

# **M.Sc. Nursing**

**TWO-YEAR FULL-TIME PROGRAMME**

**(Four-Semester Course)**



## **COURSE CONTENTS**

**(EFFECTIVE FROM THE ACADEMIC YEAR 2016-2017)**

Department of Nursing

**UNIVERSITY OF DELHI**

**DELHI – 110 007**

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## Philosophy

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

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

Indian Nursing council believes that:

Post Graduate programme is essential to prepare nurses to improve the quality of nursing education and practice of India.

Post Graduate programme in nursing builds upon and extends competence acquired at the graduate levels, emphasizes application of relevant theories into nursing practice, education, administration and development of research skills.

The programme prepare nurses for leadership position in nursing and health field who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the national priorities and the changing needs of the society.

This programme provides the basis for the post masteral programme in nursing. Further the programme encourages accountability and commitment to Life. Long learning which fosters improvement of quality care.

### **AIM**

The aim of the postgraduate program in nursing is to prepare graduates to assume responsibilities as nurse specialists, consultants, educators, administration in a wide variety of professional settings.

### **Objectives**

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

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

**Course of instruction (Theory& practical)**

Paper No.	Subject	Hours		
Theory Paper No.		Theory (Hrs)	Practical (Hrs.)	Total Theory & PracticalHrs
<b>First Year – Semester-I</b>				
I	Nursing Education-I	75	75	
II	Advanced Nursing Practice –I	75	100	
III	Nursing Research	100	50	
IV	Clinical Specialty- I (Part-A)	75	330	
<b>Total</b>		325	555	880
<b>First Year – Semester-II</b>				
V	Nursing Education-I	75	75	
VI	Advanced Nursing Practice –I	75	100	
VII	Statistics	50	50	
VIII	Clinical Specialty- I (Part-B)	75	330	
<b>Total</b>		275	555	830
<b>Semester- I &amp; II</b>		<b>Grand Total</b>		1710
<b>Second Year Semester – III</b>				
IX	Nursing Management	75	75	
X	Clinical Specialty – II (Part –A)	75	480	
<b>Total</b>		150	555	705
<b>Second Year Semester – IV</b>				
XI	Nursing Management	75	75	
XII	Nursing Research (Dissertation)		300	
XIII	Clinical Specialty – II (Part –A)	75	480	
<b>Total</b>		150	855	1005
<b>Semester –III &amp; IV</b>		<b>Total</b>		1710
<b>Grand Total</b>				3420

Educational Visit- 2 Weeks

**\*Clinical Specialty:-** Medical surgical nursing (cardio vascular & thoracic nursing , critical care nursing oncology nursing, neuroscience nursing, nephrology- urology nursing, orthopedic nursing and gastro enterology nursing.), Obstetrics and gynecological nursing. Child health (Paediatric) nursing, Mental health (Psychiatric) nursing, and Community health nursing.

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

Tentative schedule for Dissertation

S. NO	Activity	Schedule
1	First year Submission of research proposal	End of 9 <sup>th</sup> month of 1 <sup>st</sup> year or end of April
2	Second year submission of research	End of 9 <sup>th</sup> month of Second year or end of April
3	Final Dissertation	

## M.Sc (Nursing)(M.Sc (N) ) Programme

M.Sc (Nursing) Programme is a 2 years with 4 Semester. The duration of Programme is enclosed as follows.

### Duration of Course

Available Weeks	- 52
Vacation	-4 Weeks
Examination	- 2 Weeks
Gazetted Holidays	-3 Weeks
Total weeks available	-43 per year
Total hours available	– 1720 hours per year
(40 hours per week)	
Total hours for 2 years	- 3440 hours

## Master of Nursing

### Semester wise , Subject Placement & (Theory & Practical)

Paper.No	Content			Page No.
	<b>First Year – Semester-1</b>	<b>Theory</b>	<b>Practical</b>	<b>Total</b>
	<b>Total</b>	600	1100	1700
I	Nursing Education-I	75	75	150
II	Advance Nursing Practice	75	100	175
III	Nursing Research & Statistic –I	100	50	150
IV	Clinical Speciality-I(A)	75	300	400
(i)	Medical Surgical Nursing	*	*	*
(ii)	Obstetrics & Gynecological Nursing	*	*	*
(iii)	Child Health ( Paediatrics ) Nursing	*	*	*
(iv)	Psychiatric Mental Health Nursing	*	*	*
(v)	Community Health Nursing	*	*	*
	<b>First Year – Semester-II</b>			
V	Nursing Education-II	75	75	150
VI	Advance Nursing Practice –II	75	100	175
VII	Nursing Research & Statistic –II	50	50	100
VIII	Clinical Specially –II(B)	75	300	400
(i)	Medical Surgical Nursing	*	*	*
(ii)	Obstetrics & Gynecological Nursing	*	*	*
(iii)	Child Health ( Paediatrics ) Nursing	*	*	*
(iv)	Psychiatric Mental Health Nursing	*	*	*
(v)	Community Health Nursing	*	*	*
	<b>Second Year – Semester-III</b>	<b>Total</b>		
		300	1410	1710
IX	Nursing Management –I	75	75	1710
X	Clinical Speciality –II(A)	75*	480*	555
(i)	Medical Surgical Nursing	*	*	*
A	Cardio Vascular & Thoracic Nursing	*	*	*
B	Critical Care Nursing	*	*	*
C	Medical Surgical Nursing –Oncology Nursing	*	*	*
D	Medical Surgical Nursing - Neurosciences Nursing	*	*	*
E	Medical Surgical Nursing - Nephro – Urology Nursing	*	*	*
F	Medical Surgical Nursing – Orthopedic Nursing	*	*	*
G	Medical Surgical Nursing – Gastro Enterology Nursing	*	*	*
(ii)	Obstetric &Gynaecological Nursing	*	*	*
(iii)	Paeditric ( Child Health ) Nursing	*	*	*
(iv)	Psychiatric (Mental Health ) Nursing	*	*	*
(v)	Community Health Nursing	*	*	*
	<b>Second Year – Semester- IV</b>			
XI	Nursing Management –II	75	75	150
XII	Clinical Specialty –II(B)	75	480	555
(i)	Medical Surgical Nursing			
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	*	*	*
ii	Obstetric & Gynecological Nursing	*	*	*
iii	Paeditric ( Child Health ) Nursing	*	*	*
iv	Psychiatric (Mental Health ) Nursing	*	*	*
V	Community Health Nursing	*	*	*
XII	Nursing Research – Dissertation &VIva		300	300

\*Clinical specialties & Theory & Practical hours. Remain same for all Clinical Specialty.



### Scheme of Examination

1 <sup>st</sup> Year Semester-I	Theory			Practical		
	Hours	Internal	External	Hours	Internal	External
Nursing Education –I	3	25	75			
Advanced Nursing Practice-I	3	25	75			
Nursing Research	3	25	75			
Clinical Specialty –I Part -A	3	25	75			
<b>Total</b>		100	300			

### Scheme of Examination

1 <sup>st</sup> Year Semester-II	Theory			Practical		
	Hours	Internal	External	Hours	Internal	External
Nursing Education –II	3	25	75		50	50
Advanced Nursing Practice-II	3	25	75			
Statistics	3	25	75			
Clinical Specialty –I Part -B	3	25	75		100	100
<b>Total</b>		100	300		150	150

### Scheme of Examination

2 <sup>nd</sup> Year Semester-III	Theory			Practical		
	Hours	Internal	External	Hours	Internal	External
Nursing Management–I	3	25	75			
Clinical Specialty –II Part –A	3	25	75			
<b>Total</b>		50	150			

### Scheme of Examination

2 <sup>nd</sup> Year Semester-IV	Theory			Practical		
	Hours	Internal	External	Hours	Internal	External
Nursing Management–II	3	25	75			
Dissertation & Viva					100	100
Clinical Specialty –II Part –B	3	25	75		100	100
<b>Total</b>		<b>50</b>	<b>150</b>		<b>200</b>	<b>200</b>

1. Minimum pass marks shall be 50% in each of the theory and practical papers separately.
2. A candidate must have minimum of 80% attendance ( irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
3. A candidate must have 100% attendance in each of the practical areas before award of degree.
4. A candidate has to pass in theory and practical exam separately in each of the paper.
5. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers ( theory& practical.)
6. Maximum no. of attempts permitted for each paper is 3 including first attempt.

## Master of Nursing

### Nursing Education- I

#### Paper – I

Placement Semester- I  
Semester- I

Hours of instruction

Theory 75 hrs

Practical 75 hrs

Total: 150 hrs

#### 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.

#### Objectives:

1. Explain the aims of education, philosophies, trends in education and health: its impact on nursing education.
2. Describe the teaching learning process.
3. Prepare and utilize various instructional media and methods in teaching learning process.
4. Demonstrate competency in teaching, using various instructional strategies.

#### Course Content:

Unit	Hours		Course content
	Theory	Practical	
1	10		<b>Introduction</b> <ul style="list-style-type: none"><li>• Education: Definition, aims, concepts, philosophies and their education implications</li><li>• Impact of social, economical, Political and technological changes on education.</li><li>• Professional education</li><li>• Current trends and issues in education</li><li>• Educational reforms and National Educational policy, various educational commissions reports.</li><li>• Trends in development of nursing education in India</li></ul>
II	20	35	<b>Teaching learning Process</b> <ul style="list-style-type: none"><li>• Concepts of teaching and learning: Definition theories of teaching and learning, relationship between teaching and learning.</li><li>• Educational aims and objectives; types domains, levels, elements and writing of educational objectives.</li><li>• Competency based education (CBE) and outcome based education (OBE)</li><li>• Instructional design: planning and designing the lesson, writing lesson plan: meaning, its need and importance, formats.</li><li>• Instruction strategies – Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving problem based learning (PBL), workshop, project, role-play (socio-</li></ul>

			drama), clinical teaching methods, programmed instruction, self directed learning (SDL) micro teaching, computer assisted instruction (CAI) computer assisted learning (CAL)
III	10	10	Instructional media and methods <ul style="list-style-type: none"> <li>• Key concept in the selection and use of media in education</li> <li>• Developing learning resource material using different media</li> <li>• Instructional aids- types, uses, selection, preparation, utilization.</li> <li>• Teacher's role in procuring and managing instructional aids project and non projected aids, multi media, video tele conferencing etc.</li> </ul>
IV	10		<b>Measure and evaluation:</b> <ul style="list-style-type: none"> <li>• Concept and nature of measurement and evaluation, meaning process, purpose, problems in evaluation and measurement.</li> <li>• Principles of assessment, formative and summative assessment internal assessment external examination advantages and disadvantage</li> <li>• Criterion and norm referenced evaluation</li> </ul>
V	10	12	Standardized and non- standardized test: <ul style="list-style-type: none"> <li>• Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of test-</li> <li>• Essay, short answer questions and multiple choice questions.</li> <li>• Rating scales, checklist, OSCE/OSPE (objective structured clinical/practical examination)</li> <li>• Differential scales, and summated scales, sociometry, anecdotal record attitude scale critical incident technique</li> <li>• Question bank preparation validation, moderation by panel utilization</li> <li>• Developing a system for maintaining confidentiality.</li> </ul>
VI	5	10	Administration Scoring and Reporting <ul style="list-style-type: none"> <li>• Administering a test; scoring grading versus marks</li> <li>• Objective tests, scoring essay test, methods of scoring item analysis</li> </ul>
VII	10	8	Standardized Tools <ul style="list-style-type: none"> <li>• Tests of intelligence aptitude, interest, personality achievement, socio economic status scale, tests for special mental and physical abilities and disabilities.</li> </ul>

## 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 methods, field trips, seminars, project, role play, panel discussion, clinical methods etc)
- Preparation and utilization of instructional Aids using different media
- Educational visits.
- Field Visits ( INC/ SNRC) to get familiar with recognition/registration process..
- Construct, administer and evaluate tools (Objective & essay type test observation checklist, rating scale etc)
- Observe and practice application of various non-standardized tests (intelligence, Aptitude personality, Sociometry, Physical and mental disabilities tests.)
- Planning and Organize field visits.

### Methods of Teaching

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

### Methods of Evaluation

- Tests
- Presentation
- Project work
- Written assignment

### Internal Assessment

Techniques	Weightage
Test- 2	50
Assignment	25
Seminar/ Presentation	25
	<b>100</b>

**Practical – Internal Assessment****Weightage**

Learning resource material

25

Practice Teaching

50

Conduct Workshop/ Short Term Course

25

**100****Practical External assessment****Weightage**

Practical Teaching- I

50

Preparation/ Use of learning resource material – I

25

Construction of tests/ rotation plan

25

**100**

## Nursing Education

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11. Loretta E. Heidgerken’s **“Teaching and Learning in Nursing Education twelfth impression, 2003. Konark publishers ltd, Delhi.**
12. KP, Neeraja’s Text book of Nursing Education first edition, 2003 Jaypee brothers medical publishers Delhi.
13. Ahmann J. Stanley and Marvin D. Glock, Evaluating Pupil Growht’1958, Allyn and Bacon, Boston.
14. Nunnaly C. Jum, Test and Measurements’1959. **McGraww** Hill book Company, Toronto.
15. Sankaranaryan B and B. Sindu, “Learning and Teaching Nursing 3<sup>rd</sup> Edition, Brainfill Publication, Calicutt.
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## Master of Nursing

### Advance Nursing Practice- (Practical- I)

#### Paper – II

Placement 1<sup>st</sup> year

Semester- I

Hours of instruction  
Theory 75 hrs.  
Practical 100 hrs  
Total 175

#### Course Description

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

#### Objectives

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

1. Appreciate and analyze the development of nursing as a profession
2. Describe ethical, legal, political and economic aspects of health care delivery and nursing practice.
3. Explain bio psycho social dynamics of health life style and health care delivery and nursing practice.
4. Discuss concepts, principles theories models approaches relevant to nursing and their application
5. Provide holistic and competent nursing care following nursing process approach.
6. Describe the concept of quality control in nursing
7. Identify the scope of nursing research
8. Appreciate importance of self development and professional advancement.

Unit	Hours	Content
I	10	<b>Nursing as a profession</b> <ul style="list-style-type: none"><li>• History of development of nursing profession, characteristics, criteria of the process in, perspective of nursing profession national &amp; global</li><li>• Code of ethics (INC) code of professional conduct (INC), autonomy and accountability, assertiveness, visibility of nurse, legal consideration,</li><li>• Role of regulatory bodies</li><li>• Professional organizations and unions self defense, individual and collective bargaining.</li><li>• Educational preparations, continuing education, career opportunities, professional advancement and role and scope of nursing education.</li><li>• Role of research, leadership and management</li><li>• Quality assurance in nursing (INC)</li><li>• Futuristic nursing</li></ul>
II	5	Health care delivery <ul style="list-style-type: none"><li>• Health care environment economics, planning process, policies. Political process in nursing profession.</li><li>• Health care delivery system national state, district and local level.</li></ul>

		<ul style="list-style-type: none"> <li>Major stakeholders in the health care system Government, non- govt. industry and other professionals.</li> <li>Patterns of nursing care delivery system in India</li> <li>Health care delivery concerns, national health and family welfare programs, inter-sectoral co-ordination, role of non-governmental agencies.</li> <li>Information, education and communication (IEC)</li> <li>Tele-medicine.</li> </ul>
III	10	<b>Epidemiology</b> <ul style="list-style-type: none"> <li>Scope, epidemiological approach and methods,</li> <li>Morbidity &amp; mortality,</li> <li>Concepts causation of diseases and their screening</li> <li>Application of epidemiology in health care delivery, Health surveillance and health information</li> <li>Role of nurse</li> </ul>
IV	20	<b>Bio- Psycho social pathology</b> <ul style="list-style-type: none"> <li>Path physiology and psychodynamics of disease causation</li> <li>Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, life style</li> <li>Common problems: Oxygen insufficiency, fluid and electrolyte imbalance nutritional problems, hemorrhage and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain &amp; sensory deprivation.</li> <li>Treatment aspects: pharmacological and pre- post operative care aspects,</li> <li>Cardio pulmonary resuscitation.</li> <li>End of life care</li> <li>Infection prevention (including HIV) and standard safety measures, bio medical waste management</li> <li>Role of nurse- Evidence based nursing practice, Best practices</li> <li>Innovation in nursing</li> </ul>
V	20	<b>Philosophy and Theories of Nursing</b> <ul style="list-style-type: none"> <li>Values, Conceptual models, approaches.</li> <li>Nursing theories: Nightingale's, Henderson's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson's, etc and their applications.</li> <li>Health belief models, communication and management, etc</li> <li>Concepts of Self Health care Model.</li> <li>Evidence based practice model.</li> </ul>
VI	10	<b>Nursing process approach</b> <ul style="list-style-type: none"> <li>Health Assessment- illness status of patients/clients (individuals, family, community), identification of health illness problems, health behaviors, signs and symptoms of clients.</li> <li>Methods of collection, analysis and utilization of data relevant to nursing process</li> <li>Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.</li> </ul>



## Practical

Clinical posting in the following areas:

- Specialty area in patient unit 1 week
- Community health center/PHC 1 Week
- Emergency /ICU 1 week

## Activities

- **Prepare** Case studies with nursing process approach and theoretical basis
- **Presentation of comparative picture of theories**
- **Family care work using model of prevention**
- **Annotated bibliography**
- **Report of fields visits (3)**

## Methods of Teaching

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

Methods of evaluation:

- Tests
- Presentation
- Seminar
- Written assignment

Advance nursing procedures

Definition, Indication and Nursing implications

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

Internal Assessment

Techniques	Weightage
Test ( 1 test)	50
Assignment	25
Seminar / presentation	25
	<b>100</b>

**Master of Nursing  
Nursing Research  
Paper – III  
Placement Semester- I**

**Hours of instruction  
Theory 100 hrs**

**Practical 50 hrs  
Total 150 Hrs.**

**Course Description**

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

**General Objectives**

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

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

**Content Outline**

Unit	Hours		Course Content
	Theory	Practical	
			Introduction <ul style="list-style-type: none"> <li>• Methods of acquiring knowledge – problem solving and scientific method.</li> <li>• Research Definition, characteristics, purpose kind of research</li> <li>• Historical Evolution of research in nursing</li> <li>• Basic research terms.</li> <li>• Scope of nursing research” areas, problems in nursing, health and social research</li> <li>• Concept of evidence based practice</li> <li>• Ethics in research</li> <li>• Overview of Research process</li> </ul>
PP	5	5	Review of Literature <ul style="list-style-type: none"> <li>• Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature.</li> </ul>
III	12		Research Approaches and designs <ul style="list-style-type: none"> <li>• Types: Quantitative and Qualitative.</li> </ul>

			<ul style="list-style-type: none"> <li>• Historical survey and experimental – Characteristics, types advantages and disadvantages.</li> <li>• Qualitative: Phenomenology, grounded theory, ethnography.</li> </ul>
<b>IV</b>	<b>10</b>	<b>5</b>	<p>Research problem</p> <ul style="list-style-type: none"> <li>• Identification of research problem.</li> <li>• Formulation of problem statement and research objectives.</li> <li>• Definition of terms.</li> <li>• Assumptions and delimitations.</li> <li>• Identification of Variables.</li> <li>• Hypothesis- definition, formulation and types.</li> </ul>
<b>V</b>	<b>5</b>	<b>5</b>	<p>Developing theoretical. conceptual framework.</p> <ul style="list-style-type: none"> <li>• Theories: Nature characteristics, Purpose and uses.</li> <li>• Using, testing and developing conceptual framework, models and theories.</li> </ul>
<b>VI</b>	<b>6</b>		<p>Sampling</p> <ul style="list-style-type: none"> <li>• Population and sample.</li> <li>• Factors influencing sampling.</li> <li>• Sampling techniques.</li> <li>• Sample size.</li> <li>• Probability and sampling error.</li> <li>• Problems of sampling.</li> </ul>
<b>VII</b>	<b>20</b>	<b>10</b>	<p>Tools and methods of Data Collection</p> <ul style="list-style-type: none"> <li>• Concepts of data collection.</li> <li>• Data sources, methods/ Techniques quantitative and qualitative.</li> <li>• Tools for data collection types, characteristics and their development.</li> <li>• Validity and reliability of tools.</li> <li>• Procedure for data collection.</li> </ul>
<b>VIII</b>	<b>5</b>		<p>Implementing research plan</p> <ul style="list-style-type: none"> <li>• Pilot study, review research plan (design); planning for data collection, administration of tools/interventions, collection of data.</li> </ul>
<b>IX</b>	<b>10</b>	<b>10</b>	<p>Analysis and interpretation of data</p> <ul style="list-style-type: none"> <li>• Plan for data analysis; quantitative and qualitative.</li> <li>• Preparing data for computer analysis and presentation.</li> <li>• Statistical analysis.</li> <li>• Interpretation of data.</li> <li>• Conclusion and generalizations.</li> <li>• Summary and discussion.</li> </ul>
<b>X</b>	<b>10</b>		<p>Reporting and utilizing research findings</p> <ul style="list-style-type: none"> <li>• Communication of research results' oral and written.</li> <li>• Writing research report purposes, methods and style. Vancouver, America Psychological Association (APA) Campbell etc.</li> <li>• Writing scientific for publication purpose and style.</li> </ul>
<b>XI</b>	<b>3</b>	<b>8</b>	Critical analysis of research reports and articles.
<b>XII</b>	<b>4</b>	<b>7</b>	Developing and presenting a research proposal.

### Activities

- Annotated Bibliography of research reports and articles
- Review of literature of selected topic and reporting
- Formulation of problem statement, objectives and hypothesis
- Developing theoretical/conceptual framework
- Preparation of sample research tool
- Analysis and interpretation of given data
- Developing and presenting research proposal
- Journal club presentation
- Critical evaluation of selected research studies
- Writing a scientific paper.

### Method of Teaching

- **Lecture** –cum- discussion.
- **Seminar/Presentations.**
- Project.
- Class room exercises.
- Journal Club.

### Methods of Evaluation

- Quiz, Tests (Term).
- Assignments/ Terms Paper.
- Presentations.
- Project Work.

<b>Internal Assessment</b>	<b>Weightage (25 marks)</b>
<b>Techniques</b>	<b>40%</b>
<b>Assignment</b>	<b>20%</b>
<b>Presentation</b>	<b>20%</b>
<b>Project Work</b>	<b>20%</b>
<b>Total</b>	<b>100%</b>

# Nursing Research

1. Pamela. J. Brink et al. Basic steps in planning nursing research; 5<sup>th</sup> edition, Jones and Barette publications.
2. Newidomy R M; Foundation of nursing research 3<sup>rd</sup>edition, Prentice Hall Publishers
3. Burns N, Susan K, Grove' Understanding Nursing Research W.B. Sauder's Company
4. Polit K D, Beck C T; Essential of Nursing Research; Lippincott Williams and Wilkins publications
5. Streubert H J. Carpenter D R; Qualitative Research in Nursing (Advancing the Humanistic Impertive), 2<sup>nd</sup> edition; Lippincott company
6. Nunhall P L;l Nursing Research: A Qualitative perspectives; 3<sup>rd</sup> edition; Jones and Barlett Publication
7. Best J W, khan J V; Research in Education; 10<sup>th</sup> edition; PHI learning private limited
8. Mark Walsh, Lynnc Wignes; Introduction to Nursing Research: Nelson Thornes and Publications
9. Sandelowski M, Julie Barrose; Handbook for synthesizing Qualitative Research; Pepe Publishers and Distributions

**Master of Nursing  
Clinical specialty – I (A)  
Medical Surgical Nursing**

**Placement – First Year  
Semester- I**

**Hours of instruction  
Theory 75 hrs  
Practical 330 hrs  
Total 405 Hrs.**

**Course Description**

This course is common for the students undergoing clinical specialty – II in neuro science nursing / cardiovascular and thoracic nursing/ oncology nursing/ orthopedic and rehabilitation nursing/ nephrology and urology nursing. Gastro entomology nursing/ geriatric nursing.

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

Objectives:-

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

1. Appreciate the trends and issues in the field of Medical Surgical Nursing as a specialty.
2. Apply concepts and theories related health promotion
3. Appreciate the client as a holistic individual.
4. Perform physical, psychosocial assessment of Medical Surgical patients
5. Apply nursing process in providing care to patients
6. Integrate the concept of family centered nursing care with associated disorder such as genetic, congenital and long term illness.
7. Recognize and manage emergencies with Medical surgical patients.
8. Describe various recent technologies and treatment modalities in the management of critically ill patients
9. Appreciate the legal and ethical issues relevant to Medical Surgical Patients.
10. Prepare a design for layout and management of Medical Surgical Patients
11. Appreciate the role of alternative systems for Medical in care of Patients
12. Incorporate evidence based Nursing practice and identify the areas of research in the field of Medical surgical nursing
13. Recognize the role of Nurse practitioner as a member of the Medical of the Medical Surgical Health team.
14. Teach Medical – Surgical Nursing to undergraduate nursing students and in service nurse.

