

## **Syllabus**

**for Courses affiliated to the**

**Kerala University of Health Sciences**

**Thrissur 680596**



**MASTER OF SCIENCE IN NURSING**

**Medical Surgical Nursing**

**Course Code 271**

**(2016-17 admission onwards)**

2016

## 2. COURSE CONTENT

### 2.1 Title of course:

MASTER OF SCIENCE IN NURSING – MSc Medical Surgical Nursing

Sub specialties :-

- a. *Cardio Vascular & Thoracic Nursing*
- b. *Critical care Nursing, Oncology Nursing*
- c. *Neurosciences Nursing*
- d. *Nephro-Urology Nursing*
- e. *Orthopedic Nursing*
- f. *GastroEnterology Nursing.*

### 2.2 AIM & OBJECTIVES OF THE COURSE

#### AIM

Aim of the postgraduate programme in nursing is to prepare graduates to assume responsibilities as Clinical Nurse Specialists, Nurse Practitioners, Consultants, Educators, Researchers and Administrators in a wide variety of professional settings.

#### OBJECTIVES

On completion of the 2 year M.Sc Nursing programme, the graduates will be able to:-

1. Apply the concepts, theories and principles of nursing science.
2. Demonstrate competencies in nursing practice.
3. Practice as Clinical Nurse Specialist.
4. Establish collaborative relationship with the members of other disciplines.
5. Assume leadership in various care settings.
6. Participate in health planning, implementation and evaluation at different levels of health care system.
7. Function as effective nurse educators and nurse managers.
8. Conduct independent nursing research and utilize the research findings in nursing practice and education.

9. Critically evaluate various educational programmes in nursing.
10. Demonstrate interest and positive attitude in continuing education for personal and professional growth.
11. Demonstrate advanced skills and competence in the nursing management of patients with various medical and surgical conditions.
12. Incorporate evidence based nursing practice and identify the areas of research in the field of medical and surgical nursing.
13. Describe recent advancements in the field of medical and surgical nursing.
14. Explain the legal and ethical issues in caring patients with various medical and surgical conditions.
15. Function as medical surgical nurse specialists and practitioners.

### 2.3 Medium of instruction:

Medium of instruction shall be in English

### 2.4 Course outline

<b>1 year</b>	<b>Theory (hrs)</b>	<b>Practical (hrs)</b>
Nursing Education	150	150
Advanced Nursing Practice	150	500
Nursing Research and Statistics	150	100
Medical Surgical Nursing-I	150	900
<b>Total</b>	<b>600</b>	<b>1650</b>
<b>II Year</b>	<b>Theory (hrs)</b>	<b>Practical (hrs)</b>
Nursing Management	150	200
Nursing Research (Dissertation)	-	300
*Medical Surgical Nursing -II	150	1450
<b>Total</b>	<b>300</b>	<b>1950</b>
<b>Grand Total</b>	<b>900</b>	<b>3600</b>

### \*Sub Specialty:-

a. Cardio Vascular & Thoracic Nursing



- b. *Critical care Nursing*
- c. *Oncology Nursing*
- d. *Neurosciences Nursing*
- e. *Nephro-Urology Nursing*
- f. *Orthopedic Nursing*
- g. *Gastro Enterology Nursing*

**2.5 Duration**

**Duration of the course is for 2 years.**

Weeks/year	: 52 weeks
Leave	: 3 weeks (20 days)
Preparation and Exam	: 2 weeks
Total weeks available	: 47 weeks
Total hours/week	: 48 hours
48 hoursX47weeks	: 2256 hour/year

**2.6 Syllabus**

As given under "Content of each subject in each year"

The concept of Health Care Counselling shall be incorporated in all relevant areas

**2.7 Total number of hours**

As given under "Content of each subject in each year "

**2.8 Branches if any with definition**

Not Applicable

**2.9 Teaching learning methods**

As given under "Content of each subject in each year "

**2.10 Content of each subject in each year**

## FIRST YEAR M.Sc NURSING

### NURSING EDUCATION

Placement: 1st Year

#### Hours of Instruction

Theory 150 Hours  
Nursing Faculty-115  
External Faculty- 35  
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 :

1. Explain the aims of education, philosophies, trends in education and its impact on nursing education.
2. Describe the teaching learning process.
3. Prepare and utilize various instructional media and methods in teaching learning process.
4. Demonstrate competency in teaching, using various instructional strategies.
5. Critically analyze the existing nursing educational programs, their problems, issues and future trends.
6. Describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration.
7. Plan and conduct continuing nursing education programs.
8. Critically analyze the existing teacher preparation programs in nursing
9. Demonstrate skill in guidance and counselling.
10. Describe the problems and issues related to the implementation of nursing curriculum including selection and organization of clinical experience.
11. Explain the development of standards and accreditation process in nursing education programs.
12. Identify research priorities in nursing education.
13. Discuss various models of collaboration in nursing education and services.

14. Explain the concept, principles, steps, tools and techniques of Evaluation.
15. Construct, administer and evaluate various tools for assessment of knowledge, skill, and attitude.

### Course Content

Unit	Theory Hours	Content
I	10	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>□ Education :Definition, aims, concepts, philosophies, Formulation of philosophy &amp; their implications on education (Review)</li> <li>□ Impact of Social, economical, political &amp; technological changes on education.</li> <li>□ Professional education</li> <li>□ Current trends and issues in education</li> <li>□ Educational reforms and National Educational Policy, various educational commissions-reports</li> </ul> <p><b>Nursing education-</b> Definition, aims, philosophy Trends in development of nursing education in India -ANM, GNM, Basic B.Sc. Nursing, Post Basic B.Sc. Nursing, M.Sc(N) programs, M.Phil and Ph.D in Nursing, Post basic diploma programs, Nurse practitioner programs.</p>
II	20	<p><b>Curriculum Development</b> Definition, curriculum determinants, process and steps of curriculum development, Types and framework.</p> <ul style="list-style-type: none"> <li>□ Educational Objectives - types, domains, levels, elements and writing of educational objectives,</li> <li>□ selection of learning experiences</li> <li>□ Organization of learning experiences; master plan, course plan, unit plan, Lesson Plan.</li> <li>□ Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders.</li> <li>□ Evaluation of educational programs in nursing- course and program.</li> <li>□ Equivalency of courses : Transcript , credit system.</li> </ul>

III	20 *EF 10	<p><b>Teaching – Learning Process</b></p> <ul style="list-style-type: none"> <li>• Concepts of teaching and learning: Definition, principles ,theories of teaching and learning, relationship between teaching and learning</li> <li>• Competency based education, outcome based education(OBE) Instructional strategies – Lecture, Discussion, Demonstration, Simulation, Laboratory Method, Seminar, Panel, Symposium, Problem solving, Workshop, Project, role- play (sociodrama) (Review) Microteaching.</li> </ul> <p style="padding-left: 40px;">Innovative Strategies</p> <p style="padding-left: 40px;">Problem Based Learning (PBL), programmed instruction, Self Directed learning(SDL), Computer Assisted Instruction(CAI), Computer Assisted Learning (CAL), Clinical teaching methods. brain storming, integrated teaching, team teaching</p> <ul style="list-style-type: none"> <li>• Class room management and transactional analysis</li> <li>• Teacher - Roles &amp; responsibilities, functions characteristics,</li> <li>• competencies, qualities.</li> </ul> <p style="padding-left: 40px;">Preparation of professional teacher</p> <ul style="list-style-type: none"> <li>• Organizing professional aspects of teacher preparation programs.</li> <li>• Critical analysis of various programs of teacher education in India</li> </ul>

<p><b>IV</b></p>	<p><b>40</b></p> <p><b>EF20</b></p>	<p><b>Evaluation:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement, Principles of evaluation(review) characteristics-objectivity, validity, reliability, usability</li> </ul> <p>Formative and summative evaluation.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Internal assessment, external examination. criterion and norm referenced evaluation,</li> <li><input type="checkbox"/> Evaluation strategies-meaning, characteristics.</li> <li><input type="checkbox"/> Construction of test, administration of test , scoring, grading Vs marks.</li> <li><input type="checkbox"/> Item analysis</li> </ul> <p><b>Non-standardized tests :</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Essay, short answer questions and multiple choice questions, True &amp; False, Completion. Tools of Evaluation-Rating scales, checklist, Objective Structured Clinical Examination (OSCE) , Objective Structured Practical Examination (OSPE), Viva Examination</li> <li><input type="checkbox"/> Differential scales, and Summated scales, Sociometry, Anecdotal Record, Attitude scale, critical incident technique.</li> <li><input type="checkbox"/> Question bank-preparation, validation, moderation by panel.</li> </ul> <p><b>Standardized Tools</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Tests of intelligence attitude, aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities.</li> <li><input type="checkbox"/> Teacher Evaluation-Strategies</li> </ul>
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<b>V</b>	15	<p><b>Instructional Media &amp; Methods</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Key concepts in the selection and use of media in education</li> <li><input type="checkbox"/> Developing learning resource material using different Media.</li> <li><input type="checkbox"/> Instructional aids – types, uses, selection, preparation, utilization.</li> <li><input type="checkbox"/> Teacher’s role in procuring and managing</li> <li><input type="checkbox"/> instructional Aids – Projected and non-projected aids, multi media, video-tele conferencing etc</li> </ul>
<b>VI</b>	<b>10</b>	<p><b>Continuing Education in Nursing</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concepts – Definition, importance, need, scope, principles of adult learning, assessments of learning needs, priorities, resources.</li> <li><input type="checkbox"/> Program planning, implementation and evaluation of continuing education programs.</li> <li><input type="checkbox"/> Research in continuing education.</li> <li><input type="checkbox"/> Distance education in nursing</li> </ul>
<b>VII</b>	<b>5</b> <b>EF5</b>	<p><b>Guidance and counseling</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concept, principles, need, difference between guidance and counseling (Review).</li> <li><input type="checkbox"/> Trends and issues in Guidance and counseling.</li> <li><input type="checkbox"/> Guidance and counseling services: diagnostic and remedial.</li> <li><input type="checkbox"/> Coordination and organization of services.</li> <li><input type="checkbox"/> Techniques of counseling : Interview, case work, Characteristics of counselor, problems in counseling.</li> </ul> <p>Professional preparation and training for counselling</p>

VIII	25	<p><b>Management of nursing educational institutions</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel.</li> <li><input type="checkbox"/> Role of curriculum coordinator – planning , implementation &amp; Evaluation</li> <li><input type="checkbox"/> Evaluation of educational programs in nursing- course &amp; Program</li> <li><input type="checkbox"/> Factors influencing faculty staff relationship and techniques of working together</li> <li><input type="checkbox"/> Concept of faculty supervisor (dual) position.</li> <li><input type="checkbox"/> Curriculum research in nursing.</li> </ul> <p>Different models of collaboration between education and service</p>
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IX	5	<p><b>Quality in Nursing Education</b></p> <p>Development and maintenance of standards and accreditation in nursing education programs. Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University.</p>
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## \* External Faculty (EF)

### Activities

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Micro teaching-2.
- Conduct practice teachings using different teaching strategies -10  
(Like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical methods etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Conduct a continuing education workshop.
- Annotated bibliography.
- Critical evaluation of any nursing education program offered by a selected institution.
- Planning and Organizing field visits.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc )
- Observe and practice application of various non-standardized tests, (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilities tests.)

### Methods of Teaching

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

- Workshop

**Methods of evaluation**

- Tests
  - Presentation
  - Project work

**Assignments –Theory**

Lesson plan-2,courseplan -1,unit plan 2,rotation plan-2(master plan,clinical rotation)

Evaluation tool-construction,administration and evaluation(Essay,objectivetype,ratingscale,checklist)

Construction of an achievement test

**Practical**

Practice teaching using different strategies (lecture cum discussion-5,demonstration-2,seminar-1,clinicalteaching -2,symposium/role play/panel discussion)

**Internal Assessment (Theory)**

	<b>Weightage</b>
Sessional exams (3)	50%
Assignments	25%
Seminar/presentation	25%
<b>Total</b>	<b>100%</b>

**Practical – Internal assessment**

Preparation of Learning resource material & Construction of tests/rotation plan.	25%
Practice Teaching	50%
Conduct Workshop /Short Term Course	25%
<b>Total</b>	<b>100%</b>

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## ADVANCED NURSING PRACTICE

Placement: 1st Year

### Hours of Instruction

Theory: 150 Hours

External Faculty:-30hrs

Nursing Faculty:-120hrs

Practical: 500 Hours

Total : 650 Hours

### Course Description

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

### Objectives:

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

1. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
2. Identify latest trends in nursing and the basis of advanced 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. Perform health assessment and General physical examination
6. Provide holistic and comprehensive care following nursing process approach
7. Perform extended and expanded role of nurse.
8. Describe alternative modalities of nursing care.
9. Describe the concept of quality control in nursing.
10. Identify the scope of nursing research.
11. Use computer in patient care delivery system and nursing practice.
12. Appreciate importance of self-development and professional advancement

## COURSE CONTENT

Unit	Hours	Content
I	8	<p><b>Nursing as a Profession</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Review:</b> History and development of nursing profession, Perspectives of Nursing Profession-National, global Code of ethics, code of professional conduct, autonomy and Legal considerations</li> <li><input type="checkbox"/> <b>Evidence Based Nursing Practice</b></li> <li><input type="checkbox"/> <b>Progressive Patient Care</b></li> <li><input type="checkbox"/> <b>Futuristic nursing.</b></li> <li><input type="checkbox"/> <b>Quality assurance in Nursing</b></li> </ul>
II	5	<p><b>Health care delivery</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Health care environment, Health economics</li> <li><input type="checkbox"/> Health care policy -National, State</li> <li><input type="checkbox"/> Policy and politics in Nursing</li> <li><input type="checkbox"/> Health care delivery system- national, state, district and local level.</li> <li><input type="checkbox"/> Major stakeholders in the health care system-Government, NGOs etc</li> <li><input type="checkbox"/> Patterns of nursing care delivery in India.</li> <li><input type="checkbox"/> Health care delivery concerns</li> <li><input type="checkbox"/> National health and family welfare programs:(Review)</li> <li><input type="checkbox"/> Information, education and communication (IEC).</li> <li><input type="checkbox"/> Tele-medicine.</li> </ul>
111	20	<p><b>Philosophy and Theories of Nursing</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Values, Conceptual models, approaches.</b></li> <li><input type="checkbox"/> <b>Nursing theories:</b> Nightingale's, Hendersons's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Pender's Neuman's, Roy's, Watson , and their applications, health promotions and health belief models</li> </ul> <p style="text-align: center;">Evidence based practice model.</p>
1V	12 *EF8	<p><b>Clinical Assessment-History taking and physical examination</b></p>

V	6	<b>Nursing process</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review: Identification of health-illness problems, health behaviors, Methods of data collection, analysis and utilization of data relevant to nursing process. Formulation of nursing care plans, health goals, Implementation, modification and evaluation of care.</li> </ul>
V1	15 EF10	<b>Genetics</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Molecular basis of the gene and transmission of genetic information</li> <li><input type="checkbox"/> Recombination, Mutation, Pedigree analysis</li> <li><input type="checkbox"/> Mapping the Human genome – Genome project. Approaches to common genetic disorders-Monogenic and polygenic</li> <li><input type="checkbox"/> Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis &amp; screening,</li> <li><input type="checkbox"/> Ethical, legal &amp; psychosocial issues in genetic testing.</li> <li><input type="checkbox"/> Genetic counseling.</li> <li><input type="checkbox"/> Practical application of genetics in nursing.</li> </ul>
V11	4 EF2	<b>Epidemiology</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review :Epidemiological approach and methods</li> <li><input type="checkbox"/> Concepts of causation of diseases and their screening,</li> <li><input type="checkbox"/> Application of epidemiology in health care delivery</li> <li><input type="checkbox"/> Health surveillance and health informatics</li> <li><input type="checkbox"/> Role of nurse</li> </ul>
V111	30	<b>Bio-Psycho social pathology</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review: Pathophysiology and Psychodynamics of disease causation Life processes from birth to old age,ageingprocess,geriatric considerations in nursing, Psychosocial dynamics in causation of disease, life style disease Common problems and management:</li> <li><input type="checkbox"/> Hospital acquired Infection, Pressure sore, Oxygen insufficiency Haemodynamic monitoring Fluid and electrolyte imbalance, Acid Base imbalance, Metabolic syndrome, Immune disorders, HIV/AIDS, Hemorrhage, shock,</li> </ul>
		Altered body temperature, Unconsciousness, Insomnia, pain,



		Sensory deprivation, Immobility, Anaphylaxis, Septicemia, Cardio pulmonary arrest. ARDS, respiratory failure and mechanical ventilation Emerging communicable diseases, Biomedical waste management
<b>IX</b>	<b>15</b> <b>EF5</b>	<p><b>Psychological aspects and Human relations</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review: Human behavior, Personality trait, Communication and interpersonal relationships, Individual / group dynamics and organizational behavior, Basic human needs</li> <li><input type="checkbox"/> Human Sexuality and sexual health.</li> <li><input type="checkbox"/> Stress and adaptation, crisis and its intervention,</li> <li><input type="checkbox"/> Coping with loss, death and grieving,</li> <li><input type="checkbox"/> Principles and techniques of Counseling.</li> </ul>
<b>X</b>	<b>10</b>	<p><b>Nursing practice</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Framework, scope and trends.</li> <li><input type="checkbox"/> Alternative modalities of care</li> <li><input type="checkbox"/> Alternative systems of health and complimentary therapies.</li> <li><input type="checkbox"/> Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community and institutions.</li> <li><input type="checkbox"/> Health promotion and primary health care.</li> <li><input type="checkbox"/> Independent practice issues, Independent nurse-midwifery practitioner.</li> <li><input type="checkbox"/> Collaboration issues and models-within and outside nursing.</li> <li><input type="checkbox"/> Models of Prevention</li> <li><input type="checkbox"/> Gender sensitive issues and women empowerment.</li> <li><input type="checkbox"/> Disaster nursing.</li> <li><input type="checkbox"/> Trans-cultural nursing.</li> </ul>
<b>XI</b>	<b>15</b>	<p><b>Advanced nursing skills</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Definition, Indication and nursing implications:</li> <li><input type="checkbox"/> TPN, Hemodynamic monitoring, Endo-tracheal intubation, Tracheotomy, Mechanical ventilation, Pacemaker, Hemodialysis, Peritoneal dialysis, LP, Chest physio therapy, Pleural and abdominal paracentesis, Triage, Pulse oxymetry, CPR, ACLS</li> </ul>

<b>10</b> <b>EF5</b>	<p><b>Computer applications for patient care delivery system and nursing Practice</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Use of computers in teaching, learning, research and nursing practice.</li> <li><input type="checkbox"/> Windows, MS office: Word, Excel, Power Point</li> <li><input type="checkbox"/> Internet-literature search,</li> <li><input type="checkbox"/> Statistical packages</li> <li><input type="checkbox"/> Hospital management information system: softwares</li> </ul>
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Legend: \*EF-External Faculty

**Practical – 500 Hrs**

Clinical posting in the following areas:

Sl. No	Dept/Unit	No. of Weeks
1.	Medical and Surgical Wards	4
2.	ICUs	4
3.	Community Health Centre/ PHC	2
4.	Casualty	1
	<b>Total</b>	<b>11</b>

**Activities**

Practice advance clinical procedures

- Prepare Care study and care plan based on nursing process and nursing theories (Medial ,Surgical)
- Care Analysis (Medial/ Surgical)
- Presentation of comparative picture of theories -2
- Clinical presentations/Clinical teaching-3

**Methods of Teaching**

- Lecture cum discussion
- Seminar
- Panel discussion



- Debate
- Case Presentations
- Exposure to scientific conferences

**Methods of evaluation:**

Tests

- Presentation
- Seminar
- Written assignments

**Advance Nursing Procedures**

Definition, Indication and nursing implications:

- Cardio Pulmonary Resuscitation, Total Parental Nutrition, Hemodynamic monitoring, Endotracheal intubation, Tracheostoma, mechanical ventilation, Pacemaker, Hemodialysis, Peritoneal dialysis, Lumbar Puncture, Blood Transfusion Pleural and abdominal parentesis Operation Room techniques, Health assessment, Triage, Pulse oxymetry.

**Internal Assessment**

<b>Theory</b>	<b>Weightage</b>
Sessional exams (3)	50%
Assignment	25%
Seminar/presentation	25%
	<b>100%</b>

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## NURSING RESEARCH AND STATISTICS

Placement: 1st Year

### Hours of Instruction

Theory : 150 Hours

Practical : 100 Hours

Total : 250 Hours

### **Part A: Nursing Research**

Theory: 100 Hours

Practical: 75 Hours

Total : 175 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. Recognize the significance of research in nursing and its importance in evidence- based nursing practice.
2. Identify the steps of quantitative and qualitative research.
3. Discuss the ethical aspects of research.
4. Review literature utilizing various resources.
5. Identify researchable problems in nursing.
6. Demonstrate skill in planning and conducting research studies.
7. Communicate research findings.
8. Utilize research findings.
9. Critically evaluate research reports and articles.
10. Write scientific paper for publications.

