OUTLINE		
Unit	Hours	Content
X	10	<p>Nursing informatics</p> <ul style="list-style-type: none"> ➤ Trends ➤ General purpose ➤ Use of computers in hospital and community ➤ Patient record system ➤ Nursing records and reports ➤ Management information and evaluation system (MIES) ➤ E- nursing, Telemedicine, Telenursing ➤ Electronic medical records
XI	10	<p>Leadership</p> <ul style="list-style-type: none"> ➤ Concepts of leadership ➤ Leadership Theories ➤ Styles of leadership ➤ Effective leader ➤ Group dynamics ➤ Power and politics ➤ lobbying ➤ Critical thinking and decision making ➤ Stress management ➤ Applications to nursing service and education
XII	10	<p>Legal and ethical issues</p> <p>Laws and ethics</p> <ul style="list-style-type: none"> ➤ Ethical committee ➤ Code of ethics and professional conduct ➤ Legal system: Types of law, tort law, and liabilities ➤ Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character ➤ Patient care issues, management issues, employment issues ➤ Medico legal issues ➤ Nursing regulatory mechanisms: licensure, renewal, accreditation ➤ Patients' rights, Consumer protection act (CPA) ➤ Rights of special groups: children, women, HIV, handicap, ageing ➤ Professional responsibility and accountability ➤ Infection control ➤ 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- CARDIO VASCULAR AND THORACIC NURSING

Placement: Second 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 cardiovascular - thoracic 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 nurse's 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.

COURSE OUTLINE		
Unit	Hours	Content
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Historical development, trends and issues in the field of cardiology. ➤ Cardio vascular and thoracic conditions – major health problem. ➤ Concepts, principles and nursing perspectives ➤ Ethical and legal issues ➤ Evidence based nursing and its application in cardio vascular and thoracic nursing (to be incorporated in all the units) ➤ Future challenges
II	5	<p>Epidemiology</p> <ul style="list-style-type: none"> ➤ Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc ➤ Health promotion, disease prevention, Life style modification ➤ National health programs related to cardio vascular and thoracic conditions ➤ Alternate system of medicine ➤ Complementary therapies
III	5	<p>Review of anatomy and physiology of cardio vascular and respiratory system</p> <ul style="list-style-type: none"> ➤ Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung. ➤ Coronary circulation ➤ Hemodynamics and electro physiology of heart. ➤ Bio-chemistry of blood in relation to cardio pulmonary function. ➤ Physiologic and pathologic responses <ul style="list-style-type: none"> • Hematopoiesis and coagulation • Fluid and electrolyte balance and imbalance • Acid- base balances and imbalances • Physiologic adaptations with aging • Sleep
IV	20	<p>Assessment and Diagnostic Measures:</p> <ul style="list-style-type: none"> ➤ History taking

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Physical assessment <ul style="list-style-type: none"> • Heart rate variability: Mechanisms, measurements, pattern, factors, impact of interventions on HRV ➤ Diagnostic tests <ul style="list-style-type: none"> • Hemodynamic monitoring: Technical aspects, monitoring, functional hemodynamic indices, ventricular function indices, output measurements (Arterial and swan Ganz monitoring). Blood gases and its significance, oxygen supply and demand. • Radiologic examination of the chest: interpretation, chest film findings. • Electro cardiography (ECG): electrical conduction through the heart, basic electrocardiography, 12 lead electrocardiogram, axis determination. ➤ ECG changes in: intraventricular conduction Abnormalities-Arrhythmias, ischemia, injury and infarction, atrial and ventricular enlargement, electrolyte imbalance, <ul style="list-style-type: none"> • Echocardiography: technical aspects, special techniques, echocardiography of cardiac structures in health and disease, newer techniques. • Nuclear and other imaging studies of the heart: Magnetic Resonance Imaging. • Cardio electrophysiology procedures: diagnostic studies, interventional and catheter ablation, nursing care. • Exercise testing: indications and objectives, safety and personnel, pretest considerations, selection, interpretation, test termination, recovery period. • Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data. • Pulmonary function test: Bronchoscopy and graphics. • Exercise testing • Cardiac catheterization • Interpretation of diagnostic measures <ul style="list-style-type: none"> • Nurse's role in diagnostic tests ➤ 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. ➤ Interpretation and role of nurse
V	25	<p>Cardiac disorders and nursing management:</p> <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology,

COURSE OUTLINE		
Unit	Hours	Content
		treatment modalities and nursing management of: <ul style="list-style-type: none"> • Hypertension • Coronary Artery Disease. • Angina of various types. • Cardiomegaly • Myocardial Infarction, Congestive cardiac failure • Heart Failure, Pulmonary Edema, Shock. • Rheumatic heart disease and other Valvular Diseases • Inflammatory Heart Diseases, Infective Endocarditis, Myocarditis, Pericarditis. • Cardiomyopathy, dilated, restrictive, hypertrophic. • Arrhythmias, heart block • Associated illnesses
VI	10	Altered pulmonary conditions <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: <ul style="list-style-type: none"> • Bronchitis • Bronchial asthma • Bronchiectasis • Pneumonias • Lung abscess, lung tumour • Pulmonary tuberculosis, fibrosis, pneumoconiosis etc • Pleuritis, effusion • Pneumo, haemo and pyothorax • Interstitial Lung Disease • Cystic fibrosis • Acute and Chronic obstructive pulmonary disease • Cor pulmonale • Acute respiratory failure • Adult respiratory distress syndrome • Pulmonary embolism • Pulmonary Hypertension
VII	10	Vascular disorders and nursing management <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology,

COURSE OUTLINE		
Unit	Hours	Content
		<p>treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> • Disorders of arteries • Disorders of the aorta • Aortic Aneurysms, • Aortic dissection • Raynaud's phenomenon • Peripheral arterial disease of the lower extremities • Venous thrombosis • Varicose veins • Chronic venous insufficiency and venous leg ulcers • Pulmonary embolism
VIII	10	<p>Cardio thoracic emergency interventions</p> <ul style="list-style-type: none"> ➤ CPR- BLS and ACLS ➤ Use of ventilator, defibrillator, pacemaker ➤ Post resuscitation care. ➤ Care of the critically ill patients ➤ Psychosocial and spiritual aspects of care ➤ Stress management; ICU psychosis ➤ Role of nurse
IX	10	<p>Nursing care of a patient with obstructive airway</p> <ul style="list-style-type: none"> ➤ Assessment ➤ Use of artificial airway ➤ Endotracheal intubation, tracheostomy and its care ➤ Complication, minimum cuff leak, securing tubes <p>Oxygen delivery systems.</p> <ul style="list-style-type: none"> ➤ Nasal Cannula ➤ Oxygen mask, Venturi mask ➤ Partial and non-rebreathing bags ➤ Bi-PAP and C-PAP masks ➤ Uses, advantages, disadvantages, nursing implications of each. <p>Mechanical Ventilation</p> <ul style="list-style-type: none"> ➤ Principles of mechanical ventilation ➤ Types of mechanical ventilation and ventilators. ➤ Modes of ventilation, advantage, disadvantage, complications. ➤ PEEP therapy, indications, physiology, and complications. Weaning off the ventilator. ➤ Nursing assessment and interventions of ventilated patient.
X	10	<p>Congenital Heart Diseases,</p> <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Review of embryological development of heart. • Classification – cyanotic and acyanotic heart disease. • Tetralogy of Fallots. • Atrial Septal Defect, Ventricular Septal Defect, Eisenmenger’s complex. • Patent ductus arteriosus, AP window • Truncus Arteriosus. • Transposition of great arteries. • Total Anomaly of Pulmonary Venous Connection. • Pulmonary stenosis, atresia. • Coarctation of aorta. • Ebstein’s anomaly • Double outlet right ventricle, Single ventricle, hypoplastic left heart syndrome.
XI	10	<p>Pharmacology</p> <ul style="list-style-type: none"> ➤ Review ➤ Pharmacokinetics ➤ Analgesics/Anti inflammatory agents ➤ Antibiotics, antiseptics ➤ Drug reaction & toxicity ➤ Drugs used in cardiac emergencies ➤ Blood and blood components <ul style="list-style-type: none"> • Antithrombolytic agents • Inotropic agents • Beta-blocking agents • Calcium channel blockers. • Vaso constrictors • Vasodilators • ACE inhibitors. • Anticoagulants • Antiarrhythmic drugs. • Anti-hypertensive • Diuretics • Sedatives and tranquilizers. • Digitalis. • Anti-lipedemics ➤ Principles of drug administration, role and responsibilities of nurses and care of drugs
XII	20	<p>Nursing Care of Patient Undergoing Cardiothoracic Surgery</p> <ul style="list-style-type: none"> ➤ Indications, selection of patient ➤ Preoperative assessment and preparation; counseling.

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Intraoperative care: Principles of open-heart surgery, equipment, anaesthesia, cardiopulmonary by-pass. ➤ Surgical procedures for Coronary Artery Bypass Grafting (CABG), recent advances and types of grafts, Valve replacement or reconstruction, cardiac transplant, Palliative surgery and different Stents, vascular surgery, other recent advances. ➤ Thoracic surgery: lobectomy, pneumonectomy, tumour excision etc ➤ 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. ➤ Chest physiotherapy ➤ Nursing interventions- life style modification, complementary therapy/alternative systems of medicine. ➤ Intermediate and late post operative care after CABG, valve surgery, others. ➤ Follow up care
XIII	5	<p>Cardiac rehabilitation</p> <ul style="list-style-type: none"> ➤ Process ➤ Physical evaluation ➤ Life style modification ➤ Physical conditioning for cardiovascular efficiency through exercise ➤ Counseling ➤ Follow up care
XIV	5	<p>Intensive Coronary Care Unit/Intensive Cardiothoracic Unit:</p> <ul style="list-style-type: none"> ➤ Quality assurance <ul style="list-style-type: none"> • Standards, Protocols, Policies, Procedures • Infection control; Standard safety measures • Nursing audit • Design of ICCU/ICTU • Staffing; cardiac team • Burn out syndrome ➤ Nurse's role in the management of I.C.C.U and ICTU. ➤ Mobile coronary care unit. ➤ Planning inservice educational programme and teaching

PRACTICALS

Total – 950 Hours

S. No.	Dept./ Unit	No. of Week
1	Cardio thoracic -Medical	4
2	Cardio thoracic -Surgical	4
3	OTs (Cardiac and thoracic)	4
4	Casualty	2
5	Diagnostic labs including Cath lab	2
6	ICCU	4
7	ICU	4
8	CCU	4
9	Paediatric Intensive	2
10	OPD	2
Total		32 Weeks