## Course Content

Unit	Hours	Content
I	5	<p>Introduction</p> <ul style="list-style-type: none"> <li>• Historical development of Medical – Surgical Nursing in India</li> <li>• Current status of health and disease burden in India</li> <li>• Current concept of Health</li> <li>• Trends and Issues in Medical Surgical Nursing</li> <li>• Ethical and cultural issues in Medical Surgical Nursing</li> <li>• Rights of patients</li> <li>• National Health Policy, special laws and ordinances relating to older people</li> <li>• National goals</li> <li>• Five years plans</li> <li>• National health programs related to adult health</li> </ul>
II	20	<p>Health Assessment of patients</p> <ul style="list-style-type: none"> <li>• History taking</li> <li>• Physical examination of various systems</li> <li>• Nutritional assessment</li> <li>• Related investigations and diagnostic assessment</li> </ul>
III	5	<p>Care in hospital settings</p> <ul style="list-style-type: none"> <li>• Ambulatory care</li> <li>• Acute and critical care</li> <li>• Long term care.</li> <li>• Home health care</li> <li>• Characteristics, care models, practice settings, interdisciplinary team.</li> <li>• Hospitalization- effects of hospitalization on the patient and family</li> <li>• Stressors and reactions related to disease process</li> <li>• Nursing care using nursing process approach.</li> </ul>
IV	10	<p>Management of patients with disorders of Gastro Intestinal tract</p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology</li> <li>• Common disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis</li> <li>• Health assessment- History taking, physical examination, investigation and diagnostic assessment</li> <li>• Treatment modalities and trends</li> <li>• Nursing management</li> <li>• Related research studies</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow up</li> </ul>
V	10	<p>Management of patient with disorders of nervous system</p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology</li> <li>• Common disorders etiology, Patho physiology, Clinical manifestations, complications, prognosis</li> <li>• Health assessment History taking, physical examination, investigation and diagnostic assessment</li> <li>• Treatment modalities and trends</li> <li>• Evidence based nursing practice</li> <li>• Rehabilitation and follow up</li> </ul>
VI	10	<p>Management of patients with disorder of respiratory system</p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology</li> </ul>

		<ul style="list-style-type: none"> <li>• Common disorders etiology, Patho physiology, Clinical manifestations, complications, prognosis</li> <li>• Health assessment History taking, physical examination, investigation and diagnostic assessment</li> <li>• Treatment modalities and trends</li> <li>• Evidence based nursing practice</li> <li>• Rehabilitation and follow up</li> </ul>
VII	10	<p>Management of patients with disorder of cardio vascular system</p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology</li> <li>• Common disorders etiology, Patho physiology, Clinical manifestations, complications, prognosis</li> <li>• Health assessment History taking, physical examination, investigation and diagnostic assessment</li> <li>• Treatment modalities and trends</li> <li>• Evidence based nursing practice</li> <li>• Rehabilitation and follow up</li> </ul>
VIII	5	<p>Management of patient with disorder of blood</p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology</li> <li>• Common disorders etiology, Patho physiology, Clinical manifestations, complications, prognosis</li> <li>• Health assessment History taking, physical examination, investigation and diagnostic assessment</li> <li>• Treatment modalities and trends</li> <li>• Evidence based nursing practice</li> </ul>



## Practical

**Total 330 Hours**

**1 week 30 Hours**

S. No	Dept/ Unit	No. of work	Total work
1	General Medical Ward	1	30 Hours
2	General Medical Ward	1	30
3	ICUs	4	120
4	Oncology	1	30
5	Ortho		
6	Cardio	2	60
7	Emergency Department		
8	Neuro	2	60
	Total	11 Week	330 Hours

### Student Activities

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

## Medical Surgical Nursing

1. Brunner and suddarth's **Text Book of Mecial Surgical Nurisng**, Vol I and II, 11<sup>th</sup> edition. Lippincott Williams and Wilkins, 2008.
2. Long, C, Barbara et al., **Medical Surgical Nursing; A Nursing Process Approach**, 3<sup>rd</sup> edition mosby publications, 1993.
3. Black, M, joyee, **Medical Surgical Nursing Clinical management of Positive Outcomes**, Vol I and II, 8<sup>th</sup> edition, saundes and Elsevier publications, 2009
4. White and Dunean, **Medical surgical nursing; and integrated approach**, delmer publishers, 1998
5. Philips, **Medical Surgical Nursing; Health and Illness Perspective**, 8<sup>th</sup> Edition Elsevier publications 2009
6. Williams and Hopper, Understanding **Medical Surgical Nursing, F.A Davis** Company, 1999.
7. Luckmann and Sorensen, **Medical surgical nursing, a psycologic approach; w.b. saunders** company, 1978.
8. Holloway M. Naey, **Medical Surgical Care Planning, 3<sup>rd</sup> Edition, Springhouse**corporation, 1999.
9. Lemone and Burke, **Medical Surgical Nursing, Critical Thinking in Client Care, 4<sup>th</sup> edition**, person education publishers. 2008.
10. Lewis, **Medical Surgical Nursing, Assessment And Management of Clinical Problems**, 6<sup>th</sup> Edition, mosby publication, 2004.

**Master of Nursing**  
**Clinical speciality – I (A) Paper IV (ii)**  
**Obstetric and Gynecological Nursing**

**Placement – First Year**  
**Semester- I**

**Hours of instruction**  
**Theory 75 hrs**  
**Practical 330 hrs**  
**Total 405 Hrs.**

**Course Description**

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

**Objectives;**

1. Describe the concepts of biophysical, psychological and spiritual aspects of normal pregnancy, labour and puerperium.
2. Provide comprehensive nursing care to women during reproductive period and newborns
3. Integrate the concepts of family centered nursing care and nursing process approach in obstetrics and gynaecological nursing.
4. Identify and analyze the deviations from normal birth process and refer appropriately
5. Integrate nursing process approach in obstetric & gynaecological Nursing.
6. Counsel adolescents, women and families on issues pertaining to pregnancy, child birth and lactation.

Units	Hours	Content
I	8	Human Reproduction <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of human reproductive system male &amp; female</li> <li>• Hormonal cycles.</li> <li>• Embryology</li> </ul>
II	20	Pregnancy <ul style="list-style-type: none"> <li>• Maternal adaptation: physiological, psychosocial</li> <li>• Assessment- Maternal and foetal measures Maternal measures: History taking, examination General, physical and obstetrical measure, identification of high risk.</li> <li>• Foetal measure- clinical parameters, biochemical – human estriol, Maternal Serum alfa Feto Protein, Acetyl Choline esterase ( Ache ) , Triple Test Amniocentesis, Cordocentesis, chorionic villus sampling (CVS)</li> <li>• Biophysical (US IMAGING, Foetal movement count, Ultra Sonography, Cardiotocography, Non Stress Test (NST) contraction stress t est (CST) amnioscopy foetoscopy.</li> <li>• Radiological examination</li> <li>• Interpretation of diagnostic test and nursing implications</li> <li>• Nursing management of the pregnant women, minor, disorders of pregnancy and management</li> </ul>
III	22	Normal Labour and Nursing Management <ul style="list-style-type: none"> <li>• Essential factors of labour</li> </ul>

		<ul style="list-style-type: none"> <li>• Stages and onset</li> </ul> <p>First Stage: Physiology of normal labour</p> <ul style="list-style-type: none"> <li>• Use of partograph: Principles, use and critical analysis, evidence based studies</li> <li>• Analgesia and anaesthesia in labour</li> <li>• Nursing management</li> </ul> <p>Second stage</p> <ul style="list-style-type: none"> <li>• Physiology, intrapartum monitoring</li> <li>• Nursing management</li> <li>• Resuscitation, immediate newborn care and initiate breast feeding (Guidance of National neonatology forum of India)</li> </ul> <p>Third Stage</p> <ul style="list-style-type: none"> <li>• Physiology and nursing management</li> </ul> <p>Forth stage- Observation, critical analysis and Nursing Management</p>
IV	15	<p>Normal puerperium and nursing management</p> <ul style="list-style-type: none"> <li>• Physiology of puerperium</li> <li>• Physiology of lactation, lactation management, exclusive breast feeding, Baby friendly hospital initiative (BFHI)</li> <li>• Assessment of postnatal women</li> <li>• Management of mothers during puerperium; postnatal exercises Rooming in Bonding warm chain</li> </ul>
V	10	<p>Normal Newborn</p> <ul style="list-style-type: none"> <li>• Physiology and characteristics of normal newborn</li> <li>• Physical and behavioral assessment of newborn</li> <li>• Needs of newborn</li> <li>• Observation and care of newborn</li> </ul>

## Practical

**Total 330Hours**

**1 week 30 Hours**

S. No	Dept/ Unit	No. of work	Total work
1	Anetenatal Wards and OPDs	2	60
2	Labour Room	3	90
3	Postnatal Ward	1	30
4	PHC/Rural Maternity settings	4	120
5	NICU	1	30
	Total	11 Week	330 Hours

### Procedures observed

- Diagnostic investigations: amniocentesis, chordocentecis, chorionic villisampling
- Infertility management: artificial reproduction: artificial insemination, in vitro fertilization, and related procedures

### Procedures assisted

- Medical termination of pregnancy

### Procedures performed

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

### Others

- Identification of high risk women and referral
- Health education to women and their families
- Motivation of couples for planned parenthood

## OBSTETRICAL ANG GYNAECOLOGICAL NURSING

1. Dutta D.C Text Book of Obstetrics Including Perinatology and Contraception, 7<sup>th</sup> Edition, Calcuta. New Central Book Agency.
2. Sherwen LNet al., Maternity Nursing Care for Child Bearing Family, 3<sup>rd</sup> Edition, USA: Jones and Bartlett Publishers, 2009.
3. Cunningham FG et al. Williams obstetrics: Study Guide, 23<sup>rd</sup> Edition, USA McGraw – Hill Professional Publishers, 2009.
4. Hoffman BL, et al. Williams Obstetrics Study Guide, 23<sup>rd</sup> Edition, USA : McGrw – Hill professional Publishers, 2011.
5. Foley M et al., Obstetric Intensive Care Manual, Third edition, USA: McGraw – Hill Professional Publishers, 2010.
6. Belfort MA et al., Critical Care Obstetrics, 5<sup>th</sup> edition, wiley – Blackwell Publishers:2010
7. Kaufman M et al, First Aid for the Obstetrics and Gynecology Clerkship, 3<sup>rd</sup> edition, McGraw Hill Medical Publishers, 2010.
8. Miller E et al., Deja Review Obstetrics & Gynecology, 2<sup>nd</sup> edition, McGraw – Hill Medical Publishers, 2011
9. Rock JA et al., Telinde’s Operative Gynecology, 10<sup>th</sup> updated edition, US: LIPPOINCOTT Willianms & Wilkins Publisher, 2011
10. Benrubi Gi, Handbook of Obstetric and Gynecologic Emergencies, 4<sup>th</sup> edition, Lippincott Williams & Wilkins Publishers. 2010
11. Dutta D.C. Text Book of Obstetrics Including Perinatolgy and Contraception, 7<sup>th</sup> Edition. Calcuta. New Central Book Agency.
12. Dutta. D.C, **Text book of Gynaecology**, (6<sup>th</sup> edition), Central Books, Calcutta
13. Fletcher Gillian, **Myles Text Book for Midwives**, (14<sup>th</sup> edition), Elksevier, UK, 2004
14. Collins Sally.et. al. **“Oxford Handbook off Obstetrics &Gynecology”** Oxford Medical Publications. 2<sup>nd</sup> 2009.
15. Basvanthappa B.T. **“Textbook of Midwifery and obstetrics & Reproductive Health Nursing** 1<sup>st</sup> edition Jaypee Brothers P. Ltd. New Delhi 2006
16. Reeder r. Sharon et al, **“Maternity Nursing”** 13<sup>th</sup> edition Lippincott Company, Philadelphia,
17. May Antle Katharyn & Mahlmester **“Comprehensive Maternity Nursing”** 2<sup>nd</sup> edition Lippincott Company,
18. Daftary. N. Shirish, **Manuial Of obstetrics**, (2<sup>nd</sup> edition), Elsevier, 2005, USA
19. Schuling D.K. & Likis E. Frances. **“Womenb’s Gynaecologic Health”** Jones And Bartlett Publishers: Toronto. 2006
20. Dorothy R. Harlow, Barbara A. Ridding, **“Text book of pediatric Nursing”**, 6<sup>th</sup> edition Saunders.
21. Singh meharban, **“Care of The New born”** 6<sup>th</sup> edition, Sagar publication.
22. SalhanDudha, Textbook of midwifery & reproductive health nursing, 2<sup>nd</sup> edition, Jaypee brothers, Medical publishers.

# Master of Nursing

## Clinical Specialty –I

### Child Health ( Paediatric) Nursing

Placement 1<sup>st</sup> year

Semester 1

Hours of Instruction

Theory 75 hours

Practical 330 hours

Total: 405 Hours

#### Course Description

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

#### Objectives

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

1. Appreciate the history and developments in the field of pediatrics and pediatric nursing as a speciality.
2. Apply the concepts of growth and development in providing care to the pediatric clients and their families.
3. Appreciate the child as a holistic individual.
4. Perform physical, developmental, and nutritional assessment of pediatric clients.
5. Apply nursing process in providing nursing care to neonates and children.
6. Integrate the concept of family centered pediatric nursing care with related areas such as genetic disorders, congenital malformations and long term illness.
7. Recognize and manage emergencies in neonates.

Unit	Hours	Content
1	10	<p>Introduction</p> <ul style="list-style-type: none"><li>• Historical development of Pediatrics and pediatric nursing in India.</li><li>• Current status of child health in India.</li><li>• Trends in Pediatrics and Pediatric nursing.</li><li>• Ethical and cultural issues in pediatric care</li><li>• Rights of children</li><li>• National health policy for children, special laws and ordinances relating to children.</li><li>• National goals.</li><li>• Five year plans.</li></ul>

		<ul style="list-style-type: none"> <li>• National health programs related to child health.</li> </ul>
II	10	<p>Assessment of pediatric Clients</p> <ul style="list-style-type: none"> <li>• History taking Development Assessment</li> <li>• Physical Assessment</li> <li>• Nutritional assessment</li> <li>• Family Assessment</li> </ul>
III	10	<p>Hospitalized Child</p> <ul style="list-style-type: none"> <li>• Meaning of hospitalization of the child, preparation for hospitalization, effects of hospitalization on the child and family</li> <li>• Stressors and reactions related to developmental stages, play activities for ill hospitalized child.</li> <li>• Nursing care of hospitalized child and family principles and practices.</li> </ul>
IV	15	<p>Pre- natal pediatrics</p> <ul style="list-style-type: none"> <li>• Embryological and fetal development, Prenatal factors, influencing growth and development of fetus.</li> <li>• Genetic patterns of common pediatric disorders, chromosomal aberrations, genetic assessment and chromosomal aberrations, genetic assessment and counselling legal and ethical aspects of genetic, screening and counselling role of nurse in genetic counseling.</li> <li>• Importance of prenatal care and role of pediatric nurse.</li> </ul>
V	15	<p>Growth and Development of children</p> <ul style="list-style-type: none"> <li>• Principles of growth and development</li> <li>• Concepts and theories of growth and development</li> <li>• Development tasks and special needs from infancy to adolescence, development milestones.</li> <li>• Assessment of growth and development of pediatric clients</li> <li>• Factors affecting growth and development.</li> </ul>
VI	15	<p>Behavioral Pediatrics and Pediatric Nursing</p> <ul style="list-style-type: none"> <li>• Parent child relationship</li> <li>• Basic behavioral pediatric principles and specific behavioral pediatric concepts/ disorders maternal deprivation, failure to thrive, child abuse, the battered child.</li> <li>• Common behavioral problems and their management child guidance clinic.</li> </ul>



## Practical

**Total 330Hours**

**1 week 30 Hours**

S. No	Dept/ Unit	No. of work	Total work
1	Pediatric Medicine Ward	4	120 hours
2	Pediatric Surgery Ward	4	120 Hours
3	Pediatric OPD	1	30 Hours
4	Community	2	60 hours
	Total	11 Week	330 Hours

### Student Activities

- Clinical Presentation
- Growth and development assessment
- Assessment and prescription of nursing interventions for sick children

1. Achar ST and Viswanathan ; 'Text book of Paediatrics' A Clinical Approach "Orient Longman, Mumbai.
2. Alexander NM, Brown MS; "Paediatric Physical Diagnosis for Nurses" McGraw Hill Book Co, New Yourk.
3. Ball; Paediatric Nurisng careing for children" Prenticehall, 1999.
4. Behrman, Richard K and Vaughan; "Nelson,s Textbook for Paediatrics"; WB Saunders Company.
5. Blake G, Florence and Wright; "Essentials of Paediatric Nursing"
6. Barbara EW; "Guidelines in the care of the low birth weight" Orient Longman
7. Bowden Greenberg; "Paediatric Nursing Procedure" Lippincott, Williams & Wilkins
8. Browder J.J; "Nursing care og children" FADavis.
9. Cameron, Jelinek et al: "Text Book of Emergency Paediatric Medicine".
10. Cloherty, John P & Stark, Ann R; "Mannual Neonatal care" Lippincott
11. David Hull and Johnstan D; "Essentials of Paediatrics" Churchill Livingstone
12. Elizabeth Hurlock: "Child Development'.
13. Ghai O P; "Essential Text Book of Paediatrics " Jaypee Brothers.
14. Ghosh Shanti; "Nutrition and chld care" Jaypee Brothers
15. Ghosh Shanti: " Know your child' Jaypee Brothers
16. Gupte Suraj; " Neonatal Emergencies" Jaypee Brothers
17. Gupte Suraj; " A short Text book of Paediatric " Jaypee Brothers
18. Guha DK; " Neonaology" Jaypee Bothers
19. Guha DK; "Manual of Practical New born Care" Jaypee Brothers
20. Hathfield N; " Introductory Paediatric Nursing: Lippincott, 2003.
21. Helens CL and Roberts; " Paediatric Nursing" CV Mosby & Co.
22. Khilnany; " Practical approach to Paediatric Intensive Care" Jaypee Brothers
23. Kulkarni MC; " Mannual of Neonatology" Jaypee Brothers
24. Klosner & Nancy Hathfield; " Introductory Maternity and Paediatric Nursing" Lippincott Williams & Wilkins
25. Merenstein & Gardner; " Handbook of neonatal intensive care" CV Mosby Co
26. Mcmillan, Fergin et al; " Oski's Paediatrics – principle & practice" Lippincott, Williams & Wilkins
27. Marlow Dorothy; " Text Book of Paediatric Nursing" WB Sauders Co
28. Parthasarthy et al; " IAP Text book of Paediatrics" Jaypee Brothers
29. Park's "Text Book of Preventive and Social Medicine" 18 edn, banarasi das
30. Roberts KD Edwards JM; " Paediatric Intensive Care" Blackwell Scientific Publications, Oxford,
31. Richard Polin; " Paediatric Secrets: Mosby Co
32. Selekman; " Paediatric Nursing" Spinghouse, 2004.
33. Singh Meherban; " Care of Newborn' Sagar Publications New Delhi
34. Singh Meherban; "Drugs Used in Children" Sagar Publications New Delhi
35. Slota; " Core curriculum for paediatric Critical Care Nursing" WB Saunders Co
36. Speer; " Paediatric Care planning" Springhouse, 1999.
37. Vidhyasagar & Sarnaik; " Neonatal & Paediatric Intensive Care" Jaypee Brothers
38. Wagle CS; " Short Text Book of Paediatrics " Vohra Book Centre, Mumbai.
39. Whaley & Wong; " Nurisng care of Infants and Children" CV Mosby Company
40. Whaley, Lucilla F Donna L; " Essentials of Paediatric Nursing" CV Mosby Co, St Louis
41. Udani RH; " Neonatal Resuscitation" KEM Hosp Journals: Pediatric Today.

## Master of Nursing

### CLINICAL SPECIALITY – I (A)

#### MENTAL HEALTH (PSYCHIATRIC MENTAL HEALTH ) NURSING

Placement : 1<sup>st</sup> Year

Semester: I

Hours of Instruction

Theory 75hrs

Practical 325 hours

Total : 400hrs

#### Course Description

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

#### Objectives

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

1. Appreciate the trends and issues in the field of psychiatry and psychiatric nursing.
2. Explain the dynamics of personality development and human behavior.
3. Describe the concepts of psychobiology in mental disorders and its implications for psychiatric nursing
4. Demonstrate therapeutic communication skills in all interactions
5. Establish and maintain therapeutic relationship with individual and groups
6. Apply the nursing process approach in caring for patients with mental disorders
7. Describe the psychopharmacological agents, their effects and nurses role
8. Acknowledge Recognize the role of psychiatric nurse practitioner and as a member of the psychiatric mental health team.

#### Course Content

Units	Hours	Content
1	15	<p>Introduction</p> <ul style="list-style-type: none"><li>▪ Mental Health and Mental Illness</li><li>▪ Historical perspectives</li><li>▪ Trends, issues and magnitude</li><li>▪ Contemporary practice</li><li>▪ Mental health laws/Acts</li><li>▪ National mental health program- National mental health authority, state mental health authority</li><li>▪ Human rights of mentally ill</li><li>▪ Mental Health / Mental illness Continuum</li><li>▪ Classification of mental illnesses-ICD,DSM</li></ul>

		<ul style="list-style-type: none"> <li>▪ Standards of psychiatric nursing</li> <li>▪ Challenges and scope of psychiatric nursing</li> <li>▪ Multi-disciplinary team and role of nurse</li> <li>▪ Role of psychiatric nurse-extended and expanded</li> </ul>
<b>II</b>	<b>10</b>	<p>Concepts of Psychobiology</p> <p>The Nervous System:</p> <ul style="list-style-type: none"> <li>▪ An Anatomical Review</li> <li>▪ The Brain and limbic system</li> <li>▪ Nerve Tissue</li> <li>▪ Autonomic Nervous System</li> <li>▪ Neurotransmitters</li> </ul> <p>Neuroendocrinology</p> <ul style="list-style-type: none"> <li>▪ Pituitary, Thyroid Gland</li> <li>▪ Circadian Rhythms</li> </ul> <p>Genetics</p> <p>Neuro psychiatric disorders</p> <p>Psycho immunology</p> <ul style="list-style-type: none"> <li>▪ Normal Immune response</li> <li>▪ Implications of psychiatric Illness</li> </ul> <p>Implications for Nursing</p>
<b>III</b>	<b>10</b>	<p>Theories of Personality Development and relevance to nursing practice</p> <ul style="list-style-type: none"> <li>• Psychoanalytic Theory-Freud's</li> <li>• Interpersonal Theory-Sullivan's</li> <li>• Theory of Psychosocial Development-Erikson's</li> <li>• Cognitive Development Theory</li> <li>• Theory of Moral Development</li> </ul> <p>A Nursing Model-Hildegard E. Peplau</p>
<b>IV</b>	<b>5</b>	<p>Stress and its management</p> <ul style="list-style-type: none"> <li>• An introduction to the concepts of stress</li> <li>• Psychological Adaptation to stress</li> <li>• Stress as a Biological Response.</li> <li>• Stress as an Environmental Event.</li> <li>• Stress as Transaction between the Individual and the Environment.</li> <li>• Stress management.</li> </ul>
<b>V</b>	<b>10</b>	<p>Therapeutic communication and interpersonal relationship</p> <ul style="list-style-type: none"> <li>• Review of communication process, factors affecting communication</li> <li>• Communication with individuals and in groups</li> <li>• Techniques of therapeutic communication-touch therapy</li> <li>• Barrier of communication with specific reference to psychopathology</li> <li>• Therapeutic attitudes</li> <li>• Dynamics of a therapeutic Nurse-Patient relationship;</li> <li>• Therapeutic use of self Gaining self-awareness</li> <li>• Therapeutic nurse-patient relationship its phases ; Conditions essential to development of a therapeutic relationship</li> <li>• Therapeutic impasse and its management</li> </ul>
<b>VI</b>	<b>10</b>	<p>Promoting Self-Esteem</p> <ul style="list-style-type: none"> <li>• Components of Self-Concept</li> <li>• The Development of Self-Esteem</li> </ul>

		<ul style="list-style-type: none"> <li>• The Manifestations of Low-Self-Esteem</li> <li>• Boundaries</li> <li>• Role of The Nurse</li> </ul>
	<b>5</b>	<p>Women and Mental Health</p> <ul style="list-style-type: none"> <li>• Normal reaction to conception, pregnancy and puerperium</li> <li>• Problems related to conception, pregnancy and puerperium and its management.</li> <li>• Counselling – Premarital, marital and genetic</li> </ul>
<b>VII</b>	<b>10</b>	<p>The nursing process in psychiatric mental health nursing</p> <p>Mental health assessment-History taking, mental status examination</p> <p>Physical and neurological examination</p> <p>Psychometric assessment</p> <p>Investigations, Diagnosis and Differential diagnosis</p> <p>Interpretation of investigations</p> <p>Nurse's role</p> <p>Nursing case management</p> <ul style="list-style-type: none"> <li>• Critical pathways of care</li> </ul> <p>Documentation</p> <ul style="list-style-type: none"> <li>• Problem-oriented recording</li> <li>• Focus charting</li> <li>• The PIE method</li> </ul>

## Practical

**Total = 330 Hours**

**1 week = 30 Hours**

<b>S.No.</b>	<b>Area of Posting</b>	<b>No. of Week</b>	<b>Total Hours</b>
1	Acute Psychiatric Ward	2	60
2	Chronic Psychiatric ward	2	60
3	Psychiatric Emergency Unit	1	30
4	O.P.D	1	30
5	Family psychiatric Unit	1	30
6	Community Mental Health Unit	2	60
7	Rehabilitation / Occupational Therapy Unit/ Half way home / Day care centre	2	60
	<b>Total</b>	<b>11 week</b>	<b>330 Hours</b>

## Student Activities

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

## Psychiatric Nursing (Bibliography)

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**Master of Nursing**  
**CLINICAL SPECIALITY – I (A)**  
**Paper- IV (V)**  
**Community Health Nursing**

**Placement : 1<sup>st</sup> Year**

**Semester: I**

**Hours of Instruction**  
**Theory 75hrs**  
**Practical 325 hours**  
**Total : 400hrs**  
**Course Description**

This course is designed to assist student in developing expertise and in-depth understanding in the field of Community Health Nursing. It will help students to appreciate holistic life style of individuals, Family & Groups.