**COURSE CONTENT:**

Unit	Theory hours	Content	Practical hours	Content
I	5	<p><b>Introduction</b></p> <p><b>Review:</b></p> <p>Problem solving and scientific method.</p> <p>Research –definition, characteristics, purposes, types of research, Basic research terms, Scope of nursing research, Overview of Research process, Significance of research in nursing, Historical Evolution of nursing research.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Future trends in nursing research.</li> <li><input type="checkbox"/> Problems and challenges in nursing research, health and social research.</li> <li><input type="checkbox"/> Priorities for nursing research.</li> <li><input type="checkbox"/> Evidence based practice.</li> <li><input type="checkbox"/> Ethics in research</li> </ul>		
II	5	<p><b>Review of Literature</b></p> <p>Review-</p> <ul style="list-style-type: none"> <li>• Importance, purposes, sources, criteria for selection of resources</li> <li>• Guidelines for writing literature review.</li> </ul>	5	Literature search-web Search

III	10	<b>Research problem:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Identification of research problem/ research question.</li> <li><input type="checkbox"/> Formulation of problem statement and research objectives</li> <li><input type="checkbox"/> Definition of terms</li> <li><input type="checkbox"/> Assumption and delimitations</li> <li><input type="checkbox"/> Identification of variables</li> <li><input type="checkbox"/> Hypothesis –definition, formulation and types.</li> </ul>	5	1. Identification of research question. 2. Formulation of problem statement and research objectives
IV	5	<b>Developing theoretical /conceptual framework.</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review Theories: Nature, characteristics, purpose and application in research</li> <li><input type="checkbox"/> Using, testing and developing conceptual framework, models and theories.</li> </ul>	5	Developing theoretical /conceptual framework.
V	15	<b>Research Approach and designs</b> Qualitative and Quantitative, Mixed methods  <b>Qualitative research approaches:</b> Grounded theory, phenomenology, ethnography, case study and historical research.  <b>Quantitative:</b> Experimental and non experimental: types, characteristics, advantages and disadvantages. Randomised control design, cohort study, clinical trials		
VI	8	<b>Sampling</b> Population and sample. Factors influencing sampling Sampling techniques Sample size Probability and sampling error		

<b>VII</b>	<b>20</b>	<p><b>a) Data collection methods and Tools:</b>  Concepts of data collection, Data sources, methods/techniques quantitative and qualitative. Tools for data collection-types and characteristics</p> <p><b>b) Measurement and data quality</b>  Validity and reliability of tools,  Characteristics of an instrument  Steps in development of an instrument.  Procedure for data collection</p>		
<b>VIII</b>	<b>3</b>	<b>Critical analysis of research reports and articles</b>	<b>15</b>	Critical analysis of research reports and articles
<b>IX</b>	<b>4</b>	<b>Developing and presenting a research proposal</b>	<b>5</b>	Presenting a research proposal
<b>X</b>	<b>5</b>	<b>Implementing research plan</b> Pilot study, review research plan (design), planning for data collection, administration of tool/interventions, Collection of data	<b>40</b>	Pilot study
<b>XI</b>	<b>10</b>	<b>Analysis and interpretation of data</b> <b>Plan for data analysis:</b> quantitative and qualitative Preparing data for computer analysis and Presentation , Statistical analysis Interpretation of data Conclusion and generalizations Summary and discussion		
<b>XII</b>	<b>10</b>	<b>Reporting and utilizing research findings:</b> Communication of research results; oral and written Writing research report purposes, methods and style, Vancouver, American Psychological Association (APA),		



		Utilization of research findings. Writing scientific articles for publication: purposes & style		
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**Activities:**

- Annotated Bibliography of research reports and articles. -4
- 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 presentation-1
- Critical evaluation of selected research studies –dissertaton-1,journal article -1
- Writing a scientific paper

**Methods of Teaching:**

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

**Methods of Evaluation:**

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

<b>Internal Assessment Techniques</b>	<b>Weightage (15 marks)</b>
Sessional exams (2)	40%
Presentations/Seminar	20%
Research critique & presentation	20%
Annotated bibliography ,assignments	20%
<b>Total</b>	<b>100%</b>

#### Part –B: Statistics (External Faculty)

<b>Hours of Instruction</b>	
Theory	50Hours
Practical	25 Hours
<b>Total</b>	<b>75 Hours</b>

#### **Course Description:**

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

#### **General Objectives:**

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

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

## Course content

Unit	Hours		Content
	Theory	Practical	
I	7		<b>Introduction:</b> <ul style="list-style-type: none"> <li>□ Concepts, types, significance and scope of statistics, meaning of data</li> <li>□ Sample, parameter</li> <li>□ Type and levels of data and their Measurement                             <ul style="list-style-type: none"> <li>□ Organization and presentation of data-Tabulation of data</li> </ul> </li> <li>□ Frequency distribution</li> <li>□ Graphical and tabular presentations</li> </ul>
II	4		<b>Measures of central tendency: Mean, Median, Mode</b>
III	4		<b>Measures of variability:</b> □ Range, Percentiles, Average deviation, Quartile deviation, Standard deviation
IV	3		<b>Normal Distribution:</b> □ Probability, Characteristics and application of normal probability curve, Sampling error
V	6		<b>Measures of relationship:</b> □ Correlation-need and meaning □ Rank order correlation □ Scatter diagram method, product moment correlation, Simple linear regression analysis and prediction,
VI	5		<b>Designs and meaning:</b> <ul style="list-style-type: none"> <li>□ review -Experimental designs</li> <li>□ Comparison in pairs, randomized block design, Latin squares.</li> </ul>
VII	8		<b>Significance of Statistic and Significance of difference between Two Statistics(Testing hypothesis)</b> <ul style="list-style-type: none"> <li>□ Non parametric test-Chi-square test, Sign, median test, Mann Whitney test</li> <li>□ Parametric test- <math>t'</math> test, ANOVA,</li> </ul>

VIII	5		<p><b>Use of statistical methods in psychology and education:</b></p> <ul style="list-style-type: none"> <li>□ Scaling-Z Score, Z Scaling</li> <li>□ Standard Score and T Score</li> <li>□ Reliability of test scores: test-retest method, parallel forms split half method</li> </ul>
IX	4	5	<p><b>Application of statistics in health:</b></p> <p>Ratios, Rates, Trends</p> <p>Vital health statistics –Birth and death rates</p> <p>Measures related to fertility, morbidity and mortality</p>
X	4	20	<p><b>Use of Computers for data analysis</b></p> <p>Use of statistical package</p>

**Activities:**

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

**Methods of Teaching:**

- Lecture-cum-discussion
- Demonstration-on data organization, tabulation, calculation of statistics, use of statistical package, Classroom exercises, organization and tabulation of data
- Computing Descriptive and inferential statistics; vital and health

statistics and use of computer for data entry and analysis using statistical package

**Methods of Evaluation:**

- Test, Classroom statistical exercises

Internal Assessment Techniques

weightage 10 marks

Sessional exams – (2)

100%

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- ② Nola A.Schmidt, Janet M Brown. Evidence Based Practice for Nurses Appraisal and Application of Research, Jones and Bartlett Publishers, New Delhi.’
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**CLINICAL SPECIALTY – I**  
**MEDICAL SURGICAL NURSING-I**

**Placement: 1st Year**

**Hours of instruction**

Theory: 150 Hours

Nursing Faculty: 120Hours

External Faculty: 30 Hours

Practical: 900 Hours

**Total: 1050 Hours**

**Course Description**

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 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 specialty.
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 centred nursing care with associated disorder such as genetic, congenital and long-term illness.
7. Recognize and manage emergencies
8. Describe various recent technologies & treatment modalities in the management of critically ill patients.
9. Appreciate the legal & ethical issues
10. Prepare a design for ICU
11. Appreciate the role of alternative systems of Medicine in care of patients.
12. Incorporate evidence based Nursing practice and identify the areas of research
13. Recognize the role of Nurse practitioner as a member of the health team.
14. Conduct clinical Teaching for undergraduate nursing students & in-service nurses.

**COURSE CONTENT:**

Unit	Hours	Content
1	3	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical development of Medical- Surgical Nursing</li> <li><input type="checkbox"/> Trends &amp; issues in Medical – Surgical Nursing.</li> </ul> <p>Ethical &amp; cultural issues in Medical – Surgical Nursing</p> <p><b>Review:</b> General Health Assessment &amp; History taking , Nutritional assessment.</p>
II	15 (EF 3)	<p><b>Management of patients with disorders of Gastro intestinal system</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review: Functional anatomy and physiology.</li> <li><input type="checkbox"/> Health assessment- History taking, physical examination, diagnostic investigations</li> <li><input type="checkbox"/> Etiology, pathophysiology diagnostic tests &amp; management of GERD, APD, Intestinal obstruction, , Pancreatitis, GI Bleeding, Irritable Bowel Syndrome, Inflammatory bowel disease, colorectal cancers, Ca stomach, Ca oesophagus Cirrhosis of Liver, Hepatic failure, Liver transplantation</li> <li><input type="checkbox"/> Related research studies &amp; Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
III	12 (EF 3)	<p><b>Management of patients with disorders of nervous system</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review: Functional anatomy and physiology.</li> <li><input type="checkbox"/> Health assessment- History taking, physical examination, diagnostic investigations</li> <li><input type="checkbox"/> Etiology, pathophysiology, diagnostic tests &amp; management of Stroke, Meningitis, Encephalitis,Alzheimers disease, Epilepsy, ICSOL, GBS,MyastheniaGravis,Parkinsonsdisease,Multiple sclerosis</li> <li><input type="checkbox"/> Related research studies &amp; Evidence based <i>nursing</i> practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
IV	14 (EF 3)	<p><b>Management of patients with disorders of respiratory system</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review: Functional anatomy and physiology.</li> <li><input type="checkbox"/> Health assessment- History taking, physical examination , diagnostic Investigations,</li> <li><input type="checkbox"/> Etiology, pathophysiology diagnostic tests &amp; management of Asthma,Bronchiectasis Pulmonary tuberculosis, COPD, ARDS, Respiratory Failure, Pulmonary edema, Interstitial lung diseases, Pulmonary embolism, Pulmonary neoplasm,Pneumonia, Mechanical ventilation Chest trauma, lung surgeries.</li> </ul>

		<ul style="list-style-type: none"> <li><input type="checkbox"/> Related research studies &amp; Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
<b>V</b>	<b>12</b> <b>(EF5)</b>	<b>Management of patients with disorders of cardio vascular system</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review: Functional anatomy and physiology.</li> <li><input type="checkbox"/> Health assessment- History taking, physical examination , diagnostic Investigations, Congenital heart disease,Rhematic heart disease,cardiomyopathy</li> <li><input type="checkbox"/> Etiology, pathophysiology diagnostic tests &amp; management of Hypertension, Acute coronary syndrome, Arrhythmias , CCF,Pace maker Care of patients with open heart surgery.</li> <li><input type="checkbox"/> Related research studies &amp; Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
<b>VI</b>	<b>12</b> <b>(EF 3)</b>	<b>Management of patients with disorders of blood</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review: Functional anatomy and physiology.</li> <li><input type="checkbox"/> Health assessment- History taking, physical examination , diagnostic investigations</li> <li><input type="checkbox"/> Etiology, pathophysiology diagnostic tests &amp; management of Anemias, Leukemias,</li> <li><input type="checkbox"/> Related research studies &amp; Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
<b>VII</b>	<b>15</b> <b>(EF3)</b>	<b>Management of patients with disorders of genito- urinary system</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review: Functional anatomy and physiology.</li> <li><input type="checkbox"/> Health assessment- History taking, physical examination , diagnostic investigations</li> <li><input type="checkbox"/> Etiology, pathophysiology diagnostic tests &amp; management of Renal Calculi, UTI, Nephritis, Nephrotic Syndrome, AKI,CKD,BPH, Ca bladder, Dialysis,Renal transplantation.</li> <li><input type="checkbox"/> Related research studies &amp; Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
<b>VIII</b>	<b>7</b>	<b>Management of patients with disorders of endocrine system</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review: Functional anatomy and physiology.</li> <li><input type="checkbox"/> Health assessment- History taking, physical examination , diagnostic investigations</li> <li><input type="checkbox"/> Etiology, pathophysiology diagnostic tests &amp; management of DM, Pituitary disorders, Thyroid parathyroid and adrenal dysfunctions.</li> </ul>



		<ul style="list-style-type: none"> <li><input type="checkbox"/> Related research studies &amp; Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
<b>IX</b>	<b>7</b>	<b>Management of patients with disorders of muscular-skeletal system</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Health assessment- History taking, physical examination , diagnostic investigations</li> <li><input type="checkbox"/> Etiology, pathophysiology diagnostic tests &amp; management of Arthritis, SLE, Osteoporosis, Osteomyelitis, reconstructive surgeries, Amputation. Fracture</li> <li><input type="checkbox"/> Related research studies &amp; Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
<b>X</b>	<b>4</b>	<b>Management of patients with disorders of Integumentary System</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Health assessment- History taking, physical examination , diagnostic investigations</li> <li><input type="checkbox"/> Etiology, pathophysiology ,diagnostic tests &amp; management of psoriasis, , pemphigus, leprosy,</li> <li><input type="checkbox"/> Related research studies &amp; Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
<b>XI</b>	<b>4</b>	<b>Management of patients with disorders of Eye and ENT</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review: Functional anatomy and physiology.</li> <li><input type="checkbox"/> Health assessment- History taking, physical examination, diagnostic investigations</li> <li><input type="checkbox"/> Etiology, pathophysiology, diagnostic tests &amp; management of glaucoma, cataract, transplantation</li> <li><input type="checkbox"/> Related research studies &amp; Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
<b>XII</b>	<b>10</b>	<b>Geriatric nursing</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Ageing; Demography, Concepts and theories of ageing</li> <li><input type="checkbox"/> Age related body systems changes.</li> </ul>

		<ul style="list-style-type: none"> <li><input type="checkbox"/> Psychosocial Aspects of Aging.</li> <li><input type="checkbox"/> Stress&amp; coping in older adults.</li> <li><input type="checkbox"/> Nursing Assessment-History and Physical assessment.</li> <li><input type="checkbox"/> Medications and elderly.</li> <li><input type="checkbox"/> Common Health Problems &amp; Nursing Management</li> <li><input type="checkbox"/> Psychosocial and Sexual abuse of elderly.</li> <li><input type="checkbox"/> Use of aids and prosthesis</li> <li><input type="checkbox"/> Legal&amp; Ethical Issues.</li> </ul>
XIII	10	<p><b>Management of patients with communicable and sexually transmitted diseases:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review of immune system.</li> <li><input type="checkbox"/> Common Disorders of immune system – HIV/AIDS.</li> <li><input type="checkbox"/> Review of infection process cycle, Etiology, Patho physiology, Clinical manifestations, complications, prognosis, investigation and Diagnostic assessment, Treatment modalities of acute diarrhoeal disorders, typhoid fever, hepatitis, malaria, Japanese encephalitis, leptospirosis, dengue fever</li> <li><input type="checkbox"/> Emerging communicable disease</li> </ul>
XIV	10 (EF 4)	<p><b>Emergency, trauma and multi-system organ failure</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> DIC (disseminated intravascular coagulation)</li> <li><input type="checkbox"/> Burns, poisoning</li> <li><input type="checkbox"/> Health assessment-History taking, physical examination, investigation and diagnostic assessment and management of craniocerebral trauma, spinal cord injury and abdominal injuries.</li> <li><input type="checkbox"/> Related research studies.</li> <li><input type="checkbox"/> Evidence based nursing practice.</li> <li><input type="checkbox"/> Rehabilitation and follow-up.</li> </ul>
XV	15 (EF 3)	<p><b>Oncology Nursing :</b> Aetiology,investigation, preventive measures of Malignancies, Chemotherapy,radiationTherapy, ImmuneTherapy,Palliativecare,Bone marrow transplantation, stem cell transfer</p>

Sl. No	Dept/Unit	No. of Weeks
1.	General Medical Ward	4
2.	General surgical ward	4
3.	ICUs	7
4.	Oncology	2
5.	Emergency Department	
	<b>Total</b>	<b>19</b>

#### Clinical Activities:

- Clinical presentations -5
- Care plan-5 (nursing Process)
- Care plan 2(theory based)
- Care study-1
- Care analysis-2 medical1,surgical 1
- Term paper
- Clinical profile 2
- Drug file

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	40%
Term paper-1	25%	Clinical assignments	40%
Seminars/Presentations	25%	Internal examination	20%
<b>Total</b>	<b>100%</b>	<b>TOTAL</b>	<b>100%</b>

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- Scott H Plantz, E John Wipfler NMS Emergency Medicine, II edn, Lippincott Williams & Wilkins.
- National and international journals in nursing practice, advanced nursing and critical care.

**SECOND YEAR M.Sc NURSING  
NURSING MANAGEMENT**

**Placement: II Year  
Hours of Instruction**

Nurse Specialist :105 Hours	Theory :150 Hours
	External :45 Hours
	Practical :200 Hours
	<b>Total : 350 Hours</b>

**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. Formulate 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 and 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. Discuss the planning, supervision and management of nursing workforce for various health care settings.
7. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care
8. Identify and analyze legal and ethical issues in nursing administration
9. Describe the process of quality assurance in nursing services.
10. Demonstrate leadership in nursing at various levels.
11. Organize staff development programme.

## COURSE CONTENT

Unit	Theory	Content
I	10  *EF5	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>• Concepts of Management Philosophy, theories, elements, Principles, -(Review).</li> <li>Functions of administration</li> <li>Indian Constitution, Indian Administrative system health care delivery system:</li> <li>National, State and Local</li> <li>Organisation and functions of nursing services and education at National, State, District and institutions: Hospital and Community</li> <li>Planning process: Five year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans</li> </ul>
II	10	<p><b>Nursing management</b></p> <ul style="list-style-type: none"> <li>Concept, types, principles and techniques</li> <li>Vision and Mission Statements</li> <li>Philosophy, aims and objective</li> <li>Current trends and issues in Nursing Administration</li> <li>Theories and models</li> <li>Application to nursing service and education</li> <li>Autonomy and accountability for nursing practice.</li> </ul>
III	15  EF5	<ul style="list-style-type: none"> <li>Planning and control</li> <li>Co-ordination and delegation</li> <li>Decision making – decentralization basic goals of decentralization.</li> <li>Strategic planning</li> <li>Operational plans</li> <li>Management plans</li> <li>Programme evaluation and review technique(PERT), Gantt chart,</li> <li>Management by objectives(MBO)</li> <li>Planning new venture</li> <li>Planning for change</li> </ul>

		Innovations in nursing Application to nursing service and education
<b>IV</b>	<b>15</b> <b>EF5</b>	<b>Organisation</b> 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
<b>V</b>	<b>15</b> <b>EF5</b>	<b>Human Resource for health</b> Staffing  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

<p><b>VI</b></p>	<p><b>15</b> <b>EF5</b></p>	<p><b>Directing</b></p> <p>Roles and functions  Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories  Communication : process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations  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</p>
<p><b>VII</b></p>	<p><b>10</b></p>	<p><b>Material management</b></p> <p>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</p>
<p><b>VIII</b></p>	<p><b>15</b> <b>EF5</b></p>	<p><b>Controlling</b></p> <p>Quality assurance – Continuous Quality Improvement  Standards, Models, Nursing audit  Performance appraisal: Tools, confidential reports, formats, Management, interviews, Self evaluation or peer evaluation, patient satisfaction, utilization review Application to nursing service and education,  Supervision and management: concepts and principles  Discipline: service rules, self discipline, constructive versus destructive discipline, problem employees, disciplinary proceeding senquiryetc  Self evaluation or peer evaluation, patient satisfaction, utilization review</p>



		Application to nursing service and education
<b>IX</b>	<b>15</b> <b>EF5</b>	<b>Fiscal planning</b> 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
<b>X</b>	<b>10</b> <b>EF5</b>	<b>Nursing informatics</b> 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
<b>XI</b>	<b>10</b>	<b>Leadership</b> Concepts, Types, Theories Styles Manager behavior Leader behavior , Assertiveness Effective leader: Characteristics, skills Group dynamics Power and politics , Visibility of nursing Lobbying Stress management Applications to nursing service and education
<b>XII</b>	<b>10</b> <b>EF5</b>	<b>Legal and ethical issues</b> <b>Laws and ethics</b> Ethical committee Code of ethics and professional conduct

		<p>Legal system: Types of law, tort law, and liabilities</p> <p>Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character</p> <p>Patient care issues, management issues, employment issues</p> <p>Medico legal issues</p> <p>Nursing regulatory mechanisms: licensure, renewal, accreditation</p> <p>Patients rights, Consumer protection act(CPA)</p> <p>Rights of special groups: children, women, HIV, handicap, ageing</p> <p>Professional responsibility and accountability</p> <p>Infection control</p> <p>Standard safety measures</p>
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**\*EF- External Faculty**

**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 Organization Chart
5. Developing nursing standards/protocols for various units
6. Design a layout plan for specialty 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 specialty 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 specialty units and develop plan of action by problem solving approach
14. Plan a duty roster for specialty units/hospital, community and educational institutions
15. Prepare: anecdotes, incident reports, day and night reports, handing and taking over

reports, enquiry reports, nurse's notes, official letters, curriculum vitae, presentations etc.

16. Prepare a plan for disaster management

17. Observation visit to a multispecialty teaching hospital and College and School of Nursing

### **Methods of Teaching**

- Lecture cum discussion
- Seminar / Presentations
- Workshop

### **Methods of evaluation**

- Tests
- Presentation
- Written assignments

<b>Internal Assessment Techniques</b>	<b>Weightage (%)</b>
Sessional exam (3)	50
Assignments	25
Seminar/presentations	25

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**Total** **100%**

### **Assignments**

#### ***Theory***

Statement of Philosophy, mission, vision and objective of a hospital. Prepare Job Descriptions of Various Categories of Nursing Personnel. Prepare Budget estimate for Nursing Department.

Compute Staffing Requirement of hospital (Yearly, Monthly, Weekly.)

Performance Appraisal Format for Nursing Staff.

#### ***Practical***

Nursing Rounds	2
Clinical Teaching of Students	1
Staff Development Programme	1
Nursing Care Conference	1

### **Clinical Posting**

Various Wards/ICUs of Hospital. - 4 Weeks

Office of Nursing Superintendent / Nursing Officer- 1 week

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## CLINICAL SPECIALITY – II

### MEDICAL SURGICAL NURSING-II

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

Placement : II year

#### Hours of Instruction

Theory : 150 hours.

Nursing Faculty:-125 hrs

External Faculty:-25 hrs

Practical : 1450 hours.

Total : 1600 hours.