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 catheterization
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
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 oximetry
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/test

CLINICAL SPECIALITY – II **MEDICAL SURGICAL NURSING - CRITICAL CARE NURSING**

Placement: Second 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 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 nurse's 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 equipment/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 outline		
Unit	Hours	Content
I	5	<p>Introduction to Critical Care Nursing</p> <ul style="list-style-type: none"> ➤ Historical review- Progressive patient care (PPC) ➤ Philosophy, aims and objectives, Policies of Critical Care Unit ➤ Concepts of critical care nursing ➤ Principles of critical care nursing ➤ Scope of critical care nursing ➤ Critical care unit set up including equipment, supplies, use and care of various type of monitors & ventilators ➤ Flow sheets ➤ Future challenges for critical care nursing
II	12	<p>Concept of Holistic care applied to critical care nursing practice</p> <ul style="list-style-type: none"> ➤ Impact of critical care environment on patients: - <ul style="list-style-type: none"> - Acute confusion, Sensory input, Sleep and Periodicity - Critical care psychosis: prevention & nursing care for patients affected with psychophysiological & psychosocial problems of critical care unit, Caring for the patient's family, family teaching - Assessment of patients and risk factors <p>Psychosocial factors affecting the outcome of critical care patients, Prevention and nursing care of patients affected with psychosocial and psychophysiological problems of critical care units</p> <ul style="list-style-type: none"> ➤ Caring for patient's family and counselling of family ➤ Loss, grief & bereavement: Bereavement process, Near death experiences ➤ Meeting spiritual needs of patient/family ➤ Care of dying patients ➤ The dynamics of healing in critical care unit: -Holistic approach, Therapeutic touch, Relaxation ➤ Alternative therapies in critical care <ul style="list-style-type: none"> - Guided imagery - Music therapy - Reflexology - Reiki Therapy - Acupressure ➤ Stress and burnout syndrome among health team members
III	14	<p>Review</p> <ul style="list-style-type: none"> ➤ Pharmacokinetics ➤ Analgesics/Anti-inflammatory agents

		<ul style="list-style-type: none"> ➤ Antibiotics, antiseptics ➤ Drug reaction & toxicity ➤ Drugs used in critical care unit (inclusive of ionotropic, life-saving drugs) ➤ Drugs used in various body systems ➤ Maintenance of fluid electrolyte balance ➤ IV fluids and electrolytes ➤ Blood and blood components ➤ Principles of drug administration, role of nurses and care of drugs <p>Assessment:</p> <ul style="list-style-type: none"> - History taking and physical examination - Indications, purposes, preparation, pre and post procedure care in laboratory tests: Hematologic studies, Arterial Blood gases, Blood Chemistry, Serum concentration of selected drugs - Cardiac markers - Radiological studies - Electro-physiology Study-Heart and brain (ECG, EEG) - Echocardiography, Radioisotope studies, Electron beam computed Tomography, magnetic resonance imaging and Phonocardiography - Angiographies-heart, brain and pulmonary - Ultrasonography- Doppler studies - Exercise testing-TMT, Holter - Cardiac catheterization - Pulse oximetry - End-tidal carbon dioxide monitoring - Pulmonary function test - Ventilation perfusion scan - Endoscopies - Lung ventilation scan - Haemodynamic monitoring <p>Electro Myelogram</p>
IV	5	<p>Pain Management</p> <ul style="list-style-type: none"> ➤ Pain & Sedation in Critically ill patients ➤ Theories of pain, Types of pain, Pain assessment, Systemic responses to pain ➤ Pain management-pharmacological and non-pharmacological measures ➤ Placebo effect
V	5	<p>Infection control in intensive care unit</p> <p>Nosocomial infection in intensive care unit; methyl resistant staphylococcus aureus (MRSA), Disinfection, Sterilization, Standard safety measures,</p>

		Prophylaxis for staff
VI	10	<p>Gastrointestinal System</p> <p>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</p> <p>Nutritional management of critically ill patients:</p> <ul style="list-style-type: none"> - Assessment of nutritional status - Fluid and electrolyte management - Administering nutritional support - Therapeutic Diets <p>Total parenteral nutrition</p>
VII	10	<p>Renal System</p> <ul style="list-style-type: none"> ➤ 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 ➤ Management of: - Renal Replacement Therapy (Peritoneal Dialysis, Hemodialysis, hemofiltration) ➤ Renal Transplant
VIII	10	<p>Nervous System</p> <ul style="list-style-type: none"> ➤ Causes, Pathophysiology, Clinical types, Clinical features, Diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of: - Common Neurological Disorders: -Cerebrovascular disease, Cerebrovascular accident, Seizure disorders, Guillain Barre-Syndrome, Myasthenia Gravis, Encephalopathy, Head injury, Spinal Cord injury, Brain Death, Coma, Persistent vegetative state, ➤ Management Modalities: <ul style="list-style-type: none"> - Assessment of Intracranial pressure - Management of intracranial hypertension, - Craniotomy ➤ Problems associated with neurological disorders: Thermo-regulation, Unconsciousness, Herniation syndrome
IX	5	<p>Endocrine System</p> <p>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), Adrenal insufficiency in Critical illness</p>

<p>X</p>	<p>12</p>	<p>Management of Trauma and multi system Emergency Conditions</p> <ul style="list-style-type: none"> ➤ Trauma: Mechanism of injury, Thoracic injuries, Abdominal injuries, pelvic fractures, complications of trauma, Head injuries, Polytrauma ➤ Shock: Shock syndrome, Hypovolemic, Cardiogenic, Anaphylactic, Neurogenic and Septic shock ➤ Systemic inflammatory Response: The inflammatory response, Multiple organ dysfunction syndrome ➤ Disseminated Intravascular Coagulation ➤ Drug Overdose and Poisoning, ➤ Immune system compromising conditions, Acquired Immunodeficiency Syndrome (AIDS) ➤ Superior vena caval obstruction syndrome
<p>XI</p>	<p>20</p>	<p>Cardiovascular emergencies</p> <ul style="list-style-type: none"> ➤ Principles of Nursing in caring for patients with Cardiovascular disorders ➤ Assessment: Cardiovascular system: Heart sounds, Diagnostic studies: - Cardiac enzymes studies, Electrocardiographic monitoring, Holter monitoring, Stress test. Echo cardiography Coronary angiography, Nuclear medicine studies ➤ 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, Defibrillation ➤ Management Modalities: Thrombolytic therapy, Pacemaker – temporary & permanent, Percutaneous transluminal coronary angioplasty, Cardioversion, Intra-Aortic Balloon pump monitoring, Cardiac surgeries, Coronary Artery Bypass Grafts (CABG/MICAS), Valvular surgeries, Heart Transplantation, Radiofrequency Catheter Ablation
<p>XII</p>	<p>10</p>	<p>Respiratory System</p> <ul style="list-style-type: none"> ➤ Acid-base balance & imbalance ➤ Assessment: History & Physical Examination ➤ 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 ➤ 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 respiratory failure, Acute respiratory distress syndrome

		<p>(ARDS), Chest Trauma Haemothorax, Pneumothorax, Deep Vein Thrombosis (DVT)</p> <ul style="list-style-type: none"> ➤ Management Modalities: -Airway Management ➤ Ventilatory Management: - Invasive, non-invasive, long term mechanical ventilations ➤ Bronchial Hygiene: -Nebulization, deep breathing exercise, chest physiotherapy, postural drainage, Inter Costal Drainage, Thoracic surgeries
XIII	7	<p>Burns</p> <ul style="list-style-type: none"> ➤ Clinical types, classification, pathophysiology, clinical features, assessment, diagnosis, prognosis, Management: Medical, Surgical& Nursing management of burns ➤ Fluid and electrolyte therapy – calculation of fluids and its administration ➤ Pain management ➤ Wound care ➤ Infection control ➤ Prevention and management of burn complications ➤ Grafts and flaps ➤ Reconstructive surgery ➤ Rehabilitation
XIV	5	<p>Other system emergencies</p> <ul style="list-style-type: none"> ➤ Ophthalmic: Emergencies Eye injuries, Glaucoma, retinal detachment ➤ Ear Nose Throat: Emergencies Foreign bodies, stridor, bleeding, quincy, acute allergic conditions ➤ Psychiatric emergencies; suicide, Crisis intervention
XV	6	<p>Obstetrical Emergencies</p> <ul style="list-style-type: none"> ➤ Causes, Pathophysiology, Clinical types, clinical features, Diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of: Antepartum hemorrhage, Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, Post-partum hemorrhage, Puerperal sepsis, Obstetrical shock, Amniotic fluid embolism, Haemolysis Elevated liver enzymes Low Platelets Syndrome (HELLP)
XVI	8	<p>Neonatal Pediatric emergencies</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Neonatal emergencies: Asphyxia Neonatorum, Pathological Jaundice

		<p>in Neonates,</p> <ul style="list-style-type: none"> • 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"> • Cyanotic heart disease, trachea oesophageal fistula, congenital hypertropic pyloric stenosis, imperforate anus • Pediatric emergencies <p>➤ Dehydration, Acute broncho pneumonia, Acute respiratory distress syndrome, Poisoning, Foreign bodies, seizures, traumas, Status asthmaticus</p>
XVII	3	<p>Legal and ethical issues in critical care-Nurse's role</p> <p>Ethical Issues in Critical Care: Ethics, Ethical principles, Withholding & withdrawing treatment, Ethical decision making, patient's rights, Legal responsibilities of a nurse</p> <ul style="list-style-type: none"> ➤ Brain death ➤ Organ donation & Counseling ➤ Do Not Resuscitate (DNR) ➤ Euthanasia ➤ Living will
XVIII	3	<p>Quality assurance</p> <ul style="list-style-type: none"> ➤ Standards, Protocols, Policies, Procedures ➤ Infection control; Standard safety measures ➤ Nursing audit ➤ Staffing ➤ Design of ICU/CCU

PRACTICAL

Total = 950 Hours

S.No.	Dept./Unit	No. of Week
1.	Burns ICU	2
2.	Medical ICU	8
3.	Surgical ICU	12
4.	CCU	2
5.	Emergency Department	3
6.	Dialysis Unit	1
7.	Transplant Room	2
8.	Paediatric/ NICU	2
Total		32 Weeks

ESSENTIAL CRITICAL CARE NURSING SKILLS**I. Procedures Observed**

1. CT Scan
2. MRI
3. EEG
4. Haemodialysis
5. 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
 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, 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 specimens.
 13. Setting, use & maintenance of basic equipment, ventilator, O₂ analyser, monitoring equipment, transducers, defibrillator, infusion & syringe pumps, centrifuge machine.