**Objective**

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

1. Appreciate the history and development in the field of community Health and Community Health Nursing.
2. Appreciate role of individual and families in promoting health of the community.
3. Perform physical, developmental and nutritional assessment of individuals, families and groups.
4. Apply the concepts of promotive, preventive, curative and rehabilitative aspects of health while providing care to the people
5. Apply nursing process approach while providing care to individuals, Families, groups and community.
6. Integrate the concepts of family centered nursing approach while providing care to the community.

Unit	Hours	Content
I	10	<p>Introduction</p> <ul style="list-style-type: none"> <li>• Historical development of community Health and community health nursing- world and India, various health and family welfare committees.</li> <li>• Current status, trends and challenges of community Health Nursing</li> <li>• Health status of the Community diagnosis</li> <li>• Scope of Community health nursing practice</li> <li>• Ethical and legal issues</li> <li>• Socio- cultural issues in community health nursing</li> <li>• National policies, plans and programs</li> <li>• National health policy</li> <li>• National population policy</li> <li>• National Health and Welfare programmes</li> <li>• National Health goals/ indicators/ millennium developmental goals (MDG/ Strategies.</li> <li>• Planning process: Five year plans</li> <li>• National Rural Health Mission</li> <li>• Panchayat raj institutions</li> </ul>



II	10	<p>Health</p> <ul style="list-style-type: none"> <li>• Concepts issue</li> <li>• Determinants</li> <li>• Measurement</li> <li>• Alternate Systems for health promotion and management of health problems</li> <li>• Health economics</li> <li>• Health technology</li> <li>• Genetics and Health</li> <li>• Waste disposal</li> <li>• Eco System</li> </ul>
III	15	<p>Population dynamics and control</p> <ul style="list-style-type: none"> <li>• Demography</li> <li>• Transition and theories of population</li> <li>• National population policy</li> <li>• National population programs</li> <li>• Population control and related programmes</li> <li>• Methods of family limiting and spacing</li> <li>• Research Census National Family Health Survey</li> </ul>
IV	30	<p>Community Health Nursing</p> <ul style="list-style-type: none"> <li>• Philosophy, Aims, Objectives, Concepts Scope principles, Functions</li> <li>• Community health Nursing theories and models</li> <li>• Quality assurance: Community health Nursing standers, competencies, Monitoring community health nursing, nursing audits</li> <li>• Family nursing and Family centered nursing approach</li> <li>• Family health nursing process</li> <li>• Family health assessment</li> <li>• Diagnosis</li> <li>• Planning</li> <li>• Intervention</li> <li>• Evaluation</li> <li>• Nursing care for special groups children, adolescents, adults, women, elderly, physically and mentally challenged – Urban and rural population at large</li> <li>• Community nutrition</li> <li>• Concepts, role and responsibilities of community health nursing practitioners / nurse midwifery practitioners – decision making skills, professionalism, legal issues.</li> </ul>
V	10	<p>Information, education and communication</p> <ul style="list-style-type: none"> <li>• IEC/ BCC; Principles and strategies</li> <li>• Communication Skills</li> <li>• Management information and evaluation system: Records and reports</li> <li>• Information technology</li> <li>• Tele medicine and tele nursing</li> <li>• Journalism</li> <li>• Mass</li> </ul>

## Practical

**Total 330**

**Week – 30 Hours**

<b>S.No.</b>	<b>Deptt. / Unit</b>	<b>No. of Week</b>	<b>Total Hours</b>
1	Sub- Centre, PHC- CHC	6	180
2	District Family Welfare bureau	1	30
3	Urban centers	3	90
4	Field visits	1	30
	<b>Total</b>	<b>11 week</b>	<b>330 Hours</b>

### Student activities

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

### INTERANL ASSESSMENT

- Test 50
- Assignment 25
- Presentation 25

Out of 25- 100/4

## Bibliography

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5. Bt Basavanthappa, Nursing Administration, JP Brothers, Medical Publisher Ltd. New Delhi
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15. Kalline Ethell, Textbook of Public Health Nursing, St. Louis: The C.V Mosby Company. 1967.
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17. Park, J.E. and Park, Textbook of Preventive and Social Medicine, Jabalpur: Singhal Printing Press, 10<sup>th</sup> ed. 1985.
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19. Rao,. M.N. and Radhalaxmi K.K. History of Public Health in India, Calcutta, Havana Printing Works. Private Ltd. 1960

**MASTER OF NURSING**

**1<sup>ST</sup> YEAR**

**SEMESTER- II**

**Master of Nursing**  
**NURSING EDUCATION – II**  
**Paper- V**  
**Nursing Education**

**Hours of Instruction**  
**Theory 75hrs**  
**Practical 75 hours**  
**Total : 150hrs**

**Placement : 1<sup>st</sup> Year**  
**Semester: II**

**Course Description**

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.

**Objectives;**

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

1. Critically analyze the existing nursing, Educational programs, their problems, issues and future trends.
2. Describe the process of curriculum development, and the need and methodology of curriculum change, innovation and integration
3. Plan and conduct continuing nursing education programs.
4. Critically analyze the existing teacher preparation programs in nursing.
5. Demonstrate skill in guidance and counseling.
6. Describe the problems and issues related to administration of nursing curriculum including selection and organization of clinical experience.
7. Explain the development of standards and accreditation process in nursing education programs.
8. Identify research priorities in nursing education
9. Discuss various models of collaboration in nursing education and services.

Unit	Hours		Course Content
	Theory	Practical	
I	5	6	<b>Nursing Educational Programs</b> <ul style="list-style-type: none"> <li>• Perspectives of nursing education: Global and national</li> <li>• Patterns of nursing education and training programmes in India. Non-university programs; ANM, GNM, Basic B.Sc Nursing Post Certificate B.Sc. Nursing. M.Sc (N) Programs, M.Phil and Ph.D) in nursing post basic diploma programe, nurse practitioner programs.</li> </ul>
II	12	35	<b>Continuing Education in Nurisng</b> <ul style="list-style-type: none"> <li>• Concepts – Definition importance need scope, principles of adult learning, assessment of learning needs, priorities, resources.</li> <li>• Program planning, implementation and evaluation of continuing education programs.</li> <li>• Research in continuing education</li> <li>• Distance education in nursing.</li> </ul>

III	10	10	<b>Curriculum Development</b> <ul style="list-style-type: none"> <li>• Definition, curriculum determinants process and steps of curriculum development, Curriculum models, Types and frame work</li> <li>• Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan unit plan.</li> <li>• Evaluation strategies, process of curriculum change, bodies and other stakeholders.</li> <li>• Equivalency of courses: transcripts, credit system.</li> </ul>
IV	8	4	<b>Teacher preparation</b> <ul style="list-style-type: none"> <li>• Teacher- roles &amp; responsibilities – functions, characteristics, competencies, qualities.</li> <li>• Preparation of professional aspects of teacher preparation programs</li> <li>• Evaluation: self and peer</li> <li>• Critical analysis of various programs of teacher education in India.</li> </ul>
V	10	10	<b>Guidance and counseling</b> <ul style="list-style-type: none"> <li>• Concept, principles, need, difference between guidance and counseling, trends and issues</li> <li>• Guidance and counseling services: diagnostic and remedial.</li> <li>• Coordination and organization of services</li> <li>• Techniques of counseling: interview, case work, characteristics of counselor, problems in counseling.</li> <li>• Professional preparation and training for counseling</li> </ul>
VI	15	10	<b>Administration of Nursing Curriculum</b> <ul style="list-style-type: none"> <li>• Role of curriculum coordinator – planning, implementation and evaluation</li> <li>• Evaluation of educational programs in nursing course and program</li> <li>• Factors influencing faculty staff relationship and techniques of working together.</li> <li>• Concept of faculty supervisor (dual) position.</li> <li>• Curriculum research in nursing</li> <li>• Different models of collaboration between education and services</li> </ul>
VII	10		<b>Management of nursing educational institutions</b> <ul style="list-style-type: none"> <li>• Planning organizing, staffing, budgeting, recruitment, discipline, public relation performance appraisal, welfare services library service hostel.</li> </ul>
VIII	5	5	<ul style="list-style-type: none"> <li>• Development and maintenance of standards and accreditation in nursing education programs.</li> <li>• Role of Indian nursing council, state registration nursing councils, boards and university.</li> <li>• Role of professional association and unions.</li> </ul>

**Activities :**

- 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 visit.

**Methods of Teaching**

- Lecture cum discussion
- Demonstration/ Return demonstration
- Seminar/ Presentation
- Projects work
- Field visits
- Workshop

**Methods of evaluation**

- Tests
- Presentation
- Project work
- Written assignment

**Internal Assessment**

<b>Techniques</b>	<b>Weightage</b>
<b>Test – (2)</b>	<b>50</b>
<b>Assignment</b>	<b>25</b>
<b>Seminar/ presentation</b>	<b>25</b>
	<b>100</b>

<b>Practical Internal Assessment</b>	<b>Weightage</b>
Learning resource material	25
Practical teaching	50
Conduct workshop/short term course	25
	<b>100</b>

<b>Practical external assessment</b>	<b>weightage</b>
Practical teaching- I	50
Preparation/use of learning resource material	25
Construction of test/rotation plan	25
	<b>100</b>

**Master of Nursing  
Advance Nursing Practice – II  
Paper- VI  
Advance Nursing Practice**

**Placement : 1<sup>st</sup> Year  
Semester: II**

**Hours of Instruction  
Theory 75hrs  
Practical 100 hours  
Total : 175hrs**

**Course Description**

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

**Objectives;**

1. Describe scope of nursing practice
2. Identify latest trends in nursing and the basis of advance nursing practice.
3. Perform extended and expanded role of nurse.
4. Describe the concept of quality control in nursing
5. Use computer in patient care delivery system and nursing practice

Unit	Hours	Content
I	10	Genetics <ul style="list-style-type: none"> <li>• Review of cellular division, mutation and law of inheritance, human genome project, the Genomic era.</li> <li>• Basic concepts of genes, Chromosomes &amp; DNA.</li> <li>• Approaches to common genetic disorders</li> <li>• Genetic testing basis of genetic diagnosis, Presymptomatic and predisposition testing, prenatal diagnosis &amp; screening, Ethical, legal &amp; psychosocial issues in genetic testing.</li> <li>• Genetic counseling</li> <li>• Practical application of genetics in nursing</li> </ul>
II	30	Psychological aspects and Human relations <ul style="list-style-type: none"> <li>• Human behavior life processes &amp; growth and development, personality development defense mechanisms</li> <li>• Communication interpersonal relation</li> <li>• Principles and techniques of counseling</li> </ul>
III	10	Nursing practice <ul style="list-style-type: none"> <li>• Framework, scope and trends</li> <li>• Alternative modalities of care, alternative systems fo health and complimentary therapies</li> <li>• Extended and expanded role of the nurse, in promotive preventive, curative and restorative health care delivery system in community and institutions</li> <li>• Health promotion and primary health care</li> <li>• Independent practice issues, Independent nurse midwifery practitioner.</li> <li>• Collaboration issues and models within and outside nursing</li> <li>• Models of Prevention</li> <li>• Family nursing Home nursing</li> <li>• Gender sensitive issues and women empowerment</li> <li>• Disaster nursing</li> </ul>



		<ul style="list-style-type: none"> <li>• Geriatric consideration in nursing</li> <li>• Evidence based nursing practice Best practices</li> <li>• Trans cultural nursing</li> </ul>
lv	25	<p>Computer application for patients care delivery system and nursing practice</p> <ul style="list-style-type: none"> <li>• Use of computers in teaching learning research and nursing practice.</li> <li>• Windows MS office, Word, Excel, Power Point</li> <li>• Internet, literature search.</li> <li>• Statistical packages.</li> <li>• Hospital management information system software;</li> </ul>

### Practical

Clinical posting in the following areas:

- Specialty area in patient unit      1week
- Community health center/PHC      1week
- Emergency/ICU      1week

### Activities

- Prepare case studies with nursing process approach and theoretical basis
- Presentation of comparative picture of theories
- Family case work using model of prevention
- Annotated bibliography
- Report of field visits –(2)

### Methods of teaching

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

### Methods of evaluation

- Tests
- Presentation
- Seminar
- Written assignments

### Advance nursing Procedures

Definition indication and nursing implications

- CPR, TPN, Hemodynamic monitoring, Endotracheal intubation, Tracheotomy, mechanical ventilation  
Pacemaker, Hemodialysis, Peritoneal dialysis , LP, BT Pleural and abdominal parecentasis OT techniques,  
Health assessment Triage, pulse Oxymetry.

<b>Techniques</b>	<b>Weightage</b>
<b>Test – (1)</b>	<b>50</b>
<b>Assignment</b>	<b>25</b>
<b>Seminar/ presentation</b>	<b>25</b>
	<b>100</b>

**Master of Nursing  
STATISTICS – II  
Paper- VII  
Statistic**

**Placement : 1<sup>st</sup> Year  
Semester: II**

**Hours of Instruction  
Theory 50hrs  
Practical 50 hours  
Total : 100hrs**

**Course Description**

At the end of the course the students will be able to develop and 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.

**Content Outline**

Unit	Hours		Course Content
	Theory	Practical	
I	7	4	<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>• Sample, parameter</li> <li>• Type and levels of data and their measurement</li> <li>• Organization and presentation of data – tabulation of data:</li> <li>• Frequency distribution</li> <li>• Graphical and tabular presentations.</li> </ul>
II	4	4	<b>Measures of central tendency:</b> <ul style="list-style-type: none"> <li>• Mean, Median, Mode</li> </ul>
III	4	4	<b>Measures of variability:</b> <ul style="list-style-type: none"> <li>• Range, Percentiles, average deviation, quartile deviation, standard deviation</li> </ul>
IV	3	2	<b>Normal distribution :</b> <ul style="list-style-type: none"> <li>• Probability, Characteristics and application of normal probability curve; sampling error.</li> </ul>
V	6	8	<b>Measures of relationship:</b> <ul style="list-style-type: none"> <li>• Correlation - need and manning</li> </ul>

			<ul style="list-style-type: none"> <li>Rank order correlation</li> <li>Scatter diagram method</li> <li>Product moment correlation</li> <li>Simple Linear regression analysis and predication</li> </ul>
VI	5	2	<b>Designs and meaning :</b> <ul style="list-style-type: none"> <li>Experimental designs</li> <li>Comparison in pairs, randomized block design, latin squares.</li> </ul>
VII	8	10	<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 – ‘t’ test, Anova, Manova, Ancova</li> </ul>
VIII	5	5	<b>Use of statistical methods in psychology and education</b> <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>
XI	4	2	<b>Application of statistics in health:</b> <ul style="list-style-type: none"> <li>Rations, rates, trends</li> <li>Vital health statistics- birth and death rates.</li> <li>Measures related to fertility, morbidity and mortality</li> </ul>
X	4	8	<b>Use of computers for data analysis</b> <ul style="list-style-type: none"> <li>Use of statistical package.</li> </ul>

#### 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 - 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 exercise.

#### Internal Assessment

Techniques

Weight age 25

Term Test (2 tests)

100%

## STATISTICS

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**Master of Nursing**  
**CLINICAL SPECIALITY – I-B**  
**MEDICAL SURGICAL NURSING- I- B**  
**Paper- VIII (2)**

**Placement -1<sup>st</sup> year**  
**Semester – II**

**Hours of instruction**  
**Theory : 75 hrs.**  
**Practical : 330 hrs.**  
**Total : 405 hrs.**

**Course Description**

This course is common for the students undergoing clinical speciality – II in neuro science nursing / cardiovascular & thoracic nursing/ critical care nursing / oncology nursing/ orthopedic and rehabilitation nursing/ nephro & urology nursing. Gastro enterology nursing/ geriatric nursing.

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

**Objectives**

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

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

**COURSE CONTENT:**

<b>Unit</b>	<b>Hours</b>	<b>Content</b>
<b>I</b>	<b>10</b>	<b>Management of Patient with disorders of genito urinary system</b> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders – etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment – History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends</li> <li>• Nursing management.</li> <li>• Related research studies</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow – up</li> </ul>
<b>II</b>	<b>10</b>	<b>Management of patient with disorder of endocrine system</b> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders – etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment – History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends</li> <li>• Nursing management.</li> <li>• Related research studies</li> <li>• Evidence based nursing practice.</li> </ul> Rehabilitation and follow – up
<b>III</b>	<b>10</b>	<b>Management of patient with disorder of musculo- skeletal system</b> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders – etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment – History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends</li> <li>• Nursing management.</li> <li>• Related research studies</li> <li>• Evidence based nursing practice.</li> </ul> Rehabilitation and follow – up
<b>IV</b>	<b>8</b>	<b>Management of patient with disorders of integumentary system</b> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders – etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment – History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends</li> <li>• Nursing management.</li> <li>• Related research studies</li> <li>• Evidence based nursing practice.</li> </ul> Rehabilitation and follow – up
<b>V</b>	<b>5</b>	<b>Management of patient with disorders of Eye and ENT</b>

		<ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders – etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment – History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends</li> <li>• Nursing management.</li> <li>• Related research studies</li> <li>• Evidence based nursing practice.</li> </ul> <p>Rehabilitation and follow – up</p>
<b>VI</b>	<b>8</b>	<p><b>Management of patients with disorders of reproductive system</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders – etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment – History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends</li> <li>• Nursing management.</li> <li>• Related research studies</li> <li>• Evidence based nursing practice.</li> </ul> <p>Rehabilitation and follow – up</p>
<b>VII</b>	<b>8</b>	<p><b>Geriatric nursing</b></p> <ul style="list-style-type: none"> <li>▪ Nursing Assessment-History and Physical assessment.</li> <li>▪ Ageing;</li> <li>▪ Demography; Myths and realities.</li> <li>▪ Concepts and theories of ageing.</li> <li>▪ Cognitive Aspects of Ageing.</li> <li>▪ Normal biological ageing.</li> <li>▪ Age related body systems changes.</li> <li>▪ Psychosocial Aspects of Aging.</li> <li>▪ Medications and elderly.</li> <li>▪ Stress &amp; coping in older adults.</li> <li>▪ Common Health Problems &amp; Nursing Management;</li> <li>▪ Psychosocial and Sexual.</li> <li>▪ Abuse of elderly.</li> <li>▪ Role of nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual.</li> <li>▪ Role of family and formal and non formal caregivers.</li> <li>▪ Use of aids and prosthesis (hearing aids, dentures,</li> <li>▪ Legal &amp; Ethical Issues.</li> <li>▪ Provisions and Programmes for elderly; privileges, Community Programs and health services;</li> <li>▪ Home and institutional care.</li> </ul> <p>Issues, problems and trends</p>
<b>VIII</b>	<b>8</b>	<p><b>Management of patients with communicable and sexually transmitted diseases:</b></p> <ul style="list-style-type: none"> <li>▪ Review of immune system.</li> <li>▪ Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Treatment modalities and trends.</li> <li>▪ Nursing management.</li> <li>▪ Related research studies.</li> <li>▪ Evidence based nursing practice.</li> <li>▪ Rehabilitation and follow-up.</li> </ul>
<b>IX</b>	<b>8</b>	<p><b>Emergency, trauma and multi-system organ failure</b></p> <ul style="list-style-type: none"> <li>▪ DIC (disseminated intravascular coagulation)</li> <li>▪ Trauma, burns, poisoning</li> <li>▪ Etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>▪ Health assessment-History taking, physical examination, investigation and diagnostic assessment. <ul style="list-style-type: none"> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul> </li> </ul>

### Practical

**Total = 330 Hours.**  
**1 Week = 30 Hours**

S. No.	Dept / Unit	No. of Week	Total Hours
1	General Medical Ward	3	90 Hours
2	General Surgical Ward	3	90
3	ICUs		
4	Oncology	1	30
5	Ortho	2	60
6	Cardio		
7	Emergency Department	2	60
8	Neuro		
	<b>Total</b>	<b>11 Week</b>	<b>330 Hours</b>

### Student Activities:

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



**Master of Nursing**  
**CLINICAL SPECIALITY – I-B**  
**Paper- VIII (ii)**  
**OBSTETRIC AND - GYNAECOLOGICAL NURSING-B**

Placement : 1<sup>st</sup> year  
 Sem. II

Hours of Instruction  
 Theory : 75 Hrs.  
 Practical : 330 Hrs.  
 Total : 405 Hrs.

**Course Description**

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

**Objectives**

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

- Appreciate the trends in the field of midwifery, obstetrics and gynaecology as a speicality.
- Describe the population dynamics and indicators of maternal and child health
- Provide comprehensive nursing care to women maternity and gynecological conditions.
- Describe the pharmacological agents, their effects during pregnancy, child birth, ppuerperium , lactation and the role of nurse.
- Describe the role of various types of complementary and alternative therapies in obstetric and gynecological nursing
- Incorporate evidence based nursing practice and identify the areas of research in the field of obstetric and gynaecological nursing
- Describe the recent advancement in contraceptive technology and birth control measures
- Appreciate the legal and ethical issues pertaining to obstetric and gynaecological nursing.

**Course Content**

<b>Units</b>	<b>Hours</b>	<b>Content</b>
<b>I</b>	<b>10</b>	Introduction <ul style="list-style-type: none"> <li>• Historical and contemporary perspectives</li> <li>• Epidemiological aspects of maternal and child health</li> <li>• Magnitude of maternal and child health problem</li> <li>• Issues of maternal and child health: Age, Gender, Sexuality, psycho Social cultural factors.</li> </ul>

		<ul style="list-style-type: none"> <li>• Preventive obstetrics</li> <li>• National health and family welfare programmes related to maternal and child health: health care delivery system National Rural Health mission, Role of NGO's</li> <li>• Theories, models and approaches applied to midwifery practice midwifery practitioner</li> <li>• Legal and Ethical issues: Code of ethics and standards of midwifery practice, standing orders.</li> <li>• Evidence based midwifery practice</li> <li>• Research priorities in obstetric and gynecological nursing</li> </ul>
<b>II</b>	<b>7</b>	<b>Human Reproduction genetics</b> <ul style="list-style-type: none"> <li>• Genetics, teratology and counseling</li> <li>• Clinical implications</li> </ul>
<b>III</b>	<b>5</b>	<b>Pregnancy</b> <ul style="list-style-type: none"> <li>• Preparation for child birth and parent hood, importance of institutional delivery, choice, of birth setting imporatince and mobilizing of transportation, prenatal counseling role of nurse and crisis intervention, identification of high rule pregnancy and refer.</li> <li>• Alternative/ complementary therapies</li> </ul>
<b>IV</b>	<b>3</b>	<b>Normal Labour and nursing management:</b> <ul style="list-style-type: none"> <li>• Various child birth practice: water birth, position change etc</li> <li>• Evidence based practice in relation to labour intervention</li> </ul> <b>Role of nurse midwifery practitioner</b> <ul style="list-style-type: none"> <li>• Alternative/ complementary therapies</li> </ul>
<b>V</b>	<b>5</b>	<b>Normal puerperium and nursing management</b> <ul style="list-style-type: none"> <li>• Minor discomforts and complication of puerperium</li> <li>• Evidence base studies</li> </ul> <b>Role of nurse midwifery practitioner</b> <ul style="list-style-type: none"> <li>• Alternative/ complementary therapies</li> </ul>
<b>VI</b>	<b>10</b>	<b>Normal Newborn</b> <ul style="list-style-type: none"> <li>• Essential newborn care. Exclusive breast feeding immunization, Hygiene measures, Newborn nutrition, organization of neonatal care, services levels, transport, Neonatal intensive care unit, organization and management of nursing services in NICU.</li> <li>• Parenting process</li> </ul>
<b>VII</b>	<b>10</b>	<b>Pharmoco dynamics in obstetrics</b> <ul style="list-style-type: none"> <li>• Drugs used in pregnancy, Labour, post partum and newborn</li> <li>• Calculation of drug dose and administration</li> <li>• Effects of drugs used</li> <li>• Anesthesia and analgesia in obstetrics</li> <li>• Roles and responsibilities of midwifery nurse practitioner</li> <li>• Standing orders and protocols and use of selected life saving drugs and intervention of obstetric emergencies approved by the MOHFW.</li> </ul>
<b>VIII</b>	<b>10</b>	<b>Family welfare services</b> <ul style="list-style-type: none"> <li>• Population dynamics</li> <li>• Demography trends: vital statistics, calculation of indicators especially maternal and neonatal mortality rates and problems and other health problems</li> </ul>

		<ul style="list-style-type: none"> <li>• Recent advancement in contraceptive technology</li> <li>• Role of nurses in family welfare programmes in all settings</li> <li>• Role of independent nurse midwifery practitioner</li> <li>• Family life education</li> <li>• Evidence based studies</li> <li>• Information, Education and Communications (IEC)</li> <li>• Management information and evaluation systems (MIES)</li> <li>• Teaching and supervision of health team members</li> </ul>
<b>IX</b>	<b>5</b>	<b>Infertility</b> <ul style="list-style-type: none"> <li>• Primary and secondary causes</li> <li>• Diagnostic procedures</li> <li>• Counseling: Ethical and legal aspects of assisted reproductive technology (ART)</li> <li>• Recent advancement in infertility management.</li> <li>• Adoption procedures</li> </ul> <b>Role of nurse in infertility management</b>
<b>X</b>	<b>5</b>	<b>Menopause</b> <ul style="list-style-type: none"> <li>• Physiological , psychological and social aspects</li> <li>• Hormone replacement therapy</li> <li>• Surgical menopause</li> <li>• Counseling and guidance</li> </ul> <b>Role of midwifery nurse practitioner</b>
<b>XI</b>	<b>5</b>	<b>Abortion</b> <ul style="list-style-type: none"> <li>• Types, causes</li> <li>• Legislations, Clinical rights and professional responsibility</li> <li>• Abortion procedures</li> <li>• Complications</li> <li>• Nursing management</li> </ul> <b>Role of midwifery nurse practitioner</b>

### Practical

**Total 330  
1 week- 30 hours**

S. No.	Dept / Unit	No. of Week	Total Hours
1	Anetenatal Wards & OPDs	2	60
2	Labour Room	2	60
3	Postnatal Ward	1	30
4	Family Planning Clinics	2	60
5	Gynae	2	60
6	Maternity OT	2	60
	<b>Total</b>	<b>11 Week</b>	<b>330 Hours</b>

### Procedures observed

- Diagnostic investigations: amniocentesis, chordocentecis, chorionic villisampling.