#### Course Description

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

#### Objectives

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

1. Appreciate trends and issues related to cardio vascular and thoracic Nursing.
2. Describe the epidemiology, etiology, patho-physiology and diagnostic assessment of cardio vascular and thoracic conditions
3. Participate in national health programs for health promotion, prevention and rehabilitation of patients with cardio vascular and thoracic conditions
4. Perform physical, psychosocial & spiritual assessment
5. Assist in various diagnostic, therapeutic and surgical procedures
6. Apply nursing process in providing comprehensive care to patients with cardio vascular and thoracic conditions
7. Demonstrate advance skills/competence in managing patients with cardio vascular and thoracic conditions including Advance Cardiac Life Support.

8. Describe the various drugs used in cardio vascular and thoracic conditions and nurses responsibility
9. Demonstrate skill in handling various equipments/gadgets used for critical care of cardio vascular and thoracic patients
10. Appreciate team work & coordinate activities related to patient care.
11. Practice infection control measures.
12. Identify emergencies and complications & take appropriate measures
13. Discuss the legal and ethical issues in cardio vascular and thoracic nursing
14. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs.
15. Appreciate the role of alternative system of medicine in care of patient
16. Incorporate evidence based nursing practice and identify the areas of research in the field of cardio vascular and thoracic nursing
17. Identify the sources of stress and manage burnout syndrome among health care providers.
18. Teach and supervise nurses and allied health workers.
19. Design a layout of ICCU and ICTU and develop standards for cardio vascular and thoracic nursing practice.

#### CONTENT OUTLINE

Unit	Hours	Content
1	5	<b>Introduction:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical development, trends and issues in the field of cardiology.</li> <li><input type="checkbox"/> Cardio vascular and thoracic conditions – major health problem.</li> <li><input type="checkbox"/> Concepts, principles and nursing perspectives</li> <li><input type="checkbox"/> Ethical and legal issues</li> <li><input type="checkbox"/> Evidence based nursing and its application in cardio vascular and thoracic nursing( to be incorporated in all the units)</li> </ul>
II	5	Epidemiology <ul style="list-style-type: none"> <li><input type="checkbox"/> Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc</li> <li><input type="checkbox"/> Health promotion, disease prevention, Life style modification</li> <li><input type="checkbox"/> National health programs related to cardio vascular and thoracic</li> </ul>
☆		46

		<p>conditions</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Alternate system of medicine</li> <li><input type="checkbox"/> Complementary therapies</li> </ul>
<b>III</b>	<b>5</b>	<p><b>Review of anatomy and physiology of cardio vascular and respiratory system</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung.</li> <li><input type="checkbox"/> Coronary circulation, Foetal Circulation</li> <li><input type="checkbox"/> Hemodynamics and electro physiology of heart.</li> <li><input type="checkbox"/> Bio-chemistry of blood in relation to cardio pulmonary function</li> </ul>
<b>IV</b>	<b>20</b> <b>EF5</b>	<p><b>Assessment and Diagnostic Measures:</b></p> <p>History taking</p> <p>Physical assessment</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Heart rate variability: Mechanisms , measurements, pattern, factors, impact of interventions on HRV Diagnostic tests</li> <li><input type="checkbox"/> 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</li> <li><input type="checkbox"/> Radiologic examination of the chest: interpretation, chest film findings</li> <li><input type="checkbox"/> 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,</li> <li><input type="checkbox"/> Echocardiography: technical aspects, special techniques, echocardiography of cardiac structures in health and disease, newer techniques</li> <li><input type="checkbox"/> Nuclear and other imaging studies of the heart: Magnetic Resonance Imaging.</li> <li><input type="checkbox"/> Cardio electrophysiology procedures: diagnostic studies, interventional and catheter ablation, nursing care</li> </ul>
	☆	47



		<ul style="list-style-type: none"> <li>□ Exercise testing: indications and objectives, safety and personnel, pretest considerations, selection, interpretation, test termination, recovery period</li> <li>□ Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data</li> <li>□ Pulmonary function test: Bronchoscopy and graphies</li> <li>□ Interpretation of diagnostic measures</li> <li>□ Nurse’s role in diagnostic tests</li> </ul> <p>• Pneumonias 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.</p>
V	25 EF4	<p><b>Cardiac disorders and nursing management:</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, newer treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> <li>• Hypertension</li> <li>• Coronary Artery Disease.</li> <li>• Angina of various types.</li> <li>• Cardiomegaly</li> <li>• Myocardial Infarction, Congestive cardiac failure</li> <li>• Heart Failure, Pulmonary Edema, Shock.</li> <li>• Rheumatic heart disease and other Valvular Diseases</li> <li>• Inflammatory Heart Diseases, Infective Endocarditis, Myocarditis, Pericarditis.</li> <li>• Cardiomyopathy, dilated, restrictive, hypertrophic.</li> <li>• Arrhythmias, heart block</li> </ul> <p>Associated illnesses</p>
VI	10 EF3	<p><b>Altered pulmonary conditions</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> <li>• Bronchitis</li> <li>• Bronchial asthma</li> <li>• Bronchiectasis</li> </ul> <p>• Lung abscess, lung tumour</p> <p>• Pulmonary tuberculosis, fibrosis, pneumoconiosis etc</p>



		<ul style="list-style-type: none"> <li>• Pleuritis, effusion</li> <li>• Pneumo, haemo and pyothorax</li> <li>• Interstitial Lung Disease</li> <li>• Cystic fibrosis</li> <li>• Acute and Chronic obstructive pulmonary disease (conditions leading to)</li> <li>• Cor pulmonale</li> <li>• Acute respiratory failure</li> <li>• Adult respiratory distress syndrome</li> <li>• Pulmonary embolism</li> <li>• Pulmonary Hypertension</li> </ul> <p><b>VII      10</b></p> <p><b>EF3      Vascular disorders and nursing management</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> <li>• Disorders of arteries</li> <li>• Disorders of the aorta</li> <li>• Aortic Aneurysms,</li> <li>• Aortic dissection</li> <li>• Raynaud’s phenomenon</li> <li>• Peripheral arterial disease of the lower extremities</li> <li>• Venous thrombosis</li> <li>• Varicose veins</li> <li>• Chronic venous insufficiency and venous leg ulcers</li> <li>• Pulmonary embolism</li> </ul> <p><b>VIII      10</b></p> <p><b>EF3      Cardio thoracic emergency interventions</b></p> <p>CPR- BLS and ALS</p> <p>Use of ventilator, defibrillator , pacemaker</p> <p>Post resuscitation care.</p> <p>Care of the critically ill patients</p> <p>Psychosocial and spiritual aspects of care</p> <p>Stress management; ICU psychosis</p>
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IX	10 EF3	<p>Role of nurse</p> <p><b>Nursing care of a patient with obstructive airway</b></p> <p>Assessment</p> <p>Use of artificial airway</p> <p>Endotracheal intubation, tracheostomy and its care</p> <p>Complication, minimum cuff leak, securing tubes</p>
X	10 EF4	<p><b>Oxygen delivery systems.</b></p> <p>Nasal Cannula</p> <p>Oxygen mask, Venturi mask</p> <p>Partial rebreathing bag</p> <p>Bi-PAP and C-PAP masks</p> <p>Uses, advantages, disadvantages, nursing implications of each.</p>
XI	10	<p><b>Mechanical Ventilation</b></p> <p>Principles of mechanical ventilation</p> <p>Types of mechanical ventilation and ventilators.</p> <p>Modes of ventilation, advantage, disadvantage, complications.</p> <p>PEEP therapy, indications, physiology, and complications. Weaning off the ventilator.</p> <p>Nursing assessment and interventions of ventilated patient</p>
XII	20	<p><b>Congenital Heart Diseases</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> <li>• Embryological development of heart.</li> <li>• Classification – cyanotic and acyanotic heart disease.</li> <li>• Tetralogy of Fallots.</li> <li>• Atrial Septal Defect, Ventricular Septal Defect., Eisenmenger’s complex.</li> <li>• Patent ductus arteriosus, AP window</li> <li>• Truncus Arteriosus.</li> <li>• Transposition of great arteries.</li> <li>• Total Anomaly of Pulmonary Venous Connection.</li> <li>• Pulmonary stenosis, atresia.</li> </ul>

<p><b>XIII</b></p>	<p><b>5</b></p>	<ul style="list-style-type: none"> <li>• Coarctation of aorta.</li> <li>• Ebstein's anomaly</li> <li>• Double outlet right ventricle, Single ventricle, Hypoplastic left heart syndrome.</li> </ul> <p><b>Pharmacology</b></p> <p><b>Review</b></p> <p>Pharmacokinetics</p> <p>Analgesics/Anti inflammatory agents</p> <p>Antibiotics, antiseptics</p> <p>Drug reaction &amp; toxicity</p> <p>Drugs used in cardiac emergencies</p> <p>Blood and blood components</p> <ul style="list-style-type: none"> <li>• Thrombolytic agents</li> <li>• Inotropic agents</li> <li>• Beta-blocking agents</li> <li>• Calcium channel blockers.</li> <li>• Vaso constrictors</li> <li>• Vaso dilators</li> <li>• ACE inhibitors.</li> <li>• Angiotensin receptor blockers</li> <li>• Anticoagulants</li> <li>• Antiarrhythmic drugs.</li> <li>• Anti hypertensives</li> <li>• Diuretics</li> <li>• Sedatives and tranquilizers.</li> </ul>
<p><b>XIV</b></p>	<p><b>5</b></p>	<p>Principles of drug administration, role and responsibilities of nurses and care of drugs</p> <p><b>Nursing Care of patient undergoing cardio thoracic surgery</b></p> <p>Indications, selection of patient</p> <p>Preoperative assessment and preparation; counseling.</p>

Intra-operative care: Principles of open heart surgery, equipment, anesthesia, cardiopulmonary bypass.

Surgical procedures for Coronary Artery Bypass Grafting, recent advances and types of grafts, Valve replacement or reconstruction, cardiac transplant, Palliative surgery and different Stents, vascular surgery, other recent advances.

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

**Cardiac rehabilitation**  
Process  
Physical evaluation  
Life style modification  
Physical conditioning for cardiovascular efficiency through exercise  
Counseling  
Follow up care

**Intensive Coronary Care Unit/intensive cardio thoracic unit:**

Quality assurance

- 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 – 1450 Hours**

**1 Weeks = 48 Hours**

SL. No	Dept/ Unit	No.of weeks
1.	Cardio thoracic- Medical	4
	-Surgical	4
2	OT ( cardiac & Thoracic)	4
3	Diagnostic Lab including cath Lab	2
4	ICCU	5
5	ICU	4
6	CCU	4
7	Paediatric Intensive Care	2
8	OPD	1
	<b>Total</b>	<b>30</b>

### Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	50%
Written assignments	25%	Clinical assignments	25%
Seminars/Presentations	25%	Internal examination	25%
<b>Total</b>	<b>100%</b>	<b>TOTAL</b>	<b>100%</b>

### Essential Nursing Skills

#### Procedures to be 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 to be 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 catheterization
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 to be 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
12. Through tracheostomy tube
13. Artificial airway cuff maintenance
14. CPR
15. Care of client on ventilator
16. Identification of different – Arrhythmias, abnormal pulses, respirations, B.P. Variation, Heart sounds, Breath sounds
17. Pulse oxymetry
18. Introduction of intracath
19. Bolus I.V. Injection
20. Life line
21. Maintenance of —Heplock||
22. Subcutaneous Injection of Heparin
23. Obtaining leg measurements to detect early swelling in thrombophlebetis
24. Identification of Homans sign
25. Buerger – Allen exercises

### **Assignments**

Nursing care study -2

Nursing care analysis -2

Nursing care plan based on theories -5





Clinical teaching -5  
Design floor plan of cardiovascular and thoracic unit  
Organise in service education programme for nurses.

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- ② Darovic ,Gloria Oblouk —Hemodynamic monitoring|| W.B.Saunders , 3<sup>rd</sup> edn.
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- ② Ignatavicius ,Donna D.’Medical-Surgical Nursing’5<sup>th</sup> edn.Elsevier.
- ② Goldman,Ausiello- \_cecils Textbook of Medicine’23<sup>rd</sup> edn Elsevier.
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and CPR.
- ② Cardiac Nursing Companion to Braunwalds, Debra K Moser, Barbara R, 1<sup>st</sup> Edn, Saunders.
- ② B N Vijay Raghawa Rao. Cl;inical Exmination in Cardiology 2007, Elsevier.
- ② Romeo Vetch ECG diagnosis made easy , Martin Dunitz
- ② Hampton John R, The ECG made easy, 6<sup>th</sup> edn,Churchill livingstone.
- ② Lewis. Medical Surgical Nursing Assessment & Management of Problems, 7<sup>th</sup> Edn. Mosby  
Publishers.
- ② Joyce M Black. Medical Surgical Nursing-Clinical Management for positive outcomes, 7<sup>th</sup>  
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- National and international journals in nursing practice, nursing education, nursing  
research, critical care, cardiovascular and thoracic nursing, nursing management,  
continuing nursing education and nursing.

**Note:** \* Latest Edition

## CLINICAL SPECIALITY – II

### MEDICAL SURGICAL NURSING - CRITICAL CARE NURSING

#### Placement: II Year

#### Hours of instruction

Theory: 150 hours

Nursing Faculty:-115 hrs

External Faculty:-35 hrs

Practical: 1450 hours

**Total : 1600 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 nurses responsibility
4. Perform physical, psychosocial & spiritual assessment
5. Demonstrate advance skills/competence in managing critically ill patients including Advance Cardiac Life Support.
6. Demonstrate skill in handling various equipments/gadgets used for critical care
7. Provide comprehensive care to critically ill patients.
8. Appreciate team work & coordinate activities related to patient care.
9. Practice infection control measures.
10. Assess and manage pain.
11. Identify complications & take appropriate measures.
12. Discuss the legal and ethical issues in critical care nursing
13. Assist patients and their family to cope with emotional distress, spiritual, grief and anxiety
14. Assist in various diagnostic, therapeutic and surgical procedures
15. Incorporate evidence based nursing practice and identify the areas of research in the field of critical care nursing
16. Identify the sources of stress and manage burnout syndrome among health care providers.
17. Teach and supervise nurses and allied health workers.
18. Design a layout of ICU and develop standards for critical care nursing practice.

### Content Outline

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

<b>IV</b>	<b>5</b>	<p><b>Pain Management</b></p> <p>Pain &amp; Sedation in Critically ill patients</p> <p>Theories of pain, Types of pain, Pain assessment, Systemic responses to pain</p> <p>pain management-pharmacological and non-pharmacological measures Placebo effect</p>
<b>V</b>	<b>5</b>	<p><b>Infection control in intensive care unit</b></p> <p>Nosocomial infection in intensive care unit; methicilline resistant, staphylococcus aureus (MRSA), Disinfection, Sterilization, Standard safety measures, Prophylaxis for staff</p>
<b>VI</b>	<b>10</b> <b>EF3</b>	<p><b>Gastrointestinal System</b></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>
<b>VII</b>	<b>10</b> <b>EF3</b>	<p><b>Renal System</b></p> <p>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</p> <p>Management Modalities: Hemodialysis, Peritoneal Dialysis, Continuous Ambulatory Peritoneal Dialysis, Continuous arterio-venous hemodialysis, Renal Transplantation</p>
<b>VIII</b>	<b>10</b> <b>EF4</b>	<p><b>Nervous System</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Common Neurological Disorders:- Cerebrovascular disease, Cerebrovascular accident, Seizure disorders, GuilleinBarre-Syndrome, Myasthenia Gravis, Coma, Persistent vegetative state, Encephalopathy, Head injury, Spinal Cord injury</p>
		Management Modalities: Assessment of Intracranial pressure,

		Management of intracranial hypertension, Craniotomy, Problems associated with neurological disorders: Thermo regulation, Unconsciousness, Herniation syndrome
<b>IX</b>	<b>5</b> <b>EF3</b>	<b>Endocrine System</b> Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing Management of :- Hypoglycemia, Diabetic Ketoacidosis, Thyroid crisis, Myxoedema, Adrenal crisis, Syndrome of Inappropriate/ hypersecretion of Antidiuretic Hormone (SIADH)
<b>X</b>	<b>15</b> <b>EF4</b>	<b>Management of other Emergency Conditions</b> Mechanism of injury, Thoracic injuries, Abdominal injuries, pelvic fractures, complications of trauma, Head injuries 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, Acquired Immunodeficiency Syndrome (AIDS) Ophthalmic: Eye injuries, Glaucoma, retinal detachment Ear Nose Throat: Foreign bodies, stridor, bleeding, quincy, acute allergic conditions Psychiatric emergencies;, suicide, crisis intervention
<b>XI</b>	<b>20</b> <b>EF6</b>	<b>Cardiovascular emergencies</b> Principles of Nursing in caring for patient's 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 &

<p>XII</p>	<p>15 EF4</p>	<p>Nursing management of:-Hypertensive crisis, Coronary artery disease,Acute Myocardial infarction, Cardiomyopathy, Deep vein thrombosis, Valvular diseases, Heart block, Cardiac arrhythmias &amp; conduction disturbances, Aneurysms, Endocarditis, Heart failure, Cardio pulmonary resuscitation BCLS/ ACLS</p> <p>Management Modalities: Thrombolytic therapy, Pacemaker</p> <p>–temporary &amp; permanent, Percutaneous transluminal coronary angioplasty, Cardioversion, Intra Aortic Balloon pump monitoring, Defibrillations, Cardiac surgeries, Coronary Artery Bypass Grafts (CABG/MIDCAB), Valvular surgeries, Heart Transplantation, Autologous blood transfusion, Radiofrequency Catheter Ablation</p> <p><b>Respiratory System</b></p> <p>Acid-base balance &amp; imbalance</p> <p>Assesment : History &amp; Physical Examination</p> <p>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</p> <p>Causes, Pathophysiology, Clinical types, Clinical features, Prognosis, Management: Medical, Surgical and Nursing, management of Common pulmonary disorders:-</p> <p>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 (ARDS), Chest Trauma Haemothorax, Pneumothorax</p> <p>Management Modalities:-Airway Management</p>
		<p>61</p>



		<p>Ventilatory Management:-Invasive, non- invasive, long term mechanical ventilations</p> <p>Bronchial Hygiene:-Nebulization, deep breathing exercise, chest physiotherapy, postural drainage, Inter Costal Drainage, Thoracic, surgeries</p>
XIII	7 EF2	<p><b>Burns</b></p> <ul style="list-style-type: none"> <li>□ Clinical types, classification, pathophysiology, clinical features, assessment, diagnosis, prognosis, Management: Medical, Surgical and Nursing management of burns</li> <li>□ Fluid and electrolyte therapy – calculation of fluids and its administration</li> <li>□ Pain management</li> <li>□ Wound care</li> <li>□ Infection control</li> <li>□ Prevention and management of burn complications</li> <li>□ Grafts and flaps</li> <li>□ Reconstructive surgery</li> <li>□ Rehabilitation</li> </ul>
XIV	5 EF2	<p><b>Obstetrical Emergencies</b></p> <ul style="list-style-type: none"> <li>□ Causes, Pathophysiology, Clinical types, clinical features,diagnostic Prognosis, Management: Medical, Surgical and Nursing management of :Antepartum haemorrhage, Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, Post partum haemorrhage, Peurperal sepsis, Obstetrical shock</li> </ul>
XV	10 EF4	<p><b>Neonatal Paediatric emergencies</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, Clinical types, Clinical features,diagnostics, Prognosis , Management: medical, surgical and Nursing, management of <ul style="list-style-type: none"> <li>o Neonatal emergencies</li> </ul> </li> </ul> <p>Asphyxia Neonatarum, Pathological Jaundice in Neonates,</p>

<p><b>XVI</b></p>	<p><b>2</b></p>	<p>Neonatal seizures, Metabolic disorders, Intra cranial Hemorrhage, Neonatal Sepsis, RDS/HMD (Respiratory Distress Syndrome/Hyaline Membrane Disease), Congenital disorders:- o Cyanotic heart disease, tracheo oesophageal fistula, congenital hypertropic pyloric stenosis, imperforate anus o Pediatric emergencies Dehydration, Acute broncho pneumonia, Acute respiratory distress, syndrome, Poisoning, Foreign bodies, seizures, traumas, Status asthmaticus</p> <p><b>Legal and ethical issues in critical care-Nurse's role</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Brain death</li> <li><input type="checkbox"/> Organ donation &amp; Counselling</li> <li><input type="checkbox"/> Do Not Resuscitate(DNR)</li> <li><input type="checkbox"/> Euthanasia</li> <li><input type="checkbox"/> Living will</li> </ul> <p>Quality assurance</p>
<p><b>XVII</b></p>	<p><b>2</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Standards, Protocols, Policies, Procedures</li> <li><input type="checkbox"/> Infection control; Standard safety measures</li> <li><input type="checkbox"/> Nursing audit</li> <li><input type="checkbox"/> Staffing</li> <li><input type="checkbox"/> Design of ICU/CCU</li> </ul>
<p><b>Practical</b></p>		

**Total = 1450 Hours**

**1 Week = 48 Hours**

SL.NO	Dept/ Unit	No .of Weeks
1	Burns ICU	2
2	Medical I.C.U	6
3	Surgical I.C.U	12



4.	CCU	2
5	Emergency Department	3
6	Dialysis Unit	2
7	Transplant Room	2
8	Paediatric/NICU	1
	<b>Total</b>	<b>30</b>

### Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	50%
Written assignments	25%	Clinical assignments	25%
Seminars/Presentations	25%	Internal examination	25%
<b>Total</b>	<b>100%</b>	<b>TOTAL</b>	<b>100%</b>

### ESSENTIAL CRITICAL CARE NURSING SKILLS

#### I. Procedures to be observed

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

#### II. Procedures to be 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 to be Performed**

1. Airway management
  - a. Application of oropharyngeal airway
  - b. Oxygen therapy
  - c. CPAP (Continuous Positive Airway pressure)
  - d. Care of tracheostomy
  - e. Endotracheal extubation
2. Cardiopulmonary resuscitation, Basic cardiac life support, ECG
3. Monitoring of critically ill patients – clinically with monitors, capillary refill time (CRT) assessment of jaundice, ECG.
4. Gastric lavage
5. Assessment of critically ill patients  
 Identification & assessment of risk factors, Glasgow coma scale, and dolls eye movement, arterial pressure monitoring, cardiac output/pulmonary artery pressure monitoring, and detection of life threatening abnormalities
6. Admission & discharge of critically ill patients
7. Nutritional needs – gastrostomy feeds, pharyngeal feeds, jejunostomy feeds, TPN, formula preparation & patient education.
8. Assessment of patient for alteration in blood sugar levels monitoring blood sugar levels periodically & administering insulin periodically.
9. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, use of insulin syringes/ tuberculin, monitoring fluid therapy, blood administration.
10. Setting up dialysis machine and starting, monitoring and closing dialysis
11. Procedures for prevention of infections:  
 Hand washing, disinfection & sterilization surveillance, and fumigation universal

precautions.