IV Other Procedures: As per the institutional policy

CLINICAL SPECIALITY-II MEDICAL SURGICAL NURSING- ONCOLOGY NURSING

Placement: Second 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 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.

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

COURSE OUTLINE		
Unit	Hours.	Content
V	10	<p>Levels of prevention and care</p> <ul style="list-style-type: none"> ➤ Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer, ➤ Self-Examination-Oral, Breast, Testicular ➤ Secondary prevention – early diagnosis. ➤ Screening ➤ Tertiary prevention – disability limitation, ➤ Rehabilitation: Mobility, Speech, Bowel and bladder, Ostomies etc. ➤ Patient and family education, ➤ Discharge instruction, follow-up care and use of community resources.
VI	25	<p>Cancer Treatment Modalities and Nurse's Role</p> <ul style="list-style-type: none"> ➤ Surgery <ul style="list-style-type: none"> • Principles of surgical oncology • Current surgical strategy, • Determining surgical risk • Special surgical techniques • Pre-intra-postoperative nursing care • Acute and chronic surgical complications • Future directions and advances ➤ Chemotherapy <ul style="list-style-type: none"> • Principles and classification of chemotherapeutics • Pharmacology of antineoplastic drugs- Mechanism of action, Absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity • Calculating drug doses, • Therapeutic response to Chemotherapy-Tumor variables, drug resistance,

COURSE OUTLINE		
Unit	Hours.	Content
		<ul style="list-style-type: none"> • Safety precautions
		<ul style="list-style-type: none"> ➤ Radiation therapy <ul style="list-style-type: none"> • Physics of radiotherapy • Types of ionizing rays • Radiation equipment: Linear accelerator, cobalt, Implants, Isotopes, • Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy • Effects of radiation on the body tissue, • Radiation biology - cell damage hypoxic cells, alteration of tumor kinetics. • Approaches to radiation therapy - • External radiotherapy • Internal radiotherapy - unsealed, • Sealed sources. • Effectiveness of Radiotherapy-Radio-sensitivity, treatment effects • Complications of radiotherapy • Radiation safety: Standards of Bhabha Atomic Research Centre (BARC) ➤ Bone Marrow Transplantation /Stem Cell Transplantation <ul style="list-style-type: none"> • Types, indications, transplantation procedure, complications and nursing management • Types and donor sources • Preparation and care of donor and recipient • Bone marrow bank • Legal and ethical issues ➤ Immunotherapy (Biotherapy) <ul style="list-style-type: none"> • Concepts and principles • Classification of agents • Treatment and applications ➤ Gene Therapy <ul style="list-style-type: none"> • Current Concepts and practices ➤ Alternative and Complementary Therapies <ul style="list-style-type: none"> • Current practices
VII	10	<ul style="list-style-type: none"> ➤ Pain management: - Theories, types and <ul style="list-style-type: none"> • Nature of cancer pain

COURSE OUTLINE		
Unit	Hours.	Content
		<ul style="list-style-type: none"> • Pathophysiology of pain • Pain threshold ➤ Assessment of pain • Principles of cancer pain control • Pharmacological: Opioid and non-opioid analgesic therapy • Patient Controlled Analgesia (PCA) • Other invasive techniques of pain control • Recent developments in cancer pain ➤ Non- Pharmacological pain relief technique- • Complementary therapies (Music, Massage, Meditation, Relaxation Techniques, Biofeedback etc.) • Psychological intervention in pain control • Alternative system of medicines <p>Role of nurse</p>
VIII	5	<p>Palliative care</p> <ul style="list-style-type: none"> ➤ Definition and scope, philosophy ➤ Concept and elements of palliative care ➤ Global and Indian perspective of palliative care ➤ Quality of life issues ➤ Communication skill ➤ Nursing perspective of palliative care and its elements ➤ Home care ➤ Hospice care ➤ Role of nurse in palliative care
IX	2	<p>Infection control:</p> <ul style="list-style-type: none"> • Process of infection, risk of hospitalization, nosocomial infections- prevention and control of infection in acute, long term care facility and

COURSE OUTLINE		
Unit	Hours.	Content
		<p>community-based care</p> <ul style="list-style-type: none"> • Standard safety measures
X	30	<p>Nursing Care of Patients with Specific Malignant Disorders</p> <ul style="list-style-type: none"> ➤ Malignancies of G.I. System-Oral, Esophagus, Stomach, Rectal, Liver & Pancreas, care of ostomies/stoma ➤ Respiratory malignancies ➤ Genito urinary system malignancies- prostate Bladder, Renal Testicular malignancies, ➤ Gynecological Malignancies-Cervix, Uterus, Ovary ➤ Hematological Malignancies-Lymphomas, Leukemia's. ➤ Malignancies of musculoskeletal system ➤ Endocrine malignancies ➤ Skin ➤ Head and Neck -brain tumors ➤ Other malignancies – Breast cancer, AIDS related Malignancies (Kaposi's Sarcoma)
XI	10	<p>Pediatric malignancies</p> <ul style="list-style-type: none"> ➤ Leukemia, Lymphoma, Neuro- blastoma ➤ Wilm's tumor, Soft tissue sarcoma, Retinoblastoma ➤ Nursing Management of children with Pediatric Malignancies
XII	15	<p>Nursing Management of Physiological Conditions and Symptoms of Cancer Patient</p> <ul style="list-style-type: none"> ➤ Nutrition: - effects of cancer on nutritional status and its consequences: - Anemia, Cachexia, Xerostomia, Mucositis, Dysphagia, Nausea and Vomiting, Constipation, Diarrhea, Electrolyte imbalances, Taste alterations ➤ Impaired mobility: Decubitus ulcer, Pathologic Fractures, Thrombophlebitis, Pulmonary Embolism, Contractures, Foot Drop <p>Other symptoms</p> <ul style="list-style-type: none"> ➤ Dyspepsia & Hiccup, Dyspnea ➤ Intestinal obstruction, ➤ Fungating wounds ➤ Anxiety & Depression, Insomnia ➤ Lymph edema <p>Impact of cancer on sexuality:</p> <ul style="list-style-type: none"> ➤ Effects of radiotherapy/ chemotherapy/surgery on sexuality of the cancer patient

COURSE OUTLINE		
Unit	Hours.	Content
		<ul style="list-style-type: none"> ➤ Nursing management of cancer patients experiencing sexual dysfunction ➤ Sexual counseling
XIII	10	<p>Cancer Emergencies</p> <ul style="list-style-type: none"> ➤ Disseminated intravascular coagulation (DIC), ➤ Malignant pleural effusion ➤ Neoplastic cardiac tamponade ➤ Septic shock ➤ Spinal Cord Compression ➤ Superior venacava syndrome ➤ Metabolic emergency: hyper and hypo calcemia ➤ Tumour Lysis Syndrome ➤ Surgical emergency ➤ Urological emergency ➤ Hemorrhage ➤ Organ obstruction ➤ Brain metastasis ➤ Nurses role in managing oncologic emergencies
XIV	8	<p>Psycho-Social Aspects of Nursing Care</p> <ul style="list-style-type: none"> ➤ Psychological responses of patients with cancer ➤ Psychosocial assessment – ➤ Crisis intervention, coping mechanisms ➤ Stress management, spiritual/cultural care and needs ➤ Counseling: individual and family ➤ Maximizing quality of life of patient and family <p>Ethical, moral and legal issues-</p> <ul style="list-style-type: none"> ➤ End of life care ➤ Grief and grieving process ➤ Bereavement support ➤ Care of Nurses who care for the dying.
XV	2	<p>Layout and Design of an oncology institution/ ward, OPD, Chemotherapy unit, Bone marrow transplantation unit, Pain clinic etc.</p> <ul style="list-style-type: none"> ➤ Practice Standards of oncology nursing

COURSE OUTLINE		
Unit	Hours.	Content
		<ul style="list-style-type: none"> • Policies and Procedures ➤ Establishing Standing orders and Protocols <p>Quality Assurance Programme in oncology units</p> <ul style="list-style-type: none"> ➤ Nursing audit

Clinical Experience

S.No.	Dept./ Unit	No. of Week
1	Medical Oncology ward	6
2	Surgical Oncology ward	6
3	Bone marrow transplantation Unit	2
4	Operation Theatre	2
5	Radiotherapy Unit	2
6	Chemotherapy Unit	4
7	Outpatient department and pain clinic	2
8	Pediatric Oncology ward	2
9	Palliative Care ward	2
10	Community oncology	2
11	Hospice	1
12	Other field visits	1
Total		32 Weeks

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. Counselling
13. Practice standard safety measures
14. Care of dead body and mortuary formalities

Other procedures: As per the institutional policy

CLINICAL SPECIALITY – II

MEDICAL SURGICAL NURSING- NEUROSCIENCES NURSING

Placement: Second 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 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 neurosciences 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 nurse's 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 in-service 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 OUTLINE		
Unit	Hours	Content
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Introduction to neuroscience (neurological and neurosurgical) nursing <ul style="list-style-type: none"> • History-Development in neurological and neuro surgical nursing, Service & education • Emerging trends and issues in neurology and neuro surgery and its implication to nursing. • neurological and neurosurgical problems – • Concepts, principles and nursing perspectives • Ethical and legal issues • Evidence based nursing and its application in neurological and neurosurgical nursing
II	5	<p>Epidemiology</p> <ul style="list-style-type: none"> ➤ Major health problems- ➤ Risk factors associated with neurological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations, occupational and infections. ➤ Health promotion, disease prevention, life style modification and its implications to nursing <p>Alternate system of medicine/complementary therapies</p>
III	10	<p>Review of Anatomy and physiology</p> <ul style="list-style-type: none"> ➤ Embryology ➤ Structure and functions of Nervous system- CNS, ANS, cerebral circulation, cranial and spinal nerves and reflexes, motor and sensory functions ➤ Sensory organs
IV	15	<p>Assessment and diagnostic measures</p> <ul style="list-style-type: none"> ➤ Assessment <ul style="list-style-type: none"> • History taking • Physical assessment, psychosocial assessment • Neurological assessments, Glasgow coma scale interpretation & its relevance to nursing. • Common assessment abnormalities ➤ Diagnostic measures <ul style="list-style-type: none"> • Cerebro spinal fluid analysis • 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. • Electrographic studies- Electro encephalography, MEG, EMG, video EEG,

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Nerve conduction Studies-Evoked potentials, visual evoked potentials, brain stem auditory evoked potentials, somatosensory evoked potentials • Ultrasound Studies-Carotid duplex, transcranial Doppler sonography, • Immunological studies • Biopsies – muscle, nerve and Brain. <p>Interpretation of diagnostic measures Nurse's role in diagnostic tests</p>
V	5	<p>Meeting Nutritional needs of neurological patients</p> <ul style="list-style-type: none"> ➤ Basic nutritional requirements ➤ Metabolic changes following injury and starvation ➤ Nutritional assessment ➤ Common neurological problems that interfere with nutrition and strategies for meeting their nutritional needs. ➤ Special metabolic and electrolyte imbalances ➤ Chronic fatigue syndrome
VI	5	<p>Drugs used in neurological and neurosurgical disorders</p> <ul style="list-style-type: none"> ➤ Classification ➤ Indications, contraindications, actions and effects, toxic effects ➤ Role of nurse
VII	10	<p>Traumatic conditions.</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Cranio cerebral injuries. • Spinal & Spinal cord injuries. • Peripheral nerve injuries. • Unconsciousness
VIII	10	<p>Cerebro vascular disorders.</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Stroke & arterio venous thrombosis. • Haemorrhagic embolus. • Cerebro vascular accidents. • Intracranial aneurysm. • Subarchnoid Hemorrhage. • Arterio venous fistula. • Brain tumors ➤ Diseases of cranial nerves; Trigeminal neuralgia, Facial palsy, Bulbar palsy.