- Infertility management: artificial reproduction: artificial insemination, invitro fertilization, & related procedures

#### **Procedure assisted**

- Medical termination of pregnancy.

#### **Procedure performed**

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

#### **Others**

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

Master of Nursing  
Clinical Specialty –I- B  
Child Health ( Paediatric) Nursing  
Paper- VIII (iii)

Placement 1<sup>st</sup> year

Semester II

Hours of Instruction  
Theory 75 hours  
Practical 330 hours  
Total: 405 Hours

### Course Description

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

### Objectives

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

1. Describe various recent technologies and treatment modalities in the management of high risk neonates
2. Appreciate the legal and ethical issues pertaining to pediatric and neonatal nursing
3. Prepare a design for layout and management of neonatal units
4. Incorporate evidence based nursing practice and identify the areas of research in the field of pediatric /neonatal nursing
5. Recognize the role of pediatric nurse practitioner and as a member of pediatric and neonatal health team.
6. Teach pediatric nursing to undergraduate students and in service.

### Course Content

Units	Hours	Content
<b>1</b>	<b>15</b>	<p><b>Preventative pediatrics and pediatric nursing</b></p> <ul style="list-style-type: none"> <li>• Concept aims and scope of preventive pediatrics,</li> <li>• Maternal health, and its influence on child health antenatal aspects of preventive pediatrics</li> <li>• Immunization expanded program on immunization/ universal immunization program and cold chain.</li> <li>• Nutrition and nutritional requirement of children, changing patterns of feeding, baby friendly hospital initiative and exclusive breast feeding.</li> <li>• Health education, nutritional education for children</li> <li>• Nutritional programs</li> </ul>

		<ul style="list-style-type: none"> <li>• National and international organization related to child health .</li> <li>• Role of pediatric nurse in the hospital and community.</li> </ul>
<b>II</b>	<b>30</b>	<p><b>Neonatal Nursing</b></p> <ul style="list-style-type: none"> <li>• New born baby profile and characteristics of the new born,</li> <li>• Assessment of the new born</li> <li>• Nursing care of the new born at birth , care of the new born and family</li> <li>• High risk newborn preterm and term neonate and growth retarded babies.</li> <li>• Identifications and classifications of neonates with infections, HIV and AIDS, ophthalmia neonatorum, congenital syphilis</li> <li>• High risk new born identification, classification and nursing management</li> <li>• Organization of neonatal care, services (Level) transport neonatal intensive care unit, organization and management of nursing services in NICU)</li> </ul>
<b>III</b>	<b>30</b>	<p><b>IMNCI</b></p> <ul style="list-style-type: none"> <li>• (integrated management of neonatal and childhood illness)</li> </ul> <p>Chapter- I Integrated management of neonatal and childhood illness</p> <ul style="list-style-type: none"> <li>• The inequities of child health and Indian situation</li> <li>• Rationale for an evidence based syndromic approach to case management</li> <li>• Components of the integrated approach'</li> <li>• The principles of integrated care</li> <li>• The IMNCI case management process</li> </ul> <p>Chapter- 2 Out patient management of young infants age up to 2 months</p> <ul style="list-style-type: none"> <li>• Learning objectives</li> <li>• Assessment of sick young infants</li> <li>• Communicating with the caretaker</li> <li>• Checking for possible bacterial infection/ jaundice</li> <li>• Checking for diarrhea</li> <li>• Checking for feeding problems or malnutrition</li> <li>• Checking immunization status</li> <li>• Assessing other problems</li> </ul> <p>Treatment of sick young infants</p> <ul style="list-style-type: none"> <li>• Referral of young infants age up to 2 months</li> <li>• Treatment in outpatient clinics</li> <li>• Oral drugs</li> <li>• Treatment of local infections</li> <li>• Counseling a mother or caretaker</li> <li>• Follow up care</li> <li>• Counsel the mother about her own health</li> </ul> <p>Chapter- 3 Outpatient management of children age 2 months up to 5 years</p> <ul style="list-style-type: none"> <li>• Learning objectives</li> <li>• Assessment of sick children</li> </ul>

		<ul style="list-style-type: none"> <li>• Checking for general danger signs</li> <li>• Checking main symptoms</li> <li>• Cough or difficult breathing</li> <li>• Diarrhea</li> <li>• Fever</li> <li>• Ear problems</li> <li>• Checking for malnutrition</li> <li>• Checking for anaemia</li> <li>• Checking immunization, vitamin A and Folic acid supplementation status</li> <li>• Assessing other problems</li> </ul> <p>(III) Treatment of sick children</p> <ul style="list-style-type: none"> <li>• Referral of children age 2 months up to 5 years</li> <li>• Treatment in outpatient clinics</li> <li>• Oral drugs</li> <li>• Treatment of local infections</li> <li>• Counseling a mother or caretaker</li> <li>• Follow up care</li> </ul> <p>Chapter – 4 Principles of management of sick children in a small hospital</p>
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## Practical

**Total 330**  
**1 week 30 hours**

S. No.	Dept / Unit	No. of Week	Total Hours
1	Labour Room / Maternity Ward	2	60
2	Paed, OPD	1	30
3	NICU	4	120
4	Creche	1	30
5	Child Guidance Clinic	1	30
6	Community	2	60
	<b>Total</b>	<b>11 Week</b>	<b>330 Hours</b>

## Student Activities

- Health education related to disease conditions
- Nutritional assessment
- Project work
- Field visits

## Master of Nursing

### CLINICAL SPECIALITY – I-B

#### MENTAL HEALTH (PSYCHIATRIC) NURSING

Placement : 1<sup>st</sup> Year

Semester: II

**Hours of Instruction**  
Theory 75hrs  
Practical 325 hours  
Total : 400hrs

#### Course Description

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

#### Objectives

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

1. Demonstrate the role of psychiatric nurse practitioner in various therapeutic modalities.
2. Use assertive techniques in personal and professional actions.
3. Promote self- esteem of clients, other and self.
4. Describe various types of alternative system of medicine used in psychiatric settings.
5. Incorporate evidence based nursing practice and identify the areas of research in the field of psychiatric nursing

#### Course Content

Units	Hours	Content
<b>I</b>	<b>10</b>	Assertive Training <ul style="list-style-type: none"><li>▪ Assertive Communication</li><li>▪ Basic Human Rights</li><li>▪ Response Patterns<ul style="list-style-type: none"><li>• (Nonassertive Behavior</li><li>• Assertive Behavior</li><li>• Aggressive Behavior</li><li>• Passive-Aggressive Behavior)</li></ul></li><li>▪ Behavioral Components of Assertive Behavior</li><li>▪ Techniques that Promote Assertive Behavior</li><li>▪ Thought-Stopping Techniques Method</li></ul> Role of The Nurse
<b>II</b>	<b>35</b>	<b>Psycho social and physical therapies</b> <ul style="list-style-type: none"><li>▪ Individual therapy</li><li>▪ Behavioural Therapy-Relaxation therapy, cognitive therapy, positive-negative reinforcement, bio-feedback, guided imagery, ab-reactive therapy</li></ul>



		<ul style="list-style-type: none"> <li>▪ Group Therapy</li> <li>▪ Family Therapy</li> <li>▪ Millie's Therapy</li> <li>▪ The Therapeutic Community</li> <li>▪ Occupational therapy</li> <li>▪ Recreational therapy</li> <li>▪ Play therapy</li> <li>▪ Music therapy</li> <li>▪ Light therapy</li> <li>▪ Color therapy</li> <li>▪ Aroma therapy</li> </ul>
<b>III</b>	<b>5</b>	<p>Electroconvulsive therapy</p> <ul style="list-style-type: none"> <li>▪ Historical perspectives</li> <li>▪ Indications</li> <li>▪ Contraindications</li> <li>▪ Mechanisms of action</li> <li>▪ Side effects</li> <li>▪ Risks associated with electroconvulsive therapy</li> <li>▪ The role of the nurse in electroconvulsive therapy</li> </ul>
<b>IV</b>	<b>15</b>	<p>Alternative systems of medicine in mental health</p> <ul style="list-style-type: none"> <li>▪ Types of Therapies <ul style="list-style-type: none"> <li>• Herbal Medicine</li> <li>• Unani</li> <li>• Siddha</li> <li>• Homeopathic</li> <li>• Acupressure and Acupuncture</li> <li>• Diet and Nutrition</li> <li>• Chiropractic Medicine</li> <li>• Therapeutic Touch and Massage</li> <li>• Yoga</li> <li>• Pet Therapy</li> </ul> </li> </ul>
<b>V</b>	<b>10</b>	<p>Psychopharmacology</p> <p>Historical Perspectives</p> <p>Role of a Nurse in Psychopharmacological Therapy</p> <ul style="list-style-type: none"> <li>• Antianxiety Agents</li> <li>• Antidepressants Agents</li> <li>• Mood stabilizers</li> <li>• Antipsychotics</li> <li>• Sedative-Hypnotics</li> <li>• Central Nervous System Stimulants</li> </ul> <p>Future developments</p>

## Practical

Total = 330 Hours

1 week = 30 Hours

S.No.	Area of Posting	No. of Week	Total Hours
1	Acute Psychiatric Ward	2	60
2	Chronic Psychiatric ward	2	60
3	Psychiatric Emergency Unit	1	30
4	O.P.D	1	30
5	Family psychiatric Unit	1	30
6	Community Mental Health Unit	2	60
7	Rehabilitation / Occupational Therapy Unit/ Half way home / Day care centre	2	60
	<b>Total</b>	<b>11 week</b>	<b>330 Hours</b>

## Student Activities

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

**Master of Nursing**  
**CLINICAL SPECIALITY – I-B**  
**Paper- VIII (V)**  
**Community Health NURSING**

**Placement : 1<sup>st</sup> Year**

**Semester: II**

**Hours of Instruction**  
**Theory 75hrs**  
**Practical 330 hours**  
**Total : 405hrs**

**Course Description**

Develop skill to function as Community Health Nurse Specialist practitioner. It would enable student to function as an educator, manager and researcher in the field of Community Health Nursing.

Objectives:- At the end of the course the student will be able to:-

1. Recognize and participate in the management of emergencies, Epidemics and disaster.
2. Apply recent technologies and care modalities while delivering community health nursing care.
3. Appreciate legal and ethical issues pertaining to community health nursing care.
4. Conduct community health nursing care projects.
5. Participate in planning, implementation and evaluation of various national health and family welfare programmes at local, state and the national level.
6. Incorporate evidence based nursing practice and identify the areas of research in the community setting.
7. Participate effectively as a member of community Health team
8. Coordinate and Collaborate with various agencies operating in the community by using intersect oral approach.
9. Teach community health nursing to undergraduates, in service nurse and the community health workers.
10. Demonstrate leadership and managerial abilities in community health nursing practice.

**Course Content**

<b>Units</b>	<b>Hours</b>	<b>Content</b>
<b>I</b>	<b>10</b>	<b>Introduction</b> <ul style="list-style-type: none"> <li>• Disaster nursing (INC module on Reaching out: Nursing Care in emergencies)</li> </ul>
<b>II</b>	<b>45</b> <b>5</b>	<b>Maternal and neonatal care</b> <ul style="list-style-type: none"> <li>• IMNCI ( intergrated Management of Neonatal and childhood illnesses) module.</li> <li>• Skilled birth Attendant (SBA) module</li> </ul>
<b>III</b>	<b>15</b>	<b>Health care delivery system: Urban, rural, tribal and difficult areas</b> <ul style="list-style-type: none"> <li>• Health care organizations: National, State, District, CHC, PHC, Sub centre.</li> <li>• Village – Functions, Staffing, pattern of assistance, layout, drugs. Equipments and supplies, Roles and responsibilities of DPHNO</li> </ul>

		<ul style="list-style-type: none"> <li>• Critical review of functioning of various levels, evaluation studies, recommendations and nursing perspectives</li> <li>• Alternative systems of medicine</li> <li>• Training and supervision of health workers.</li> <li>• Health agencies: NGO's, Roles and functions</li> <li>• Inter- sectoral coordination</li> <li>• Public private partnership</li> <li>• Challenges of health care delivery system</li> </ul>
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#### Practical

Total = 330

1 week = 30 hours.

S.No.	Deptt. /Unit	No. of week	Total Hours.
1.	Sub – Centre, PHC, CHC	6	180
2.	Urban centers	3	90
3.	Field visits	2	60
	<b>Total</b>	<b>11 week</b>	<b>330 Hours.</b>

#### Student Activities

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

#### Internal Assessment

- Test - 50
- Assignment 25
- Presentation 25

**Out of 25- 100/4**

# **Master of nursing**

## **Semester-III**

**Master of Nursing**  
**NURISNG MANAGEMENT – I**

**Paper- IX**

**Placement : II Year**

**Semester: III**

**Hours of Instruction**  
**Theory 75hrs**  
**Practical 75 hours**  
**Total : 150**

**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 a different levels to provide quality nursing services.

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

1. Collaborate and co-ordinate with various agencies by using multi pectoral approach
2. Discuss various collaborative models between nursing education and nursing service to improve the quality of nursing care.
3. Identify and analysis legal and ethical issues in nursing administration
4. Describe the process of quality assurance in nursing service.
5. Demonstrative leadership in nursing at various levels.

**Course Content**

Unit	Hours	Content
I	10	Introduction <ul style="list-style-type: none"><li>• Philosophy, purpose, elements, principles and scope of administration</li><li>• Indian constitution, Indian administrative system a health care delivery system: National, State and Local</li><li>• Organization and function of nursing Health policies, National population policy, National policy on AYUSH and plans.</li></ul>
II	10	Management <ul style="list-style-type: none"><li>• Functions of administration</li><li>• Planning and control</li><li>• Co-ordination and delegation</li><li>• Decision making decentralization basic goals of decentralization.</li><li>• Concepts of management</li></ul> Nursing management <ul style="list-style-type: none"><li>• Concepts types principles and techniques</li><li>• Vision and Mission statements</li><li>• Philosophy, aims and objectives</li><li>• Current trends and issues in Nursing Administration</li><li>• Theories and models</li></ul>

		Application to nursing service and education
III	15	<p>Planning</p> <ul style="list-style-type: none"> <li>• Planning process: concept, Principles, institutional policies</li> <li>• Mission, philosophy, objectives</li> <li>• Strategic planning</li> <li>• Operational plans</li> <li>• Management plans</li> <li>• Programme evaluation and review technique (PERT), Gantt chart, management by objectives (MBO)</li> <li>• Planning for change</li> <li>• Innovations in nursing</li> </ul> <p>Application to nursing service and education</p>
IV	15	<p>Organization</p> <ul style="list-style-type: none"> <li>• Concept, principles, objectives Types and Minimum requirements for organization, Developing an organizational climate.</li> <li>• Organising nursing services and patient care: methods of patient assignment – Advantages and disadvantages, primary nursing care,</li> <li>• Planning and Organising: hospital unit and ancillary services (specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc)</li> <li>• Disaster management: plan, resources, drill, etc.</li> </ul> <p>Application to nursing services and education</p>
V	15	<p>Human Resource for health</p> <ul style="list-style-type: none"> <li>• Staffing</li> <li>• Philosophy</li> <li>• Norms: Staff inspection unit (SIU), Bajaj Committee, High power committee, Indian nursing council (INC)</li> <li>• Estimation of nursing staff requirement- activity analysis</li> <li>• Various research studies</li> <li>• Recruitment: credentialing, selection, placement, promotion</li> <li>• Retention</li> <li>• Personnel policies</li> <li>• Termination</li> <li>• Staff development programme</li> <li>• Duties and responsibilities of various category of nursing personnel</li> </ul> <p>Application to nursing service and education</p>
VI	10	<p>Material management</p> <ul style="list-style-type: none"> <li>• Concepts, principles and procedures</li> <li>• Planning and procurement procedures: Specifications</li> <li>• ABC analysis</li> <li>• VED (very important and essential daily use) analysis</li> <li>• Planning equipments and supplies for nursing care unit and hospital</li> <li>• Inventory control</li> <li>• Condemnation</li> </ul> <p>Application to nursing service and education</p>

## **Practicals**

- 1.** Prepare prototype personal files for staff nurses, faculty and cumulative records
- 2.** Plan and conduct staff development programme
- 3.** Preparation of Organization Chart
- 4.** Design a layout plan for specialty units/ hospital, community and educational institutions
- 5.** Preparation of job description of various categories of nursing personnel
- 6.** Prepare a list of equipments and supplies for speciality units
- 7.** Assess and prepare staffing requirement for hospitals, community and educational institutions
- 8.** Plan of action recruitment process
- 9.** Prepare a vision and mission statement for hospital, community and educational institutions
- 10.** Prepare a plan for disaster management



## **NURSING MANAGEMENT**

- BM sakharkar," Prin



**Master of Nursing**  
**CLINICAL SPECIALITY – II (A)**  
**Medical Surgical Nursing**  
**Sub speciality – Cardio vascular and Thoracic Nursing (Part-a)**  
**Paper- X (2)**

**Placement : II Year**

**Semester: III**

**Hours of Instruction**  
**Theory 75hrs**  
**Practical 480 hours**  
**Total : 555**

**Course Description**

**Course Description**

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

**Objectives**

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

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

16. Incorporate evidence based nursing practice and identify the areas of research in the field of cardio vascular and thoracic nursing
17. Identify the sources of stress and manage burnout syndrome among health care providers.
18. Teach and supervise nurses and allied health workers.
19. Design a layout of ICCU and ICTU and develop standards for cardio vascular and thoracic nursing practice.

### Content Outline

Unit	Hours	Content
I	5	<b>Introduction</b> <ul style="list-style-type: none"> <li>▪ Historical development, trends and issues in the field of cardiology.</li> <li>▪ Cardio vascular and thoracic conditions – major health problem.</li> <li>▪ Concepts, principles and nursing perspectives</li> <li>▪ Ethical and legal issues</li> <li>▪ Evidence based nursing and its application in cardio vascular and thoracic nursing ( to be incorporated in all the units)</li> </ul>
II	5	<b>Epidemiology</b> <ul style="list-style-type: none"> <li>▪ Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc</li> <li>▪ Health promotion, disease prevention, Life style modification</li> <li>▪ National health programs related to cardio vascular and thoracic conditions</li> <li>▪ Alternate system of medicine</li> <li>▪ Complementary therapies</li> </ul>
III	5	<b>Review of anatomy and physiology of cardio vascular and respiratory system</b> <ul style="list-style-type: none"> <li>▪ Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung.</li> <li>▪ Coronary circulation</li> <li>▪ Hemodynamic and electro physiology of heart.</li> <li>▪ Bio-chemistry of blood in relation to cardio pulmonary function.</li> </ul>
IV	20	<b>Assessment and Diagnostic Measures:</b> <ul style="list-style-type: none"> <li>▪ History taking</li> <li>▪ Physical assessment <ul style="list-style-type: none"> <li>• Heart rate variability: Mechanisms, measurements, pattern, factors, impact of interventions on HRV</li> </ul> </li> <li>▪ Diagnostic tests <ul style="list-style-type: none"> <li>• Hemodynamic monitoring: Technical aspects, monitoring, functional hemodynamic indices, ventricular function indices, output measurements (Arterial and swan Ganz monitoring). Blood gases and its significance, oxygen supply and demand</li> <li>• Radiologic examination of the chest: interpretation, chest film findings</li> <li>• Electro cardiography (ECG): electrical conduction through the heart, basic electrocardiography, 12 lead electrocardiogram, axis determination</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>- ECG changes in : intraventricular conduction abnormalities Arrhythmias, ischemia, injury and infarction, atrial and ventricular enlargement, electrolyte imbalance,</li> <li>• Echocardiography: technical aspects, special techniques, echocardiography of cardiac structures in health and disease, newer techniques</li> <li>• Nuclear and other imaging studies of the heart: Magnetic Resonance Imaging.</li> <li>• Cardio electrophysiology procedures: diagnostic studies, interventional and catheter ablation, nursing care</li> <li>• Exercise testing: indications and objectives, safety and personnel, pretest considerations, selection, interpretation, test termination, recovery period</li> <li>• Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data</li> <li>• Pulmonary function test: Bronchoscopy and graphics</li> <li>• Interpretation of diagnostic measures</li> <li>• Nurse's role in diagnostic tests</li> <li>▪ Laboratory tests using blood: Blood specimen collection, Cardiac markers, Blood lipids, Hematologic studies, Blood cultures, Coagulation studies, Arterial blood gases, Blood Chemistries, cardiac enzyme studies, serum concentration of selected drugs.</li> <li>▪ Interpretation and role of nurse</li> </ul>
<b>V</b>	<b>25</b>	<p><b>Cardiac disorders and nursing management:</b></p> <ul style="list-style-type: none"> <li>▪ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: <ul style="list-style-type: none"> <li>• Hypertension</li> <li>• Coronary Artery Disease.</li> <li>• Angina of various types.</li> <li>• Cardiomegaly</li> <li>• Myocardial infarction, Congestive cardiac failure</li> <li>• Heart Failure, Pulmonary Edema, Shock.</li> <li>• Rheumatic heart disease and other Valvular Diseases</li> <li>• Inflammatory Heart Diseases, Infective Endocarditic, Myocarditis, Pericarditis.</li> <li>• Cardiomyopathy, dilated, restrictive, hypertrophic.</li> <li>• Arrhythmias, heart block</li> </ul> </li> </ul> <p>Associated illnesses</p>
<b>VI</b>	<b>10</b>	<p><b>Altered pulmonary conditions</b></p> <ul style="list-style-type: none"> <li>▪ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: <ul style="list-style-type: none"> <li>• Bronchitis</li> <li>• Bronchial asthma</li> <li>• Bronchiectasis</li> <li>• Pneumonias</li> <li>• Lung abscess, lung tumour</li> <li>• Pulmonary tuberculosis, fibrosis, pneumoconiosis etc</li> <li>• Pleuritis, effusion</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <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 embolism</li> <li>• Pulmonary Hypertension</li> </ul>
<b>VII</b>	<b>5</b>	<b>Intensive Coronary Care Unit/intensive cardio thoracic unit:</b> <ul style="list-style-type: none"> <li>• Quality Assurance</li> <li>• Standards, Protocols, policies, Procedures</li> <li>• Nursing audit</li> <li>• Design of ICCU/ICTU</li> <li>• Staffing: Cardiac team</li> <li>• Burn out syndrome Nurse's role in the management of I.C.C.U and ICTU</li> <li>• Mobile coronary care unit.</li> <li>• Planning inservice educational programme and teaching.</li> </ul>

### Practical

**Total = 480 Hours.**  
**1 Week = 30 Hours**

S. No.	Dept / Unit	No. of Week	Total Hours
1	Cardio thoracic -Medical	2	60 hrs.
	-Surgical	2	60
2	OTs (cardiac and thoracic)	2	60
3	Casualty	1	30
4	Diagnostic labs including cath lab	1	30
5	ICCU		
6	ICU		
7	CCU	4	120
8	Paediatric Intensive	2	60
9	OPD	2	60
	<b>Total</b>	<b>16 Week</b>	<b>480 Hours</b>

### Essential Nursing Skills

#### Procedures Observed

1. Echo cardiogram
2. Ultrasound
3. Monitoring JVP,CVP
4. CT SCAN
5. MRI
6. Pet SCAN

7. Angiography
8. Cardiac catheterization
9. Angioplasty
10. Various Surgeries
11. Any other

## **I Procedures Assisted**

1. Arterial blood gas analysis
2. Thoracentesis
3. Lung biopsy
4. Computer assisted tomography (CAT Scan)
5. M.R.I.
6. Pulmonary angiography
7. Bronchoscopy
8. Pulmonary function test
9. ET tube insertion
10. Tracheotomy 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 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. Tuberculen skin test
7. Aerosal therapy
8. Nebulizer therapy
9. Water seal drainage
10. Chest physiotherapy including-Breathing Exercises  
Coughing Exercises  
Percussion & Vibration

11. Suctioning – Oropharyngeal, nasotracheal, Endotracheal
12. Artificial airway cuff maintenance
13. CPR
14. Care of client on ventilator
15. Identification of different- Arrhythmias
  - Abnormal pulses, respirations
  - B.P. Variation
  - Heart sounds
  - Breath sounds
16. Pulse oxymetry
17. Introduction of intracath
18. Bolus I.V. Injection
19. Life line
20. Maintenance of “Heplock”
21. Subcutaneous of Heparin
22. Obtaining leg measurements to detect early swelling in thrombophlebetes
23. Identification of Homans signs
24. Buerger- Allen exercises



## **CARDIO VASCULAR AND THORACIC NURSING PART (A)**

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8. Long, C Barbara et al,. Medical – Surgical Nursing: A Nursing Process Approach, 3<sup>rd</sup> edition, mosby publication, 1993.
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10. White and Duncan, Medical Surgical Nursing: an integrated approach. Delmer publishers, 1998.
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**Master of Nursing**  
**Clinical speciality – II- A**  
**Medical Surgical Nursing**  
**Critical Care Nursing (Part-B)**  
**Paper- X (I)**

**Placement: Semester-III**

**Hours of Instruction**  
**Theory 75 Hours**  
**Practical: 480 hrs.**  
**Total: 555 hrs.**

**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 Nursing.

**Objectives**

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

1. Appreciate trend and issues related to critical care nursing.
2. Describe the epidemiology, etiology, path physiology, and diagnostic assessment of critically ill patient.
3. Describe the various drugs used in critical care and nurse responsibility
4. Perform physical, psychosocial and spiritual assessment.
5. Demonstrate advance skill/ competence in managing critically ill patients including Advance Cardiac Life support.
6. Demonstrate skill in handling various equipment/gadgets used for critical care.
7. Provide comprehensive care to critically ill patients.
8. Appreciate team work and 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 patients various diagnostic, therapeutic and surgical procedures.
15. Incorporate evidence based nursing practice and identify the areas of research in the field of critical care nursing.
16. Identify the sources of stress and manage burnout syndrome among health care providers.
17. Teach and supervise nurses and allied health workers.
18. Design a layout of ICU and develop standards for critical care nursing practice.