12. Collection of specimen.

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

#### IV Other Procedures (If any):

#### Assignments

Nursing care study -2

Nursing care analysis -2

Nursing care plan based on theories -5

Clinical teaching -5

Design floor plan of critical care unit

Organise in service education programme for nurses.

#### REFERENCES

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- Tripathi K D, *Essential Medical Pharmacology* 6<sup>th</sup> edn, Jaypee.
- Mckenery & Salerno. *Mosby's Pharmacology in Nursing* 21<sup>st</sup> edn. Mosby.
- Marlow D R and Barbara A R. *Textbook of Pediatric Nursing* 6<sup>th</sup> edn. Elsevier.
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- Pillitteri, Adela *Maternal & Child Health Nursing*. 6<sup>th</sup> edn. Lippincott. Williams and Wilkins.
- Cunningham et al. *Williams Obstetrics* 23<sup>rd</sup> edn. M C Graw Hill.
- Ballantyne J C. *The Massachusetts General Hospital Hand Book of Pain Management* 3<sup>rd</sup> edn. Philadelphia: Lippincott Williams and Wilkins.
- Smeltzer , Suzanne.C \_Brunner and Suddarth's *Text book of Medical –surgical Nursing* .11<sup>th</sup> edn :Lippincott.
- Lewis. *Medical Surgical Nursing Assessment & Management of Problems*, 7<sup>th</sup> Edn. Mosby Publishers.

- National and international journals in nursing practice, nursing education, nursing research, critical care, cardiovascular and thoracic nursing, nursing management, continuing nursing education and nursing.

## CLINICAL SPECIALTY-II

### MEDICAL SURGICAL NURSING- ONCOLOGY NURSING

**Placement : II Year**

#### **Hours of Instruction**

Theory : 150 hours

Nursing Faculty:-125hrs

External Faculty:-25hrs

Practicals : 1450 hours

**Total : 1600 hours**

#### **Course Description**

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

#### **Objectives**

1. Explain the prevention, screening and early detection of cancer
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of oncological disorders of various body systems
3. Describe the psychosocial effects of cancer on patients and families.
4. Demonstrate skill in administering/assisting in various treatment modalities used for patients with cancer
5. Apply nursing process in providing holistic care to patients with cancer.
6. Apply specific concepts of pain management
7. Appreciate the care of death and dying patients and value of bereavement support.
8. Describe the philosophy, concept and various dimensions of palliative care.
9. Appreciate the role of alternative systems of medicine in care of cancer patients.
10. Appreciate the legal & ethical issues relevant to oncology nursing

11. Recognize and manage oncological emergencies
12. Counsel the patients with cancer and their families
13. Incorporate evidence based nursing practice and identify the areas of research in the field of oncology nursing
14. Recognize the role of oncology nurse practitioner as a member of oncology team.
15. Collaborate with other agencies and utilize resources in caring for cancer patients.
16. Teach and supervise nurses and allied health workers.
17. Design a layout and develop standards for management of oncology units/hospitals and nursing care.

### Content outline

UNIT	HOURS	CONTENT
<b>I</b>	<b>4</b>	<b>Introduction</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Epidemiology-Incidence, Prevalence – Global, National, State and Local</li> <li><input type="checkbox"/> Disease burden, concept of cancer, risk factors</li> <li><input type="checkbox"/> Historical perspectives</li> <li><input type="checkbox"/> Trends and issues</li> <li><input type="checkbox"/> Principles of cancer management</li> <li><input type="checkbox"/> Roles and responsibilities of oncology nurse</li> </ul>
<b>II</b>	<b>5</b> <b>EF5</b>	<b>The Nature of Cancer</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Normal cell biology</li> <li><input type="checkbox"/> The immune system</li> <li><input type="checkbox"/> Pathological and pathophysiological changes in tissues <ul style="list-style-type: none"> <li>o Biology of the cancer cell</li> <li>o Clone formation Transformation</li> <li>o Tumor stem lines</li> <li>o Structure of a solid tumor</li> <li>o Products produced by the tumor</li> <li>o Systemic effects of tumor growth</li> </ul> </li> </ul>
<b>111</b>	<b>4</b>	<b>Etiology of Cancer</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Carcinogenesis</li> <li><input type="checkbox"/> Theories of cancer causation</li> <li><input type="checkbox"/> Risk factors</li> <li><input type="checkbox"/> Carcinogens – genetic factors, chemical carcinogens, radiation, viruses, Immune system failure, rapid tissue</li> </ul>

<p style="text-align: center;"><b>IV</b></p>	<p style="text-align: center;"><b>10</b> <b>EF5</b></p>	<p style="text-align: center;">proliferation</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Hormone changes, diet, emotional factors.</li> </ul> <p><b>Diagnostic Evaluation</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Health assessment: History taking, physical examination,</li> <li><input type="checkbox"/> Staging and grading of tumors,</li> <li><input type="checkbox"/> TNM Classification</li> <li><input type="checkbox"/> Common diagnostic tests <ul style="list-style-type: none"> <li>o Blood investigation: Haemetological, Bio-chemical, Tumor markers, Hormonal assay</li> <li>o Cytology:Fine needle aspiration cytology(FNAC)</li> <li>o Histopathology: Biopsy</li> <li>o Radiological assessment: MRI, Ultrasound, Computed tomography, Mammography, Positron emission tomography(PET), Radio nuclide imaging, Functional metabolism imaging</li> <li>o Endoscopies</li> </ul> </li> </ul> <p>Nurses responsibilities in diagnostic measures</p>
<p style="text-align: center;"><b>V</b></p>	<p style="text-align: center;"><b>10</b></p>	<p><b>Levels of prevention and care</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer</li> <li><input type="checkbox"/> Self examination-Oral, Breast, Testicular</li> <li><input type="checkbox"/> Secondary prevention – early diagnosis.</li> <li><input type="checkbox"/> Screening</li> <li><input type="checkbox"/> Tertiary prevention – disability limitation,</li> <li><input type="checkbox"/> Rehabilitation :Mobility , Speech, Bowel and bladder, Ostomies etc , Patient and family education,</li> <li><input type="checkbox"/> Discharge instruction, follow-up care and use of community resources.</li> </ul>

VI	25 EF10	<p><b>Cancer Treatment Modalities and Nurse's Role</b></p> <p>□ <b>Surgery</b></p> <ul style="list-style-type: none"> <li>• Principles of surgical oncology</li> <li>• Current surgical strategy,</li> <li>• Determining surgical risk</li> <li>• Special surgical techniques</li> <li>• Pre-intra-postoperative nursing care</li> <li>• Acute and chronic surgical complications</li> <li>• Future directions and advances</li> </ul> <p><b>Chemotherapy</b></p> <ul style="list-style-type: none"> <li>• Principles and classification of chemotherapeutics</li> <li>• Pharmacology of antineoplastic drugs- Mechanism of action, absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity</li> <li>• Calculating drug doses,</li> <li>• Therapeutic response to chemotherapy-Tumor variables, drug resistance,</li> <li>• Safety precautions</li> </ul> <p><b>Radiation Therapy</b></p> <ul style="list-style-type: none"> <li>• Physics of radiotherapy</li> <li>• Types of ionizing rays</li> <li>• Radiation equipments:Linear accelerator,cobalt, Implants, Isotopes,</li> <li>• Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy</li> <li>• Effects of radiation on the body tissue,</li> <li>• Radiation biology – cell damage hypoxic cells, alteration of tumor kinetics.</li> <li>• Approaches to radiation therapy –</li> <li>• External radiotherapy</li> <li>• Internal radiotherapy – unsealed, Sealed sources.</li> </ul> <p>Effectiveness of radiotherapy-Radiosensitivity, treatment effects</p> <ul style="list-style-type: none"> <li>• Complications of radiotherapy</li> </ul>
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<p>VII</p>	<p>10</p>	<ul style="list-style-type: none"> <li>• Radiation safety: Standards of Bhabha Atomic Research Centre(BARC) <ul style="list-style-type: none"> <li>□ <b>Bone Marrow Transplantation/Stem Cell Transplantation</b> <ul style="list-style-type: none"> <li>□ Types, Indications, Transplantation procedure, complications and nursing management</li> <li>□ Types and donor sources</li> <li>□ Preparation and care of donor and recipient</li> <li>□ Bone marrow bank</li> <li>□ Legal and ethical issues</li> </ul> </li> <li>□ <b>Immunotherapy (Biotherapy)</b> <ul style="list-style-type: none"> <li>□ Concepts and Principles</li> <li>□ Classification of agents</li> <li>□ Treatment and applications</li> </ul> </li> <li>□ <b>Gene Therapy</b> <ul style="list-style-type: none"> <li>□ Current Concepts and practices</li> </ul> </li> <li>□ <b>Alternative and Complementary Therapies</b> <ul style="list-style-type: none"> <li>□ Current Practices</li> </ul> </li> </ul> </li> </ul> <p><b>Pain management:-</b></p> <ul style="list-style-type: none"> <li>• Theories, types and nature of cancer pain</li> <li>• Pathophysiology of pain</li> <li>• Pain threshold</li> </ul> <p><b>Assessment of pain</b></p> <ul style="list-style-type: none"> <li>• Principles of cancer pain control</li> <li>• Pharmacological: Opioid and non-opioid analgesic therapy</li> <li>• Patient controlled analgesia(PCA)</li> <li>• Other invasive techniques of pain control</li> <li>• Recent developments in cancer pain,</li> </ul> <p><b>Non- Pharmacological pain relief technique</b></p>
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VIII	5	<ul style="list-style-type: none"> <li>• Complementary therapies(Music, massage, meditation, relaxation techniques, biofeed back etc)</li> <li>• Psychological intervention in pain control</li> <li>• Alternative system of medicines</li> </ul> <p>Role of nurse</p> <p><b>Palliative care</b></p> <p>Definition and scope, philosophy</p> <p>Concept and elements of palliative care</p> <p>Global and Indian perspective of palliative care</p> <p>Quality of life issues</p> <p>Communication skill</p> <p>Nursing perspective of palliative care and its elements</p> <p>Home care</p> <p>Hospice care</p>
IX	2	<p>Role of nurse in palliative care</p> <p><b>Infection control.</b></p> <ul style="list-style-type: none"> <li>• Process of infection, risk of hospitalization, nosocomial infections- prevention and control of infection in acute, long term care facility and community based care</li> <li>• Standard safety measures</li> </ul>
X	30	<p><b>Nursing Care of Patients With Specific Malignant Disorders.</b></p> <ul style="list-style-type: none"> <li>☐ Malignancies of G.I. system-oral, oesophagus, stomach, rectal,liver&amp; pancreas, care of ostomies/stoma</li> <li>☐ Respiratory malignancies,</li> <li>☐ Genito urinary system malignancies- prostate Bladder, renal, testicular malignancies, Gynecological malignancies-cervix, uterus, ovary , Hematological malignancies-Lymphomas, Leukemias.</li> <li>☐ Malignancies of musculoskeletal system, Endocrine malignancies</li> <li>☐ Skin</li> </ul>

- Head and Neck -brain tumors,
- Other malignancies – Breast cancer, AIDS related Malignancies(Kaposi's Sarcoma)

**XI            10        Paediatric malignancies**

- Leukemia, Lymphoma, Neuro- blastoma
- Wilm's tumor, Soft tissue sarcoma, Retinoblastoma
- Nursing Management of children with Paediatric Malignancies

**XII            15        Nursing Management of Physiological Conditions and Symptoms of Cancer Patient**

- Nutrition: - effects of cancer on nutritional Status and its consequences:-Anemia, Cachexia, Xerostomia, mucositis, Dysphagia , nausea and vomiting, constipation, diarrhoea, electrolyte imbalances, taste alterations
- Impaired mobility: Decubitus ulcer, pathologic fractures, thrombophlebitis, pulmonary embolism, contractures, footdrop.

**Other symptoms**

- Dyspepsia & hiccup, dyspnoea
- intestinal obstruction,
- Fungating wounds,
- Anxiety & depression,
- Insomnia,  
Lymph edema

**Impact of cancer on sexuality:**

- Effects of radiotherapy/ chemotherapy/surgery on sexuality of the cancer patient.
- Nursing management of cancer patients experiencing sexual dysfunction
- Sexual counselling

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<p><b>XIII</b></p>	<p><b>10 Cancer Emergencies</b></p> <p><b>EF5</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Disseminated intravascular coagulation(DIC)</li> <li><input type="checkbox"/> Malignant pleural effusion</li> <li><input type="checkbox"/> Neoplastic cardiac tamponade and septic shock spinal cord compression</li> <li><input type="checkbox"/> Superior venacava syndrome</li> <li><input type="checkbox"/> Metabolic emergency: hyper and hypo calcemia.</li> <li><input type="checkbox"/> Surgical emergency</li> <li><input type="checkbox"/> Urological emergency</li> <li><input type="checkbox"/> Hemorrhage</li> <li><input type="checkbox"/> Organ obstruction</li> <li><input type="checkbox"/> Brain metastasis</li> </ul>
<p><b>XIV</b></p>	<p><b>8 Psycho-Social Aspects of Nursing Care</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Nurses role in managing oncologic emergencies</li> <li><input type="checkbox"/> Psychological responses of patients with cancer</li> <li><input type="checkbox"/> Psychosocial assessment –</li> <li><input type="checkbox"/> Crisis intervention, coping mechanisms</li> <li><input type="checkbox"/> Stress management, spiritual/cultural care and needs</li> <li><input type="checkbox"/> Counseling: individual and family</li> <li><input type="checkbox"/> Maximizing quality of life of patient and family</li> </ul>
<p><b>Ethical, moral and legal issues-</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> End of life care</li> <li><input type="checkbox"/> Grief and grieving process</li> <li><input type="checkbox"/> Bereavement support</li> <li><input type="checkbox"/> Care of Nurses who care for the dying.</li> </ul> <p><b>Layout and Design of an oncology institution/ ward, OPD,</b></p>	
<p><b>XV</b></p>	<p><b>2 chemotherapy unit, Bone marrow transplantation unit, Pain clinic etc</b></p> <p>Practice Standards of oncology nursing</p> <ul style="list-style-type: none"> <li>• Policies and Procedures</li> </ul> <p>Practice Standards of oncology nursing</p> <p>Establishing Standing orders and Protocols</p> <p><b>Quality Assurance Programme in oncology units</b></p> <p>Nursing audit</p>

## Clinical Experience

Total Hours-1450

1 Week= 48 hours

Sl.No	Dept./Unit	No. of weeks
1.	Medical oncology ward	6
2.	Surgical oncology ward	6
3.	Bone marrow transplant unit	2
4.	Operation theatre	2
5.	Radiotherapy unit	2
6.	Chemotherapy unit	4
7.	OPD and pain clinic	2
8.	Paediatric oncology ward	2
9.	Palliative care ward	2
10.	Community oncology	1
11.	Hospice	1
	<b>Total</b>	<b>30</b>

## Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	40%
Term paper - 1	25%	Clinical assignments	40%
Seminars/Presentations	25%	Internal examination	20%
<b>Total</b>	<b>100%</b>	<b>TOTAL</b>	<b>100%</b>

### **Procedures to be 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

### **Procedures to be 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 to be Performed**

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

### **Other procedures**

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

1. Alternative therapies

### **Assignments**

- Nursing care study -2
- Nursing care analysis -2
- Nursing care plan based on theories -5
- Clinical teaching -5
- Design floor plan of oncology unit

Organise in service education programme for nurses

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16. National and international journals in Nursing practice, Nursing education, nursing research, oncology, Nursing management, Continuing Nursing education and Nursing

## CLINICAL SPECIALTY – II

### MEDICAL SURGICAL NURSING- NEUROSCIENCES NURSING

**Placement : II Years**

**Hours of Instruction**

Theory – 150 Hours

Nursing Faculty:-110 hrs

External Faculty:-40hrs

Practical- 1450 Hours

**Total : 1600 Hours**

#### Course Description

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

#### Objectives

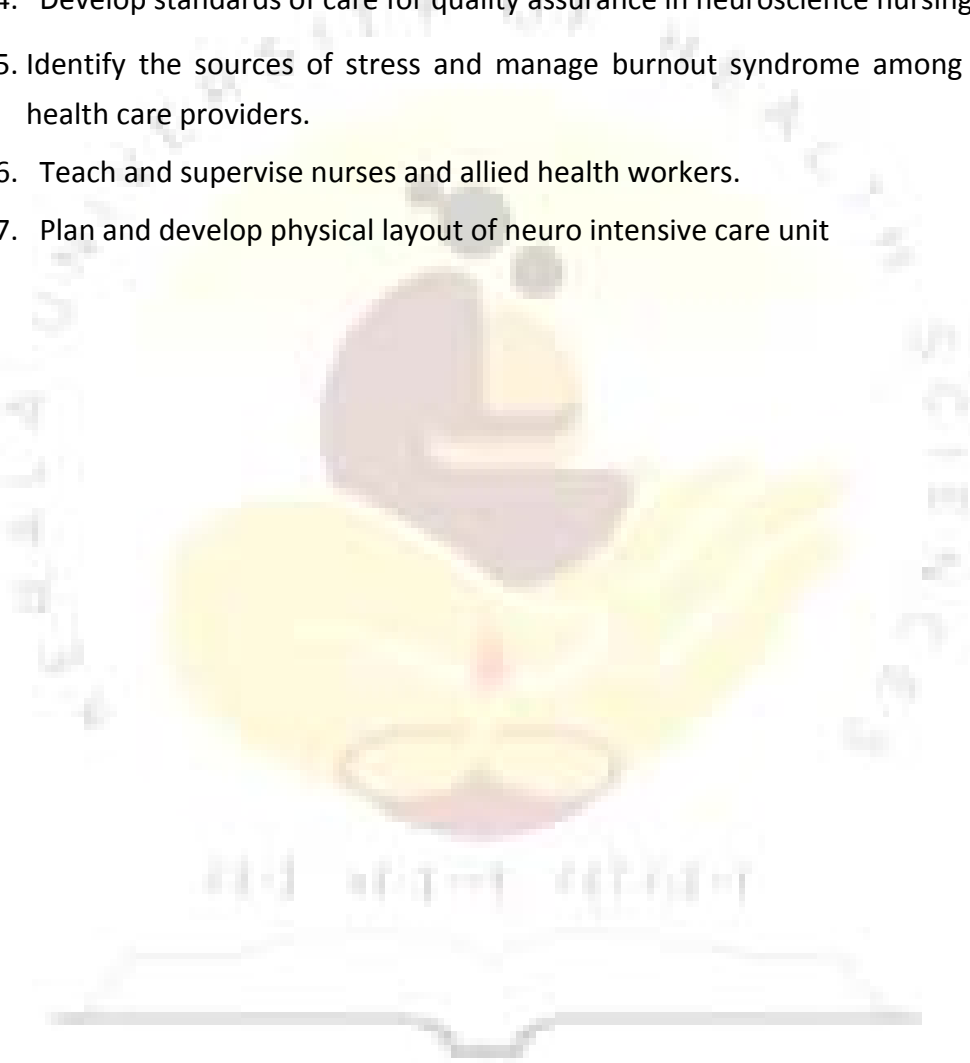
At the end of the course the students will be able to

1. Appreciate trends and issues related to Neurology and Neurosurgical Nursing.
2. Review the anatomy and physiology of Nervous system
3. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of patients with Neurological and Neurosurgical disorders
4. Perform Neurological assessment and assist in diagnostic procedures
5. Describe the concepts and principles of Neuroscience nursing
6. Describe the various drugs used in neurosciences and nurses responsibility
7. Assist in various therapeutic and surgical procedures in Neuroscience nursing.
8. Demonstrate advance skills/competence in managing patients with neurological and neurosurgical disorder following nursing process approach
9. Identify psychosocial problems of patients with disabilities and assist patients and their family to cope with emotional distress, spiritual, grief and anxiety
10. Participate in preventive, promotive and rehabilitative services for



neurological and neurosurgical patients.