COURSE OUTLINE		
Unit	Hours	Content
IX	10	<p>Degenerating and demyelinating disorders</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Motor neuron diseases. • Movement disorders- Tics, dystonia, chorea, Wilson's disease, essential tremors • Dementia. • Parkinson's disease. • Multiple sclerosis. • Alzheimer's
X	10	<p>Neuro infections</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of Neuro infections</p> <ul style="list-style-type: none"> • Meningitis-types • Encephalitis. • Poliomyelitis. • Parasitic infections. • Bacterial infections • Neurosyphilis. • HIV & AIDS. • Brain abscess
XI	10	<p>Paroxysmal disorders.</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Epilepsy and seizures. • Status epilepticus. • Syncope. • Meniere's syndrome. • Cephalgia.
XII	10	Developmental disorders.

COURSE OUTLINE		
Unit	Hours	Content
		<p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Hydrocephalus. • Craniosynostosis. • Spina bifida- Meningocele, Meningomyelocele, Encephalocele • Syringomyelia • Cerebro vascular system anomalies. • Cerebral palsies. • Down's syndrome
XIII	10	<p>Neuro muscular disorders.</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Polyneuritis – G B Syndrome. • Muscular dystrophy. • Myasthenia gravis. • Trigeminal neuralgia. • Bell's palsy. • Meniere's disease • Carpal tunnel syndrome • Peripheral neuropathies
XIV	5	<p>Neoplasms – surgical conditions.</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Space occupying lesions –types • Common tumors of CNS,
XV	5	<p>Other disorders</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of Metabolic disorders- diabetes, insipidus, metabolic encephalopathy</p> <p>➤ Sleep disorders</p> <p>➤ Auto immune disorders- multiple sclerosis, inflammatory Myopathies</p>
XVI	10	<p>Neuro emergencies</p> <p>➤ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis,</p>

COURSE OUTLINE		
Unit	Hours	Content
		Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Increased intracranial pressure • Unconscious • Herniation syndrome • Seizures • Severe head injuries • Spinal injuries • Cerebro vascular accidents
XVII	5	Rehabilitation. <ul style="list-style-type: none"> ➤ Concept and Principles of Rehabilitation. ➤ Factors affecting quality of life and coping ➤ Rehabilitation in acute care setting, and following stroke, head injury and degenerative disorders of brain ➤ Physiotherapy. ➤ Counseling ➤ Care giver's role Speech & Language. -Neurogenic communication disorders, Speech therapy
XVIII	5	Ethical and legal issues in neuroscience nursing <ul style="list-style-type: none"> ➤ Brain death and organ transplantation ➤ Euthanasia ➤ Negligence and malpractice ➤ Nosocomial infections
XIX	5	Quality assurance in neurological nursing practice <ul style="list-style-type: none"> ➤ Role of advance practitioner in neurological nursing ➤ Professional practice standards ➤ Quality control in neurologic nursing ➤ Nursing audit ➤ Neuro ICU <ul style="list-style-type: none"> • Philosophy, aims and objectives • Policies, staffing pattern, design and physical plan of neuro ICU • Team approach, functions • Psychosocial aspects in relation to staff and clients of neuro ICU, • In-service education

PRACTICAL

Total = 950 Hours

S. No.	AREA OF POSTING	No. of Week
1	O.P.D.	2
2	Casualty	2
3	Diagnostics	2
4	Neuro psychiatry	1
5	Neuro Medical wards	4
6	Pediatric Neuro ward	2
7	Neuro surgical wards	4
8	Head Injury ward	3
9	ICU- neuro medicine	4
10	I.C.U.- neuro surgical	4
11	Rehabilitation	2
12	Operation Theatre	2
Total		32 Weeks

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. Cerebral 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: As per the institutional policy

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

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

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

COURSE OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Renal trauma ➤ Renal abscess ➤ Diabetic nephropathy ➤ Vascular disorders ➤ Renal tuberculosis ➤ Polycystic ➤ Congenital disorders ➤ Hereditary renal disorders
VIII	10	<p>Management of Renal emergencies</p> <ul style="list-style-type: none"> ➤ Anuria ➤ Acute Renal failure ➤ Poisoning ➤ Trauma ➤ Urine retention ➤ Acute graft rejection ➤ Hematuria ➤ Nurse's role
IX	10	<p>Drugs used in urinary disorders</p> <ul style="list-style-type: none"> ➤ Classification ➤ Indications, contraindications, actions and effects, toxic effects ➤ Role of nurse
X	10	<p>Dialysis</p> <ul style="list-style-type: none"> ➤ Dialysis- Historical, types, Principles, goals <ul style="list-style-type: none"> • Hemodialysis- vascular access sites- temporary and permanent • Peritoneal dialysis ➤ Dialysis Procedures- steps, equipments, maintenance, ➤ Role of nurse- pre dialysis, intra and post dialysis ➤ Complications- ➤ Counseling ➤ Patient education ➤ Records and reports

COURSE OUTLINE		
Unit	Hours	Content
XI	10	<p>Kidney transplantation</p> <ul style="list-style-type: none"> ➤ Nursing management of a patient with Kidney transplantation (KTP) ➤ Kidney transplantations- a historical review ➤ Immunology of graft rejections ➤ The recipient of a renal transplant ➤ Renal preservations ➤ Human Leucocytic Antigen(HLA), typing matching and crossmatching in renal transplantation ➤ Surgical techniques of renal transplantations ➤ Chronic renal transplant rejection ➤ Complication after KTP: Vascular and lymphatic, Urological, cardiovascular, liver and neurological, infectious complication ➤ KTP in children and management of pediatric patient with KTP ➤ KTP in developing countries ➤ Results of KTP ➤ Work up of donor and recipient for renal transplant ➤ Psychological aspect of KTP and organ donations ➤ Ethics in transplants ➤ Cadaveric transplantation
XII	5	<ul style="list-style-type: none"> ➤ Rehabilitation of patient with nephrological problems ➤ Risk factors and prevention ➤ Rehabilitation of patients on dialysis and after kidney transplant ➤ Rehabilitation of patients after urinary diversions ➤ Family and patient teaching
XIII	10	<p>Pediatric urinary disorders</p> <ul style="list-style-type: none"> ➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of children with Renal Diseases - UTI, ureteral reflux, glomerulonephritis, nephrotic syndrome infantile nephrosis, cystic kidneys, Familial factors in renal diseases in childhood, Haemolytic uraemic syndrome. Benign recurrent haematuria, nephropathy,

COURSE OUTLINE		
Unit	Hours	Content
		wilms' tumour
XIV	5	Critical care units- dialysis , KTP unit <ul style="list-style-type: none"> ➤ Philosophy, aims and objectives ➤ Policies, staffing pattern, design and physical plan of Dialysis and KTP units ➤ Team approach, functions ➤ Psychosocial aspects in relation to staff and clients of ICU, dialysis unit ➤ In-service education ➤ Ethical and legal issues
XV	5	<ul style="list-style-type: none"> ➤ Quality assurance in nephrological nursing practice ➤ Role of advance practitioner in nephrological nursing ➤ Professional practice standards ➤ Quality control in nephrological nursing ➤ Nursing audit

PRACTICALS

Total = 950 Hours

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

Procedures observed**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. Counseling

IV. Other Procedures: As per the institutional policy.

CLINICAL SPECIALITY – II
MEDICAL SURGICAL NURSING -ORTHOPEDIC NURSING

Placement: Second 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 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

1. Appreciate the history and developments in the field of orthopaedic 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 orthopaedic 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 orthopaedic 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	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Historical perspectives-History and trends in orthopedic nursing ➤ Definition and scope of orthopedic nursing ➤ Anatomy and physiology of Musculo-skeletal system ➤ Posture, Body landmarks, Skeletal system Muscular system. Nervous system - Main nerves ➤ Healing of injury and bone injury, ➤ Repair of ligaments ➤ Systemic response to injury ➤ Ergonomics, Body mechanics, biomechanical measures ➤ Orthopedic team
II	8	<p>Assessment of Orthopedic Patient</p> <ul style="list-style-type: none"> ➤ Health Assessment: History, physical examination- Inspection, palpation, movement, Measurement, muscle strength Testing. ➤ Diagnostic studies – Radiological studies, Muscle enzymes, serologic studies
III	10	<p>Care of patients with devices</p> <ul style="list-style-type: none"> ➤ Splints, braces, various types of plaster cast ➤ Various types of tractions, ➤ Various types of orthopedic beds and mattresses ➤ Comfort devices ➤ Implants in orthopedic ➤ Prosthetics and Orthotics
IV	15	<p>Injuries</p> <p>Trauma & Injuries</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of: <ul style="list-style-type: none"> • Early management of Trauma • Fractures • Injuries of the <ul style="list-style-type: none"> - Shoulder and arm - Elbow, fore arm, wrist, hand - Hip, thigh, knee, leg, ankle, foot - Spine - Head injury - Chest injury • Polytrauma • Nerve injuries • Vascular injuries • Soft tissue injuries • Sports injuries • Amputation