Course Content

Unit	Hours	Content
I	5	<p>Introduction to Critical Care Nursing</p> <ul style="list-style-type: none"> <li>• Historical review- Progressive patient Care (PPC)</li> <li>• Review of anatomy and physiology of vital organs, fluid and electrolyte balance.</li> <li>• Concepts of critical care nursing</li> <li>• Principles of critical care nursing</li> <li>• Scope of critical care set up including equipments supplies, use and care of various type of monitors &amp; ventilators</li> <li>• Flow sheets</li> </ul>
II	10	<p>Concept of Holistic care applied to critical nursing practice</p> <ul style="list-style-type: none"> <li>• Impact of critical care environment on patients</li> <li>• Risk factors, Assessment of patients critical care psychosis, prevention &amp; nursing care for patients affected with psychophysiological &amp; psychosocial problems of critical care unit, caring for the patient's family, family teaching.</li> <li>• The dynamics of healing in critical care unit: therapeutic touch, Relaxation, Music therapy, Guided imagery, acupressure</li> <li>• Stress and burnout syndrome among health team members.</li> </ul>
III	15	<p>Review</p> <ul style="list-style-type: none"> <li>• Pharmacokinetics</li> <li>• Analgesics/ Anti inflammatory agents</li> <li>• Antibiotics, antiseptics</li> <li>• Drug reaction &amp; toxicity</li> <li>• Drugs used in critical care unit ( inclusive of ionotropic, life saving drugs )</li> <li>• Drugs used in various body systems</li> <li>• IV fluids and electrolytes</li> <li>• Blood and blood components</li> <li>• Principles of drug administration, role of nurses and care of drugs</li> </ul>
IV	5	<p>Pain Management</p> <ul style="list-style-type: none"> <li>• Pain &amp; Sedation in Critically ill patients</li> <li>• Theories of pain, Types of pain, Pain assessment, Systemic response to pain.</li> <li>• Pain management- pharmacological and non- pharmacological measures</li> <li>• Placebo effect</li> </ul>
V	5	<p>Infection control in intensive care unit</p> <ul style="list-style-type: none"> <li>• Nosocomial infection in intensive care unit: methy resistant staphy lococcus aureus (MRSA), disinfection, Sterilization, standard safety measures, prophylaxis for staff.</li> </ul>
VI	10	<p>Gastrointestinal system</p> <ul style="list-style-type: none"> <li>• Causes, path physiology, clinical types, clinical features diagnosis, Prognosis, management: Medical, surgical and Nursing management of Acute Gastrointestinal Bleeding, abdominal injury, Hepatic Disorders:- Fulminate hepatic failure Hepatic encephalopathy, Acute Pancreatitis, Acute intestinal obstruction, prerogative peritonitis</li> </ul>
VII	10	<p>Renal system</p> <ul style="list-style-type: none"> <li>• Causes, pathophysiology, clinical features, diagnosis, prognosis, Management: Medical surgical and Nursing management Of acute Renal Failure, chronic Renal Failure, Acute tubular necrosis, bladder trauma</li> <li>• Management Modalities: Hemodialysis, Peritoneal Dialysis, Continuous Ambulatory Peritoneal Dialysis, Continuous arterio venus hemodialysis, Renal Transplant.</li> </ul>
VIII	10	Nervous system

		Causes, Pathophysiology, Clinical Types, Clinical features, diagnosis, Prognosis, Management: Medical Surgical and Nursing Mangement of:- Hypoglycemia, Diabetic Ketoacidosis, Thyroid crisis, Myxoedema, Adreanl Crisis, Syndrome of Inappropriate/Hyper secretion of Antidiuretic Hormone (SIADH).

Total= 480 Hours

1 week = 30 Hours

S. No	Deptt. / Unit	No of work	Total Hours
1.	Burns		
2	Medical ICU	6	180 hours
3	Surgical ICU	8	180 Hours
4	Emergency Department	2	
5.	Dialysis Unit	1	30 hours
6	Transplant Room	1	30 hours
7	Paediatric / NICU		30 Hours
	Total	16 Week	480 week

#### Essential Critical Care Nursing Skills

##### IV. Procedures Observed

1. CT scan
2. MRI
3. EEG
4. Hemodialysis
5. Endoscopic Retrograde cholangio Pancreaticogram (ERCP)
6. Heart. Neuro/G.I/ Rental Surgeries

##### V. Procedures Assisted

1. Advanced life support system
2. Basis 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 intubatin
11. Ventilation
12. Insertion of central line/CVP line
13. Connecting lines for dialysis

## VI. Procedure Performed

1. Airways Management
  - a. Oxygen therapy
  - b. CPAP ( Continuous Positive Airways Pressure)
  - c. Care of tracheostomy
  - d. Endotracheal extubation
2. Cardiopulmonary resuscitation, Basic cardiac life support, ECG
3. Monitoring of critically ill patient- clinically with monitors, capillary refill time (CRT) assessment of jaundice, ECG.
4. Gastric lavage
5. Assessment of critically ill patient  
Identification & Assessment of risk factors, Glasgow coma scale, and dolls eye movement, arterial pressure monitoring cardiac output/pulmonary artery pressure monitoring, and detectin of life threatening abnormalities
6. Admission & discharge of critically ill patients
7. Nutritional needs- gastrostomy feeds, pahgryngeal 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, calucation of dosages, use of insulin syringes/ tuberculin, monitoring fluid therapy, blood administration.
10. Setting up dialysis machine and starting, monitoring and closing dialysis
11. Procedure for prevention of infection  
Hand washing, disinfection & sterilization surveillance, and fumigation universal precaution
12. Collection of specimen.
13. Setting use & maintenance of basic equipment, ventilator, O2 analyzer, monitoring equipment, transducers, defibrillator, infusion & syringe pumps, centrifuge machine.

## CRITICAL CARE NURSING

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10. Philips, Medical Surgical Nursing, Health and Illness Perspectives, 8<sup>th</sup> edition, Elsevier publication 2009.

**Master of Nursing**  
**Clinical Speciality – II – A**  
**Medical Surgical Nursing**  
**Paper- X (I)**  
**Medical Surgical Nursing- Oncology Nursing (Part-C)**

**Placement: Semester-III**

**Hours of instruction**

**Theory : 75 hrs.**

**Practical : 480 hrs.**

**Total : 555 hrs.**

**Course Description**

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

**Objectives**

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

## Course Content

Unit	Hours	Content
I	4	<b>Introduction</b> <ul style="list-style-type: none"> <li>▪ Epidemiology-Incidence, Prevalence – Global, National, State and Local</li> <li>▪ Disease burden, concept of cancer, risk factors</li> <li>▪ Historical perspectives</li> <li>▪ Trends and issues</li> <li>▪ Principles of cancer management</li> <li>▪ Roles and responsibilities of oncology nurse</li> </ul>
II	5	<b>The Nature of Cancer</b> <ul style="list-style-type: none"> <li>▪ Normal cell biology</li> <li>▪ The Immune system</li> <li>▪ Pathological and pathophysiological changes in tissues               <ul style="list-style-type: none"> <li>▪ Biology of the cancer cell</li> <li>▪ Clone formation Transformation</li> <li>▪ Tumor stem cell</li> <li>▪ Structure of a solid tumor</li> <li>▪ Products produced by the tumor</li> <li>▪ Systemic effects of tumor growth</li> </ul> </li> </ul>
III	4	<b>Etiology of Cancer</b> <ul style="list-style-type: none"> <li>▪ Carcinogenesis,</li> <li>▪ Theories of cancer causation</li> <li>▪ Risk factors</li> <li>▪ Carcinogens – genetic factors, chemical carcinogens, radiation, viruses, Immune system failure, rapid tissue proliferation</li> <li>▪ Hormone changes, diet, emotional factors.</li> </ul>
IV	10	<b>Diagnostic Evaluation</b> <ul style="list-style-type: none"> <li>▪ Health assessment: History taking, physical examination,</li> <li>▪ Staging and grading of tumors,</li> <li>▪ TNM Classification</li> <li>▪ Common diagnostic tests               <ul style="list-style-type: none"> <li>• Blood investigation: Haemetological, Bio-chemical, Tumor markers, Hormonal assay</li> <li>• Cytology: Fine needle aspiration cytology (FNAC)</li> <li>• Histopathology: Biopsy</li> <li>• Radiological assessment: MRI, Ultrasound, Computed tomography, Mammography, Positron emission tomography (PET), Radio nuclide imaging, Functional metabolism imaging</li> <li>• Endoscopies</li> </ul> </li> </ul> <p>Nurses responsibilities in diagnostic measures</p>
V	10	<b>Levels of prevention and care</b> <ul style="list-style-type: none"> <li>▪ Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer,</li> <li>▪ Self examination-Oral, Breast, Testicular</li> <li>▪ Secondary prevention – early diagnosis.</li> <li>▪ Screening</li> <li>▪ Tertiary prevention – disability limitation,</li> <li>▪ Rehabilitation :Mobility , Speech, Bowel and bladder, Ostomies etc</li> </ul>



		<ul style="list-style-type: none"> <li>▪ Patient and family education,</li> <li>▪ Discharge instruction, follow-up care and use of community resources.</li> </ul>
<b>VI</b>	<b>25</b>	<p><b>Cancer Treatment Modalities and Nurse's Role</b></p> <ul style="list-style-type: none"> <li>▪ <b>Surgery</b> <ul style="list-style-type: none"> <li>• Principles of surgical oncology</li> <li>• Current surgical strategy,</li> <li>• Determining surgical risk</li> <li>• Special surgical techniques</li> <li>• Pre-intra-postoperative nursing care</li> <li>• Acute and chronic surgical complications</li> <li>• Future directions and advances</li> </ul> </li> <li>▪ <b>Chemotherapy</b> <ul style="list-style-type: none"> <li>• Principles and classification of chemotherapeutics</li> <li>• Pharmacology of antineoplastic drugs- Mechanism of action, Absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity</li> <li>• Calculating drug doses,</li> <li>• Therapeutic response to chemotherapy-Tumor variables, drug resistance,</li> <li>• Safety precautions</li> </ul> </li> <li>▪ <b>Radiation Therapy</b> <ul style="list-style-type: none"> <li>• Physics of radiotherapy</li> <li>• Types of ionizing rays</li> <li>• Radiation equipments: Linear accelerator, cobalt, Implants, Isotopes,</li> <li>• Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy</li> <li>• Effects of radiation on the body tissue,</li> <li>• Radiation biology – cell damage hypoxic cells, alteration of tumor kinetics.</li> <li>• Approaches to radiation therapy –</li> <li>• External radiotherapy</li> <li>• Internal radiotherapy – unsealed,</li> <li>• Sealed sources.</li> <li>• Effectiveness of radiotherapy-Radiosensitivity, treatment effects</li> <li>• Complications of radiotherapy</li> <li>• Radiation safety: Standards of Bhaba Atomic Research Centre (BARC)</li> </ul> </li> <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> </ul>

		<ul style="list-style-type: none"> <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 practices</li> </ul> </li> <li>▪ <b>Alternative and complementary Therapies</b> <ul style="list-style-type: none"> <li>• Current practices</li> </ul> </li> </ul>
<b>VII</b>	<b>10</b>	<ul style="list-style-type: none"> <li>▪ <b>Pain management:- Theories, types and</b> <ul style="list-style-type: none"> <li>• Nature of cancer pain</li> <li>• Pathophysiology of pain</li> <li>• Pain threshold</li> </ul> </li> <li>▪ <b>Assessment of pain</b> <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> </li> <li>▪ <b>Non- Pharmacological pain relief technique-</b> <ul style="list-style-type: none"> <li>• Complementary therapies (Musics, massage, meditation, relaxation techniques, biofeed back etc)</li> <li>• Psychological intervention in pain control</li> <li>• Alternative system of medicines</li> </ul> </li> </ul> <p>Role of nurse</p>
<b>VIII</b>	<b>5</b>	<p><b>Palliative care</b></p> <ul style="list-style-type: none"> <li>▪ Definition and scope, philosophy</li> <li>▪ Concept and elements of palliative care</li> <li>▪ Global and Indian perspective of palliative care</li> <li>▪ Quality of life issues</li> <li>▪ Communication skill</li> <li>▪ Nursing perspective of palliative care and its elements</li> <li>▪ Home care</li> <li>▪ Hospice care</li> </ul> <p>Role of nurse in palliative care</p>
<b>IX</b>	<b>2</b>	<ul style="list-style-type: none"> <li>▪ <b>Infection control:</b> <ul style="list-style-type: none"> <li>• Process of infection, risk of hospitalization, nosocomial infections- prevention and control of infection in acute, long term care facility and community based care</li> <li>• Standard safety measurement</li> </ul> </li> </ul>

## Clinical Experience

S. No.	Deptt./ Unit	No. of week	Total Hours
1	Medical Oncology ward	3	90 Hours*
2	Surgical Oncology ward	3	90 Hours
3	Bone marrow transplantation Units	1	30 Hours
4	Operation Theatre	1	30 Hours
5	Radiotherapy unit	1	30 Hours
6	Chemotherapy Unit	2	60 Hours
7	Out patient department and pain clinic	1	30 Hours
8	Pediatric Oncology Ward	1	30 Hours
9	Palliative care ward	1	30 Hours
10	Community oncology	1	30 Hours
11	Hospice	1	30 Hours
12	Other field visits	--	30 Hours
	<b>Total</b>	<b>16 Weeks</b>	<b>480 Hours</b>

## Procedures Observed

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

## Procedures Assisted

1. IV cannulation – Open methods
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. Tracheocentesis

14. Thoracentesis
15. Paracentesis
16. Lumbar Puncture
17. Arterial Blood Gas
18. Nerve Block
19. Chest tube insertion
20. Intercostal drainage
21. CVP monitoring

### **Procedure Performed**

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

### **Other procedures**

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

1. Alternative therapies

## ONCOLOGY NURSING

1. Miaskowski Christine, Oncology Nursing; Assessment andn clinical Care, 1<sup>st</sup> Edition, mosby Publications, 1999.
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3. Yarbrow, Frogge, Goodman, Cancer Symptom Management , 3<sup>rd</sup> Edition, johns and Bartlett publications, 2004.
4. Barton- Burke, Wilkins, Ingwerson, Cancer Shemotherapy a nursing process approach, 3<sup>rd</sup> Edition, johns and Bartlett publications, 2001.
5. Moore- higgs, Woman and cancer: a gynaccologic oncology nursing perspective, 2<sup>nd</sup> Edition, johns and Bartlett publications, 2000.
6. Karen Hassey Dow, Contemporary Issues In Breast Cancer, A Nursing Perspective 2<sup>rd</sup> Edition, johns and Bartlett publications, 2004.
7. Maul Mellott/ Adams, Childhood cancer a nursing overview johns and Barlett Publications.
8. Barton- Burke, Wilkins Ingwerson, Oncology nursing drug hand Book, johns and Bartlett publications, 2002.
9. Brunner and suddarth's Text Book of Medical Surgical Nursing, vol I and II, 11<sup>th</sup> Edition, Lippincott Williams and Wilkins, 2008.
10. Long, C, Barbara et al. Medical Surgical Nursing: A Nursing Process Approach, 3<sup>rd</sup> Edition mosby Publication 1993.
11. Black, M, Joyce, Medical Surgical Nursing Clinical Management of Positive Outcomes, vol I and II 8<sup>th</sup> Edition saunders and Elsevier publication, 2009.
12. White and Duncan, Medical Surgical Nursing: an Integrated approach delmer publisher 1998.
13. Philips Medical Surgical Nursing: Health and Illness Perspective, 8<sup>th</sup> edition, Elsevier Publication, 2009.

**Master of Nursing**  
**Clinical Speciality – II- A Paper – X (i)**  
**Medical Surgical Nursing**  
**Medical Surgical Nursing – Neurosciences Nursing ( Part- d)**

Placement : Sem- III ( 2<sup>nd</sup> year)

Hours of Instruction  
Theory – 75 Hours  
Practical- 480 Hours  
Total : 555 Hours

### **Course Description**

This course is designed to assist students in developing expertise and in-depth knowledge in the field of neurology and neurosurgical Nursing. It will help students to develop advanced skills for nursing intervention in caring for patient 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.

### **Objective**

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 patient with neurological and neurosurgical disorders
4. Perform neurological assessment and assist in diagnostic procedures.
5. Describe the concept and principles of neurosciences nursing.
6. Describe the various drugs used in neuroscience and nurses responsibility
7. Assist in various therapeutic and surgical procedures in neuroscience nursing
8. Demonstrate advanced skills/ competence in managing patient with neurological and neurosurgical disorder following nursing process approach
9. Identify psychosocial problems of patient with disabilities and assist patient and their family to cope with emotional distress , spiritual, grief and anxiety.
10. Participate in prevention, 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 nursing practice and identify the areas of research in the field of neuroscience nursing.
13. Organise and conduct inservice education program for nursing personal.
14. Develop standards of care for quality assurance in neuroscience nursing practice
15. Identify the sources of stress and manage burnout syndrome among health care providers.
16. Teach and supervise nurses and allied health workers.
17. Plan and develop physical layout of neuro intensive care unit

## Course Content

Unit	Hours	Content
I	5	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>▪ Introduction to neuroscience (neurological and neurosurgical) nursing</li> <li>• History – Development in neurological and neurosurgical nursing, Service &amp; education</li> <li>• Emerging trends and issues in neurology and neuro surgery and its implication to nursing.</li> <li>• Neurological and neurosurgical problem-</li> <li>• Concept, principles and nursing perspectives</li> <li>• Ethical and legal issues</li> <li>• Evidence based nursing and its application in neurological and neurosurgical nursing</li> </ul>
II	5	<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li>▪ Major health problems</li> <li>▪ Risk factors associated with neurological conditions- Hereditary, psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic consideration, occupational and infection.</li> <li>▪ Health promotion, disease prevention, life style modification and its implication of nursing</li> </ul> <p>Alternate system of medicine / complementary therapies</p>
III	10	<p><b>Review of Anatomy and physiology</b></p> <ul style="list-style-type: none"> <li>▪ Embryology</li> <li>▪ Structure and function of Nervous system- CNS, ANS, cerebral circulation, cranial and spinal nerves and reflexes, motor and sensory functions</li> <li>▪ Sensory organs</li> </ul>
IV	15	<p><b>Assessment and diagnostic measures</b></p> <ul style="list-style-type: none"> <li>▪ Assessment <ul style="list-style-type: none"> <li>• History taking</li> <li>• Physical assessment, psychosocial assessment</li> <li>• Neurological assessment, Glasgow coma scale interpretation &amp; its relevance to nursing.</li> <li>• Common assessment abnormalities</li> </ul> </li> <li>▪ Diagnostic measures <ul style="list-style-type: none"> <li>• Cerebro spinal fluid analysis</li> <li>• Radiological studies- skull and spine X-ray cerebral Angiography, CT Scan, Single Photon Emission Computer Tomography (SPECT), MRI (Magnetic Resonance Imaging), MRA, MRS, Functional MRI, Myelography, PET (Positron Emission Test), Interventional radiology.</li> <li>• Electrographic studies- Electro encephalo graphy, MEG, EMG video EEG.</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>• Nerve conduction studies – Evoked potentials, visual evoked potential , 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</p> <p>Nurse’s role in diagnostic tests</p>
<b>V</b>	<b>5</b>	<p><b>Meeting Nutritional needs of neurological patient</b></p> <ul style="list-style-type: none"> <li>▪ Basic nutritional requirements</li> <li>▪ Metabolic changes following injury and starvation</li> <li>▪ Nutritional assessment</li> <li>▪ Common neurological problem that interfere with nutrition and strategies for meeting their nutritional needs</li> <li>▪ Special metabolic and electrolyte imbalances</li> <li>▪ Chronic fatigue syndrome</li> </ul>
<b>VI</b>	<b>5</b>	<p><b>Drugs used in neurological and neurosurgical disorders</b></p> <ul style="list-style-type: none"> <li>▪ Classification</li> <li>▪ Indications, contraindications, actions and effects toxic effects</li> </ul> <p>Role Of Nurse</p>
<b>VII</b>	<b>10</b>	<p><b>Traumatic conditions.</b></p> <ul style="list-style-type: none"> <li>▪ Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical &amp; Nursing management of</li> <li>▪ Cranio cerebral injuries.</li> <li>▪ Spinal &amp; Spinal cord injuries.</li> <li>▪ Peripheral nerve injuries.</li> <li>▪ Unconsciousness</li> </ul>
<b>VIII</b>	<b>10</b>	<p><b>Cerebro vascular disorders</b></p> <ul style="list-style-type: none"> <li>▪ Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical &amp; Nursing management of</li> <li>▪ Stroke &amp; arterio venous thrombosis.</li> <li>▪ Haemorrhagic embolus.</li> <li>▪ Cerebro vascular accidents.</li> <li>▪ Intracranial aneurysm.</li> <li>▪ Subarchnoid Haemorrhage.</li> <li>▪ Arterio venous fistula.</li> <li>▪ Brain tumours</li> <li>▪ Diseases of cranial nerves; Trigeminal neuralgia, Facial palsy, Bulbar palsy.</li> </ul>
<b>IX</b>	<b>10</b>	<p><b>Degeneration and demyelinating disorders</b></p> <ul style="list-style-type: none"> <li>▪ Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical &amp; Nursing management of</li> <li>▪ Motor neuron diseases.</li> </ul>



		<ul style="list-style-type: none"> <li>▪ Movement disorders- Tics, dystonia, chorea, wilson's disease, essential tremors</li> <li>▪ Dementia.</li> <li>▪ Parkinson's diseases.</li> <li>▪ Multiple sclerosis.</li> <li>▪ Alzemier's</li> </ul>
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**Total =480 Hours**  
**1 Week = 30 Hours**

S. No.	AREA OF POSTING	No. of Week	Total Week
1	O.P.D.	1	30
2	Casualty	1	30
3	Diagnostics	1	30
4	Neuro psychiatry	---	
5	Neuro medical wards	2	60
6	Paediatric Neuro ward	1	30
7	Neuro surgical wards	2	60
8	Head- Injury ward	2	60
9	ICU- neuro medicine	2	60
10	I.C.U.- neuro surgical	2	60
11	Rehabilitation	1	30
12	Operation Theatre	1	30
	<b>Total</b>	<b>16 weeks</b>	<b>480Hours</b>

## ESSENTIAL NEURO NURSING SKILLS

### I. Procedures Observed

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

### II. Procedures Assisted

1. Advanced Cardiac life support
2. Lumbar Puncture

3. Biopsies – muscle, nerve and Brain
4. Arterial Blood Gas
5. ECG Recording
6. Blood transfusion
7. IV cannulation – open method
8. Endotracheal intubation
9. Ventilation
10. Tracheostomy
11. ICP monitoring
12. Gama Knife
13. Cerebral angiography
14. Myelography
15. Neuro surgeries

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

- 1 Airways management
  - a. Application of Oro Pharyngeal Airways
  - b. Care of Tracheostomy
  - c. Conduct Endotracheal Intubation
  - d. Use of AMBU bag, artificial respirators
  - e. Setting of Ventilators and care of patient 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 patient with incontinence, bladder training Catheterization
8. Care of patient 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.