11. Explain the legal and ethical issues related to brain death, organ transplantation and practice of neuroscience nursing
12. Incorporate evidence based nursing practice and identify the areas of research in the field of neuroscience nursing
13. Organise and conduct inservice education program for nursing personnel.
14. Develop standards of care for quality assurance in neuroscience nursing practice
15. Identify the sources of stress and manage burnout syndrome among health care providers.
16. Teach and supervise nurses and allied health workers.
17. Plan and develop physical layout of neuro intensive care unit



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

<p><b>IV</b></p>	<p><b>15</b> <b>EF4</b></p>	<p><b>Assessment and diagnostic measures</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Assessment</li> </ul>
		<ul style="list-style-type: none"> <li>• History taking</li> <li>• Physical assessment, psychosocial assessment</li> <li>• Neurological assessments, Glasgow coma scale interpretation&amp; its relevance to nursing.</li> <li>• Common assessment abnormalities</li> <li><input type="checkbox"/> Diagnostic measures</li> <li>• Cerebro spinal fluid analysis</li> <li>• Radiological studies-Skull and spine X-ray Cerebral Angiography, CT Scan, Single Photon Emission Computer Tomography(SPECT), MRI (Magnetic Resonance Imaging), MRA, MRS, Functional MRI, Myelography, PET (Positron Emission Test), Interventional radiology.</li> <li>• Electrographic studies- Electro encephalography, MEG, EMG ,video EEG</li> <li>• Nerve conduction studies-Evoked potentials, visual evoked potentials, brain stem auditory evoked potentials, somatosensory evoked potentials</li> <li>• Ultrasound studies-Carotid duplex, transcranial Doppler sonography,</li> <li>• Immunological studies</li> <li>• Biopsies – muscle, nerve and Brain.</li> </ul> <p>Interpretation of diagnostic measures Nurse’s role in diagnostic tests</p>
<p><b>V</b></p>	<p><b>5</b></p>	<p><b>Meeting Nutritional needs of neurological patients</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Basic nutritional requirements</li> <li><input type="checkbox"/> Metabolic changes following injury and starvation</li> <li><input type="checkbox"/> Nutritional assessment</li> <li><input type="checkbox"/> Common neurological problems that interfere with nutrition and strategies for meeting their nutritional needs</li> <li><input type="checkbox"/> Special metabolic and electrolyte imbalances</li> <li><input type="checkbox"/> Chronic fatigue syndrome</li> </ul>

<b>VI</b>	<b>5</b>	<b>Drugs used in neurological and neurosurgical disorders</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Classification</li> <li><input type="checkbox"/> Indications, contraindications, actions and effects, toxic effects</li> </ul> Role of nurse
<b>VII</b>	<b>10</b> <b>EF3</b>	<b>Traumatic conditions.</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> <li>• Review - Cranio cerebral injuries.</li> <li>• Review - Spinal &amp; Spinal cord injuries.</li> <li>• Peripheral nerve injuries.</li> <li>• Unconsciousness</li> </ul> </li> </ul>
<b>VIII</b>	<b>10</b> <b>EF3</b>	<b>Cerebro vascular disorders.</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> <li>• Review - Stroke</li> </ul> Arterio venous thrombosis. <ul style="list-style-type: none"> <li>• Arterio venous fistula.</li> <li>• Review - Brain tumours</li> </ul> </li> <li><input type="checkbox"/> Diseases of cranial nerves; Trigeminal neuralgia, Facial palsy, Bulbar palsy.</li> </ul>
<b>IX</b>	<b>10</b> <b>EF5</b>	<b>Degenerating and demyelinating disorders</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Causes, pathophysiology, Clinical types, Clinical features, diagnostics, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> <li>• Motor neuron diseases.</li> <li>• Movement disorders- Tics, dystonia, chorea, wilson’s disease,essential tremors</li> <li>• Review - Dementia.</li> <li>• Parkinson’s disease.</li> <li>• Multiple sclerosis.</li> <li>• Alzemier’s disease</li> </ul> </li> </ul>

<p><b>X</b></p>	<p><b>10</b> <b>EF5</b></p>	<p><b>Neuro infections</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, Clinical types, Clinical features, diagnostics, Prognosis , Management: medical, surgical and Nursing management of Neuro infections <ul style="list-style-type: none"> <li>• Meningitis-types</li> <li>• Encephalitis.</li> <li>• Poliomyelitis.</li> <li>• Parasitic infections.</li> <li>• Bacterial infections</li> <li>• Neurosyphilis.</li> <li>• HIV &amp; AIDS.</li> <li>• Brain abscess.</li> </ul> </li> </ul>
<p><b>XI</b></p>	<p><b>10</b> <b>EF2</b></p>	<p><b>Paroxysmal disorders.</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> <li>• Review - Epilepsy and seizures.</li> <li>• Status epilepticus.</li> <li>• Syncope.</li> <li>• Menier’s syndrome.</li> <li>• Cephalgia.</li> </ul> </li> </ul>
<p><b>XII</b></p>	<p><b>10</b> <b>EF5</b></p>	<p><b>Developmental disorders.</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, Clinical types, Clinical features, diagnostics, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> <li>• Hydrocephalus.</li> <li>• Craniosynostosis.</li> <li>• spina bifida- Meningocele, Meningomyelocele Encephalocele</li> <li>• syringomyelia.</li> <li>• Cerebro vascular system anomalies.</li> <li>• Cerebral palsies.</li> <li>• Down’s syndrome</li> </ul> </li> </ul>

<p><b>XIII</b></p>	<p><b>10</b> <b>EF5</b></p>	<p><b>Neuro muscular disorders.</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, Clinical types, Clinical features, diagnostics, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> <li>• Polyneuritis – G B Syndrome.</li> <li>• Muscular dystrophy.</li> <li>• Myasthenia gravis.</li> <li>• Trigeminal neuralgia.</li> <li>• Bell’s palsy.</li> <li>• Menier’s disease</li> <li>• Carpal tunnel syndrome</li> <li>• Peripheral neuropathies</li> </ul> </li> </ul>
<p><b>XIV</b></p>	<p><b>5</b> <b>EF2</b></p>	<p><b>Neoplasms – surgical conditions.</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, Clinical types, Clinical features, diagnostics, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> <li>• Space occupying lesions –types</li> <li>• Review - Common tumors of CNS</li> </ul> </li> </ul>
<p><b>XV</b></p>	<p><b>5</b></p>	<p><b>Other disorders</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, Clinical types, Clinical features, diagnostics, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> <li>□ Metabolic disorders- diabetes insipidus, metabolic Encephalopathy</li> <li>□ Sleep disorders</li> <li>□ Auto immune disorders- multiple sclerosis, inflammatory Myopathies</li> </ul> </li> </ul>
<p><b>XVI</b></p>	<p><b>10</b> <b>EF4</b></p>	<p><b>Neuro emergencies</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, Clinical types, Clinical features, diagnostics, Prognosis , Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> <li>• Increased intracranial pressure , Unconsciousness</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>• Herniation syndrome</li> <li>• Seizures</li> <li>• Severe head injuries</li> <li>• Spinal injuries</li> <li>• Cerebro vascular accidents</li> </ul>
<b>XVII</b>	<b>5</b> <b>EF2</b>	<p><b>Rehabilitation.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Concept and Principles of Rehabilitation.</li> <li><input type="checkbox"/> Factors affecting quality of life and coping</li> <li><input type="checkbox"/> Rehabilitation in acute care setting, and following stroke, head injury and degenerative disorders of brain</li> <li><input type="checkbox"/> Physiotherapy.</li> <li><input type="checkbox"/> Counselling</li> <li><input type="checkbox"/> Care giver's role</li> </ul> <p><b>Speech &amp; Language.</b> Neurogenic communication disorders, Speech Therapy</p>
<b>XVIII</b>	<b>5</b>	<p><b>Ethical and legal issues in neuroscience nursing</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Brain death and organ transplantation</li> <li><input type="checkbox"/> Euthanasia</li> <li><input type="checkbox"/> Negligence and malpractice</li> <li><input type="checkbox"/> Nosocomial infections</li> </ul>
<b>XIX</b>	<b>5</b>	<p><b>Quality assurance in neurological nursing practice</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Role of advance practitioner in neurological nursing</li> <li><input type="checkbox"/> Professional practice standards</li> <li><input type="checkbox"/> Quality control in neurologic nursing</li> <li><input type="checkbox"/> Nursing audit</li> <li><input type="checkbox"/> Neuro ICU <ul style="list-style-type: none"> <li>• Philosophy, aims and objectives</li> <li>• Policies, staffing pattern, design and physical plan of neuro ICU</li> <li>• Team approach, functions</li> <li>• Psychosocial aspects in relation to staff and clients of neuro ICU</li> </ul> </li> <li><input type="checkbox"/> In-service education.</li> </ul>

## Practical

Total =1450 Hours

1 Week = 48 Hours

SL.No	Dept/ Unit	Weeks
1.	O.P.D	1
2.	Casualty	2
3.	Diagnostics	1
4.	Neuro Psychiatry	2
5.	Pediatric Neuro ward	2
6.	Neuro Surgical Ward	3
7.	Head Injury Ward	3
8.	I.C.U Nero Medicine	4
9	I.C.U Nero Surgical	4
10	Neuro Medical Ward	4
11	Rehabilitation	2
12	OT	2
	<b>Total</b>	<b>30</b>

## Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	40%
Term paper - 1	25%	Clinical assignments	40%
Seminars/Presentations	25%	Internal examination	20%
<b>Total</b>	<b>100%</b>	<b>TOTAL</b>	<b>100%</b>



## **ESSENTIAL NEURO NURSING SKILLS**

### **I. Procedures to be 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

### **II. Procedures to be 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 to be 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 if any:**

**Assignments**

- Nursing care study -2
- Nursing care analysis -2
- Nursing care plan based on theories -5
- Clinical teaching -5
- Design floor plan of neurosurgery unit
- Organise in service education programme for nurses

**REFERENCES \*:-**

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- Nursing'.11<sup>th</sup>edn :Lippincott.
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- Joyce M Black. Medical Surgical Nursing-Clinical Management for positive outcomes, 7<sup>th</sup> Edn. Saunders, Missouri.
- National and international journals in Nursing practice, Nursing education, nursing research, neurosciences, Nursing management, Continuing Nursing education and Nursing



## CLINICAL SPECIALTY – II

### MEDICAL SURGICAL NURSING- NEPHRO-UROLOGY NURSING

#### Placement : II Year

#### Hour of Instruction

Theory : 150 Hours

Nursing Faculty:-105hrs

External Faculty:-45hrs

Practical : 1450 Hours

Total : 1600 Hours

#### Course Description

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

#### Objectives

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

1. Appreciate trends and issues related to nephro and urological nursing.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of nephro and urological conditions
3. Perform physical, psychosocial & spiritual assessment.
4. Assist in various diagnostic, therapeutic and surgical interventions.
5. Provide comprehensive nursing care to patients with nephro and urological conditions.
6. Describe the various drugs used in nephro and urological conditions and nurses responsibility.
7. Demonstrate skill in handling various equipments/gadgets used for patients with nephro and urological conditions.
8. Appreciate team work & coordinate activities related to patient care.

9. Practice infection control measures.
10. Identify emergencies and complications & take appropriate measures.
11. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs.
12. Discuss the legal and ethical issues in nephro and urological nursing
13. Identify the sources of stress and manage burnout syndrome among health care providers.
14. Appreciate the role of alternative system of medicine in the care of patient.
15. Incorporate evidence based nursing practice and identify the areas of research in the field of nephro and urological nursing.
16. Teach and supervise nurses and allied health workers.
17. Design a layout of kidney transplant unit and dialysis unit.
18. Develop standards of nephro urological nursing practice.

#### **COURSE CONTENT**

<b>Unit</b>	<b>Hours</b>	<b>Content</b>
<b>I</b>	<b>5</b>	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>□ Historical development: trends and issues in the field of nephro and urological nursing.</li> <li>□ Nephro and urological problems</li> <li>□ Concepts, principles &amp; nursing perspectives, Ethical and legal issues</li> <li>□ Evidence based nursing and its application in nephro &amp; urological nursing (to be incorporated in all the units)</li> </ul>
<b>II</b>	<b>5</b>	<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li>□ Major health problems- urinary dysfunction, urinary tract infections, Glomerular disorders, obstructive disorders and other urinary disorders.</li> <li>□ Risk factors associated with nephro and urological conditions - Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations.</li> </ul>

		<ul style="list-style-type: none"> <li>□ Health promotion, disease prevention, life style modification and its implications to nursing.</li> <li>□ Alternate system of medicine/complementary therapies</li> </ul>
<b>III</b>	<b>5</b>	<p><b>Review of anatomy and physiology of urinary system</b></p> <ul style="list-style-type: none"> <li>□ Embryology</li> <li>□ Structure and functions</li> <li>□ Renal circulation</li> <li>□ Physiology of urine formation</li> <li>□ Fluid and electrolyte balance</li> <li>□ Acid base balance</li> <li>□ Immunology specific to kidney</li> </ul>
<b>IV</b>	<b>20</b> <b>EF12</b>	<p><b>Assessment and diagnostic measures</b></p> <ul style="list-style-type: none"> <li>□ History taking</li> <li>□ Physical assessment, psychosocial assessment</li> <li>□ Common assessment abnormalities-dysuria, frequency, enuresis, urgency, hesitancy, hematuria, pain, retention, burning on urination, pneumaturia, incontinence, nocturia, polyuria, anuria, oliguria,</li> <li>□ Diagnostic tests-urine studies,blood chemistry, radiological procedures-KUB,IVP, CT scan nephrotomogram,retrograde pyelogram, renal arteriogram, renalultrasound, , MRI, cystogram, renal scan, biopsy, endoscopy-cystoscopy, urodynamics studies-cystometrogram, urinary flow study, sphincter electromyography, voiding pressure flow study, Video urodynamics, Whitaker study. Interpretation of diagnostic measures.</li> <li>□ Nurse's role in diagnostic tests.</li> </ul>
<b>V</b>	<b>5</b> <b>EF5</b>	<p><b>Renal immunopathy/Immunopathology</b></p> <ul style="list-style-type: none"> <li>□ General Concept of immunopathology.</li> <li>□ Immune mechanism of glomerular vascular disease.</li> <li>□ Role of mediator systems in glomerular vascular disease.</li> </ul>

<p><b>VI</b></p>	<p><b>20</b> <b>EF5</b></p>	<p><b>Urological Disorders and Nursing Management</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical &amp; nursing management of urological disorders</li> <li><input type="checkbox"/> Review - Urinary tract infections- pyelonephritis, lower urinary tract infections.</li> <li><input type="checkbox"/> Disorders for ureters, bladder and urethra.</li> <li><input type="checkbox"/> Urinary tract infections.</li> <li><input type="checkbox"/> Urinary dysfunctions- urinary retention, urinary incontinence, urinary reflux.</li> <li><input type="checkbox"/> Bladder disorders- neoplasms, calculi, neurogenic bladder, trauma, congenital abnormalities.</li> <li><input type="checkbox"/> Review - Benign prostrate hypertrophy(BPH).</li> <li><input type="checkbox"/> Ureteral disorders: ureteritis, ureteral trauma, congenital anomalies of ureters.</li> <li><input type="checkbox"/> Urethral disorders- tumours, trauma, congenital anomalies of ureters.</li> </ul>
<p><b>VII</b></p>	<p><b>25</b> <b>EF5</b></p>	<p><b>Glomerular disorders and nursing management</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of</li> <li><input type="checkbox"/> Review - Glomerulo nephritis- chronic, acute, nephrotic syndrome.</li> <li><input type="checkbox"/> Acute Renal failure and chronic renal failure.</li> <li><input type="checkbox"/> Renal calculi.</li> <li><input type="checkbox"/> Renal tumours- benign and malignant.</li> <li><input type="checkbox"/> Renal trauma.</li> <li><input type="checkbox"/> Renal abscess.</li> <li><input type="checkbox"/> Diabetic nephropathy.</li> <li><input type="checkbox"/> Vascular disorders.</li> <li><input type="checkbox"/> Renal tuberculosis.</li> <li><input type="checkbox"/> Polycystic.</li> <li><input type="checkbox"/> Congenital disorders.</li> <li><input type="checkbox"/> Hereditary renal disorders.</li> <li><input type="checkbox"/> Neurogenic bladder</li> </ul>
<p><b>VIII</b></p>	<p><b>10</b> <b>EF4</b></p>	<p><b>Management of Renal emergencies</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Anuria</li> <li><input type="checkbox"/> Acute Renal failure</li> <li><input type="checkbox"/> Poisoning</li> </ul>



		<ul style="list-style-type: none"> <li><input type="checkbox"/> Trauma</li> <li><input type="checkbox"/> Urine retention</li> <li><input type="checkbox"/> Acute graft rejection</li> <li><input type="checkbox"/> Hematuria</li> <li><input type="checkbox"/> Nurse's role</li> </ul>
<b>1X</b>	<b>10</b>	<b>Drugs used in urinary disorders</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Classification</li> <li><input type="checkbox"/> Indications, contraindications, actions &amp; effects, toxic effects</li> <li><input type="checkbox"/> Role of nurse.</li> </ul>
<b>X</b>	<b>10</b> <b>EF4</b>	<b>Dialysis</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Dialysis- Historical, types, Principles, goals <ul style="list-style-type: none"> <li>• Hemodialysis- vascular access sites- temporary and permanent</li> <li>• Peritoneal dialysis</li> </ul> </li> <li><input type="checkbox"/> Dialysis Procedures- steps, equipments, maintenance.</li> <li><input type="checkbox"/> Role of nurse – pre dialysis, intra and post dialysis,</li> <li><input type="checkbox"/> Complications</li> <li><input type="checkbox"/> Counseling</li> <li><input type="checkbox"/> Patient education</li> <li><input type="checkbox"/> Records and reports.</li> </ul>
<b>XI</b>	<b>10</b> <b>EF6</b>	<b>Kidney transplantation</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Nursing management of a patient with kidney transplantation</li> <li><input type="checkbox"/> Kidney transplantations- a historical review</li> <li><input type="checkbox"/> Immunology of graft rejections</li> <li><input type="checkbox"/> The recipient of a renal transplant</li> <li><input type="checkbox"/> Renal preservations.</li> <li><input type="checkbox"/> Human Leucocytic Antigen(HLA) typing matching and cross matching in renal transplantation</li> <li><input type="checkbox"/> Surgical techniques of renal transplantations.</li> <li><input type="checkbox"/> Chronic renal transplant rejection</li> <li><input type="checkbox"/> Complication after KTP: Vascular and lymphatic, Urological, cardiovascular, liver and neurological, infectious complication.</li> </ul>

		<ul style="list-style-type: none"> <li>□ KTP in children and management of pediatric patient with KTP</li> <li>□ KTP in developing countries</li> <li>□ Results of KTP</li> <li>□ Work up of donor and recipient for renal transplant</li> <li>□ Psychological aspect of KTP and organ donations</li> <li>□ Ethics in transplants, Cadaveric transplantation.</li> </ul>
<b>XII</b>	<b>5</b>	<b>Rehabilitation of patient with nephrological problems</b> <ul style="list-style-type: none"> <li>□ Risk factors and prevention.</li> <li>□ Rehabilitation of patients on dialysis and after kidney transplant</li> <li>□ Rehabilitation of patients after urinary diversions</li> <li>□ Family and patient teaching</li> </ul>
<b>XIII</b>	<b>10</b> <b>EF4</b>	<b>Pediatric urinary disorders</b> <ul style="list-style-type: none"> <li>□ 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, wilms tumour.</li> </ul>
<b>XIV</b>	<b>5</b>	<b>Critical care units- dialysis , KTP unit</b> <ul style="list-style-type: none"> <li>□ Philosophy, aims and objectives</li> <li>□ Policies, staffing pattern, design and physical plan of Dialysis and KTP units,</li> <li>□ Team approach, functions,</li> <li>□ Psychosocial aspects in relation to staff and clients of ICU, dialysis unit,</li> <li>□ In-service education,</li> <li>□ Ethical and legal issues.</li> </ul>
<b>XV</b>	<b>5</b>	<b>Quality assurance in nephrological nursing practice</b> <ul style="list-style-type: none"> <li>□ Role of advance practitioner in nephrological nursing.</li> <li>□ Professional practice standards</li> </ul>

- Quality control in nephrological nursing
- Nursing audit.

### Practicals

**Total = 1450 Hours**

**1 Week = 48 Hours**

SL.No	Dept/Unit	Weeks	Hours
1.	Nephrology Ward	6	288
2.	Pediatrics	2	96
3.	Critical Care Unit	2	96
4.	Urology Ward	6	288
5.	Dialysis Unit	4	192
6.	Kidney Transplantation Unit	2	96
7	Uro OT	2	96
8.	Emergency Wards	2	96
9	Uro/ Nephro OPDs	3	144
10	Diagnostic Labs	1	40
	<b>Total</b>	<b>30</b>	<b>1450</b>

### Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	40%
Term paper - 1	25%	Clinical assignments	40%
Seminars/Presentations	25%	Internal examination	20%
<b>Total</b>	<b>100%</b>	<b>TOTAL</b>	<b>100%</b>

## **Procedures to be observed**

### **I. Procedures Observed**

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

### **II. Procedures to be 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. Procedures to be 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, fumigation and universal precautions.
14. Collection of specimen.
15. Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, blood administration. Monitoring -fluid therapy, electrolyte imbalance.
16. Nutritional needs , diet therapy & patient education.
17. Counselling

#### **IV. OTHER PROCEDURES IF ANY:**

##### **Assignments**

- Nursing care study -2
- Nursing care analysis -2
- Nursing care plan based on theories -5
- Clinical teaching -5
- Design floor plan of transplantation unit
- Organise in service education programme for nurses

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- John.T.Daugirdas,Peter.G.Blake,Todd.S.Ing.*Handbook of Dialysis*, 1V<sup>th</sup> Edition.Lippincott Williams &Wilkins.
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- Krane ,Robert J., etal. *Operative Urology* .Newyork: Churchill Livingstone
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- Christopher.J.Lote.Principles of Renal Physiology.Kluwer Academic Publishers.
- Smeltzer ,Suzanne.C \_Brunner and Suddarth's Text book of Medical –surgical Nursing'.11<sup>th</sup>edn :Lippincott.
- Lewis. Medical Surgical Nursing Assessment & Management of Problems, 7<sup>th</sup> Edn. Mosby Publishers.
- Joyce M Black. Medical Surgical Nursing-Clinical Management for positive outcomes, 7<sup>th</sup> Edn. Saunders, Mssouri.
- National and international journals in Nursing practice, Nursing education, Nursing research, Nephro-urology, Nursing management, Continuing Nursing education and Nursing.