COURSE CONTENT		
Unit	Hours	Content
V	8	Infections of Bones and Joints <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of: <ul style="list-style-type: none"> • Tuberculosis • Osteomyelitis • Arthritis • Leprosy
VI	5	Bone Tumours <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of: <ul style="list-style-type: none"> • Bone tumors – Benign, Malignant and metastatic • Different types of therapies for tumors
VII	10	Deformities <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical feature, diagnosis, prognosis – medical surgical and nursing management of: Scoliosis, Kyphosis, Lordosis ➤ Congenital disorders: Congenital dislocation of hip, Dislocation of patella, knee ➤ Varus and valgus deformities ➤ Deformities of digits ➤ Congenital torticollis ➤ Meningocele, meningomyelocele, spina bifida ➤ Chromosomal disorders ➤ Computer related deformities
VIII	5	Disorders of the spine <ul style="list-style-type: none"> ➤ Intervertebral disc prolapse, Fracture of the spine ➤ Low back disorder – Low back pain, PND, spinal stenosis, spondylosis
IX	5	Nutritional/Metabolic and Endocrine Disorders <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of: <ul style="list-style-type: none"> • Rickets, • Scurvy, • Hyper vitaminosis A and D, • Osteomalacia, • Osteoporosis • Paget's disease, • gout, • Gigantism, • Dwarfism, • Acromegaly. • Therapeutic diets for various orthopedic disorders

COURSE CONTENT		
Unit	Hours	Content
X	8	<p>Neuro-Muscular Disorders:</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of: <ul style="list-style-type: none"> • Poliomyelitis, Cerebral Palsy • Myasthenia gravis • Spina bifida. • Peripheral nerve lesion, • Paraplegia, Hemiplegia, Quadriplegia. • Muscular dystrophy
XI	8	<p>Chronic/Degenerative Diseases of Joints and Autoimmune Disorders:</p> <ul style="list-style-type: none"> ➤ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis –medical surgical and nursing management of: <ul style="list-style-type: none"> • Osteo Arthritis • Rheumatoid Arthritis • Ankylosing spondylitis. • Spinal disorders. • Systemic Lupus Erythematosus
XII	5	<p>Orthopedic Disorders in Children:</p> <ul style="list-style-type: none"> ➤ General and special consideration on pediatric orthopaedics ➤ Genetic disorders ➤ Congenital anomalies ➤ Growth disorders ➤ Genetic counseling ➤ Nurses role in genetic counseling
XIII	5	<p>Geriatric Problems</p> <ul style="list-style-type: none"> ➤ Geriatric population, types of disabilities, causes, treatment and Management –Hospitalization, rest, physiotherapy, involvement of family members, social opportunities. ➤ Care at home – involvement of family and community, follow up care and rehabilitation
XIV	6	<p>Pharmacokinetics</p> <ul style="list-style-type: none"> ➤ Principles of drug administration ➤ Analgesics and anti-inflammatory agents ➤ Antibiotics, Antiseptics, ➤ Drugs used in orthopaedics and neuromuscular disorders ➤ Blood and blood components ➤ Care of drugs and nurse's role

COURSE CONTENT		
Unit	Hours	Content
XV	30	<p>Nurses Role in orthopedic conditions</p> <ul style="list-style-type: none"> ➤ Gait analysis ➤ Urodynamic studies ➤ Prevention of physical deformities ➤ Alteration of body temperature regulatory system and immune systems ➤ Immobilization – cast, splints, braces and tractions ➤ Prevention and care of problems related to immobility ➤ Altered sleep patterns ➤ Impaired communication ➤ Self care and activities of daily living ➤ Bladder and bowel rehabilitation ➤ Sensory function rehabilitation ➤ Psychological reaction related to disabilities and disorders. ➤ Coping of individual and family with disabilities and disorders ➤ Maintaining sexuality <ul style="list-style-type: none"> ➤ Spirituality – A rehabilitative prospective <p>Orthopedic Reconstructive Surgeries</p> <ul style="list-style-type: none"> ➤ Replacement surgeries – Hip, Knee, Shoulder ➤ Spine surgeries ➤ Grafts and flaps surgery ➤ Deformity correction. <p>Physiotherapy</p> <ul style="list-style-type: none"> ➤ Concepts, Principles, purpose, <ul style="list-style-type: none"> • Mobilization – Exercises: types, re-education in walking: Crutch walking, wheel chair, Transfer techniques, • Types of gaits: Non-weight bearing, partial weight bearing, Four-point crutch, tripod, walking with sticks, calipers • Forms of therapies: Hydrotherapy, electrotherapy, wax bath, heat therapy, ice, helio therapy, radiant heat, • Chest physiotherapy

COURSE CONTENT		
Unit	Hours	Content
XVI	8	<p>Rehabilitation</p> <ul style="list-style-type: none"> ➤ Principles of rehabilitation, definition, philosophy, process, ➤ Various types of therapies ➤ Special therapies and alternative therapies ➤ Rehabilitation counseling ➤ Preventive and restorative measures. ➤ Community based rehabilitation (CBR) ➤ Challenges in rehabilitation. ➤ Role of the nurse in rehabilitation, ➤ Legal and ethical issues in rehabilitation nursing ➤ Occupational therapy
XVII	5	<p>National Policies and Programmes</p> <ul style="list-style-type: none"> ➤ National programmes for rehabilitation of persons with disability-National Institutes, artificial limbs manufacturing Corporation, District Rehabilitation Centers and their schemes ➤ Regional rehabilitation centres etc. ➤ Public policy in rehabilitation nursing ➤ The persons with disabilities act 1995, ➤ Mental rehabilitation and Multiple disabilities act 1992, ➤ The National Trust Rules 1999 and 2000 ➤ Rehabilitation Council of India ➤ Legal and ethical aspects in orthopedic nursing ➤ Rehabilitation health team and different categories of team members.
XVIII	4	<p>Quality assurance</p> <ul style="list-style-type: none"> ➤ Standards, Protocols, Policies, Procedures ➤ Nursing audit ➤ Staffing ➤ Design of orthopedic, physiotherapy and rehabilitation unit

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 = 950 Hours

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

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: As per the institutional policy

CLINICAL SPECIALITY - II
MEDICAL SURGICAL NURSING - GASTRO ENTEROLOGY NURSING

Placement: Second 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 in- depth understanding in the field of gastro enterology Nursing. It will help students to develop advanced skills for nursing intervention in various gastro 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 nursing
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 gastro intestinal conditions
7. Describe the various drugs used in gastrointestinal conditions and nurse's responsibility
8. Demonstrate skill in handling various equipment's/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 enterology intensive care unit (GEICU), liver care/transplant unit

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

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Colonoscopy • Proctosigmoidoscopy • Endoscopic Retrograde Cholangio Pancreatography (ERCP) • Endoscopic ultrasound • Peritoneoscopy (Laparoscopy) • Gastric emptying studies • Blood chemistries: Serum amylase, serum lipase • Liver biopsy • Miscellaneous tests: Gastric analysis, fecal analysis • Liver function tests: Bile formation and excretion, dye excretion test, Protein metabolism, haemostatic functions- prothrombin, vitamin K production, serum enzyme tests, Lipid metabolism-serum cholesterol • Interpretation of diagnostic measures • Nurse's role in diagnostic tests
V	25	<p>Gastro intestinal disorders and nursing management</p> <p>➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of</p> <ul style="list-style-type: none"> • Disorders of the mouth: Dental caries, Periodontal disease, Acute tooth infection, Stomatitis, Thrush (moniliasis), Gingivitis, Leucoplakia, Inflammation of the parotid gland, Obstruction to the flow of saliva, Fracture of the jaw • Disorders of the oesophagus: Reflux oesophagitis, Oesophageal achalasia, Oesophageal varices, Hiatus hernia, Diverticulum • Disorders of the stomach and duodenum: Gastritis, Peptic ulcer, Dumping of the stomach, Food poisoning, idiopathic gastroparesis, Aerophagia and belching syndrome, Idiopathic cyclic nausea and vomiting, Rumination syndrome, Functional dyspepsia, Chronic Nonspecific (functional) abdominal pain • Disorders of the small intestine <ul style="list-style-type: none"> - Malabsorption syndrome – tropical sprue - Gluten – sensitive enteropathy (Coeliac disease) - Inflammatory diseases of intestines and abdomen.: appendicitis, Peritonitis, Intestinal obstruction, Abdominal TB, Gastrointestinal polyposis syndrome

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> - Chronic inflammatory bowel disease, Ulcerative colitis, crohn's disease - Infestations and infections – Worm infestations, Typhoid, nLeptospirosis - Solitary rectal ulcer syndrome - Alteration in bowel elimination (diarrhoea, constipation, fecal impaction, fecal incontinence, Irritable bowel syndrome, Chronic idiopathic constipation, Functional Diarrhoea - Anorectal Conditions: Hemorrhoid, Anal fissure, Anal fistula, Abscess, Strictures, Rectal prolapse, Pruritis ani, Pilonidal disease, Anal condylomas, Warts
VI	15	<p>Disorder of liver, pancreas gall bladder and nursing management</p> <ul style="list-style-type: none"> ➤ Disorders of liver biliary tract : <ul style="list-style-type: none"> • Viral Hepatitis – A, B, C, D & E • Toxic hepatitis • Cirrhosis of liver, liver failure, Liver transplantation • Non cirrhotic portal fibrosis • Liver abscess,; • Parasitic and other cysts of the liver ➤ Disorders of the Gall Bladder and Bile Duct: <ul style="list-style-type: none"> ➤ Cholecystitis ➤ Cholelithiasis ➤ Choledocholithiasis ➤ Disorders of the pancreas: Pancreatitis, <ul style="list-style-type: none"> • Benign tumors of islet cells ➤ Disorders of the Peritoneum <ul style="list-style-type: none"> • Infections of the peritoneum ➤ Surgical peritonitis ➤ Spontaneous bacterial peritonitis ➤ Tuberculosis peritonitis ➤ Disorders of the Diaphragm <ul style="list-style-type: none"> • Diaphragmatic hernia • Congenital hernias • Paralysis of diaphragm • Tumors of the diaphragm

COURSE CONTENT		
Unit	Hours	Content
		➤ Hiccups
VII	15	<p>Gastro intestinal emergencies and nursing interventions</p> <p>➤ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of:</p> <ul style="list-style-type: none"> • Esophageal varices, • Ulcer perforation, • Acute cholecystitis • Diverticulitis • Fulminant hepatic failure • Biliary obstruction • Bowel obstruction • Gastroenteritis • Intussusception • Acute intestinal obstruction, perforation • Acute pancreatitis • Cirrhosis of liver complications • Liver , spleen, stomach pancreatic, mesenteric, bowel and greater vessel injuries • Acute appendicitis /peritonitis • Acute abdomen • Food poisoning
VIII	15	<p>➤ Congenital Anomalies of Esophagus</p> <ul style="list-style-type: none"> • Esophageal atresia • Tracheo esophageal fistula • Esophageal stenosis • Esophageal duplications • Dysphagia - Lusoria - aberrant right subclavian artery compressing esophagus • Esophageal rings – schalzki ring • Esophageal webs <p>➤ Congenital Anomalies of Stomach</p> <ul style="list-style-type: none"> • Gastric atresia • Micro gastia • Gastric diverticulum