#### **I. Other Procedures**

## **NEURO SCIENCES NURSING**

1. Ellen barker, Neuroscience Nursing, A Spectrum of Care; 2<sup>nd</sup> edition mosby publication.
2. American Association of Neuro Science Nurse's neuroscience: Nursing human response to neurologic dysfunction, christewart- Amidel; Joyce A. Junkel, 12<sup>nd</sup> edition W.B., Saunder's Company.
3. Alan Guberman, an Introduction to clinical neurology, little Brown and Company
4. Mayo Clinic, Mayo Foundation, Clinical Examinations in neurology Igaku- Shoin. Saunders, International Edition.
5. Esta Carini, Guy Owens Neurological And Neurosurgical Nursing, 6<sup>th</sup> Edition C.V. Mosy company.
6. Brunner and suddarth's Text Book of Medical Surgical Nursing vol I and II 11<sup>th</sup> edition, Lippincott William and wilkins 2008.
7. Long, C Barabara et al;, Medical Surgical Nursing: A nursing process approach 3<sup>rd</sup> edtion, mosby publications, 1993.
8. Black. M. Joyce Medical – Surgical Nursing, Clinical Management of positive.
9. White and Duncan, medical Surgical nursing, an integrated approach, delmer publisher, 1998.
10. Philips Medical Surgical Nursing, Health and Illness Perspective 8<sup>th</sup> edition, Elsevier publication, 2009.

**Master of Nursing**  
**Clinical Speciality – II- A**  
**Paper – X (I)**  
**Medical Surgical Nursing**  
**Medical Surgical Nursing – Nephro urology Nursing (Paper-e)**

**Placement : Sem. III (2<sup>nd</sup> year)**

Hour of Instruction  
Theory : 75 Hours  
Practical : 480 Hours  
Total : 555 Hours

### **Course Description**

This course is designed to assist students in developing expertise and in-depth understanding in the field of nephro and urological Nursing. It will help students to develop advanced skills for nursing intervention in various nephro and urological condition. 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 patient 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 patient with **nephroand urological** conditions
8. Appreciate team work & coordinate activities related to patient care.
9. Practice infection control measures.
10. Identify emergencies and complication & take appropriate measures
11. Assist patient and their family to cope with emotional distress, grief, anxiety and spiritual needs
12. Discuss the legal and ethical issues in **nephro and urological** nursing
13. Identify the sources of stress and manage burnout syndrome among health care providers
14. Appreciate the role of alternative system of medicine in the care of patient

15. Incorporate evidence based nursing practice and identify the areas of research in the field of **nephro and urological** nursing
16. Teach and supervise nurses and allied health workers.
17. Design a layout of kidney transplant unit and dialysis unit
18. Develop standards of nephro urological nursing practice

### Course Content

Unit	Hours	Contents
I	5	<b>Introduction</b> <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 and nursing perspectives</li> <li>▪ Ethical and legal issues</li> <li>▪ Evidence based nursing and its application in nephro and urological nursing ( to be incorporated in all the units)</li> </ul>
II	5	<b>Epidemiology</b> <ul style="list-style-type: none"> <li>▪ Major health problems- urinary dysfunction urinary tract infections, Glomerular disorder, obstructive disorder and other urinary disorders</li> <li>▪ Risk factors associated with nephro and urological condition conditions—Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, culture and ethnic considerations</li> <li>▪ Health promotion, disease prevention, life style modification and its implication to nursing.</li> </ul> <p>Alternate system of medicine / complementary therapies</p>
III	5	<b>Review of anatomy and physiology of urinary system</b> <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>
IV	20	<b>Assessment and diagnostic measures</b> <ul style="list-style-type: none"> <li>▪ History taking</li> <li>▪ Physical assessment, psychosocial assessment</li> <li>▪ Common assessment abnormalities- dysurea, frequency, enuresis, urgency, hesitancy, hematuria, pain, retention, burning on urination, pneumaturia, incontinence, nocturia, polyurea, anuria, oliguria,</li> <li>▪ Diagnostic tests- urine studies, blood chemistry, radiological procedures-KUB, IVP, nephrotomogram,</li> </ul>

		<p>retrograde pyelogram, renal arteriogram, renal ultrasound, CT Scan, MRI, cystogram, renal Scan, biopsy, endoscopy-cystoscopy, urodynamics studies- cystometrogram, urinary flow study, sphincter electromyography, voiding pressure flow study, videouro dynamics, Whitaker study</p> <p>Interpretation of diagnostic measures</p> <p>Nurse's role in diagnostic tests</p>
<b>V</b>	<b>5</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>
<b>VI</b>	<b>15</b>	<p><b>Urological Disorders and Nursing Management</b></p> <ul style="list-style-type: none"> <li>▪ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing and nursing management of</li> <li>▪ Urinary tract infections- pyelonephritis, lower urinary tract infections,</li> <li>▪ Disorders for ureters, bladder and urethra</li> <li>▪ Urinary tract infection-</li> <li>▪ Urinary dysfunction- urinary retention, urinary incontinence, urinary reflux,</li> <li>▪ Bladder disorders- neoplasms, calculi, neurogenic bladder, trauma, congenital abnormalities</li> <li>▪ Benign prostatic hypertrophy (BPH)</li> <li>▪ Ureteral disorder: ureteritis, ureteral trauma, congenital anomalies of ureters</li> <li>▪ Urethral disorders- tumours, trauma, congenital anomalies of ureters,</li> </ul>
<b>VII</b>	<b>25</b>	<p><b>Glomerular disorders and nursing management</b></p> <ul style="list-style-type: none"> <li>▪ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing and nursing management of</li> <li>▪ Glomerular nephritides- chronic, acute, nephritic syndrome</li> <li>▪ Acute Renal failure and chronic renal failure.</li> <li>▪ Renal calculi</li> <li>▪ Renal tumors – benign and malignant</li> <li>▪ Renal trauma</li> <li>▪ Renal abscess</li> <li>▪ Diabetic nephropathy</li> <li>▪ Vascular disorders</li> <li>▪ Renal tuberculosis</li> <li>▪ Polycystic</li> <li>▪ Congenital disorders</li> <li>▪ Hereditary renal disorders</li> </ul>

## Practicals

**Total = 480 Hours**  
**1 Week = 30 Hours**

S. No.	Deptt. / Unit	No. of Week	Total Hours
1	Nephrology Ward	3	90 Hours
2	Pediatrics	--	----
3	Critical Care Unit	2	60 Hours
4	Urology Ward	3	90 Hours
5	Dialysis Unit	2	60 Hours
6	Kidney Transplantation Unit	--	60 Hours
7	URO OT	--	60 Hours
8	Emergency Wards	2	60 Hours
9	Uro Nephro OPDs	2	120 Hours
10	Diagnostic Labs	2	60 Hours
	<b>Total</b>	<b>16 Weeks</b>	<b>960 Hours</b>

### Procedures Observed

#### I. Procedures Observed

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

#### II. Procedures Assisted

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

## **I. Procedures Performed**

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



## NEPHPRO UROLOGY NURSING

1. Winter and barker, Nursing care of patients with urologic diseases, 3<sup>rd</sup> edtion C.V. Mosby. Company.
2. Dodson and hill synopsis of genitor urinary diseases, 6<sup>th</sup> C.V Mosby Company,
3. Sayer, Aids to Male Genito Urinary Nursing, Baillere and Tindall.
4. Brunner and suddarth's , text Book of Medical Surgical Nursing vol I and II 11<sup>th</sup> edition, d Lippincott Williams and wilkins, 2008.
5. Long, C. Barbara et al., Medical Surgical Nursing: A nursing Process Approach 3<sup>rd</sup> edition mosby Publication 1993.
6. Black M, Joce, Medical – Surgical Nursing, Clinical Management of Positive, outcomes, vol I and II 8<sup>th</sup> edition saunders and Elsevier publication 2009.
7. White and Duncan, Medical Surgical nursing an integrated approach, Delmer Publisher, 1998.
8. Philips Medical Surgical Nursing Health and Illness Perspectives, 8<sup>th</sup> Edtion, Elsevier publication 2009.
9. Williams and Hopper, Understanding Medical – Surgical Nursing F.A. Davis Company. 1999.
10. Holloway M. Nancy, Medical Surgical Care planning, 3<sup>rd</sup> edtion springhouse corporation, 1999.
11. Lemone And Burke, Medical – Surgical Nursing, Critical Thinking in client Care, 4<sup>th</sup> edition, pearson education publisher, 2008.
12. Lewis, medical surgical nursing assessment and management of clinical problems 6<sup>th</sup> Edition mosby publication 2004.
13. Bobee Terrill, Renal Nursing Practical Approach, Ausmed Publication, 2002.
14. Brunner and suddarth's Text Book of Medical Surgical Nursing vol I and II 11<sup>th</sup> edition, Lippincott Williams and wilkins 2008.
15. Long, C. Barbara et al, medical surgical nursing A. Nursing process approach 3<sup>rd</sup> edtion mosby publication, 1993.
16. Black M. Joyce, Medical surgical nursing Clinical management of positive outcomes, vol I and li, 8<sup>th</sup> edtion, saundes and Elsevier publication, 2009.
17. White and Duncan, Medical Surgical nursing an integrated approach Delmer publishers. 1989.
18. Philips, , Medical Surgical nursing Health and illness perspective 8<sup>th</sup> edition elseveir publication 2009.
19. Williams and Hopper, Understanding Medical surgical Nursing F.A Davis Company, 1999.
20. Luckmann and Sorensen, Medical – Surgical nursing a psycologic approach W.B. Saunders company. 1978.
21. Holloway M. Nancy, medical surgical Care planning 3<sup>rd</sup> edition springhouse corporation 1999.
22. Lemone and burke, medical surgical nursing critical thinking in client care, 4<sup>th</sup> edition person education publishers 2008.
23. Lewis medical Surgical nursing, Assessment and Management of Clinical Problems, 6<sup>th</sup> Edition mosby publication, 2004.

**Master of Nursing**  
**Clinical Speciality II – A**  
**Paper- X (i)**  
**Medical Surgical Nursing**  
**Medical Surgical Nursing – Orthopedic Nursing ( Part- f)**

Placement : Sem III ( 2<sup>nd</sup> year )

Hours of Instruction  
Theory : 75 Hours  
Practical : 480 Hours  
Total : 555 Hours

### **Courses Description**

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

### **Objectives**

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 patient 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 patient with orthopedic conditions and those requiring rehabilitation.
7. Recognize and manage orthopedic emergencies.
8. Describe recent technologies and treatment modalities in the management of patient with orthopedic condition 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 patient 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.

## Courses 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> <li>▪ Posture, Body landmarks Skeletal system Muscular system. Nervous system- main nerves</li> <li>▪ Healing of – Injury, bone injury,</li> <li>▪ Repair of ligaments</li> <li>▪ Systemic response to injury</li> <li>▪ Ergonomics, Body mechanics, biomechanical measures</li> <li>▪ Orthopedic team</li> </ul>
II	8	<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	<p><b>Care of Patient 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> <li>▪ Comfort device</li> <li>▪ Implants in orthopedic</li> <li>▪ Prosthetics and Orthotics</li> </ul>
	15	<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 of : <ul style="list-style-type: none"> <li>• Early management of Trauma</li> <li>• Fractures</li> <li>• Injuries of the</li> </ul> </li> <li>▪ Shoulder and arm</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Elbow, fore arm, wrist hand</li> <li>▪ Hip, thigh, knee, leg, ankle, foot</li> <li>▪ Spine</li> <li>▪ 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>
<b>V</b>	<b>8</b>	<b>Infection of Bones and Joints</b> <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>• Tuberculosis</li> <li>• Osteomyelitis</li> <li>• Arthritis</li> <li>• Leprosy</li> </ul> </li> </ul>
<b>VI</b>	<b>5</b>	<b>Bone Tumors</b> <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>• Bone tumor – Benign, Malignant and metastatic</li> <li>• Different types of therapies for tumors</li> </ul> </li> </ul>
<b>VII</b>	<b>10</b>	<b>Deformities</b> <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,</li> <li>▪ Congenital torticollis</li> <li>▪ Meningocele, meningomyelocele, spina bifida,</li> <li>▪ Chromosomal disorders</li> <li>▪ Computer related deformities</li> </ul>
<b>VIII</b>	<b>6</b>	<b>Disorders of the spine</b> <ul style="list-style-type: none"> <li>▪ Intervertebral disc prolapsed, Fracture of the spine</li> <li>▪ Low back disorder- Low back pain, PND, spinal stenosis, spondylosis</li> </ul>
<b>IX</b>	<b>5</b>	<b>Nutritional/ Metabolic and Endocrine Disorders</b> <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> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>• Scurvy,</li> <li>• Hyper vitaminosis A and D,</li> <li>• Osteomalacia,</li> <li>• Osteoporosis</li> <li>• Paget’s disease,</li> <li>• Gout</li> <li>• Gigantism,</li> <li>• Dwarfism</li> <li>• Acromegaly.</li> <li>• Therapeutic diets for various orthopedic disorders</li> </ul>
<b>X</b>	<b>8</b>	<b>Neuro- Muscular Disorder:</b> <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> <li>• Spina bifida.</li> <li>• Peripheral nerve lesion,</li> <li>• Paraplegia, Hemiplegia, Quadriplegia</li> <li>• Muscular dystrophy</li> </ul> </li> </ul>

### Practical's

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

**Total = 480 Weeks**  
**1 Week = 30 hours**

<b>S.No.</b>	<b>Deptt. / Unit</b>	<b>No. of Week</b>	<b>Total Hours</b>
1	Orthopedic Wards	4	120Hours
2	Orthopedic Operation theatre	2	60 Hours
3	Neurosurgical Ward	1	30 Hours
4	Orthopedic O.P.D	2	60 Hours
5	Casualty / Emergency and Trauma	2	60 Hours
6	Rehabilitation Units	1	30 Hours
7	Physiotherapy Unit	2	60 Hours
8	Paediatric / Paediatric surgery unit	2	60 Hours
9	Field Visit	-	-
	<b>Total</b>	<b>16 Weeks</b>	<b>480 Hours</b>

### **Procedures Observed**

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

### **Procedures Assisted**

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

### **Procedures Performed**

1. Interpretation of X ray films.
2. Application and removal of splints, casts, and braces.\
3. Care of tractions – skin and skeletal traction, pin site care.
4. Cold therapy
5. Heat therapy
6. Hydrotherapy
7. Therapeutic exercise
8. Use of TENS ( Transcutaneous electrical nerve stimulation)
9. Techniques of transplantation
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.

## ORTHOPEDIC NURSING

1. Kesson And Atkins, Orthopedic Medicine, A Practical Approach, 2<sup>nd</sup> Edition, Elsevier publications, 2005.
2. Magee J. David, Orthopedic Physical Assessment, 5<sup>th</sup> edition, Saunders, Elsevier publication, 2008.
3. Mary Powell, Orthopedic nursing 6<sup>th</sup> edition E & S Livingstone Ltd.
4. Bt Basvanthappa, Orthopedic For Nurses, Jaypee 2005.
5. Pinney C. Edward, Orthopedic nursing 6<sup>th</sup> Edition, Bailliere Tindall.
6. Jane Farrell, Illustrated Guide To orthopedic Nursing 2<sup>nd</sup> edition B. Lippincott company.
7. Brunner and Suddarth's Text Book of Medical Surgical Nursing, Vol I and II 11<sup>th</sup> Edition Lippincott Williams and Wilkins 2008.
8. Long, C. Barbara et al., Medical Surgical Nursing: A Nursing Process Approach 3<sup>rd</sup> Edition Mosby publication, 1993.
9. Black, M, Joyce, Medical Surgical Nursing, Clinical Management of Positive Outcomes, Vol I and II 8<sup>th</sup> Edition Saunders and Elsevier publication, 2009.
10. Philips Medical Surgical Nursing Health and Illness Perspectives, 8<sup>th</sup> Edition, Elsevier publication, 2009.



**Master of Nursing**  
**Clinical Speciality –II – A**  
**Paper – X (i)**  
**Medical Surgical Nursing**  
**Medical Surgical Nursing – Gastro Enterology Nursing ( part – g)**

Placement : Sem. III

Hours of Instruction

Theory : 75 Hrs.

Practical : 480 Hrs.

Total : 555 Hrs.

### **Course Description**

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

### **Objectives**

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

1. Appreciate trends and issues related to gastroenterology nursing
2. Describe the epidemiology, etiology, Patho-physiology and diagnostic assessment of gastrointestinal conditions
3. Participate in national health programs for health promotion, prevention and rehabilitation of patients with gastrointestinal conditions
4. Perform physical, psychosocial & spiritual assessment
5. Assist in various diagnostic, therapeutic and surgical procedures
6. Provide comprehensive care to patients with gastrointestinal conditions
7. Describe the various drugs in gastrointestinal conditions and nurses responsibility
8. Demonstrate skill in handling various equipment/ gadgets used for patient with gastrointensial conditions
9. Appreciate team work & coordinate activities related to patient care.
10. Practice infection control measures.
11. Identify emergencies and complications & take appropriate measures
12. Assist patients and their family to cope with emotional distress, grief, anxiety and spiritual needs
13. Discuss the legal and ethical issues in GE nursing
14. Identify the sources of stress and manage burnout syndrome among health care providers
15. Appreciate the role of alternative system of medicine in care of patient

16. Incorporate evidence based nursing practice and identify the areas of research in the field of gastrointestinal nursing.
17. Teach and supervise nurses and allied health workers.
18. Design a layout of Gastro enterology intensive care unit (GEICU), liver care / transplant unit

### Course Content

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

		<ul style="list-style-type: none"> <li>• Endoscopic Retrograde Cholangio pancreatography (ERCP)</li> <li>• Endoscopic ultrasound</li> <li>• Peritonoscopy ( Laproscopy)</li> <li>• Gastric emptying studies</li> <li>• Blood chemistries: Serum amylase, serum lipase</li> <li>• Liver biopsy</li> <li>• Miscellaneous tests: Bile formation and excretion, dye excretion test, Protein metabolism, haemostatic functions- prothrombin vitamin K production, serum enzyme tests, Lipid metabolism- serum cholesterol</li> </ul> <p>Interpretation of diagnostic measures</p> <p>Nurse's role in diagnostic tests</p>
V	25	<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, Oesoophageal varices, Hiatus hernia, Diverticulum</li> <li>• Disorders of the stomach and duodenum: Gastritis, Peptic ulcer, Dumping of the stomach, Food poisoning, idiopathic gastroparesis, Aerophagia and belching syndrome, Ideopathic cyclic nausea and vomiting, Rumination syndrome, Function dyspepsia, Chronic Non specific (Functional) abdominal pain</li> <li>• Disorders of the small intestine <ul style="list-style-type: none"> <li>- Malabsorption syndrome- tropical sprue</li> <li>- Gluten – sensitive enteropathy (Coeliac disease)</li> <li>- Infalmmatory disease of intestine and abdomen: appendicitis, Peritonities, Intestinal obstruction, Abdominal TB, Gastrointestinal polyposis syndrome</li> <li>- Chronic inflammatory bowel disease, Ulcerative colitis, crohn's disease</li> <li>- Infections and infections—Worm infestations, Typhoid, Leptospirosis</li> <li>- Solitary rectal ulcer syndrome</li> <li>- Alteration in bowel elimination ( diarrhea, constipation, fecal impaction, fecal incontinence, Irritable bowel syndrome, chronic idiopathic constipation, Functional diarrhea</li> </ul> </li> </ul> </li> </ul> <p><b>Anorectal Conditions:</b> Hemorrhoids, Anal fissure, Anal fistula, Abscess, Strictures, Rectal prolapse, Pruritis ani, Pelonidal disease, Anal condyloms, Warts</p>

VI	15	<p><b>Disorder of liver, pancreas gall bladder and nursing management</b></p> <ul style="list-style-type: none"> <li>• Disorder of liver biliary tract:</li> <li>• Viral hepatitis – A, B, C, D &amp; E</li> <li>• Toxic Hepatitis</li> <li>• Cirrhosis of liver, liver failure, liver transplantation</li> <li>• Non cirrhotic portal fibrosis</li> <li>• Liver abscess;</li> <li>• Parasitic and other cysts of the liver</li> <li>• Disorders of the Gall Bladder and bile Duct:</li> <li>• Cholecystitis</li> <li>• Cholelithiasis</li> <li>• Choledocholithiasis</li> <li>• Disorders of the pancreas: pancreatitis</li> <li>• Begins tumors of islet cells</li> <li>• Disorders of the peritoneum</li> <li>• Surgical peritonitis</li> <li>• Spontaneous bacterial peritonitis</li> <li>• Tuberculosis peritonitis</li> <li>• Disorders of the Diaphragm</li> <li>• Diaphragmatic hernia</li> <li>• Congenital hernia</li> <li>• Paralysis of diaphragm</li> <li>• Tumor of the diaphragm</li> <li>• Hiccups</li> </ul>
VII	5	<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> <li>• Esophageal varices,</li> <li>• Ulcer perforation</li> <li>• Acute cholecystitis</li> <li>• Diverticulitis</li> <li>• Fulminant hepatic failure</li> <li>• Biliary obstruction</li> </ul>

**Total = 480 Weeks**  
**1 Week = 30 hours**

S.No.	Deptt. / Unit	No. of Week	Total Hours
1	Diagnostic Labs	1	30Hours
2	Emergency and Casualty	2	60 Hours
3	Liver Transplant Unit	1	30 Hours
4	GE Medical Wards	3	90 Hours
5	GE Surgical Wards	4	120 Hours
6	OT	1	30 Hours
7	Pediatric gastroenterology		

8	ICU	2	60 Hours
9	Oncology	-	--
10	GE OPD	2	60 hours
	<b>Total</b>	<b>16 Weeks</b>	<b>480 Hours</b>

#### Procedures Assisted

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

#### Procedures Performed

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

## GASTO INTESTINAL NURSING

1. Brigid breckman, Stoma Care: A guide for doctors Nurses and Health Care workers, Beaconsfield Publishers.
2. Brunner and suddarth's Text Book of Medical Surgical Nursing, vol I and II, 11<sup>th</sup> Edition, Lippincott Williams and wilkins, 2008.
3. Long. C. Barbara et al,. Medical Surgical Nursing, A Nursing Process Approach, 3<sup>rd</sup> Edition, mosby Publications, 1993.
4. Black, M. Joyce, Medical Surgical Nursing Clinical Management of Positive Outcomes, Vol I and II 8<sup>th</sup> Edition saunders and Elsevier publication, 2009.
5. White and Duncan, Medical Surgical nursing: an integrated approach, delmer publishers, 1998.
6. Philips, Medical Surgical Nursing, Health and Illness Perspective, 8<sup>th</sup> Edition, Elsevier publication 2009.
7. Williams and Hopper, Understanding Medical Surgical Nursing, F.A. Davis Company 1999.
8. Luckmann and Sorensen, medical Surgical nursing , a psychologic approach, w.b, saunders, company, 1978.
9. Holloway M. Nancy, Medical surgical care planning 3<sup>rd</sup> edition springhouse corporatin, 1999.
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**MASTER OF NURSING**  
**CLINICAL SPECIALITY II- A, Paper – X (ii)**  
**OBSTETRIC AND GYNAECOLOGICAL NURSING**

**Placement: Semester –III (3<sup>rd</sup> year)**

**Hours of instruction**

**Theory : 75 hrs.**

**Practical : 480 hrs.**

**Total : 555 hrs.**

**Course Description:-**

This course is designed to assist the student in developing expertise and in-depth understanding in the field of obstetric and gynaecological nursing. It will help the student to develop advanced nursing skills for nursing interventions in various obstetrical gynaecological conditions. It will further enable the researcher in the field of obstetric and gynaecological nursing.