## CLINICAL SPECIALTY – II

### MEDICAL SURGICAL NURSING - ORTHOPEDIC NURSING

**Placement : II Year**

**Hours of Instruction**

Theory : 150 Hours

Nursing Faculty:- 110hrs

External Faculty:- 40hrs

Practical :1450 Hours

Total : 1600 Hours

#### **Course Description**

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

#### **Objectives**

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

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

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

### COURSE CONTENT

UNIT	HOURS	CONTENT
I	5	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>□ Historical perspectives – History and trends in orthopedic nursing</li> <li>□ Definition and scope of orthopedic nursing</li> <li>□ Anatomy and physiology of Musculo-skeletal system</li> </ul> <p>Posture, Body landmarks Skeletal system, Muscular system, Nervous system - Main nerves</p> <ul style="list-style-type: none"> <li>□ Healing of - Injury, bone injury, Repair of ligaments</li> </ul> <p>Systemic response to injury</p> <p>Ergonomics, Body mechanics, biomechanical measures</p> <p>Orthopedic team</p>
II	8 (EF2)	<p><b>Assessment of Orthopedic Patient</b></p> <ul style="list-style-type: none"> <li>□ Health Assessment: History, physical examination- inspection, palpation, movement, Measurement, muscle strength testing.</li> <li>□ Diagnostic studies – Radiological studies, Muscle enzymes, serologic studies.</li> </ul>
III	10 EF3	<p><b>Care of patients with devices</b></p> <ul style="list-style-type: none"> <li>□ Splints, braces, various types of plaster cast</li> <li>□ Various types of tractions,</li> <li>□ Various types of orthopedic beds and mattresses</li> </ul>



<p>IV</p> <p>15</p> <p>EF5</p> <p>of :</p>	<p>15</p> <p>EF5</p>	<ul style="list-style-type: none"> <li>□ Comfort devices</li> <li>□ Implants in orthopedics</li> <li>□ Prosthetics and Orthotics</li> </ul> <p><b>Injuries</b></p> <p><b>Trauma &amp; Injuries</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management</li> <li>• Early management of Trauma</li> <li>• Review - Fractures</li> <li>• Injuries of the Shoulder and arm, Elbow, fore arm, wrist, hand , Hip, thigh, knee, leg, ankle, foot, Spine.</li> <li>□ Review - Head injury</li> <li>□ Chest injury. <ul style="list-style-type: none"> <li>• Polytrauma</li> <li>• Nerve injuries</li> <li>• Vascular injuries</li> <li>• Soft tissue injuries</li> <li>• Sports injuries</li> <li>• Amputation</li> </ul> </li> </ul>
<p>V</p>	<p>8</p> <p>EF3</p>	<p><b>Infections of Bones and Joints</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical, surgical and nursing management of :</li> <li>• Tuberculosis</li> <li>• Osteomyelitis</li> <li>• Review - Arthritis</li> <li>• Leprosy</li> </ul>
<p>V1</p>	<p>5</p> <p>EF2</p>	<ul style="list-style-type: none"> <li>□ Causes, pathophysiology, clinical types, clinical features, diagnosis,</li> </ul> <p><b>Bone Tumours</b></p> <p>Prognosis, medical ,surgical and nursing management of:</p>

<p><b>VII</b></p>	<p><b>10</b></p> <p><b>EF5</b></p>	<ul style="list-style-type: none"> <li>• Bone tumors – Benign, Malignant and metastatic</li> <li>• Different types of therapies for tumors</li> </ul> <p><b>Deformities</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and nursing management of: Scoliosis, Kyphosis, Lordosis</li> <li>□ Congenital disorders: Congenital dislocation of hip (CDH), Dislocation of patella, knee.</li> <li>□ Varus and valgus deformities.</li> <li>□ Deformities of digits, Congenital torticollis</li> <li>□ Meningocele, meningocele, spina bifida</li> <li>□ Chromosomal disorders, Computer related deformities.</li> </ul>
<p><b>VIII</b></p>	<p><b>5</b></p> <p><b>EF2</b></p>	<p><b>Disorders of the spine</b></p> <ul style="list-style-type: none"> <li>□ Intervertebral disc prolapse, Fracture of the spine</li> <li>□ Low back disorder – Low back pain, PND, spinal stenosis, spondylosis</li> </ul>
<p><b>IX</b></p>	<p><b>5</b></p> <p><b>EF2</b></p>	<p><b>Nutritional/Metabolic and Endocrine Disorders</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of: <ul style="list-style-type: none"> <li>• Rickets,</li> <li>• Scurvy,</li> <li>• Hypervitaminosis A and D,</li> <li>• Review - Osteomalacia,</li> <li>• Review - Osteoporosis</li> <li>• Paget's disease,</li> <li>• Gout</li> <li>• Gigantism, Dwarfism, Acromegaly.</li> <li>• Therapeutic diets for various orthopedic disorders.</li> </ul> </li> </ul>
<p><b>X</b></p>	<p><b>8</b></p> <p><b>EF3</b></p>	<p><b>Neuro-Muscular Disorders:</b></p> <ul style="list-style-type: none"> <li>□ Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical, surgical and nursing management of: <ul style="list-style-type: none"> <li>• Poliomyelitis, Cerebral Palsy</li> <li>• Myasthenia gravis</li> </ul> </li> </ul>

- Spina bifida.
- Peripheral nerve lesion,
- Paraplegia, Hemiplegia, Quadriplegia.
- Muscular dystrophy

<b>XI</b>	<b>8</b>	<b>Chronic/Degenerative Diseases of Joints and Autoimmune Disorders:</b>
	<b>EF3</b>	<input type="checkbox"/> Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical, surgical and nursing management of: <ul style="list-style-type: none"> <li>• Osteo Arthritis</li> <li>• Rheumatoid Arthritis</li> <li>• Ankylosing spondylitis.</li> <li>• Spinal disorders.</li> <li>• Review - Systemic Lupus Erythematosus</li> </ul>
<b>XII</b>	<b>5</b>	<b>Orthopedic Disorders in Children:</b>
	<b>EF2</b>	<input type="checkbox"/> General and special consideration on pediatric Orthopedics <ul style="list-style-type: none"> <li><input type="checkbox"/> Genetic disorders</li> <li><input type="checkbox"/> Congenital anomalies</li> <li><input type="checkbox"/> Growth disorders</li> <li><input type="checkbox"/> Genetic counseling</li> </ul>
<b>XIII</b>	<b>5</b>	<b>Geriatric Problems</b>
		<input type="checkbox"/> Nurses role in genetic counseling <ul style="list-style-type: none"> <li><input type="checkbox"/> Geriatric population, types of disabilities, causes, treatment and management – Hospitalization, rest, physiotherapy, involvement of family members, social opportunities.</li> <li><input type="checkbox"/> Care at home – involvement of family and community, follow up care and rehabilitation</li> </ul>
<b>XIV</b>	<b>6</b>	<b>Pharmacokinetics</b>
		<input type="checkbox"/> Principles of drug administration <ul style="list-style-type: none"> <li><input type="checkbox"/> Analgesics and anti inflammatory agents</li> <li><input type="checkbox"/> Antibiotics, Antiseptics</li> <li><input type="checkbox"/> Drugs used in orthopedics&amp; neuromuscular disorders</li> <li><input type="checkbox"/> Blood and blood components</li> <li><input type="checkbox"/> Care of drugs and nurses ro</li> </ul>

XV 30  
EF8

### Nurses Role in Orthopedic Conditions

- 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 & disorders.
- Coping of individual & family with disabilities and disorders
- Maintaining sexuality
- Spirituality – A rehabilitative prospective

### Orthopedic Reconstructive Surgeries

- ▣ Replacement surgeries – Hip, Knee, Shoulder, Spine surgeries, Grafts & flaps surgery, Deformity correction.
- ▣ Concepts, Principles, purpose
  - 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

Physiotherapy



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

## Practicals

1. Clinical practice in Orthopedic, physiotherapy & 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 = 1450 Hours**

**1 Week =48 Hours**

SL.NO	Dept/ Unit	Weeks
1.	Orthopedic Ward	8
2	Orthopedic OT	4
3	Neuro Surgical Ward	2
4	Orthopedic O.P.D	2
5	Casualty/ Emergency/ Trauma	4
6	Rehabilitation Unit	2
7	Physiotherapy Unit	4
8	Pediatric/ pediatric Surgery Unit	2
9	Field Visit	2
	<b>Total</b>	<b>30</b>

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	40%
Term paper – 1	25%	Clinical assignments	40%
Seminars/Presentations	25%	Internal examination	20%
<b>Total</b>	<b>100%</b>	<b>TOTAL</b>	<b>100%</b>

### **Procedures to be 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. Fluoroscopy
8. Electromyography
9. Myelography
10. Discography
11. Others

### **Procedures to be 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, replanation, spinal decompression, transplantation of bone, muscle or articular cartilage, autografting, allografting.
6. Injection – Intra articular, intra osseous.
7. Advance Life Support

### **Procedures to be 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 if any.**

**Assignments**

- Nursing care study -2
- Nursing care analysis -2
- Nursing care plan based on theories -5
- Clinical teaching -5
- Design floor plan of orthopaedic unit
- Organise in service education programme for nurses

**REFERENCES:-**

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- Lewis. Medical Surgical Nursing Assessment & Management of Problems, 7<sup>th</sup> Edn. Mosby Publishers.
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- National and international journals in Nursing practice, Nursing education, nursing research, Orthopedic Nursing, Nursing management, Continuing Nursing education and Nursing



## CLINICAL SPECIALTY - II

### MEDICAL SURGICAL NURSING - GASTRO ENTEROLOGY NURSING

**Placement : II Year**

**Hours of Instruction**

Theory : 150 hrs.

Nursing Faculty:-120hrs

External Faculty:-30hrs

Practical : 1450 hrs.

Total : 1600 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 programmes for health promotion, prevention and rehabilitation of patients with gastrointestinal conditions.
4. Perform physical, psychosocial & spiritual assessment.
5. Assist in various diagnostic, therapeutic and surgical procedures.
6. Provide comprehensive care to patients with gastrointestinal conditions.
7. Describe the various drugs used in gastrointestinal conditions and nurses responsibility.
8. Demonstrate skill in handling various equipments/gadgets used for patients with gastrointestinal conditions.

9. Appreciate team work & coordinate activities related to patient care.
10. Practice infection control measures.
11. Identify emergencies and complications & take appropriate measures.
12. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs.
13. Discuss the legal and ethical issues in Gastro Enterology 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
<b>I</b>	<b>5</b>	<b>Introduction</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Historical development: trends and issues in the field of gastroenterology.</li> <li><input type="checkbox"/> Gastro enterological problems</li> <li><input type="checkbox"/> Concepts, principles and nursing perspectives</li> <li><input type="checkbox"/> Ethical and legal issues</li> <li><input type="checkbox"/> Evidence based nursing and its application in gastrointestinal nursing(to be incorporated in all the units)</li> </ul>
<b>II</b>	<b>5</b>	<b>Epidemiology</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Risk factors associated with GE conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations.</li> <li><input type="checkbox"/> Health promotion, disease prevention, life style modification and its implications to nursing.</li> <li><input type="checkbox"/> National health programmes related to gastro enterology.</li> <li><input type="checkbox"/> Alternate system of medicine/complementary therapies.</li> </ul>
<b>III</b>	<b>5</b>	<b>Review of anatomy and physiology of gastrointestinal system</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Gastrointestinal system</li> <li><input type="checkbox"/> Liver, biliary and pancreas</li> <li><input type="checkbox"/> Embryology of GI system</li> <li><input type="checkbox"/> Immunology specific to GI system.</li> </ul>

**IV 15 Assessment and diagnostic measures**

**EF5**

- History taking
- Physical assessment, psychosocial assessment
- Diagnostic tests
  - Radiological studies: Upper GIT- barium swallow, lower GIT- Barium enema,
  - Ultra sound:
  - Computed tomography
  - MRI
  - Cholangiography:
    - Percutaneous transhepatic Cholangiogram(PTC)
    - Magnetic Resonance Cholangio pancreatography (MRCP)
  - Nuclear imaging scans(scintigraphy)
  - Endoscopy
  - Colonoscopy
  - Proctosigmoidoscopy
  - Endoscopic Retrograde Cholangiopancreatography (ERCP)
  - Endoscopic ultrasound
  - Peritoneoscopy(Laproscopy)
  - 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 EF10	<p><b>Gastro intestinal disorders and nursing management</b></p> <ul style="list-style-type: none"> <li>□ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of <ul style="list-style-type: none"> <li>□ Disorders of the mouth: Dental caries, Peridontal disease, Acute tooth infection, Stomatitis, Thrush (moniliasis),Gingivitis, Leukoplakia, Inflammation of the parotid gland, Obstruction to the flow of saliva, Fracture of the jaw.</li> <li>□ Disorders of the oesophagus: Reflux oesophagitis, Oesophageal achalasia, Oesophageal varices, Hiatus hernia, Diverticulum.</li> <li>□ Disorders of the stomach and duodenum: Gastritis, Dumping of the stomach, Food poisoning, idiopathic gastroparesis, Aerophagia and belching syndrome, Ideopathic cyclic nausea and vomiting, Rumination syndrome, Functional dyspepsia, Chronic on specific (functional) abdominal pain. Review -Peptic ulcer</li> <li>□ Disorders of the small intestine <ul style="list-style-type: none"> <li>- Malabsorption syndrome – tropical sprue</li> <li>- Gluten – sensitive enteropathy (Coeliac disease)</li> <li>- Inflammatory diseases of intestines and abdomen,: appendicitis, Peritonitis, Abdominal TB, Gastrointestinal polyposis syndrome</li> <li>- Review - Chronic inflammatory bowel disease, Ulcerative colitis, crohn’s disease</li> <li>- Infestations and infections – Worm infestations, Typhoid, Leptospirosis</li> <li>- Solitary rectal ulcer syndrome</li> <li>- Alteration in bowel elimination (diarrhoea, constipation, fecal impaction, fecal incontinence, Irritable bowel syndrome, Chronic idiopathic</li> </ul> </li> </ul> </li> </ul>
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		<p>constipation, Functional diarrhea Review - Intestinal obstruction,</p> <p><b>Anorectal Conditions:</b> Hemorrhoids, Anal fissure, Anal fistula, Abscess, Strictures, Rectal prolapse, Pruritisani, Pilonidal disease, Anal condylomas, Warts</p>
<b>VI</b>	<b>15</b>	<p><b>Disorder of liver, pancreas gall bladder and nursing management</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Disorders of liver biliary tract</li> <li><input type="checkbox"/> Review - Viral Hepatitis – A, B, C, D &amp; E</li> <li><input type="checkbox"/> Toxic hepatitis <ul style="list-style-type: none"> <li>• Cirrhosis of liver, liver failure, Liver transplantation</li> <li>• Non cirrhotic portal fibrosis <ul style="list-style-type: none"> <li>• Liver abscess,;</li> </ul> </li> <li>• Parasitic and other cysts of the liver</li> </ul> </li> <li>• Disorders of the Gall Bladder and Bile Duct: <ul style="list-style-type: none"> <li>• Cholecystitis, Cholelithiasis and Choledocholithiasis</li> <li>• Disorders of the pancreas: Pancreatitis, Benign tumors of islet cells</li> <li>• Disorders of the Peritoneum. <ul style="list-style-type: none"> <li>- Infections of the peritoneum <ul style="list-style-type: none"> <li>- Surgical peritonitis</li> <li>- Spontaneous bacterial peritonitis</li> <li>- Tuberculosis peritonitis</li> </ul> </li> </ul> </li> <li>• Disorders of the Diaphragm. <ul style="list-style-type: none"> <li>- Diaphragmatic hernia</li> <li>- Congenital hernias</li> <li>- Paralysis of diaphragm</li> <li>- Tumors of the diaphragm</li> <li>- Hiccups</li> </ul> </li> </ul> </li> </ul>
<b>VII</b>	<b>15 EF5</b>	<p><b>Gastro intestinal emergencies and nursing interventions</b></p> <ul style="list-style-type: none"> <li>• Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of:</li> </ul>

		<ul style="list-style-type: none"> <li>• Esophageal varices</li> <li>• Ulcer perforation</li> <li>• Acute cholecystitis</li> <li>• Diverticulitis</li> <li>• Fulminant hepatic failure</li> <li>• Biliary obstruction</li> <li>• Bowel obstruction</li> <li>• Gastroenteritis</li> <li>• Intussusception</li> <li>• Acute intestinal obstruction, perforation</li> <li>• Review - Acute pancreatitis</li> <li>• Cirrhosis of liver complications</li> <li>• Liver , spleen, stomach pancreatic, mesenteric, bowel and greater vessel injuries</li> <li>• Acute appendicitis /peritonitis</li> <li>• Acute abdomen</li> <li>• Food poisoning</li> </ul>
VIII	15 EF5	<ul style="list-style-type: none"> <li>o <b>Congenital Anomalies of Esophagus</b> <ul style="list-style-type: none"> <li>• Esophageal atresia</li> <li>• Tracheoesophageal fistula</li> <li>• Esophageal stenosis</li> <li>• Esophageal duplications</li> <li>• Dysphagia – Lusoria – aberrant right subclavian artery compressing esophagus</li> <li>• Esophageal rings – schalzki ring</li> <li>• Esophageal webs</li> </ul> </li> <li>o <b>Congenital Anomalies of Stomach</b> <ul style="list-style-type: none"> <li>• Gastric atresia</li> <li>• Micro gastia</li> <li>• Gastric diverticulum</li> <li>• Gastric duplication</li> <li>• Gastric teratoma</li> <li>• Gastric volvulus</li> </ul> </li> </ul>



		<ul style="list-style-type: none"> <li>• Infantile hypertrophic pyloric stenosis</li> <li>• Adult hypertrophic pyloric stenosis</li> <li>o <b>Congenital Anomalies of Duodenum</b> <ul style="list-style-type: none"> <li>• Duodenal Atresia or stenosis</li> <li>• Annular pancreas</li> <li>• Duodenal duplication cysts</li> <li>• Malrotation and mid gut volvulus</li> </ul> </li> <li>o <b>Developmental anomalies of the intestine:</b> <ul style="list-style-type: none"> <li>• Abdominal wall defects (omphalocele and Gastroschisis)</li> </ul> </li> <li>• Meckel's diverticulum</li> <li>• Intestinal atresia</li> <li>o <b>Hirschsprung's disease</b></li> </ul>
<b>IX</b>	<b>15</b>	<b>Pharmacokinetics</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Drugs used in GIT</li> <li><input type="checkbox"/> Principles of administration</li> <li><input type="checkbox"/> Roles responsibilities of nurses</li> <li><input type="checkbox"/> Drugs in Peptic ulcer disease</li> <li><input type="checkbox"/> Proton Pump inhibitors</li> <li><input type="checkbox"/> H2 Receptor Antagonists</li> <li><input type="checkbox"/> Cytoprotective Agents</li> <li><input type="checkbox"/> Drugs used in Diarrhea</li> <li><input type="checkbox"/> Drugs used in constipation</li> <li><input type="checkbox"/> Drugs used in Inflammatory Bowel Disease,</li> <li><input type="checkbox"/> Aminosalicylates</li> <li><input type="checkbox"/> Corticosteroids</li> <li><input type="checkbox"/> Immunomodulators</li> <li><input type="checkbox"/> Chemotherapy</li> <li><input type="checkbox"/> Antibiotics</li> <li><input type="checkbox"/> Antiemetics</li> <li><input type="checkbox"/> Anticholinergics</li> <li><input type="checkbox"/> Antihistaminics , <input type="checkbox"/> Anthelminthics</li> <li><input type="checkbox"/> Vitamin Supplements.</li> </ul>
<b>X</b>	<b>10</b>	<b>Nutrition and nutritional problems related to GI system</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Nutritional assessment and nursing interventions</li> </ul>

		<ul style="list-style-type: none"> <li>□ Therapeutic diets</li> <li>□ Adverse reactions between drugs and various foods.</li> <li>□ Malnutrition- etiology , clinical manifestations and management</li> <li>□ Tube feeding, parenteral nutrition, total parenteral nutrition</li> <li>□ Obesity- etiology, clinical manifestations and management</li> <li>□ Eating disorders- anorexia nervosa, bulimia nervosa</li> <li>□ Recent advances in nutrition</li> </ul>
<b>XI</b>	<b>15</b> <b>EF5</b>	<p><b>Malignant disorders of gastro intestinal system</b></p> <ul style="list-style-type: none"> <li>o Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical, other modalities and nursing management of: <ul style="list-style-type: none"> <li>• Malignancy of oral cavity, Lip, Tongue, buccal mucosa, oropharynx, Salivary gland.</li> <li>• Esophageal , Gastric , Carcinoma of bowel - Small bowel, Colorectal and Anal carcinoma,</li> <li>• Liver, biliary tract and Pancreatic carcinoma</li> </ul> </li> </ul>
<b>XII</b>	<b>5</b>	<p><b>Administration and management of GE unit</b></p> <ul style="list-style-type: none"> <li>□ Design &amp; layout</li> <li>□ Staffing</li> <li>□ Equipment, supplies</li> <li>□ Infection control; Standard safety measures.</li> <li>□ Quality Assurance:-Nursing audit –records /reports, Norms, policies and protocols</li> <li>□ Practice standards.</li> </ul>
<b>XIII</b>	<b>5</b>	<p><b>Education and training in GE care</b></p> <ul style="list-style-type: none"> <li>o Staff orientation, training and development</li> <li>o In-service education program <ul style="list-style-type: none"> <li>• Clinical teaching programs.</li> </ul> </li> </ul>

**Practicals Total = 1450 Hours**

**1 Week =48 Hours**

SL. No	Dept/ Unit	No .of Weeks
1.	Diagnostic Lab	1
2.	Emergency & Casualty	2
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
	<b>Total</b>	<b>30</b>

### Internal Assessment

Theory weightage		Practical weightage	
Sessional exams -3	50%	Ongoing assessment	40%
Term paper - 1	25%	Clinical assignments	40%
Seminars/Presentations	25%	Internal examination	20%
<b>Total</b>	<b>100%</b>	<b>TOTAL</b>	<b>100%</b>

### Procedures to be assisted

1. Endoscopy room – Upper G.I. Endoscopy (Diagnostic and therapeutic).
2. Sigmoidoscopy
3. Colonoscopy
4. Polypectomy
5. Endoscopic retrograde cholangiopancreatography (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 to be performed

1. History and Physical assessment
2. RT intubation / extubation / aspiration/suction

3. Gastric lavage and gavage
4. Bowel wash
5. Therapeutic Diets
6. Ostomy feeding
7. Stoma care
8. Monitoring vital parameters
9. Plan of inservice education programme for nursing staff and Class-IV employees
10. Counseling

### Assignments

- Nursing care study -2
- Nursing care analysis -2
- Nursing care plan based on theories -5
- Clinical teaching -5
- Design floor plan of gastroenterology unit
- Organise in service education programme for nurses

### REFERENCES:-

- Sherlock Sheila . Diseases of liver and biliary system, 8<sup>th</sup>edn Blackwell Scientific Publications.
- Dr. Reddy. D .Nageshwar& Dr Rao G.V . Manual of therapeutic GI Endoscopy, Paras Medical Publishers.
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- Fauci.S . Anthony. —*Harrison's principles of Internal Medicine*||, 14<sup>th</sup>edn, Mc Grow Hill Health Professions Divisions Company.
- Reed . B. Joanne, Quick R.G. Clive and Burkitt George H —*Essential Surgery Problems, Diagnosis And Management*||, 4<sup>th</sup>edn, Churchill Livingstone Company
- Pounder R.E. —*Recent Advances in Gastroenterology*|| Churchill Livingstone Company
- Tandon B. N. — *Tropical Hepato Gastro enterology*|| Elsevier India Pvt Ltd
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- Feldman, M Friedman L ,Sleisinger,. M Sleisinginer&Fordtrans gastrointestinal and Liver disease: pathophysiology, Diagnosis and Management. Saunders.
- Caroll Lutz & Karen Pozytulski. Nutrition and Diet Therapy. Jaypee
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- Joyce M Black. Medical Surgical Nursing-Clinical Management for positive outcomes, 7th Edn. Saunders, Missouri.
- National and international journals in Nursing practice, Nursing education, nursing research, Gastroenterology, Nursing management, Continuing Nursing education and Nursing.