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Gastric duplication • Gastric teratoma • Gastric volvulus • Infantile hypertrophic pyloric stenosis • Adult hypertrophic pyloric stenosis <p>➤ Congenital Anomalies of Duodenal</p> <ul style="list-style-type: none"> • Duodenal Atresia or stenosis • Annular pancreas • Duodenal duplication cysts • Malrotation and mid gut volvulus <p>➤ Developmental anomalies of the intestine:</p> <ul style="list-style-type: none"> • Abdominal wall defects (omphalocele and Gastroschisis) • Meckel's diverticulum • Intestinal atresia <p>➤ Hirschsprung's disease</p>
IX	15	<p>Pharmo Kinetics</p> <ul style="list-style-type: none"> ➤ Drugs used in GIT ➤ Principles of administration ➤ Roles responsibilities of nurses ➤ Drugs in Peptic ulcer disease ➤ Proton Pump inhibitors ➤ H₂ Receptor Antagonists ➤ Cytoprotective Agents: ➤ Drugs used in Diarrhoea ➤ Drugs used in constipation ➤ Drugs used in Inflammatory Bowel Disease ➤ Aminosalicylates ➤ Corticosteroids ➤ Immunomodulators ➤ chemotherapy ➤ Antibiotics ➤ Antiemetics: ➤ Anticholinergics ➤ Antihistamines ➤ Anthelmintics

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

PRACTICALS

Total = 950 Hours

S.No.	Deptt./Unit	No. of Week
1	Diagnostic labs	2
2	Emergency and casualty	3
3	Liver transplant unit	1
4	GE Medical Ward	6
5	GE Surgical Ward	8
6	OT	2
7	ICU	4
8	Pediatric gastroenterology	2
9	Oncology	2
10	GE OPD	2
Total		32 Weeks

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 in-service education programme for nursing staff and Class-I Employees
10. Counseling

CLINICAL SPECIALITY – II OBSTETRIC AND GYNAECOLOGICAL NURSING

Placement: Second 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 in- depth understanding in the field of Obstetric and gynaecological Nursing. It will help the student to develop advanced nursing skills for nursing interventions in various obstetrical and gynaecological 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.

CONTENTS OUTLINE		
Unit	Hours	Content
I	25	<p>Management of problems of women during pregnancy</p> <ul style="list-style-type: none"> ➤ Risk approach of obstetrical nursing care, concept & goals. ➤ Screening of high-risk pregnancy, newer modalities of diagnosis. ➤ Nursing Management of Pregnancies at risk-due to obstetrical complication <ul style="list-style-type: none"> • Pernicious Vomiting. • Bleeding in early pregnancy, abortion, ectopic pregnancy and gestational trophoblastic diseases. • Hemorrhage during late pregnancy- Ante partum hemorrhage, Placenta praevia, abruption placenta. • Hypertensive disorders in pregnancy- Pre-eclampsia, eclampsia, Haemolysis Elevated liver enzyme, Low Platelet count (HELLP) • Iso-immune diseases. Rh and ABO incompatibility • Haematological problems in pregnancy. • Hydramnios-oligohydramnios • Prolonged pregnancy- post term, post maturity. • Multiple pregnancies. • Intra uterine infection & pain during pregnancy. • Intra Uterine Growth Retardation (IUGR), Premature Rupture of Membrane (PROM), intrauterine death (IUD)
II	20	Pregnancies at risk-due to pre-existing health problems

CONTENTS OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Metabolic conditions. ➤ Anemia and nutritional deficiencies ➤ Hepatitis ➤ Cardio-vascular disease. ➤ Thyroid diseases. ➤ Epilepsy. ➤ Essential hypertension ➤ Chronic renal failure. ➤ Tropical diseases. ➤ Psychiatric disorders ➤ Infections- Toxoplasmosis Rubella Cytomegalo virus Herpes (TORCH); Reproductive Tract Infection (RTI); STD; HIV/AIDS, Vaginal infections; Leprosy, Tuberculosis ➤ Other risk factors: Age, Adolescents, elderly; unwed mothers, sexual abuse, substance use ➤ Pregnancies complicating with tumors, uterine anomalies, prolapse, ovarian cyst
III	20	<p>Abnormal labour, pre-term labour & obstetrical emergencies</p> <ul style="list-style-type: none"> ➤ Etiology, pathophysiology and nursing management of <ul style="list-style-type: none"> • Uncoordinated uterine actions, Atony of uterus, precipitate labour, prolonged labour. • Abnormal lie, presentation, position, compound presentation. • Contracted pelvis-CPD; dystocia. • Obstetrical emergencies: Obstetrical shock, vasa praevia, inversion of uterus, amniotic fluid embolism, rupture uterus, presentation and prolapse cord. • Augmentation of labour. Medical and surgical induction. • Version • Manual removal of placenta. • Obstetrical operation: Forceps delivery, Ventouse, Cesarean section • Genital tract injuries-Third degree perineal tear, VVF, RVF ➤ Complications of third stage of labour: <ul style="list-style-type: none"> • Post partum Hemorrhage. • Retained placenta.

CONTENTS OUTLINE		
Unit	Hours	Content
IV	10	<p>Post partum complications</p> <ul style="list-style-type: none"> ➤ Nursing management of <ul style="list-style-type: none"> • Puerperal infections, puerperal sepsis, urinary complications • Puerperal venous thrombosis and pulmonary embolism • Sub involution of uterus • Breast conditions, • Thrombophlebitis • Psychological complications, post partum blues, depression, psychosis
V	25	<p>High Risk Newborn</p> <ul style="list-style-type: none"> ➤ Concept, goals, assessment, principles. ➤ Nursing management of <ul style="list-style-type: none"> • Pre-term, small for gestational age, post-mature infant, and baby of diabetic and substance abuse mothers. • Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum • Icterus neonatorum. • Birth injuries. • Hypoxic ischaemic encephalopathy • Congenital anomalies. • Neonatal seizures. • Neonatal hypocalcaemia, hypoglycaemia, hypomagnesaemia. • Neonatal heart diseases. • Neonatal haemolytic diseases • Neonatal infections, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS • Advanced neonatal procedures. • Calculation of fluid requirements. • Haematological conditions erythroblastosis fetalis, haemorrhagic disorder in the newborn
VI	15	<p>HIV/AIDS</p> <ul style="list-style-type: none"> ➤ HIV positive mother and her baby ➤ Epidemiology ➤ Screening ➤ Parent to child transmission (PTCT)

CONTENTS OUTLINE		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Prophylaxis for mother and baby ➤ Standard safety measures ➤ Counseling ➤ Breast feeding issues ➤ National policies and guidelines ➤ Issues: Legal, ethical, Psychosocial and rehabilitation <p>Role of nurse</p>
VII	25	<p>Gynecological problems and nursing management</p> <ul style="list-style-type: none"> ➤ Gynecological assessment ➤ Gynecological procedures ➤ Etiology, pathophysiology, diagnosis and nursing management of <ul style="list-style-type: none"> • Menstrual irregularities • Diseases of genital tract • Genital tract infections • Uterine displacement • Genital prolapse • Genital injuries • Uterine malformation • Uterine fibroid, ovarian tumors, Breast carcinoma, Pelvic inflammatory diseases, reproductive tract malignancies, hysterectomy –vaginal and abdominal. • Sexual abuse, rape, trauma, assault
VIII	5	<p>Administration and management of obstetrical and gynaecological unit</p> <ul style="list-style-type: none"> ➤ Design & layout ➤ Staffing, ➤ Equipment, supplies, ➤ Infection control; Standard safety measures ➤ Quality Assurance: -Obstetric auditing –records /reports, Norms, policies and protocols ➤ Practice standards for obstetrical and gynaecological unit
IX	5	<p>Education and training in obstetrical and gynaecological care</p> <ul style="list-style-type: none"> ➤ Staff orientation, training and development, ➤ In-service education program, ➤ Clinical teaching programs.

PRACTICAL

Total = 950 Hours

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

Essential Obstetrical and Gynaecological Skills**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, postpartum).
- 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 new-born, 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 Assessment, calculation and administration of fluids and medications:
 - Oral
 - I.D.
 - I.M.
 - I.V.- Securing IV-line, infusion pump
- Administration of drug per rectum
- Capillary blood sample collection.
- Oxygen therapy.
- Phototherapy.
- Chest physiotherapy.
- counseling – Parental, bereavement, 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 NURSING

Placement: Second 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 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

Unit no	Hours	CONTENT
I	5	<p>Introduction</p> <ul style="list-style-type: none"> ➤ Current principles, practices and trends in Pediatric Nursing <p>Role of pediatric nurse in various settings -Expanded and Extended</p>
II	55	<ul style="list-style-type: none"> ➤ Pathophysiology, assessment (including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing intervention in selected pediatric disorders: Respiratory, GI, Genito urinary tract, Skin, Common Communicable Diseases, Connective tissue disorder <ul style="list-style-type: none"> - Child with respiratory disorders: - Upper respiratory tract: choanal atresia, tonsillitis, epistaxis, aspiration. - Lower respiratory tract: Bronchiolitis, Bronchopneumonia, Asthma, cystic fibrosis - Child with gastro-intestinal disorders: - Diarrheal diseases, gastro-esophageal reflux. - Hepatic disorders: Hepatitis, Indian childhood cirrhosis, Hepatic encephalopathy, liver transplantation. - Pancreatitis - Malabsorption syndrome, Malnutrition <p>Surgical condition of Gastrointestinal system: Cleft lip, cleft palate and conditions requiring plastic surgery</p> <ul style="list-style-type: none"> - Tracheoesophageal fistula/atresia, Hirschsprungs' disease/ megacolon, malrotation, intestinal obstruction, duodenal atresia, gastrochisis, exomphalus, anorectal malformation, omphalocele, diaphragmatic hernia - Child with renal/ urinary tract disorders: Nephrotic syndrome, Nephritis, Hydronephrosis, haemolytic-uremic syndrome, renal tubular acidosis, renal failure, kidney transplantation - Anomalies of the genito-urinary system: Hypospadias, Epispadias, Undescended testes, Exstrophy bladder, Obstructive uropathy, Hydro nephropathy - Child with skin disorders: Impetigo, Scabies, Dermatitis - Common Communicable diseases: Chikungunya's, Zika virus, swine flu, SARS, MERS, Ebola, COVID <p>Child with connective tissue disorder- Juvenile Idiopathic Arthritis, SLE, HSP (Heincho's Scholineparpura</p>