**Objectives**

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

1. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of women and obstetrics & gynaecological.
2. Perform physical, psychosocial, cultural and spiritual assessment
3. Demonstrate competence in caring for women with obstetrical and gynaecological conditions.
4. Identify and Manage obstetrical and neonatal emergencies as per protocol.
5. Utilize recent technology and various diagnostic, therapeutic modalities in the management of obstetrical, gynaecological and neonatal care.
6. Demonstrate skill in handling various equipment/ gadgets used for obstetrical gynaecological and neonatal care
7. Counsel women and families
8. Incorporate evidence based nursing practice and identify the areas of research in the field of obstetrical and gynaecological nursing
9. Function as independent midwifery nurse practitioner

**Contents Outline**

Unit	Hours	Content
1	25	<p>Management of problems of women during pregnancy</p> <ul style="list-style-type: none"> <li>▪ Risk approach of obstetrical nursing care, concept and goals.</li> <li>▪ Screening of high- risk pregnancy, newer modalities of diagnosis.</li> <li>▪ Nursing Management of pregnancies at risk 0 due to obstetrical complication.</li> <li>• Pernicious Vomiting.</li> <li>• Bleeding in early pregnancy, abortion ectopic pregnancy &amp; gestational trophoblastic diseases.</li> <li>• Hemorrhage during late pregnancy, ante partum hemorrhage, placenta praevia, abruption placenta.</li> <li>• Hypertensive disorders in pregnancy, pre- eclampsia, eclampsia,</li> <li>• Hemolysis Elevated liver enzyme Low Platelet count (HELLP)</li> <li>• Iso- Immune diseases Rh and ABo Incompatibility</li> <li>• Hematological problems in pregnancy</li> <li>• Hydramnios oligohydramnios</li> <li>• Prolonged pregnancy post term, post maturity .</li> <li>• Multiple pregnancies.</li> <li>• Intra uterine infection &amp; pain during pregnancy.</li> </ul>

		<ul style="list-style-type: none"> <li>• Intra Uterine Growth Retardation (IUGR), Premature Rupture of Membrane (PROM) intra uterine death</li> </ul>
II	10	Pregnancies at risk due to pre existing health problems <ul style="list-style-type: none"> <li>• Metabolic conditions</li> <li>• Anemia and nutritional deficiencies</li> <li>• Hepatitis</li> <li>• Cardio vascular disease</li> <li>• Thyroid diseases</li> <li>• Epilepsy Essential Hypertension</li> <li>• Chronic renal failure.</li> <li>• Tropical diseases</li> <li>• Psychiatric disorders</li> </ul>
III	20	Abnormal labor pre- term labor and obstetrical emergencies <ul style="list-style-type: none"> <li>▪ Etiology, pathophysiology and nursing management of</li> <li>• Uncoordinated uterine actions, Atony of uterus, precipitate labor, prolonged labour</li> <li>• Abnormal lie, presentation, position compound presentation.</li> <li>• Contracted pelvis</li> <li>• CPD dystocia</li> <li>• Obstetrical emergencies obstetrical shock, vasa pravia, inversion of uterus, amniotic fluid embolism, rupture uterus, presentation and prolapse cord.</li> <li>• Augmentation of labour. Medical and surgical induction</li> <li>• Version</li> <li>• Manual removal of placenta</li> <li>• Obstetrical operation&gt;: Forceps delivery, Ventouse, Caesarian section, Destructive operations</li> <li>• Genital tract injuries Third degree perineal tear, VVF, RVF</li> <li>▪ Complication of third stage of labour:             <ul style="list-style-type: none"> <li>• Post partum Hemorrhage.</li> <li>• Retained placenta.</li> </ul> </li> </ul>
IV	10	Post Partum complications <ul style="list-style-type: none"> <li>▪ Nursing Management of</li> <li>• Puerperal infections, puerperal sepsis, urinary complications, puerperal venous thrombosis and pulmonary embolism</li> <li>• Sub involution of uterus, Breast Conditions, Thrombophlebitis</li> <li>• Psychological complications, post partum blues, depression, psychosis</li> </ul>
V	10	High risk new born <ul style="list-style-type: none"> <li>• Nursing management of pre- term, small for gestational age, post mature infant, and baby of diabetic and substance use mothers.</li> <li>• Respiratory conditions asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum.</li> </ul>

Practical

Total =480 Hours  
1 week = 30 Hours

S.No.	Deptt. / Unit	No. of Week	Total Hours
1	Antenatal OPD including infertility clinics/ Reproductive medicine, Family Welfare Welfare and post partum clinic/PTCT	3	90Hours



2	Antenatal and Postnatal ward	4	120 Hours
3	Labour Room	2	60 Hours
4	Neonatal Intensive Care Unit	1	30 Hours
5	Obstetric / gynae Operation Theatre	2	60 Hours
6	Gynae Ward		
7	CHC, PHC, SC	4	120 Hours
	<b>Total</b>	<b>16 Weeks</b>	<b>480 Hours</b>

### Essential Obstetrical And Gynaecological Skills

#### PROCEDURE OBSERVED

- Ultra sonography
- Specific laboratory tests.
- Cervical and vaginal cytology.
- Hysteroscopy
- MRI.
- Surgical diathermy
- Cryosurgery

#### PROCEDURE ASSISTED

- Operative delivery (LSCS)
- Abnormal deliveries application, Ventouse, Breech
- Culdoscopy
- Cystoscopy
- Tuboscopy
- Laparoscopy
- Endometrial Biopsy

#### PRECEDURES PERFORMED

- History taking
- Physical Examination- General
- Pelvic examination
- Assessment of risk status
- Assessment of intra uterine foetal well being. Kick chart and foetal movement chart, Doppler assessment, Non stress Test, Contraction stress test ( Oxytocin challenge Test)
- Universal precautions- Disposal of biomedical waste.
- Per vaginal examination and interpretation ( early pregnancy, labour post partum)
- Utilization of partograph
- Medical and Surgical induction ( Artificial rupture of membranes)
- Vacuum extraction
- Conducto fo delivery
- Prescription and administration fluid and electrolytes through intravenous route
- Application of outlet forceps delivery of Brach Burns Marshall, Loveset manoeuvre
- Repair of tears and Episiotomy suturing
- Vacuum extraction
- Controlled cord traction, Manual removal of placenta, placental examination
- Manual vacuum aspiration

- Postnatal assessment -20
- Management of breast engorgement
- Postnatal counseling
- Laboratory test: blood Hb, Sugar, Urine albumin, sugar
- Breast care, breast exam and drainage breast abscess.
- Postnatal exercise.
- Assessment- New born assessment: physical and neurological, Apgar score, high risk newborn, Monitoring neonates; Clinically and with monitors capillary refill time, Assessment of jaundice, danger signs
- Anthropometric measurement
- Neonatal resuscitation
- Neonatal resuscitation
- Kangaroo mother care.
- Assisting mother with exclusive Breast feeding
- Feeding technique: Katori, Spoon naso/. Orogastri, Total paarenteral nutrition
- Assessment, calculation and administration of fluids and medications
  - Oral
  - I.D
  - I.M
  - I.V- Securing IV line, infusion pump

MASTER OF NURSING  
Clinical Specialty –II (A)  
PAPER (iii)  
Child Health ( Paediatric) Nursing

Placement 3rd year

Semester III

Hours of Instruction  
Theory 75 hours  
Practical 480 hours  
Total: 555 Hours

Course Description

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

Course

Unit	Hours	Content
1	5	<ul style="list-style-type: none"> <li>• Current principles, practices and trends in pediatric nursing</li> <li>• Role of pediatric nurse in various settings Expanded and extended</li> </ul>
2	35	<ul style="list-style-type: none"> <li>• Path physiology, assessment (including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities and nursing intervention in selected pediatric medical disorders.</li> <li>• Child with respiratory disorders:               <ul style="list-style-type: none"> <li>- Upper respiratory tract: choanal atresia, tonsillitis, epistaxis, aspiration.</li> <li>- Lower respiratory tract: Broncheolitis, Bronchopneumonia, Asthma, cystic fibrosis</li> </ul> </li> <li>• Child with gastro intestinal disorders:               <ul style="list-style-type: none"> <li>- Diarrheal diseases, gastro- esophageal reflux.</li> <li>- Hepatic disorders: Hepatitis, Indian childhood cirrhosis, Liver transplantation.</li> </ul> </li> <li>• Child with renal/ urinary tract disorders: nephritic and nephrotic syndrome, Nephritis, Hydronephrosis, hemolytic uremic syndrome, kidney transplantation.</li> <li>• Child with cardio vascular disorder:               <ul style="list-style-type: none"> <li>Acquired: Rheumatic fever, Rheumatic heart disease,</li> <li>Congenital: Cyanotic and acyanotic</li> </ul> </li> <li>• Child with endocrine/ metabolic disorders: Diabetes insipidus, Diabetes Mellitus- IDDM, NIDDM, Hyper and hyp thyroidism, Phenylketonuria, galactocemia.</li> <li>• Child with Neurological disorders: Convulsions, Meningitis, encephalitis, guillian Barre syndrome</li> <li>• Child with oncological disorders: Leukemias, Lymphomas, Wilms' tumor, neuroblastomas, neuroblastoma, Rhabdomyosarcoma, retinoblastoma, hepatoblastoma, Bone tumors.</li> <li>• Child with blood disorders: Anemias, thalassemias, hemophilia, polycythemia, thrombocytopenia, and disseminated intravascular and disseminated intravascular coagulation</li> <li>• Child with skin disorders</li> <li>• Common Eye and ENT disorders</li> </ul>

		<ul style="list-style-type: none"> <li>• Common communicable disease</li> </ul>
III	35	<p>Assessment ( Including interpretation of various invasive and non invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing interventions in selected pediatric surgical problems/ Disorders</p> <ul style="list-style-type: none"> <li>• Gastrointestinal system: Cleft lip cleft palate and conditions requiring plastic surgery, Tracheo esophageal fistula/ atresia, hirschsprugs' disease/megacolon, mlrotation, intestinal obstruction, duodenal atresia, gastrochisis, exomphalus, anorectal malformation, omphalocele, diaphragmatic hernia.</li> <li>• Anomalies of nervous system: Spina bifida, Meningocele, Myelomeningocele, hydrocephalus</li> <li>• Anomalies of the skeletal system</li> <li>• Eye and ENT disorders</li> <li>• Nursing management of the child with traumatic injuries: General principles of managing pediatric trauma – Head injuries, abdominal injury, poisoning, foreign body obstruction buns and Bites.</li> <li>• Child with oncological disorders: Solid tumors of childhood, nephroblastoma, Neuro blastoma, Hodgkin's / Non Hodgkin's Lymphoma, Hepatoblastoma, Rhabdomyosarcoma</li> <li>• Management of stomas, catheters and tubes</li> <li>• Management of wounds and drainages.</li> </ul>

Practical

Total =480 Hours  
1 week = 30 Hours

S.No.	Deptt. / Unit	No. of Week	Total Hours
1	Pediatric Medicine ward	6	180
2	Pediatric Surgery ward	6	180
3	Emergency / Casualty	2	60
4	Field Visits	2	60
	Total	16 week	480 Hours

\*Child care center, Anganwadi, play school, Special schools for challenged children, Juvenile court, UNICEF, Orphanage, Creche, Sos Village.

### Essential

I. Procedure observed:

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

II Procedures Assisted

- Advanced neonatal life support

- Lumbar Puncture
- Arterial Blood Gas
- ECG Recording
- Umbilical catheterization arterial and venous
- Arterial BP monitoring
- Blood transfusion exchange transfusion full and partial
- IV cannulation and therapy
- Arterial catheterization
- Chest tube insertion
- Endotracheal intubation
- Ventilation
- Intertion of long line
- Assist in surgery

### III Procedure performed

- Airway management
- Application of Oro pharyngeal Airway
- Cpap continuous Positive Airway Pressure
- Oxygen therapy
- Care of Tracheostomy
- Endotracheal intubation
- Neonatal Resuscitation
- Monitoring of Neonates clinically and with monitors, CRT ( Capillary Refill Time) assessment of Jaundice  
ECG
- Gastric Lavage
- Setting of Ventilators
- Phototherapy
- Assessment of Neonates: Identification and assessment of risk factors, APGAR Newborn examination, detection of life threatening congenital abnormalities,
- Admission and discharge of neonates
- Feeding- management of breast feeding artificial feeding, expression of breast milk OG (Orogastric) tube insertion gavage feeding, TPN, Breast feeding conseling
- Thermoregulation Axillary temperature Kangaroo Mother Care (KMC) use of Radianty Warmer, incubators, management of thermoregulation and control
- Administration of Drugs: I/M, IV injection, IV Cannulation and fication infusion pum, Calucation of dosages Neonatla formulation of drugs, use of tuberculin./ insulin syringes, Monitoring fluid therapy,k Blood administration.
- Procedure for prevention of infection: Hand washing, disinfections and sterilization, surveillance, fumigation
- Collection specimens
- Settings use and maintenance of basic equipment: Ventilator, Oxygen analyzer, monitoring equipment photo therapy unit, Flux meter, Infusion pump, Radiant warmer, incubator, Centrifuge machine, bilimeter, Refractometer, laminar flow.

**Master of Nursing**  
**CLINICAL SPECIALITY – II-A**  
**PSYCHIATRICAL HEALTH NURSING**  
**Paper- X (iv)**

**Placement : IInd Year**

**Semester: III**

Hours of Instruction

Theory 75hrs

Practical 475 hours

Total : 550hrs.

**Course Description**

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

**Objectives**

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

1. Apply the nursing process in the care of patients with mental disorders in hospital and community.
2. Demonstrate advanced skills/ competence in nursing management of patients with mental disorders.
3. Identify and care for special groups like children, adolescents, women, elderly, abused and neglected, people living with HIV / AIDS.
4. Identify and manage psychiatric emergencies.
5. Provide nursing care to critically ill patients with mental disorders.
6. Demonstrate skills in carrying out crisis intervention.
7. Appreciate the legal and ethical issues pertaining to psychiatric nursing.

**Course Content**

Units	Hours	Content
<b>I</b>	<b>2</b>	<b>Principles and practice of Psychiatric nursing</b> <ul style="list-style-type: none"> <li>▪ Review</li> </ul>
<b>II</b>	<b>10</b>	<b>Crisis Intervention</b> <ul style="list-style-type: none"> <li>▪ Crisis, Definition</li> <li>▪ Phases in the development of a crisis</li> <li>▪ Types of crisis; Dispositional, Anticipated life transitions Traumatic stress, Maturation/ Development, Reflecting Psychopathology</li> <li>▪ Psychiatric Emergencies and their management</li> <li>▪ Grief and grief reaction</li> <li>▪ Crisis Intervention; phases</li> <li>▪ Post traumatic stress disorder (PTSD)</li> <li>▪ Role of the nurse</li> </ul>
<b>III</b>	<b>4</b>	<b>Anger/ Aggression Management</b>

		<ul style="list-style-type: none"> <li>▪ Anger and aggression, Types, predisposing factors</li> <li>▪ Management</li> <li>▪ Role of the nurse</li> </ul>
<b>IV</b>	<b>4</b>	<b>The Suicidal Client</b> <ul style="list-style-type: none"> <li>▪ Epidemiological factors</li> <li>▪ Risk factors <ul style="list-style-type: none"> <li>▪ Predisposing factors: Theories of Suicide-Psychological, Sociological, Biological.</li> </ul> </li> <li>▪ Nursing management</li> </ul>
<b>V</b>	<b>5</b>	<b>Disorders of Infancy, Childhood, and Adolescence</b> <ul style="list-style-type: none"> <li>▪ Mentally Challenged</li> <li>▪ Autistic Disorders</li> <li>▪ Attention-Deficit/Hyperactivity Disorder</li> <li>▪ Conduct Disorders, behavioural disorders</li> <li>▪ Oppositional Defiant Disorder</li> <li>▪ Tourette's Disorders</li> <li>▪ Separation Anxiety Disorder</li> <li>▪ Psychopharmacological Intervention and Nursing Management</li> </ul>
<b>VI</b>	<b>10</b>	<b>Schizophrenia and other Psychotic Disorders (Check ICD 10)</b> <ul style="list-style-type: none"> <li>▪ Nature of the Disorder</li> <li>▪ Predisposing Factors</li> <li>▪ Schizophrenia- Types <ul style="list-style-type: none"> <li>• Disorganized Schizophrenia</li> <li>• Catatonic Schizophrenia</li> <li>• Paranoid Schizophrenia</li> <li>• Undifferentiated Schizophrenia</li> <li>• Residual Schizophrenia</li> </ul> </li> <li>▪ Other Psychotic Disorders <ul style="list-style-type: none"> <li>• Schizoaffective Disorder</li> <li>• Brief Psychotic Disorder</li> <li>• Schizophreniform Disorder</li> <li>• Psychotic Disorder Due to a General Medical Condition</li> <li>• Substance-Induced Psychotic Disorder</li> </ul> </li> <li>▪ Treatment and Nursing Management</li> </ul>
<b>VII</b>	<b>8</b>	<b>Mood Disorders</b> <ul style="list-style-type: none"> <li>▪ Historical Perspective</li> <li>▪ Epidemiology</li> <li>▪ The Grief Response</li> <li>▪ Maladaptive Responses To Loss</li> <li>▪ Types of Mood Disorders</li> <li>▪ Depressive disorders</li> <li>▪ Bipolar disorders</li> <li>▪ Treatment and Nursing Management</li> </ul>
<b>VIII</b>	<b>4</b>	<b>Adjustment and Impulse Control Disorders</b> <ul style="list-style-type: none"> <li>▪ Historical and epidemiological <ul style="list-style-type: none"> <li>• Adjustment disorders</li> <li>• Impulse control disorders</li> </ul> </li> <li>▪ Treatment &amp; nursing management</li> </ul>
<b>IX</b>	<b>4</b>	<b>Medical Conditions due to Psychological Factors</b>

		<ul style="list-style-type: none"> <li>▪ Asthma</li> <li>▪ Cancer</li> <li>▪ Coronary heart disease</li> <li>▪ Peptic ulcer</li> <li>▪ Essential hypertension</li> <li>▪ Migraine headache</li> <li>▪ Rheumatoid arthritis</li> <li>▪ Ulcerative colitis</li> <li>▪ Treatment &amp; nursing management</li> </ul>
<b>X</b>	<b>8</b>	<p><b>Personality Disorders</b></p> <ul style="list-style-type: none"> <li>▪ Historical perspectives</li> <li>▪ Types of perspectives disorders <ul style="list-style-type: none"> <li>• Paranoid personality disorders</li> <li>• Schizoid personality disorder</li> <li>• Antisocial personality disorder</li> <li>• Borderline personality disorder</li> <li>• Histrionic personality disorder</li> <li>• Narcissitic personality disorder</li> <li>• Avoidance personality disorder</li> <li>• Dependent personality disorder</li> <li>• Obsessive –compulsive personality disorders</li> <li>• Passive-aggressive personality disorder</li> </ul> </li> <li>▪ Identification, diagnostic, symptoms</li> <li>▪ Psychopharmacology</li> <li>▪ Treatment &amp; nursing management</li> </ul>
<b>XI</b>	<b>5</b>	<p><b>The person living with HIV disease</b></p> <ul style="list-style-type: none"> <li>▪ Psychological problems of individual HIV/AIDS</li> <li>▪ Counseling</li> <li>▪ Treatment &amp; nursing management</li> </ul>
<b>XII</b>	<b>5</b>	<p><b>Problems related to abuse or neglect</b></p> <ul style="list-style-type: none"> <li>▪ Vulnerable groups, women, children, elderly, psychiatric patients, under privileged, challenged</li> <li>▪ Predisposing factors</li> <li>▪ Treatment &amp; nursing management-counseling</li> </ul>
<b>XIII</b>	<b>5</b>	<p><b>Ethical and legal issues in psychiatric /mental health nursing</b></p> <ul style="list-style-type: none"> <li>▪ Ethical considerations</li> <li>▪ Legal consideration <ul style="list-style-type: none"> <li>• Nurse practice acts</li> <li>• Types of law</li> <li>• Classification within statutory and common law</li> <li>• Legal issues in psychiatric/mental health nursing</li> <li>• Nursing liability</li> </ul> </li> </ul>



Total = 480 Hours  
1 Week = 30 Hours

S.N.	Area of Posting	No. of week	Total Hours
1	Acute psychiatric ward	2	60
2	Chronic psychiatric ward	2	60
3	De- addiction unit	2	60
4	Psychiatric emergency	2	60
5	O.P.D. (Neuro and psychiatric)	1.5	45
6	Child psychiatric unit and child guidance clinic	1	30
7	Post natal ward	0.5	15
8	Family psychiatric unit	1	30
9	Field visits	1	30
10	Rehabilitation	1	30
11	Community mental health unit	2	60
	Total	16 week	480 Hours

### Essential Psychiatric nursing skills

#### Procedures observed

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

#### Procedures performed

1. Mental status examination
2. Participating in various therapies – physical; ECT,
3. Administration of oral, IM, IV psychotropic drugs
4. Interviewing skills
5. Counseling skills
6. Communication skills
7. Psychoeducation
8. Interpersonal relationship skills
9. Community survey for identifying mental health problems
10. Rehabilitation therapy
11. Health education and life skills training
12. Supportive psychotherapeutic skills
13. Group therapy
14. Milieu therapy
15. Social/ recreational therapy
16. Occupational therapy

Master of Nursing  
 Clinical Speciality – II- A  
 Paper – X (V)  
 Community Health Nursing

Placement: Semester – II nd year

Semester- III

Hours of Instruction  
 Theory 75  
 Practical 480  
 Total 555

Course Description

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

**Objectives**

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

1. Appreciate trends and issues related to community health nursing reproductive and child health, school health, Occupational health, international health, rehabilitation, geriatric and mental health.
2. Apply epidemiological concepts and principles in community health nursing
3. Perform community health assessment and plan health programmes
4. Describe the various components of Reproductive and child health programmes
5. Demonstrate leadership abilities in organizing community health nursing services by using inter sectoral approach.

Course Content

Unit	Hours	Content
I	20	Epidemiology <ul style="list-style-type: none"> <li>▪ Concept scope definition trends history and development of modern epidemiology</li> <li>▪ Contribution of epidemiology</li> <li>▪ Implications</li> <li>▪ Epidemiological methods</li> <li>▪ Measurement of health and disease</li> <li>▪ Health policies</li> <li>▪ Epidemiological approaches</li> <li>• Study of disease causatives</li> <li>• Health promotion</li> <li>• Levels of prevention</li> <li>• Epidemiology of</li> <li>• Communicable disease</li> <li>• Non communicable disease</li> <li>• Emerging and re emerging disease Epidemics</li> <li>• National integrated disease Surveillance programe</li> </ul>

		<ul style="list-style-type: none"> <li>• Health information system</li> <li>• Epidemiology study and reports</li> <li>• Role of community health nurse</li> </ul>
II	40	<p>National Health and Family Welfare programmes</p> <ul style="list-style-type: none"> <li>• Objectives, organization/ manpower/ resources, activities goals inter ectral approach, implemenataion, purpose, roles and responsibilities of community health nurse:</li> <li>• National vector borne disease control programme (NVBDCP)</li> <li>• National Filaria Control Programme</li> <li>• National leprosy Eradication programme</li> <li>• Revised national TB control programme</li> <li>• National programme for control programme</li> <li>• National iodine deficiency disorders control programme</li> <li>• National mental health programme</li> <li>• National AIDS control programme</li> <li>• National cancer control programme</li> <li>• RCH I and II</li> <li>• Non Communicable disease programme</li> <li>• NRHM</li> <li>• Health schemes</li> <li>• ESI</li> <li>• CGHS</li> <li>• Health Insurance</li> </ul>
III	15	<p>School Health</p> <ul style="list-style-type: none"> <li>• Introduction definition, concepts objectives</li> <li>• Health assessment screening identification, referral and follow up,</li> <li>• Safe environment</li> <li>• Services programmes and plans first aid treatments of minor ailments</li> <li>• Inter sectoral coordination</li> <li>• Adolescent health</li> <li>• Disaster, disaster preparedness, and management</li> <li>• Guidance and counseling</li> <li>• School health records maintenance and its importance</li> <li>• Roles and responsibilities of community health nurse.</li> </ul>

Practical

Total 480

1 week –30 Hours

S.No.	Deptt. / Unit	No. of Week	Total Hours
1	Urban and Rural Community	13	390
2	School health	3	90
3	International health		
4	Administration (SC/PHC/CHC)		

5	Occupational health		
6	Community mental health		
7	Home for aged and hospice		
8	Rehabilitation		
	Total		

### **Categorization of practical activities**

#### **Observed**

- MCh office and DPHNO
- CHC/ First Referral Unit
- Child guidance clinic
- Institute/ Unit for mentally challenged
- Distric TB Center
- AIDS control society
- Filariasis clinic
- RCH Clinic
- STD Clinic
- Leprosy Clinic

#### **Assisted**

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

#### **Performed**

- Conduct various clinics
- School health assessment
- Health servey
- Health assessment
- Drug administration as per the protocol
- Treatment of minor ailments
- Investigating outbreak of epidemic
- Screening for leprosy, TB and non communicable disease
- Presumptive and radical treatment for malaria
- Counseling

#### **Internal assessment**

- Test 50
  - Assignment 25
  - Presentation 25
- Out of 25/ 100/4

Master of Nursing

2<sup>nd</sup> Year

Semester – IV

# Master of Nursing

## Nursing Management –II

### Paper= XI

Placement- II year  
Semester- IV

Hours of instruction  
Theory- 75 Hours  
Practical -75 Hours  
Total -150 Hours

#### Course Description

This course is designed to assist student to develop a broad understanding of Principles concepts trends and issues related to nursing management. Further it would provide opportunity to student 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 student will be able to:

1. Describe the philosophy and objective of the health care institution at various levels.
2. Identify trends and issues in nursing.
3. Discuss the public administration, health care administration vis a vis nursing administration.
4. Describe the principles of administration applied to nursing
5. Explain the organization of health and nursing services at the various levels/ institution.
6. Discuss the planning supervision and management of nursing workforce for various health care setting.