### **2.11 No: of hours per subject (lecture-tutorial-seminar-group discussion)**

As given under “Content of each subject in each year “

### **2.12 Practical training given in labs/supervision (No: of hours for each exercise/training)**

As given under “Content of each subject in each year “

### **2.13 Records**

Proper records of practical work should be meticulously maintained and duly signed by the supervising teacher should be submitted at the time of University practical examination

### **2.14 Dissertation: Guide/Co-Guide/ Change of Guide**

#### **Dissertation**

Every candidate pursuing M .Sc Nursing course is required to carry out work on a selected research project under the guidance of a recognized postgraduate teacher. The results of such a work shall be submitted in the form of a dissertation.

The dissertation is aimed to train a postgraduate student in research methods and techniques. It includes identification of problem, formulation of hypothesis, review of literature, getting acquainted with recent advances, designing of a research study, collection of data, critical analysis, and comparison of results and drawing conclusions.

Every candidate shall submit to the University in the prescribed format a synopsis containing particulars of proposed dissertation work after obtaining ethical clearance from the Institutional Ethical Committee comprising principal/ Senior Professor of College of Nursing, **within nine months from the date of commencement of the course on or before the dates notified by the University.**

The synopsis shall be sent through the proper channel.

Such proposal will be reviewed and the dissertation topic will be registered by the university. No change in the dissertation topic or Guide shall be made without prior approval of the University.

### Tentative Schedule for dissertation

S. No.	Activities	Scheduled Time
1	Submission of the research proposal	End of 9th month of 1st year
2	Submission of dissertation Final	End of 9th month of IIInd Year

1. The dissertation should be written under the following headings:
2. INTRODUCTION
3. REVIEW OF LITERATURE
4. METHODOLOGY
5. ANALYSIS & INTERPRETATION
6. RESULTS
7. DISCUSSION, SUMMARY AND CONCLUSION

REFERENCES

APPENDICES

**Dissertation style:** Vancouver style format is used.

The written text of dissertation shall be not less than 75 pages and shall not exceed 100 pages excluding references, questionnaires, and other annexures. It should be neatly typed (font size 12-Times New Roman) in double line spacing on one side of the bond paper (A4 size, 8.27 x 11.69”) and bound properly. Spiral binding should be avoided. The Guide and the Head of the Institution shall certify the dissertation. Checking of Plagiarism may be done as per university norms.

The scientific committee of the college should scrutinize and evaluate the thesis and make required corrections if necessary and accept with modification before submitting to the University.

Four copies of the dissertation prepared shall be submitted to the Principal of the institution for onward transmission to University on the 21<sup>st</sup> month of commencement of the course.

Hall ticket for the second year examination should be issued to the candidate only after the dissertation has been submitted to the University.

**Guidelines for submission of dissertation is given in Annexure**

### **Research Guides**

#### ***a) Qualification of Guide***

**Main guide:** Nursing faculty / nursing expert in the field of study holding Ph.D. /M.Phil/M.Sc. Nursing with a minimum of 3 years experience in teaching in the Post Graduate Programme in Nursing.

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

#### ***b) Guide – Students Ratio***

Maximum of 1:5 (including as co-guide)

**Change of Guide** –In the event of a registered guide leaving the college for any reason or in the event of death of Guide, Guide may be changed with prior permission from the University.

#### ***c) Research Committee***

There should be a research committee/scientific review committee in each college comprising of minimum 5 Post Graduate Faculty representing all specialty chaired by the Principal, College of Nursing.

### **2.15 Speciality training if any**

Nil

### **2.16 Project work to be done if any**

Clinical Assignments as given in “Content of each subject in each year “

### **2.17 Any other requirements [CNE, Paper Publishing etc.]**

As given under “Content of each subject in each year “

### **2.18 Prescribed/recommended textbooks for each subject**

As given under “Content of each subject in each year “

### **2.19 Reference books**

As given under “Content of each subject in each year “



## **2.20 Journals**

As given under “Content of each subject in each year “

## **2.21 Logbook**

Every candidate shall maintain a log book for recording performance of activities/ procedures/ attending/ organizing workshop/ conferences. The logbook shall be verified and certified by the Head of the Institution and presented in the University practical examination

## **3. EXAMINATIONS**

### **3.1. Eligibility to appear for exams [including Supplementary]**

#### **a). Attendance and Marks**

Candidate should have 80% attendance for both theory and practical, with minimum 50% of internal marks in each subject both in theory & practical. However 100% of attendance should be completed for practical before the award of degree. There is no provision for condonation of attendance for the PG candidates. The candidate shall submit dissertation before registering for the final year examinations.

#### **b). Examination fee**

The examination fee should be remitted for each examination appeared for. A fee as stipulated by the University should also be remitted for the evaluation of the dissertation.

#### **c). Log Book**

Every candidate shall maintain a log book for recording performance of activities/ procedures/ attending/ organizing workshop/ conferences. The logbook shall be verified and certified by the Head of the Institution and presented in the University practical examination.

### **3.2. Schedule of Regular/Supplementary exams**

Regular University Examination will be conducted at the end of each academic year and Supplementary examinations will be conducted within six months after the declaration of results of regular examinations

### 3.3. Scheme of examination showing maximum marks and minimum marks

1 <sup>st</sup> year	Theory					Practical					Total
	Hours	Internal Marks		External Marks		Hours	Internal Marks		External Marks		
		Maximum	Minimum	Maximum	Minimum		Maximum	Minimum	Maximum	Minimum	
Nursing Education	3	25	12.5	100	50		50	25	100	50	275
Advanced Nursing Practice	3	25	12.5	100	50						125
Nursing Research & Statistics	3	25**	12.5	100*	50						125
Medical Surgical Nursing- 1	3	25	12.5	100	50	4 hrs	100		100		325
											<b>850</b>
2 <sup>nd</sup> year	Hours	Internal Marks		External Marks		Hours	Internal Marks		External Marks		Total
		Maximum	Minimum	Maximum	Minimum		Maximum	Minimum	Maximum	Minimum	
Nursing Management	3	25	12.5	100	50						125
Dissertation Viva							100	50	100	50	200
Medical Surgical Nursing -11 [Cardio Vascular & Thoracic Nursing / Critical care Nursing/Oncology Nursing/Neurosciences Nursing/Nephro-Urology Nursing/ Orthopedic Nursing/ Gastro Enterology Nursing]	3	25	12.5	100	50	4 hrs	100	50	100	50	325
											<b>650</b>
<b>Total of Ist &amp; IInd Year</b>											<b>1500</b>

\* Nursing Research (External) =75Marks and Statistics (External) =25 Marks

\*\*Nursing Research (Internal) =15 and Statistics (Internal) =10



1. There shall be one regular & one supplementary examination every year.
2. Minimum pass marks shall be 50 % in each of the Theory and practical papers separately.
3. A candidate has to pass in theory and practical exam separately in each of the paper.
4. There is no provision for grace marks for pass in PG examination.
5. Maximum number of candidates for all practical examination should not exceed ten per day.
6. One internal and one external examiner should evaluate dissertation and jointly conduct viva-voce for each student.
7. For Dissertation internal examiner and external examiner should be a Nursing faculty / Nursing expert in the same clinical specialty holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years experience in guiding the research projects for Post Graduate students of Nursing.

#### **3.4. Papers in each year**

As given under “Scheme of examination showing Maximum and Minimum Marks “

#### **3.5. Details of theory exams**

As given under “Scheme of examination showing Maximum and Minimum Marks and 3.6

#### **3.6. Model question paper for each subject with question paper pattern**

##### **Question Paper Pattern**

<b>I) All subjects with Maximum Marks:100</b>		
<b>Long Essay</b>	<b>1x20 marks 1x15 marks</b>	<b>35 marks</b>
<b>Short Essay</b>	<b>4x10 marks</b>	<b>40marks</b>
<b>Short Notes</b>	<b>5x5 marks</b>	<b>25 marks</b>
<b>Total Marks</b>		<b>100 marks</b>

<b>II) Nursing Research</b> <b>Max.marks:75</b>		
<b>Long Essay</b>	<b>2x15 marks</b>	<b>30 marks</b>
<b>Short Essay</b>	<b>3x10 marks</b>	<b>30 marks</b>
<b>Short notes</b>	<b>3x 5 marks</b>	<b>15 marks</b>
<b>Total Marks</b>		<b>75 marks</b>
<b>III) Statistics : 25 marks</b>		
<b>Statistical Calculations</b>	<b>1x10 marks</b>	<b>10 marks</b>
<b>Short notes</b>	<b>3x5 marks</b>	<b>15 marks</b>
<b>Total Marks</b>		<b>25 marks</b>

QP Code:

Reg. No.:.....

**I YEAR M.SC (NURSING) DEGREE EXAMINATION**

**ADVANCED NURSING PRACTICE**

**Model question paper**

Time : Three hours

Maximum marks : 100 marks

***Answer all questions***

**Long Essays**

- I. a. Define the concept of health promotion
- b. Explain the major assumptions of Penders' Health promotion model.
- c. Describe the application of Health Promotion Model in the management of obesity among women in the reproductive age group.

*(2+8+10 = 20 marks)*

2. Mr. M is admitted in the surgical ward with hemorrhagic shock after a road traffic accident.

- a. Explain the pathophysiology of haemorrhagic shock
- b. Describe the management for this patient and prepare a care plan for 3 priority nursing diagnosis.

*(5+4+6=15marks)*

**Short Essays**

3. Describe the basic elements and explain the barriers of communication (10 marks)
4. Describe the challenges faced by the Health care delivery system in Kerala (10 marks)
5. Briefly explain the safe disposal of biomedical wastes (10 marks)
6. Explain the principles and techniques of counselling (10 marks)

Write short notes on (5x 5 = 25 marks)

7. Telemedicine
8. Use of computers in nursing practice
9. Haemodialysis
10. Metabolic acidosis
11. Genetic counseling

QP Code:

Reg. No.:.....

**FIRST YEAR M.Sc NURSING DEGREE EXAMINATION**

**NURSING RESEARCH & STATISTICS**

**MODEL QUESTION PAPER**

**Time: Three Hours. Maximum: 100 Marks**

**Answer Section A and B in separate answer books**

**SECTION A : NURSING RESEARCH**

Max. Marks : 75

1. Write a research proposal for a research problem 'quality of life of patients with AIDS'  
15
2. Describe observation as a method of data collection. 15
3. Explain the criteria for selection of a research problem. 10
4. Describe the methods of controlling extraneous variables. 10
5. Explain the different types of sampling. 10

Write Short notes on

6. Evidence based practice.
7. Grounded theory.
8. Purposes of literature review. (3x5=15)

**Section B: statistics**

9. Which is the appropriate statistical test to conclude the data given below; growth status and exposure to infection are associated. Conduct the statistical test and arrive your conclusion about data. P value at 5% level significance is 3.84

Growth status	infected	Non infected	Total
good	80	90	170
poor	240	110	350
total	320	300	620

10

SHORT NOTES

10. Properties of normal distribution.

11. Describe different methods of dispersion with merits and demerits

12. Reliability

3x 5 =15

QP Code:

Reg. No.:.....

**First Year MSc Nursing Degree Examinations**

**NURSING EDUCATION**

**Model question paper**

Time : 3 hrs

Max.marks:100

Answer All Questions

Long Essays

1. Explain the current trends in nursing education in India. (20)
2. Prepare the philosophy for a newly started college of nursing (15)

Short Essays

3. Plan a counselling session for nursing students. (10)
4. Describe the role of teachers in the development of pupil in nursing (10)
5. Describe the importance of non –projected aids in nursing education (10)
6. Describe the importance of questioning in education. (10)

WRITE SHORT NOTES

7. Aims of education.
8. Characteristics of an evaluation tool
9. Micro teaching
10. Objective structural practical examination
11. Formative and summative evaluation ( 5x5=25)



QP Code:

Reg. No.:.....

**I YEAR M.SC (NURSING) DEGREE EXAMINATION  
MEDICAL SURGICAL NURSING – I**

**Model question paper**

Time : Three hours

Maximum marks : 100 marks

Answer all questions

Long Essays

1. a. Describe the pathophysiology of cirrhosis of liver.
- b. List the complications and plan the nursing care of a patient with hepatic failure secondary to cirrhosis

(8+4+8=20marks)

- 2.. Mr. X ,36 years is admitted with chest pain and is diagnosed as having Inferior wall Myocardial Infarction.

- a. What are the complications of inferior wall myocardial infarction?
- b . How will you manage the pain of acute myocardial infarction?

(8+7=15marks)

Short Essays

3. Mr. Y, 26 years is admitted with Acute Respiratory Distress Syndrome (ARDS)  
Describe the pathophysiology of ARDS (10)
4. Explain the management of abdominal trauma (10)
5. Describe the assessment findings in a patient with chronic renal failure. (10)
6. Explain the medical management of a patient with tuberculosis (10)

Write short notes on the following:

( 5x 5 = 25 marks)

7. Status epilepticus
8. Glaucoma
9. Psoriasis
10. Challenges of geriatric nursing
11. poisoning

QP Code:

Reg. No.:.....

**Second Year M.Sc Nursing Degree Examinations**

**(Model Question Paper)**

**NURSING MANAGEMENT**

**Time: 3 hrs Max. Marks: 100**

***Answer all questions***

Time: 3 hrs

Max. marks: 100

Answer all questions.

Long Essays

1. Explain the principles of management with suitable examples. (20)
2. Prepare an evaluation tool for performance appraisal of staff nurses. (15)

Short Essays

3. Explain the utilization of theories of management in nursing service with suitable examples. (10)
4. Explain the role of nurse administrator in supervision. (10)
5. Explain the challenges and current trends in nursing administration. (10)
6. Describe the steps of material management. (10)

Write short notes (5x5=25)

7. Collective bargaining
8. Nurses role in occupational health and safety.
9. Legal issues in nursing
10. Quality circle
11. Conflict management

QP Code:

Reg. No.:.....

**Second Year M.Sc Nursing Degree Examinations  
(Model Question Paper)**

**Clinical Speciality II Medical Surgical Nursing  
Subspecialty: Cardiovascular and thoracic nursing**

Time: 3 hrs Max.Marks:100

- Answer all questions

Long Essays

1. Explain the pathophysiology of Acute Myocardial Infarction. Describe the nursing care of a patient with Acute Myocardial Infarction treated with fibrinolytic therapy, for the first 48hrs. (8+12=20)
- 2 Explain the risk factors of hypertension. Describe the lifestyle modification to be followed by a person diagnosed to have hypertension. (8+7=15)

Short Essays

3. Explain the management of a patient with acute respiratory failure (10)
4. Explain the management of patients with bronchial asthma (10)
5. Explain the nurse's role in designing an Intensive Care Thoracic Unit with 10 beds. (10)
6. Prepare a health education plan for a patient undergone permanent pacemaker implantation (10)

**Short notes:**

**(5x5=20)**

7. ECG changes in conduction abnormalities
8. Pulmonary edema
9. Venous leg ulcers
10. Calcium channel blockers
11. Cardiac rehabilitation.

\*\*\*\*\*

QP Code:

Reg. No.:.....

Second Year M.Sc Nursing Degree Examinations

(Model Question Paper)

Clinical Speciality II Medical Surgical Nursing

Subspecialty: Critical Care Nursing

Time: 3 hrs

Max.Marks:100

Answer all questions

Long Essays

1. Explain the pathophysiology and medical and nursing management of a patient with acute intestinal obstruction

(5+8+7=20)

2. Explain the complications and the post operative care of a patient undergone renal transplantation for the first 48hrs of surgery.

(5+10=15)

Short Essays

3. Explain the acute management of a patient with spinal cord injury at C4 level.(10)

4. Describe the management of intracranial hypertension

(10)

5. Explain the patho physiology and the nursing management of a patient with asthma (10)

6. Explain the post operative care of a patient undergone valve replacement surgery with emphasis on immediate and long term management (10)

**Short notes:**

(5x5=25)

7. Asphyxia neonatorum

8. Euthanasia

9. Psychosocial problems of the critically ill person

10. Theories of pain

11. Nutritional management of a critically ill patient

\*\*\*\*\*

QP Code:

Reg. No.:.....

**Second Year M.Sc Nursing Degree Examinations  
(Model Question Paper)**

**Clinical Speciality II Medical Surgical Nursing  
Subspecialty: Oncology Nursing**

Time: 3 hrs

Max. Marks: 100

- Answer all questions

Long Essays

1. Explain the nurse's role in the prevention and management of neoplastic cardiac tamponade and spinal cord compression.

(10+10=20)

2. Explain the medical and nursing management of a child with leukemia

(7+8=15)

Short Essays

3. Describe the manifestations of stomach cancer. Explain the treatment modalities in Ca Stomach.

(4+6=10)

4. Describe the concept and elements of a palliative care. (10)

5. What nursing interventions are helpful to minimize complication of head and neck radiation?

(10)

6. Explain the nurse's role in primary prevention of cancer. (10)

**Write Short notes:**

**(5x5=25)**

7. Carcinogens

8. Tumor markers

9. Side effects of Chemotherapy.

10. Radiation equipments

11. Biological therapy in cancer treatment.

QP Code:

Reg. No.:.....

**Second Year M.Sc Nursing Degree Examinations  
(Model Question Paper)  
Clinical Speciality II Medical Surgical Nursing  
Subspecialty: Neurosciences Nursing**

Time: 3 hrs

Max. Marks: 100

- Answer all questions

**Long Essays**

1. List the causes of encephalitis. Explain the patho physiology and nursing management of a patient with encephalitis during the acute stage.

(3+7+10=20)

2. Enumerate the signs and symptoms of spinal cord injury at 6th cervical vertebrae. Explain the emergency management of a patient with acute spinal cord injury

(7+8=15)

**Short Essays**

3. Describe the types and CSF findings in meningitis.

(10)

4. After a car accident, Mr. X, 28 years is admitted in the casualty in an unconscious stage. Explain the causes and immediate management in casualty.

(10)

5. Describe the types of neurogenic bladder. Plan a rehabilitation programme for a patient with neurogenic bladder (10)

6. Explain the role of nurse specialist in designing and staffing of Neuro ICU. (10)

**Short notes:**

(5x5=25)

7. Wilson's disease

8. Rehabilitation of patient with CVA

9. Monro-Kelly hypothesis

10. Digital subtraction angiography

11. Carpel Tunnel Syndrome

\*\*\*\*\*

QP Code:

Reg. No.:.....

**Second Year M.Sc Nursing Degree Examinations**

**(Model Question Paper)**

**Clinical Speciality II Medical Surgical Nursing**

**Subspecialty: Nephro-Urology Nursing**

Time: 3 hrs

Max. Marks: 100

Answer all questions

**Long Essays**

1. Explain the preparation of a patient for renal transplantation. List the complications of kidney transplantation. Outline the nursing management for the first 48 hours

(5+5+10=20)

2. Explain the pathophysiology of Chronic Renal Failure. Prepare a plan for rehabilitation of patient with Chronic Renal Failure

(8+7=15)

**Short Essays**

3. Explain the nursing management of a patient undergoing Haemodialysis.

(10)

4. Explain the role of advance practitioner in nephrological nursing for quality assurance in the department. (10)

5. Explain the role of nurse specialist in designing and staffing of Kidney Transplantation Unit. (10)

6. Classify renal calculi. Describe the primary prevention measures of renal calculi (10)

**Write short notes:**

(5x5=25)

7. Risk factors associated with peritoneal dialysis

8. Management of Wilm's tumour

9. Bladder neoplasm

10. Urinary diversions

11. Proteinuria in nephrotic syndrome

QP Code:

Reg. No.:.....

**Second Year M.Sc Nursing Degree Examinations  
(Model Question Paper)**

**Clinical Speciality II Medical Surgical Nursing  
Subspecialty: Orthopedic Nursing**

Time: 3 hrs Max. Marks: 100

•Answer all questions

**Long Essays**

1. Explain the pathophysiology of osteoarthritis. Describe the management. (10+10=20)
2. Explain the pathophysiology and the treatment options for fracture femur (8+7 =15)

**Short Essays**

3. Write the medical and nursing management of patient with Myasthenia Gravis. (10)
4. Explain the role of nurse specialist in designing and staffing of Orthopedic Unit. (10)
5. Rehabilitation of a patient undergone above Knee amputation. (10)
6. Explain the postoperative management of a patient undergone Hip replacement surgery (10)

**Short notes:**

**(5x5=25)**

7. Paget's disease
8. Spinal stenosis
9. Osteomyelitis
10. Care of Patient on plaster cast
11. Osteoporosis

\*\*\*\*\*



QP Code:

Reg. No.:.....