III	55	<p>Assessment (including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing interventions in selected pediatric problems/ Disorders: CVS, Neuro, Endocrine, Hemato, oncological disorder, Eye, ENT</p> <p>-Child with cardio-vascular disorders:</p> <ul style="list-style-type: none"> - Acquired: Rheumatic fever, Rheumatic heart disease, Kawasaki disease, Preventive cardiology in young - Congenital: Cyanotic and acyanotic - Myelomeningocele, hydrocephalus, brain tumor <ul style="list-style-type: none"> - Child with oncological disorders: Leukemias, Lymphomas, Wilms' tumor, neuroblastomas, Rhabdomyosarcoma, retinoblastoma, hepatoblastoma, bone tumors - Child with blood disorders: Anaemias, thalassemia, haemophilia, polycythaemia, thrombocytopenia, and disseminated intravascular coagulation, Sickle cell disease, Stem cell transplantation - Common Eye and ENT disorder: Congenital otitis media malformation - Anomalies of the skeletal system: Talipes, CDH, fracture, Osteogenesis imperfecta, Osteomyelitis - Nursing management of the child with traumatic injuries: General principles of managing Pediatric trauma - Head injury, abdominal injury, poisoning, foreign body - obstruction, burns& Bites, Stings - Child with oncological disorders: Solid tumours of childhood, Nephroblastoma, Neuroblastoma, Hodgkin's/Non-Hodgkin's Child with endocrine/metabolic disorders: Diabetes insipidus, Diabetes Mellitus – IDDM, NIDDM, hyper and hypothyroidism, phenylketonuria, galactosemia, Congenital Adrenal hyperplasia - Child with Neurological disorders: Convulsions, Meningitis, encephalitis, guillian- Barre syndrome, Reyes syndrome <ul style="list-style-type: none"> - Anomalies of the nervous system: Spina bifida, Meningocele, - Lymphoma, Hepatoblastoma, Rhabdomyosarcoma - Management of stomas, catheters and tubes (Indication, types, nursing care) - Management of wounds and drainages
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IV	10	<p>Intensive care for paediatric clients</p> <ul style="list-style-type: none"> ➤ Resuscitation, stabilization & monitoring of pediatric patients ➤ Anatomical & physiological basis of critical illness in infancy and childhood ➤ Care of child requiring long-term ventilation ➤ Nutritional needs of critically ill child ➤ Legal and ethical issues in pediatric intensive care ➤ Intensive care procedures, equipment and techniques <p>Documentation</p> <p>ICU flow chart</p>
V	5	<p>Crisis and nursing intervention</p> <ul style="list-style-type: none"> ➤ The hospitalized child, ➤ Terminal illness & death during childhood <p>Nursing intervention-counseling</p>
VI	5	<p>Drugs used in Pediatrics</p> <ul style="list-style-type: none"> ➤ Criteria for dose calculation ➤ Administration of drugs, oxygen and blood ➤ Drug interactions <p>Adverse effects and their management</p>
VII	10	<p>Administration and management of pediatric care unit</p> <ul style="list-style-type: none"> ➤ Design & layout ➤ Staffing, ➤ Equipment, supplies, ➤ Norms, policies and protocols ➤ Practice standards for pediatric care unit <p>Documentation</p>
VIII	5	<p>Education and training in Pediatric care</p> <ul style="list-style-type: none"> ➤ Staff orientation, training and development, ➤ In-service education program, <p>Clinical teaching programs</p>

PRACTICAL

Total = 950 Hours

Field visits:

S. No.	Dept./ Unit	No. of Week
1	Pediatric medicine ICU	4
2	Pediatric surgical ICU	4
3	NICU	4
4	Pediatric OT	2
5	Pediatric medicine ward	6
6	Pediatric surgery ward	6
7	Emergency/Casualty	4
8	Field visits*	2
Total		32

CLINICAL SPECIALITY - II PSYCHIATRIC NURSING

Placement: Second 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 in- depth 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	<p>Principles and practice of Psychiatric Nursing</p> <ul style="list-style-type: none"> ➤ Review ➤ Preventive psychiatry and role of psychiatric and Psychiatric nurse ➤ Emergency psychiatry, related services
II	10	<p>Crisis Intervention</p> <ul style="list-style-type: none"> ➤ Crisis, Definition ➤ Phases in The Development of a Crisis ➤ Types of Crisis; Dispositional, Anticipated Life Transitions Traumatic Stress, Maturational/Development, Reflecting Psychopathology ➤ Psychiatric Emergencies and their management ➤ Grief and grief reaction ➤ Crisis Intervention; Phases ➤ Post-traumatic stress disorder (PTSD) ➤ Role of the Nurse
III	4	<p>Anger/ Aggression Management</p> <ul style="list-style-type: none"> ➤ Anger and Aggression, Types, Predisposing Factors ➤ Management ➤ Role of The Nurse
IV	5	<p>The Suicidal Client</p> <ul style="list-style-type: none"> ➤ Epidemiological Factors ➤ Risk Factors <ul style="list-style-type: none"> • Predisposing Factors: Theories of Suicide-Psychological, Sociological, Biological ➤ Nursing Management
V	5	<p>Disorders of Infancy, Childhood, and Adolescence</p> <ul style="list-style-type: none"> ➤ Mentally Challenged ➤ Autistic Disorders ➤ Attention-Deficit/Hyperactivity Disorder ➤ Conduct Disorders, behavioural disorders ➤ Oppositional Defiant Disorder ➤ Tourette's Disorders ➤ Separation Anxiety Disorder

COURSE CONTENT		
Unit	Hours	Content
		➤ Psychopharmacological Intervention and Nursing Management
VI	5	Delirium, Dementia, and Amnestic Disorders <ul style="list-style-type: none"> ➤ Delirium ➤ Dementia ➤ Amnesia ➤ Psychopharmacological Intervention and Nursing Management
VII	10	Substance-Related Disorders <ul style="list-style-type: none"> ➤ Substance-Use Disorders ➤ Substance-Induced Disorders ➤ Classes of Psychoactive Substances ➤ Predisposing Factors ➤ The Dynamics of Substance-Related Disorders ➤ The Impaired Nurse ➤ Code pendency ➤ Treatment Modalities for Substance-Related Disorders and Nursing Management
VIII	10	Schizophrenia and Other Psychotic Disorders (Check ICD10) <ul style="list-style-type: none"> ➤ Nature of the Disorder ➤ Predisposing Factors ➤ Schizophrenia -Types <ul style="list-style-type: none"> • Disorganized Schizophrenia • Catatonic Schizophrenia • Paranoid Schizophrenia • Undifferentiated Schizophrenia • Residual Schizophrenia ➤ Other Psychotic disorders <ul style="list-style-type: none"> • Schizotypal disorder • Schizoaffective Disorder • Acute transient psychotic disorder • Delusional disorder • Psychotic Disorder Due to a General Medical Condition

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> • Substance-Induced Psychotic Disorder ➤ Treatment and Nursing Management
IX	8	Mood Disorders <ul style="list-style-type: none"> ➤ Historical Perspective ➤ Epidemiology ➤ The Grief Response ➤ Maladaptive Responses to Loss ➤ Types of Mood Disorders ➤ Depressive disorders ➤ Bipolar disorders ➤ Treatment and Nursing Management
X	8	Anxiety Disorders <ul style="list-style-type: none"> ➤ Historical Aspects ➤ Epidemiological Statistics ➤ How Much is too Much? ➤ Types <ul style="list-style-type: none"> • Panic Disorder • Generalized Anxiety Disorder • Phobias • Obsessive-Compulsive Disorder • Posttraumatic Stress Disorder • Anxiety Disorder Due to a General Medical Condition • Substance-Induced Anxiety Disorder ➤ Treatment Modalities ➤ Psychopharmacology & Nursing Management
XI	5	Somatoform and Sleep Disorders <ul style="list-style-type: none"> ➤ Somatoform Disorders ➤ Historical Aspects <ul style="list-style-type: none"> • Epidemiological Statistics • Pain Disorder • Hypochondriasis • Conversion Disorder • Body Dysmorphic Disorder ➤ Sleep Disorder ➤ Treatment Modalities and Nursing Management
XII	4	Dissociative Disorders and Management <ul style="list-style-type: none"> ➤ Historical Aspects ➤ Epidemiological Statistics

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Application of the Nursing Management ➤ Treatment Modalities and Nursing Management
XIII	4	Sexual and Gender Identity Disorders <ul style="list-style-type: none"> ➤ Development of Human Sexuality ➤ Sexual Disorders ➤ Variation in Sexual Orientation ➤ Nursing Management
XIV	4	Eating Disorders <ul style="list-style-type: none"> ➤ Epidemiological Factors ➤ Predisposing Factors: Anorexia Nervosa and Bulimia Nervosa, Obesity ➤ Psychopharmacology ➤ Treatment & Nursing Management
XV	4	Adjustment and Impulse Control Disorders <ul style="list-style-type: none"> ➤ Historical and Epidemiological Factors <ul style="list-style-type: none"> • Adjustment Disorders • Impulse Control Disorders ➤ Treatment & Nursing Management
XVI	4	Medical Conditions due to Psychological Factors <ul style="list-style-type: none"> ➤ Asthma ➤ Cancer ➤ Coronary Heart Disease ➤ Peptic Ulcer ➤ Essential Hypertension ➤ Migraine Headache ➤ Rheumatoid Arthritis ➤ Ulcerative Colitis ➤ Treatment & Nursing Management
XVII	8	Personality Disorders <ul style="list-style-type: none"> ➤ Historical perspectives ➤ Types of Personality Disorders <ul style="list-style-type: none"> • Paranoid Personality Disorder • Schizoid Personality Disorder • Antisocial Personality Disorder • Borderline Personality Disorder • Histrionic Personality Disorder • Narcissistic Personality Disorder • Avoidance Personality Disorder • Dependent Personality Disorder • Obsessive-Compulsive Personality Disorder • Passive-Aggressive Personality Disorders ➤ Identification, diagnostic, symptoms