Second Year

M.Sc Nursing Degree Examinations

(Model Question Paper)

Clinical Speciality II Medical Surgical Nursing

Subspecialty: Gastroenterology Nursing

Time: 3 hrs Max. Marks: 100

Answer all questions

Long Essays

1. Explain the pathophysiology, Clinical manifestations and management of intestinal obstruction.

(6+6+8=20)

2. Explain the causes and management of peptic ulcer

(7+8=15)

Short Essays

3. Describe the surgical management of cholecystitis. Explain the nursing management of a patient for the first 48 hrs of surgery (10)

4. Describe the diagnostic tests and the various management modalities of colorectal cancer.

(10)

5. Explain the role of nurse specialist in designing and staffing of Gastroenerology Unit. (10)

6. Explain the complications of cirrhosis of liver based on pathophysiology and plan a discharge plan for a patient with cirrhosis of liver (10)

**Write short notes:** (5x5=20)

7. Cholangiography

8. Celiac disease

9. Diaphragmatic hernia

10. Biliary obstruction

11. Peritonitis.

\*\*\*\*\*

### **3.7. Internal assessment component**

- a) There shall be a minimum of 3 periodic assessments, for theory and practical including viva separately, of which the final one will be University model examination and is mandatory.
- b) Average of the marks of the best two periodic assessments shall be taken as internal assessment mark of the candidate. Marks of evaluation by other methods like assignments, seminars, projects etc. can be added to the internal marks.
- c) The class average of internal assessments mark of theory and practical should not exceed 75% of Maximum marks.
- d) The class average of internal assessment for an examination shall be calculated based on the total number of candidates in a particular batch appearing for that internal assessment examination.
- e) The candidate must secure 50% marks for internal assessment in theory and practical including viva separately in a particular subject in order to be eligible to appear in the university examination of the subject.
- f) In cases where the candidate is permitted to improve the internal assessment marks, the new marks will be taken as final.
- g) The internal marks shall be signed by the candidate before transmission to the University

### **3.8. Details of practical/clinical practicum exams**

- ☐ 4 hours of practical examination per student.
- ☐ Maximum number of 10 students per day per specialty.
- ☐ The examination should be held in concerned clinical area for clinical specialties. Facility for observation of all candidates at a time in the same ward / clinical area by the examiners during practical examinations is mandatory.
- ☐ One internal and external examiner should jointly conduct practical examination and viva voce separately for each student.
- ☐ Follow the evaluation guidelines for the conduct of practical examinations Refer 2.2.10 & annexure for guidelines.

### **3.9. Number of examiners needed (Internal & External) and their qualifications**

- ☐ One internal and external examiner should jointly conduct practical examination and viva voce separately for each student.

**Examiner – Nursing faculty teaching respective specialty area/subjects in M.Sc nursing programme with minimum 3 years post graduate teaching experience.**

The examiners should do evaluation of dissertation prior to viva.

### **3.10. Details of viva: division of marks**

**Duration:** Viva-Voce -minimum 30 minutes per student.

## **4. INTERNSHIP**

### **4.1. Eligibility for internship**

Not applicable.

### **4.2. Details of internship**

Not applicable.

### **4.3. Model of Internship Mark lists**

Not applicable.

### **4.4. Extension rules**

As given under “Leave , Vacation/ holidays permitted “

### **4.5. Details of training given**

As given under “Content of each subject in each year “

## **5. ANNEXURES**

### **5.1 Check Lists for Monitoring: Log Book, Seminar, Assessment etc.**

As given under clause “Content of each subject in each year”

### **5.2. Template for Dissertation**

## GUIDELINES FOR WRITING DISSERTATION

Title (Capital)

Emblem (University)

Students' name (Capital)

Name of the college

DISSERTATION SUBMITTED IN PARTIAL FULFILLMENT

OF THE REQUIREMENTS FOR THE DEGREE OF

MASTER OF SCIENCE IN NURSING

KERALA UNIVERSITY OF HEALTH SCIENCES

Year

.....Title.....

By

Name of the Candidate

Dissertation submitted to the  
Kerala University of Health Sciences

Thrissur

In partial fulfilment of the requirements for the degree of

Degree Name

in

Subject Name

Under the guidance of

Name of the Guide

Name of the Department

Name of the college

Place

Year



DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled  
“.....Title.....” is a bonafide and genuine research work carried out by  
me under the guidance of Name & designation of the Guide.

Signature of the candidate

Date:

Place:

CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled“.....  
Title.....”is a bonafide research work done by **Name of the Candidate** in partial  
fulfilment of the requirement for **the degree of degree Name.**

Signature of the Guide

Name and designation

Date:

Place:

ENDORSEMENT BY THE HEAD OF THE INSTITUTION

This is to certify that the dissertation entitled“.....Title  
.....”is a bonafide research work done by **Name of the Candidate** in partial  
fulfilment of the requirement for **the degree of degree Name.**

Signature of the Principal

Name and designation

Date:

Place:

(College seal)



COPY RIGHT

DECLARATION BY THE CANDIDATE

I hereby declare that the Kerala University of Health Sciences, Kerala shall have  
The rights to preserve, use and disseminate this dissertation in print or electronic  
Format for academic/ research purpose.

Signature of the candidate

Date:

Place:

Name

ACKNOWLEDGEMENT

Not lengthy, Avoid Superlatives

Signature of the candidate

Date:

Place:

Name



## ABSTRACT

(Includes problem and objectives, methodology, results, interpretation and conclusion

In a single paragraph limited to 250-300 words)

Keywords

(Max.10)

Keywords shall be chosen from Nursing Subject Headings

(Each key word should be separated by semicolon)

## TABLE OFCONTENTS

List of tables

List of figures /Graphics

Chapters	Titles	PageNo.
1.	INTRODUCTION	
2.	REVIEWOFLITERATURE	
3.	METHODOLOGY	
4.	ANALYSIS&INTERPRETATION	
5.	RESULTS	
6.	DISCUSSION, SUMMARY AND CONCLUSION	
	REFERENCES	
	APPENDICES	

LIST OF TABLES (14size,Bold)

Sl.No.	Title	PageNo.
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1.

2.

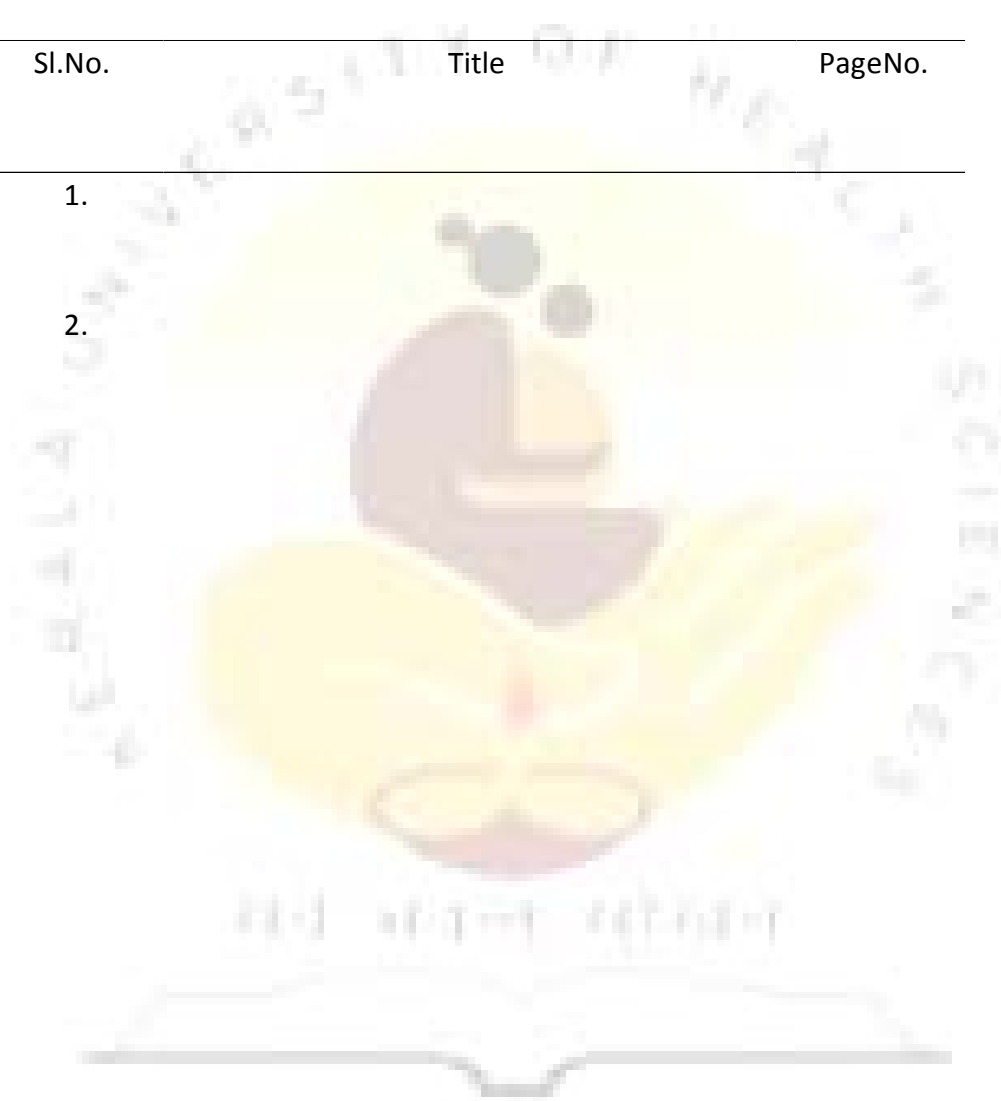


LIST OF FIGURES (14size,Bold)

Sl.No.	Title	PageNo.
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1.

2.



LIST OF APPENDICES (14size, Bold)

Sl.No.	Title	PageNo.
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A.

B.

C.

D.



## CHAPTER 1

### INTRODUCTION (14size,Bold)

Sub headings (12size,bold)

Background of the problem

Need and significance of the study

Statement of the problem

Objectives

Operational definitions

Assumptions (if any)

Hypothesis (Write research hypothesis)

Conceptual/theoretical framework



CHAPTER 2 (14size, bold )

REVIEW OF LITERATURE

Sub heading of the literature reviewed (12size, bold)



Summary (of reviewed literature at the end)

## CHAPTER 3 (14size,bold)

### METHODOLOGY

Research approach

Research design

Variables

Schematic representation of the study

Setting of the study

Population

Sample and sampling technique

Inclusion criteria

Exclusion criteria

Tool/Instruments

Development/selection of the tool

Description of the tool

Content validity

Reliability of the tool

Pilot study

Data collection process

Plan for data analysis

CHAPTER 4 (14size, bold)

ANALYSIS AND INTERPRETATION

Section title

(Section wise presentation of data)



CHAPTER 5 (14size,bold

RESULTS

Objectives

Hypotheses

Results



CHAPTER 6 (14size,bold)

DISCUSSION, SUMMARY AND CONCLUSION

Discussion

Summary

Conclusion

Nursing Implications

Limitations

Recommendations

## **Abstract**

Abstract provides a brief summary of the dissertation/thesis, summing up clearly the problem examined, the methods used and the main findings. The abstract is a one-paragraph, self-contained summary of the most important elements of the paper. The abstract word limit is between 250 and 300 words. All numbers in the abstract (except those beginning a sentence) should be typed as digits rather than words. Keywords (max. 10) should be given, chosen from nursing subject headings. Each word should be separated by semicolon.

## Proforma for Submission of M. Sc Nursing Dissertation Proposal

1. Name & Address of Student:
2. Email ID of the Student:
3. Registration Number:
4. Name & Address of Institution:
5. Title of the Dissertation:
6. Name of the Guide:
7. Address, phone number and E-mail ID of the Guide:
8. Educational Qualification of the Guide:
9. Experience of teacher in guiding postgraduate students. (in years):
10. Experience of teacher in guiding M.Phil/Ph.D students if any. (in years):
11. Synopsis of the study: Attached – Yes/No

Date:

Signature of the Guide

Enclosures:

- I.) Bio- Data of the Guide
- II.) proposal of the study (maximum 4-6 pages)

## Proposal Outline

Title

Background / Need and Significance of the problem.

Purpose of the study

Statement of the problem and Objectives of the study

Operational Definitions

Conceptual Framework

Assumptions/ Hypotheses

Research Methodology

- a. Research Approach
- b. Research Design
- c. Setting
- d. Population, Sample, Sampling Technique & sample size, inclusion & exclusion criteria
- e. Tools & Technique
- f. Pilot Study
- g. Plan for data collection
- h. Plan for data analysis

Work Plan

Budget

Ethical Considerations

Reference- Vancouver style

Tools /instrument

Appendices –

Consent (English)

Tools/Instrument (English)

### Guidelines in writing synopsis

- ☐ The research protocol should be of about 1200 words (6 pages of A4 size) on the topic. The research protocol should be submitted with a covering letter signed by the candidate and guide.
- ☐ The work on and writing of protocol/ dissertation should be done under the Guide approved by the University.
- ☐ The guide must be an active P.G teacher and qualified as per INC and the University norms.
- ☐ The synopsis should be signed by the candidate and forwarded through the Guide, Departmental head and Principal of the Institution.



**KERALA UNIVERSITY OF HEALTH AND ALLIED SCIENCES  
Medical College P.O.**

Affix Photo

**PROFORMA FOR RECOGNITION OF POST GRADUATE TEACHER [Read  
the instructions carefully before filling up the proforma]**

1. NAME:  
(in block letters)
2. DATE OF BIRTH: AGE:  
(Attested copy of SSLC marks card / proof of date of birth to be enclosed)
3. PRESENT DESIGNATION:
4. DEPARTMENT:
5. ADDRESS:

<p><b>COLLEGE ADDRESS</b></p>   <p>Phone (o) :                      Email: Hospital:                              College Fax:</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"><b>PRESENT</b></td> <td style="width: 50%; text-align: center;"><b>RESIDENTIAL</b></td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>ADDRESS</b></td> </tr> <tr> <td colspan="2" style="text-align: center; padding-top: 20px;">Phone ( R ):</td> </tr> </table>	<b>PRESENT</b>	<b>RESIDENTIAL</b>	<b>ADDRESS</b>		Phone ( R ):	
<b>PRESENT</b>	<b>RESIDENTIAL</b>						
<b>ADDRESS</b>							
Phone ( R ):							

6. QUALIFICATION:  
(Attested Xerox copies of all the certificates to be enclosed)

SI No.	Name of the Degree and Specialization	Year of Passing	Name of the University and Place	Apex body recognition
UG				
PG				
M.Phil				
Ph.D.				

## 7. Teaching Experience

Designation	Name of the Institution	Duration of teaching		Subject / 's taught
		UG From -- To	PG From -- To	
Total teaching experience				
Total teaching experience		Before PG _____ After PG _____ Total _____		

### Note:

1. Only full time teaching in a teaching institution affiliated to KUHS / other universities established by law in India is considered as teaching experience.
2. Attested copies of appointment order, relieving order, service certificate, promotion order & PG degree, Nursing Council registration certificate etc., to be enclosed to claim teaching experience.
3. Qualifications and eligibility for appointment and promotion shall be as per Govt. of Kerala and INC guidelines.
4. Application is to be submitted through proper channel.
5. The envelope should be super scribed as Proforma for Recognition as Post Graduate Teacher'.
8. Any other relevant information: (Attach a separate sheet)  
(Regarding additional qualifications, achievements, publications, awards etc.,)

### Declaration by the Teacher

I hereby declare that the above information provided by me is true and correct. I shall take the sole responsibility for any wrong information provided and liable for any action taken by the university.

Place :

Date :

**Signature of the Teacher**

### Endorsement by the Principal

The information provided by the teacher is verified from the office records and found to be correct. He/She is eligible to be recognized as a PG teacher to guide the dissertation work of PG students as per the INC regulations.

Place :

Date :

**Signature of the Principal**

**INSTRUCTIONS:**

1. The Prescribed Performa must be duly filled by the applicant in his/her own handwriting and submitted to the university through the principal's office.
2. The Principal should verify all the informations provided especially the date of birth, qualification, experience, and service details before sending the proforma to the university.
3. Ensure that attested copies of all relevant documents are furnished along with the application.
4. The Principal will be held responsible for any false information provided.
5. Incomplete and incorrect applications and applications with false information will be rejected and they are liable for disciplinary action by the university.

**KERALA UNIVERSITY OF HEALTH AND ALLIED SCIENCES**  
**MEDICAL COLLEGE P.O., THRISSUR – 680 596**  
**POST GRADUATE DISSERTATION – PROFORMA TO BE SUBMITTED FOR**  
**CHANGE OF GUIDE**

**(Please Note: Change of guide is permitted only if the guide leaves the college, transferred to another college, retires or expires.)**

Date:

**A. Particulars of Candidate, and Existing Guide**

Candidate's Name & Address :

Name of the Institution :

Course of Study & Subject :

Date of Admission to Course :

Title of the Topic :

Name & Designation of Existing Guide :

Signature of the Candidate :

**B. PARTICULARS OF PROPOSED GUIDE**

Name & Designation of proposed Guide :

Has the proposed guide been recognized as PG teacher by KUHS: Yes / No

*If yes, please furnish the particulars of university letter & If No, Please send his/her proforma for recognition as PG teacher*

Signature of the proposed Guide:

Name & Designation of Co-Guide if present:

Signature of the Co-Guide:

**C: Endorsement for change of guide**

1. Remarks and Signature of the HOD :

2. Reason for change of guide:

Resigned / Retired/ any other

3. Remarks and Signature of the Principal:

## **Format for the submission of Dissertation Hard & Soft copy**

### **Instructions to candidates**

Although your dissertation may be prepared on a computer, consider the following requirements for meeting the standards.

### **Paper**

Use only one side of high-quality, plain white (unlined in any way) bond paper, minimum 20-lb weight, and 8 ½ x 11 inches in size. Erasable paper should not be used.

### **Type Size and Print**

Select fonts type Times New Roman and a size of 12 characters. The size of the titles should be 14 and Bold, the size of subtitles should be 12 and bold. Print should be letter quality or laser (not dot matrix) printing with dark black characters that are consistently clear and dense. Use the same type of print and print size throughout the document.

### **Pagination**

Number all of the pages of your document, including not only the principal text, but also all plates, tables, diagrams, maps, and so on. Roman numerals are used on the preliminary pages (pages up to the first page of text) and Arabic numerals are used on the text pages. The numbers themselves can be placed anywhere on the page, however they should be consistent.

### **Spacing**

Use double spacing except for long quotations and footnotes which are single-spaced.

### **Margins**

To allow for binding, the left-hand margin must be 1.5 inches. Other margins should be 1.0". Diagrams, or photographs in any form should be a standard page size, or if larger, folded so that a free left-hand margin of 1.5 inch remains and the folded sheet is not larger than the standard page.

### **Photographs**

Professional quality black-and-white photographs are necessary for clear reproduction. Colors are allowed, but you should be certain the colored figure will copy clearly and will not be confusing when printed in black and white.



## **File Fomat**

Dissertation format should be in .Doc (Ms Word Document) or PDF (Portable Document Format), Image files in JPG or TIFF format and Audio Visual in AVI (Audio Video Interleave), GIF, MPEG (moving picture expert) files format.

## **Labeling on CD**

CD-ROM Labeling should be standard and should contain title, name of the candidate, degree name, subject name, and guide name, name of the department, college, place and year.

## **References**

Vancouver style format.



**5.3. Template for Mark List showing Maximum & Minimum**

**( Sample)**

**KERALA UNIVERSITY OF HEALTH SCIENCES**

**THRISSUR – 680 596**

**STATEMENT OF MARKS**

Name of the Candidate .....

Reg No. ....

Name of the college .....

Name of course : M.Sc Nursing -Medical Surgical Nursing

Examination : First Year M.Sc Nursing Regular Examination

Date of publication :.....

Month & Year of Examination:

Sl. No	Subjects	Theory			Practical			Total			Result
		Max	Min	Awar ded	Ma x	Min	Awarde d	Max	Min	Awa rded	
1	Nursing Education	125	62.5		150	75		275	137.5		
2	Advanced Nursing Practice	125	62.5					125	62.5		
3	Nursing Research & Statistics	125	62.5					125	62.5		
4	Clinical Speciality - I Medical Surgical Nursing	125	62.5		200	100		325	162.5		
Grand Total								850	425		
Grand Total in Words											

A- Absent, P- passed, F-failed

Checked by

Asst

SO

AC/AR/DR

Controller of Examination



**KERALA UNIVERSITY OF HEALTH SCIENCES**

**THRISSUR – 680 596**

**STATEMENT OF MARKS**

Name of the Candidate .....

Reg No. ....

Name of the college .....

Name of course : M.Sc Nursing - Medical Surgical

Examination : Second Year M.Sc Nursing Regular Examination

Date of publication :.....

Month & Year of Examination:

Sl. No.	Subjects	Theory			Practical			Total			Result
		Max	Min	Awarded	Max	Min	Awarded	Max	Min	Awarded	
1	Nursing Management	125	62.5					125	62.5		
2	Dissertation & Viva Voce				200	100		200	100		
3	*Clinical Speciality - II Medical Surgical (Cardio Vascular & Thoracic Nursing/ Critical care Nursing/Oncology Nursing/Neurosciences Nursing/Nephro-Urology Nursing/ Orthopedic Nursing/ Gastro Enterology Nursing)	125	62.5		200	100		325	162.5		
Total Marks Awarded in Second Year								650	325		
Total in Words											

A- Absent, P- passed, F-failed

Checked by

Asst

SO

AC/AR/DR

Controller of Examination