COURSE CONTENT		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Psychopharmacology ➤ Treatment & Nursing Management
XVIII	8	<p>The Aging Individual</p> <ul style="list-style-type: none"> ➤ Epidemiological Statistics ➤ Biological Theories ➤ Biological Aspects of Aging ➤ Psychological Aspects of Aging ➤ Memory Functioning ➤ Socio-cultural aspects of aging ➤ Sexual aspects of aging ➤ Special Concerns of the Elderly Population ➤ Psychiatric problems among elderly population ➤ Treatment & Nursing Management
XIX	5	<p>The person living with HIV Disease</p> <ul style="list-style-type: none"> ➤ Psychological problems of individual HIV/AIDS ➤ Counseling ➤ Treatment & Nursing Management
XX	5	<p>Problems Related to Abuse or Neglect</p> <ul style="list-style-type: none"> ➤ Vulnerable groups, Women, Children, elderly, psychiatric patients, under privileged, challenged ➤ Predisposing Factors ➤ Treatment & Nursing management- Counseling
XXI	7	<p>Community Psychiatric Nursing</p> <ul style="list-style-type: none"> ➤ National Mental Health Program- Community mental health program ➤ The Changing Focus of care ➤ The Public Health Model ➤ The Role of the Nurse ➤ Case Management ➤ The community as Client <ul style="list-style-type: none"> • Primary Prevention • Populations at Risk • Secondary prevention • Tertiary Prevention

COURSE CONTENT		
Unit	Hours	Content
		➤ Community based rehabilitation
XXII	5	Ethical and Legal Issues in Psychiatric/Mental Health Nursing <ul style="list-style-type: none"> ➤ Ethical Considerations ➤ Legal Consideration <ul style="list-style-type: none"> • Nurse Practice Acts • Types of Law • Classification within Statutory and Common Law • Legal Issues in Psychiatric/Psychiatric Nursing • Nursing Liability
XXIII	5	Psychosocial rehabilitation <ul style="list-style-type: none"> ➤ Principles of rehabilitation ➤ Disability assessment ➤ Day care centres ➤ Half way homes ➤ Reintegration into the community ➤ Training and support to care givers ➤ Sheltered workshops ➤ Correctional homes
XXIV	5	Counseling <ul style="list-style-type: none"> ➤ Liaison psychiatric nursing ➤ Terminal Illnesses-Counseling ➤ Postpartum psychosis-treatment, care and counseling ➤ Death dying- Counseling ➤ Treatment, care and counseling – <ul style="list-style-type: none"> • Unwed mothers • HIV and AIDS
XXV	5	Administration and management of psychiatric units including emergency units <ul style="list-style-type: none"> ➤ Design & layout ➤ Staffing, ➤ Equipment, supplies, ➤ Norms, policies and protocols ➤ Quality assurance ➤ Practice standards for psychiatric nursing ➤ Documentation
XXVI	5	Education and training in psychiatric care <ul style="list-style-type: none"> ➤ Staff orientation, training and development, ➤ In-service education program,

COURSE CONTENT		
Unit	Hours	Content
		➤ Clinical teaching programs.

PRACTICALS

Total = 950 Hours

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

Essential Psychiatric Nursing Skills

Procedures Observed

1. Psychometric tests
2. Personality tests
3. Family therapy
4. Behavioural therapy.
5. Occupational therapy

Assisted Procedures

1. CT
2. MRI

Procedures Performed

1. Mental status examination

2. Participating in various therapies –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 Psychiatric 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
17. Psychodrama
18. Motivational Interviewing

CLINICAL SPECIALITY – II COMMUNITY HEALTH NURSING

Placement: Second Year

Hours of Instruction

Theory- 150 hours

Practical- 950 hours

Total- 1100 hrs

Course Description

This course is designed to assist students in developing expertise and in depth understanding in the field of community health nursing. It will help students to develop advanced skill for nursing intervention in various aspects of community health care setting. 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 Nursing-reproductive and child health, school health, Occupational health, international health, rehabilitation, geriatric and Psychiatric.
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 Paediatric 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
I	20	<p>Epidemiology</p> <ul style="list-style-type: none"> ➤ Introduction <ul style="list-style-type: none"> • Concept, scope, definition, trends, History and development of modern Epidemiology • Contribution of epidemiology • Implications ➤ Epidemiological methods ➤ Measurement of health and disease: ➤ Epidemiological approaches ➤ Study of disease causatives ➤ Epidemiology of <ul style="list-style-type: none"> • Communicable diseases • Non-communicable diseases ➤ Emerging and re-emerging diseases Epidemics ➤ Epidemiology study and reports ➤ Role of Community health nurse
II	40	<p>National Health and Family Welfare Programmes</p> <ul style="list-style-type: none"> ➤ Objectives, Organisation/manpower/resources, ➤ Activities, Goals, inter-sectoral approach, ➤ implementation, purpose, role and responsibilities of community health nurse: <ul style="list-style-type: none"> • National ARI programme • National Vector Borne Disease Control Programme (NVBDCP) • National Filaria Control Programme • National Leprosy Eradication Programme • Revised national TB Control Programme • National Programme for Control of Blindness • National mental health programme • National AIDS Control Programme • RCH I and II, RMNCH+A • National programme for prevention and control of cancer, Diabetes, Cardiovascular diseases and stroke. • NHM: NUHM, NRHM

Content Outlines		
Unit	Hours	Content
		<ul style="list-style-type: none"> • National Programme for health care of elderly. • Integrated Disease Surveillance Programme • National Guinea worm eradication programme • Expanded programme on immunization • National water supply and sanitation programme • Minimum need programme • Yaws Eradication Programme • Minimum needs programme • 20-point programme • National nutritional programme, ICDS program, National Iodine Deficiency Disorders Control Programme • Millennium development goals • Community development programme
III	15	<p>School Health</p> <ul style="list-style-type: none"> ➤ Introduction: definition, concepts, objectives ➤ Health assessment, Screening, identification, referral and follow up, ➤ Safe environment ➤ Services, programmes and plans- first aid, treatment of minor ailments ➤ Inter-sectoral coordination ➤ Adolescent health ➤ Disaster, disaster preparedness, and management ➤ Guidance and counseling ➤ School health records - maintenance and its importance ➤ Roles and responsibilities of community health nurse
IV	15	<p>International health</p> <ul style="list-style-type: none"> ➤ Global burden of disease ➤ Global health rules to halt disease spread ➤ Global health priorities and programmes ➤ International quarantine ➤ Health tourism ➤ International cooperation and assistance

Content Outlines		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ International travel and trade ➤ Health and food legislation, laws, adulteration of food ➤ Disaster management ➤ Migration ➤ International health agencies –World Health organizations, World health assembly, UNICEF, UNFPA, SIDA, US AID, DANIDA, DFID. AusAIDetc. ➤ International health issues and problems ➤ International nursing practice standards ➤ International health vis-a vis national health ➤ International health days and their significance
V	15	<p>Education and administration</p> <ul style="list-style-type: none"> ➤ Quality assurance ➤ Standards, Protocols, Policies, Procedures ➤ Infection control; Standard safety measures ➤ Supervision and Monitoring ➤ Nursing Audit ➤ Performance appraisal ➤ Budgeting ➤ Material management ➤ Role and responsibilities of different categories of personnel in community health ➤ Referral chain- community outreach services ➤ Transportation ➤ Public relations ➤ Planning in-service educational programme and Teaching ➤ Training of various categories of health workers-preparation of manuals
VI	10	<p>Geriatric</p> <ul style="list-style-type: none"> ➤ Concept, trends, problems and issues ➤ Aging process, and changes ➤ Theories of ageing ➤ Health problems and needs ➤ Psycho-physiological stressors and disorders ➤ Myths and facts of aging ➤ Health assessment

Content Outlines		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Home for aged-various agencies ➤ Rehabilitation of elderly ➤ Care of elderly ➤ Elderly abuse ➤ Training and supervision of care givers ➤ Government welfare measures Programmes for elderly-Role of NGOs ➤ Roles and responsibilities of Geriatric nurse in the community
VII	10	<p>Rehabilitation</p> <ul style="list-style-type: none"> ➤ Introduction: Concepts, principles, trends, issues, ➤ Rehabilitation team ➤ Models, Methods ➤ Community based rehabilitation ➤ Ethical issues ➤ Rehabilitation Council of India ➤ Disability and rehabilitation- Use of various prosthetic devices ➤ Psychosocial rehabilitation ➤ Rehabilitation of chronic diseases ➤ Restorative rehabilitation ➤ Vocational rehabilitation ➤ Role of voluntary organizations ➤ Guidance and counseling ➤ Welfare measures ➤ Role and responsibilities of community health nurse
VIII	10	<p>Community Psychiatric</p> <ul style="list-style-type: none"> ➤ Magnitude, trends and issues ➤ National Psychiatric Program- Community mental health program ➤ The Changing Focus of care ➤ The Public Health Model ➤ Case Management- Collaborative care ➤ Crisis intervention ➤ Welfare agencies ➤ Population at Risk ➤ The community as Client ➤ Primary Prevention

Content Outlines		
Unit	Hours	Content
		<ul style="list-style-type: none"> ➤ Secondary prevention ➤ Tertiary Prevention ➤ Community based rehabilitation ➤ Human rights of mentally ill ➤ Substance use ➤ Mentally challenged groups ➤ Role of community health nurse
IX	15	<p>Occupational health</p> <ul style="list-style-type: none"> ➤ Introduction: Trends, issues, Definition, Aims, Objectives, Workplace safety ➤ Ergonomics and Ergonomic solutions ➤ Occupational environment- Physical, social, Decision making, Critical thinking ➤ Occupational hazards for different categories of people-physical, chemical, biological, mechanical, Accidents, ➤ Occupational diseases and disorders ➤ Measures for Health promotion of workers; Prevention and control of occupational diseases, disability limitations and rehabilitation ➤ Women and occupational health ➤ Occupational education and counseling ➤ Violence at workplace ➤ Child labour ➤ Disaster preparedness and management ➤ Legal issues: Legislation, Labour unions, ILO and WHO recommendations, Factories act, ESI act ➤ Role of Community health nurse, Occupational health Team

PRACTICALS

Total = 950 Hours

S. No.	Dept./Unit	No. of Week
1	Urban and Rural community	17
2	School Health	3
3	International health	2
4	Administration (SC/PHC/CHC)	2
5	Occupational health	2
6	Community Psychiatric	2
7	Home for aged and Hospice	2
8	Rehabilitation	2
Total		32 Weeks

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 centres
- Palliative care
- Home of old age
- Psychiatric 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.
- Counseling
- 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