Unit	Hours	Content
I	15	<p>Directing</p> <ul style="list-style-type: none"><li>• Role and functions</li><li>• Motivation intrinsic extrinsic creating motivation climate motivation theories</li><li>• Communication process, types strategies, interpersonal communication channels barriers problems confidentiality public relation</li><li>• Delegation common delegation errors</li><li>• Managing conflict Process management negotiation, consensus</li><li>• Collective bargaining health care labour laws, union professional association role of nurse manager</li><li>• Occupational health and safety</li></ul> <p>Application to nursing service and education</p>
II	15	<p>Controlling</p> <ul style="list-style-type: none"><li>• Quality assurance- continuous quality improvement</li><li>• Standards</li><li>• Models</li><li>• Nursing audit</li><li>• Performance appraisal: Tools confidential reports, formate management interviews</li><li>• Supervision and management concepts and principles</li></ul>

		<ul style="list-style-type: none"> <li>• Discipline service rules self discipline constructive versus destructive discipline problem employees disciplinary proceedings enquiry etc.</li> <li>• Self evaluation or per evaluation patient satisfaction utilization review</li> </ul> <p>Application to nursing service and education</p>
III	15	<p>Fiscal planning</p> <ul style="list-style-type: none"> <li>• Steps</li> <li>• Plan and non plan zero budgeting mid term appraisal, capital and revenue</li> <li>• Budget estimate, revised performance budget</li> <li>• Audit</li> <li>• Cost effectiveness</li> <li>• Cost effectiveness</li> <li>• Health care reforms</li> <li>• Health economics</li> <li>• Health insurance</li> <li>• Budgeting for various units and levels</li> </ul> <p>Application to nursing service and education</p>
IV	10	<p>Nursing informatics</p> <ul style="list-style-type: none"> <li>• Trends</li> <li>• General purpose</li> <li>• Use of computers in hospital and community</li> <li>• Patient record system</li> <li>• Nursing records and reports</li> <li>• Management information and evaluation system (MIES)</li> <li>• E- Nursing Telemedicine, tele nursing</li> <li>• Electronic medical records</li> </ul>
V	10	<p>Leadership</p> <ul style="list-style-type: none"> <li>• Concepts, types, theories</li> <li>• Styles</li> <li>• Manager behavior</li> <li>• Leader behavior</li> <li>• Effective leader Characteristics, skills</li> <li>• Group of dynamics</li> <li>• Power and politics</li> <li>• Lobbying</li> <li>• Critical thinking and decision making</li> <li>• Stress management</li> </ul> <p>Application to nursing service and education</p>
VI	10	<p>Legal and ethical issues law and ethics</p> <ul style="list-style-type: none"> <li>• Ethical committee</li> <li>• Code of ethics and professional conduct</li> <li>• Legal system: Types of law, tort law, and liabilities</li> <li>• Legal issues in nursing: negligence, malpractice, invasion of privacy, defamation of character</li> <li>• Patient care issues, management issues, employment issues</li> <li>• Medico legal issues</li> <li>• Nursing regulatory mechanisms: licensure, renewal, accreditation</li> <li>• Patients rights, consumer protection act (CPA)</li> <li>• Rights of special groups: Children, women, HIV, Handicap, ageing</li> <li>• Professional responsibility and accountability</li> </ul>

		<ul style="list-style-type: none"><li>• Infection control</li><li>• Standard safety measures</li></ul>
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## **PRACTICALS**

1. Preparation of budget estimate, Revised estimate and performance budget
2. Developing nursing standards/ protocols for various units
3. Prepare a plan of action for performance appraisal
4. Identify the problems of the speciality units and develop plan of action by using problem solving approach
5. Plan a duty roster for speciality units/ hospital, community and educational institutions
6. Prepare: anecdotes, incident reports day and night reports handing and taking over reports enquiry reports nurse notes, official letters, curriculum vitae, presentation etc
7. Group work.
8. Field appraisal report



**Master of Nursing**  
**CLINICAL SPECIALITY – II- B**  
**Paper- XII (i)**  
**Medical Surgical Nursing**  
**Sub speciality – Cardio vascular and Thoracic Nursing (Part-a)**

**Placement : II Year**

**Semester: IV**

**Hours of Instruction**  
**Theory 75hrs**  
**Practical 480 hours**  
**Total : 555 hrs.**

**Course Description**

**Course Description**

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

**Objectives**

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

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

15. Appreciate the role of alternative system of medicine in care of patient
16. Incorporate evidence based nursing practice and identify the areas of research in the field of cardio vascular and thoracic nursing
17. Identify the sources of stress and manage burnout syndrome among health care providers.
18. Teach and supervise nurses and allied health workers.
19. Design a layout of ICCU and ICTU and develop standards for cardio vascular and thoracic nursing practice.

## Content Outline

Unit	Hours	Content
I	10	<p><b>Cardiac disorders and nursing management:</b></p> <ul style="list-style-type: none"> <li>▪ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</li> <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 veins</li> <li>▪ Chronic venous insufficiency and venous leg ulcers</li> <li>▪ Pulmonary embolism</li> </ul>
II	10	<p><b>Cardio thoracic emergency interventions</b></p> <ul style="list-style-type: none"> <li>• CPR- BLS and ALS</li> <li>• Use of ventilator, defibrillator pacemaker</li> <li>• Post resuscitation care.</li> <li>• Care of the critically ill patients</li> <li>• Psychosocial and spiritual aspects of care</li> <li>• Stress management: ICU psychosis</li> <li>• Role of nurse</li> </ul>
III	10	<p><b>Nursing care of a patient with obstructive airway</b></p> <ul style="list-style-type: none"> <li>• Assessment</li> <li>• Use of artificial airway</li> <li>• Endotracheal intubation, tracheostomy and its care</li> <li>• Complication, minimum cuff leak, securing tubes</li> <li>• Oxygen delivery system</li> <li>• Nasal cannula</li> <li>• Oxygen mask venture mask</li> <li>• Partial rebreathing bag</li> <li>• BI PAP and C Pap masks</li> <li>• Uses advantages disadvantages nursing implications of each.</li> <li>• Mechanical ventilation</li> <li>• Principles of mechanical ventilation</li> <li>• Types of mechanical ventilation and ventilators</li> </ul>

		<ul style="list-style-type: none"> <li>• Modes of ventilation, advantages disadvantages complications.</li> <li>• PEEP therapy, indications, physiology and complications, Weaning of the ventilator.</li> <li>• Nursing assessment and interventions of ventilated patient</li> </ul>
<b>IV</b>	<b>10</b>	<p><b>Congenital Heart Diseases</b></p> <ul style="list-style-type: none"> <li>▪ Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</li> <li>▪ Embryological development of heart.</li> <li>▪ Classification cyanotic and acyanotic heart disease.</li> <li>▪ Tetralogy of Fallots.</li> <li>▪ Atrial septal defects, 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 connecton</li> <li>▪ Pulmonary stenosis atresia</li> <li>▪ Coarctation of aorta.</li> <li>▪ Ebstein's anomaly</li> <li>▪ Double outlet right ventricle, single ventricle hypoplastic left heart syndrome</li> </ul>
<b>V</b>	<b>10</b>	<p><b>Pharmacology</b></p> <ul style="list-style-type: none"> <li>▪ <b>Review</b></li> <li>▪ Pharmacokinetics</li> <li>▪ Analgesics/Anti inflammatory agents</li> <li>▪ Antibiotics, antiseptics</li> <li>▪ Drug reaction &amp; toxicity</li> <li>▪ Drugs used in cardiac emergencies</li> <li>▪ Blood and blood components <ul style="list-style-type: none"> <li>• Antithrombolytic agents</li> <li>• Inotropic agents</li> <li>• Beta-blocking agents</li> <li>• Calcium channel blockers.</li> <li>• Vaso constrictors</li> <li>• Vaso dilators</li> <li>• ACE inhibitor.</li> <li>• Anticoagulents</li> <li>• Antiarrhythmic drugs.</li> <li>• Anti hypertensives</li> <li>• Diuretics</li> <li>• Sedatives and tranquilizers.</li> <li>• Digitalis.</li> <li>• Antilipemics</li> <li>• Principles of drug administration, role and responsibilities of nurses and care of drugs</li> </ul> </li> </ul>
<b>VI</b>	<b>20</b>	<p><b>Nursing care of patient undergoing cardio thoracic surgery</b></p> <ul style="list-style-type: none"> <li>▪ Indications, selection of patient</li> <li>▪ Preoperative assessment and preparation; counseling.</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Intraoperative care: Principles of open heart surgery, equipment, anaesthesia, cardiopulmonary by pass.</li> <li>▪ Surgical procedures for Coronary Artery Bypass Grafting, recent advances and types of graft, Valve replacement or reconstruction, cardiac transplant, Palliative surgery and different stents, vascular surgery, other recent advances.</li> <li>▪ Thoracic surgery: lobectomy, pneumonectomy, tumour excision etc</li> <li>▪ 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, perfusion, Neurological problems renal problem, Psychological problems.</li> <li>▪ Chest physiotherapy</li> <li>▪ Nursing interventions life style modification complementary therapy alternative systems of medicine.</li> <li>▪ Intermediate and late post operative care after CABG valve surgery. Follow up care.</li> </ul>
<b>V</b>	<b>5</b>	<b>Cardiac rehabilitation</b> <ul style="list-style-type: none"> <li>• Process/physical evaluation</li> <li>• Life style modification</li> <li>• Physical conditioning for cardiovascular efficiency through exercise</li> <li>• Counseling</li> <li>• Follow up care</li> </ul>

Practical

Total=480  
1 week =30

S. No	Dept / Unit	No. of week	Total hours
1	Cardio thoracic medical	2	60
	Surgical	2	60
2	OTs ( cardiac and thoracic	2	60
3	Casualty	1	30
4	Diagnostic labs including cath lab	1	30
5	ICCU	4	120
6	ICU	4	120
7	CCU		
8	Paediatric intensive		
9	OPD		
	<b>Total</b>	<b>16 week</b>	<b>480 week</b>

**Master of nursing**  
**Clinical speciality – II -B Paper – XII (i)**  
**Medical Surgical Nursing**  
**Critical Care Nursing ( Part- b)**

**Placement: Semester-IV**

**Hours of instruction**

**Theory : 75 hrs.**

**Practical : 480 hrs.**

**Total : 555 hrs.**

**Course Description**

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

**Objectives**

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

1. Appreciate trends and issues related to cardio vascular and thoracic Nursing.
2. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of cardio vascular and thoracic conditions
3. 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 complication & take appropriate measures.
12. Discuss the legal and ethical issues in cardio vascular and thoracic nursing
13. Assist patients and their family to cope with emotional distress, 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 cardio vascular and thoracic 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 ICCU and ICTU and develop standards for cardio vascular and thoracic nursing practice.

**Course Content**

Unit	Hours	Content
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I	15	<p><b>Management of other Emergency Condition</b></p> <ul style="list-style-type: none"> <li>▪ Mechanism of injury , Thoracic injuries , Abdominal injuries, pelvic fractures, complication of trauma, head injuries.</li> <li>▪ Shock : Shock syndrome, Hypovolemic, cardiogenic, Anaphylactic, Neurogenic and Septic shock</li> <li>▪ Systemic inflammatory Response : The inflammatory response, Multiple organ dysfunction syndrome</li> <li>▪ Disseminated Intravascular Coagulation</li> <li>▪ Drug Overdose and Poisoning,</li> <li>▪ Acquired Immunodeficiency Syndrome (AIDS)</li> <li>▪ Ophthalmic : Eye injuries, Glaucoma, retinal detachment</li> <li>▪ Ear Nose Throat: Foreign bodies, stridor, bleeding, quincy, acute allergic condition</li> <li>▪ Psychiatric emergencies: suicide</li> <li>▪ Crises intervention</li> </ul>
II	20	<p><b>Cardiovascular emergencies</b></p> <ul style="list-style-type: none"> <li>▪ Principles of Nursing in caring for patient's with Cardiovascular disorders</li> <li>▪ Assessment : Cardiovascular system: Heart sounds , Diagnostic studies:- Cardiac enzymes studies, Electrocardiographic monitoring, Holter monitoring, Stress test. Echo cardiography, Coronary angiography , Nuclear medicine studies</li> <li>▪ Causes, Pathophysiology, Clinical types, Clinical features, Diagnostic prognosis, Management : Medical, Surgical &amp; Nursing management of : Hypertensive crises, Coronary artery diseases, 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</li> <li>▪ Management Modalities: Thrombolytic therapy , pacemaker temporary &amp; permanent percutaneous transluminal coronary angioplasty, Cardioversion, Intra Aortic Balloon pump monitoring Defibrillation, Cardiac surgeries, Coronary Artery Bypass Grafts (CABG/ MICAS), Valvular surgeries, Heart Transplantation, Autologous blood transfusion, Radiofrequency Catheter Ablation Autologous blood transfusion, Radiofrequency Catheter Ablation.</li> </ul>
III	15	<p><b>Respiratory system</b></p> <ul style="list-style-type: none"> <li>▪ Acid-base balance &amp; imbalance</li> <li>▪ Assesment : History &amp; Phusical examination</li> <li>▪ Diagnostic Test : 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</li> <li>▪ Causes Pathophysiology , Clinical types, Clinical features, prognosis, Management: Medical, Surgical and Nursing management of Common pulmonary disorders :- Pneumonia, Status asthmatics, interstitial drug disease, pleural effusion, chronic obstruction pulmonary disease, Pulmonary tuberculosis, Pulmonary edema, Atelectasis. Pulmonary embolism, Acute respiratory failure, Acute respiratory distress syndrome (ARDS), Chest Trauma Haemothorax, Pneumothorax</li> <li>▪ Management Modalities: Airway Management</li> <li>▪ Ventilatory Management : Invasive, non- invasive, long term mechanical ventilation</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Bronchial Hygiene:- Nebulization, deep breathing exercise, chest physiotherapy, postural drainage, Inter Costal Drainage, Thoracic surgeries</li> </ul>
<b>IV</b>	<b>6</b>	<p><b>Burns</b></p> <ul style="list-style-type: none"> <li>▪ Clinical types, classification, pathophysiology, clinical features, assessment, diagnosis, prognosis, Management : Medical, Surgical &amp; 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 complication</li> <li>▪ Grafts and flaps</li> <li>▪ Reconstructive surgery</li> <li>▪ Rehabilitation</li> </ul>
<b>V</b>	<b>5</b>	<p><b>Obstetrical Emergencies</b></p> <ul style="list-style-type: none"> <li>▪ Causes, Pathophysiology, Clinical types, clinical feature, diagnostic prognosis, Management : Medical, Surgical and Nursing management of : Antepartum haemorrhage, , Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, post partum haemorrhage , Puerperal sepsis, Obstetrical shock</li> </ul>
<b>VI</b>	<b>10</b>	<p><b>Neonatal Paediatric 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</li> <li>• Neonatal emergencies</li> <li>• Asphyxia Neonatorum, Pathological Jaundice in Neonates, Neonatal seizures, Metabolic disorders, Intra cranial Hemorrhage, Neonatal sepsis, RDS/HMD (Respiratory Distress syndrome / Hyaline Membrane Disease) , Congenital disorders:-</li> <li>• Cyanotic heart disease, trachea oesophageal fistula, congenital hypertropic pyloric stenosis, imperforate anus</li> <li>• Pediatric emergencies</li> <li>• Dehydration, Acute broncho pneumonia, Acute respiratory distress syndrome, Poisoning, Foreign bodies, seizures, traumas, Status asthmaticus</li> </ul>
<b>VII</b>	<b>2</b>	<p><b>Legal and ethical issues in critical care- Nurse's role</b></p> <ul style="list-style-type: none"> <li>▪ Brain death</li> <li>▪ Organ donation Counselling</li> <li>▪ Do Not Resuscitate (DNR)</li> <li>▪ Euthanasia</li> <li>▪ Living will</li> </ul>
<b>VIII</b>	<b>2</b>	<p><b>Quality assurance</b></p> <ul style="list-style-type: none"> <li>▪ Standards, Protocols, Policies, Procedures</li> <li>▪ Infection control; Standard safety measures</li> <li>▪ Nursing audit</li> <li>▪ Staffing</li> </ul>

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|  | <ul style="list-style-type: none"> <li>Design of ICU/ CCU</li> </ul> |
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**Total = 480 Hours**

**1 Week = 16 Hours**

S. No.	Deptt. / Unit	No. of Week	Total Hours
3	Burns	2	60 hours
5	Medical ICU	2	60 Hours
6	Surgical ICU	4	120 Hours
9	CCU	2	60 Hours
10	Emergency Department	3	90 Hours
12	Dialysis Unit	---	---
13	Transplant Room	1	30 hours
14	Paediatric / NICU	2	60 Hours
	<b>Total</b>	<b>16 Week</b>	<b>480 Hours</b>

## ESSENTIAL CRITICAL CARE NURSING SKILLS

### II. Procedures Observed

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

### III. Procedures Assisted

1. Advanced life support system
2. Basis 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 intubation
11. Ventilation
12. Insertion of central line / CVP line
13. Connecting lines for dialysis

#### **IV. Procedure Performed**

1. Airways Management
  - a. Application of oropharyngeal airways
  - b. Oxygen therapy
  - c. CPAP (Continuous Positive Airways Pressure)
  - d. Care of tracheostomy
  - e. Endotracheal extubation
2. Cardiopulmonary resuscitation, Basic cardiac life support, ECG
3. Monitoring of critically ill patient- clinically with monitors, capillary refill time (CRT) assessment of jaundice, ECG.
4. Gastric lavage
5. Assessment of critically ill patient  
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, 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 infection:

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

12. Collection of specimen.

13. Setting use & maintenance of basic equipment, ventilator, O<sub>2</sub>  
analyzer, monitoring equipment, transducers, defibrillator.  
infusion, & syringe pumps, centrifuge machine.

**Master of Nursing**  
**CLINICAL SPECIALITY –II- B Paper- XII (i)**  
**MEDICAL SURGICAL NURSING-ONCOLOGY NURSING (part- c)**

**Placement: Semester-IV, 2<sup>nd</sup> year**

**Hours of instruction**

**Theory : 75 hrs.**

**Practical : 480 hrs.**

**Total : 555 hrs.**

**Course Description**

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

**Objectives**

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

X	30	<p><b>Nursing care of Patient 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,</li> <li>▪ Gynecological malignancies – cervix, uterus, ovary</li> <li>▪ Hematological malignancies – Lymphomas, Leukemias.</li> <li>▪ Malignancies of musculoskeletal system</li> <li>▪ Endocrine malignancies</li> <li>▪ Skin</li> <li>▪ Head and Neck – brain tumors</li> <li>▪ Others malignancies – Breast cancer. AIDS related Malignancies (Kaposi’s Sarcoma)</li> </ul>
XI	10	<p><b>Paediatric malignancies</b></p> <ul style="list-style-type: none"> <li>▪ Leukemia, Lymphoma, Neuro – blastoma</li> <li>▪ Wilm’s tumor, Soft tissue sarcoma, Retinoblastoma</li> <li>▪ Nursing Management of children with Paediatric Malignancies</li> </ul>
XII	15	<p><b>Nursing Management of Physiological condition and Symptoms of Cancer Patient</b></p> <ul style="list-style-type: none"> <li>▪ <u>Nutrition</u>: effects of cancer on nutritional status and its consequences :- Anemia, Cachexia, Xerostomia, mucositis, Dysphagia, nausea and vomiting, constipation diarrhoea, electrolyte imbalances, tastes alteration</li> <li>▪ Impaired mobility : Decubitus ulcer, pathologic fractures, thrombophlebitis, pulmonary embolism, contractures, footdrop</li> </ul> <p><b>Other symptoms</b></p> <ul style="list-style-type: none"> <li>▪ Dyspepsia &amp; hiccup, dyspnoea</li> <li>▪ Intestinal obstruction,</li> <li>▪ Fungating wounds</li> <li>▪ Anxiety &amp; depression, insomnia</li> <li>▪ Lymph edema</li> </ul> <p><b>Impact of cancer on sexuality:</b></p> <ul style="list-style-type: none"> <li>▪ Effect of radiotherapy / chemotherapy / surgery on sexuality of the cancer patient</li> <li>▪ Nursing management of cancer patient experiencing sexual dysfunction</li> <li>▪ Sexual counseling</li> </ul>
XIII	10	<p><b>Cancer Emergencies</b></p> <ul style="list-style-type: none"> <li>• Disseminated intravascular coagulation (DIC)</li> <li>• Malignant pleural effusion</li> <li>• Neoplastic cardiac tamponade and septic shock and spinal cord compression</li> <li>• Superior venacava syndrome</li> <li>• Metabolic emergency : hyper and hypo Calcemia</li> <li>• Surgical emergency</li> <li>• Urological emergency</li> <li>• Hemorrhage</li> <li>• Organ obstruction</li> <li>• Brain metastasis</li> </ul>

		<ul style="list-style-type: none"> <li>Nurses role in managing oncologic emergencies</li> </ul>
<b>V</b>	<b>8</b>	<p><b>Psycho- Social Aspect of Nursing Care</b></p> <ul style="list-style-type: none"> <li>Psychological responses of patient with cancer</li> <li>Psychosocial assessment-</li> <li>Crisis intervention , coping mechanisms</li> <li>Stress management, spiritual/ cultural care and needs</li> <li>Counseling: individual and family</li> <li>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>End of life care</li> <li>Grief and grieving process</li> <li>Bereavement support</li> <li>Care of Nurses who care for the dying.</li> </ul>
<b>VI</b>	<b>2</b>	<p><b>Layout and Design of an oncology institution/ ward, OPD, chemotherapy unit, Bone marrow transplantation unit, pain clinic etc</b></p> <ul style="list-style-type: none"> <li>Practice Standards of oncology nursing</li> <li>Policies and procedures</li> <li>Establishing Standing orders and protocols</li> </ul> <p><b>Quality Assurance Programme in oncology units</b></p> <ul style="list-style-type: none"> <li>Nursing audit</li> </ul>

**Total =480 Hours**  
**1 week = 30 hours**

### Clinical Experience

S. No.	Deptt./ Unit	No. of week	Total Hours
1	Medical Oncology ward	3	90 Hours *
2	Surgical Oncology ward	3	90 Hours
3	Bone marrow transplantation Units	1	30 Hours
4	Operation Theatre	1	30 Hours
5	Radiotherapy unit	1	30 Hours
6	Chemotherapy Unit	2	60 Hours
7	Out patient department and pain clinic	1	60 Hours
8	Pediatric Oncology Ward	1	30 Hours
9	Palliative care ward	1	30 Hours
10	Community oncology	1	30 Hours
11	Hospice	1	30 Hours
12	Other field visits	--	30 Hours
	<b>Total</b>	<b>16 Weeks</b>	<b>480 Hours</b>

### Procedures Observed

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

#### **Procedures Assisted**

- 1) IV cannulation – Open methods
- 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) Tracheocentesis
- 14) Thoracentesis
- 15) Paracentesis
- 16) Lumbar Puncture
- 17) Arterial Blood Gas
- 18) Nerve Block
- 19) Chest tube insertion
- 20) Intercostal drainage
- 21) CVP monitoring

#### **Procedure Performed**

- 1) Screening for cancer
- 2) Assessment of pain
- 3) Assessment of Nutritional status
- 4) Care of Tracheostomy
- 5) Endotracheal intubation

- 6) Gastric gavage
- 7) Pap smear
- 8) IV cannulation
- 9) Care of surgical flaps
- 10) Care of ostomies
- 11) Blood transfusion and component therapy
- 12) Counseling
- 13) Practice standard safety measures
- 14) Care of dead body and mortuary formalities

**Other procedures**

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

1. Alternative therapies

**Master of Nursing**  
**CLINICAL SPECIALITY – II- B Paper – XII (i)**  
**MEDICAL SURGICAL NURSING-**  
**NEUROSCIENCES NURSING( Part- d)**

Placement : Sem- IV, 2<sup>nd</sup> year

Hours of Instruction  
Theory – 75 Hours  
Practical- 480 Hours  
Total : 555 Hours

### **Course Description**

This course is designed to assist students in developing expertise and in-depth knowledge in the field of neurology and neurosurgical Nursing. It will help students to develop advanced skills for nursing intervention in caring for patient 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.

### **Objective**

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 patient with neurological and neurosurgical disorders
- 4) Perform neurological assessment and assist in diagnostic procedures.
- 5) Describe the concept and principles of neurosciences nursing.
- 6) Describe the various drugs used in neuroscience and nurses responsibility
- 7) Assist in various therapeutic and surgical procedures in neuroscience nursing
- 8) Demonstrate advanced skills/ competence in managing patient with neurological and neurosurgical disorder following nursing process approach
- 9) Identify psychosocial problems of patient with disabilities and assist patient 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 nursing practice and identify the areas of research in the field of neuroscience nursing.



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

Course Content

<b>I</b>	<b>10</b>	<p><b>Neuro infections</b></p> <ul style="list-style-type: none"> <li>▪ Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical &amp; Nursing management of</li> <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>
<b>II</b>	<b>10</b>	<p><b>Paroxysmal disorder,</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>• Epilepsy and seizures.</li> <li>• Status epilepticus</li> <li>• Status epilepticus</li> <li>• Syncope</li> <li>• Menier’s syndrome</li> <li>• Cephalgia</li> </ul> </li> </ul>
<b>III</b>	<b>10</b>	<p><b>Development disorders.</b></p> <ul style="list-style-type: none"> <li>▪ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, 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 encephalocelie</li> <li>• Syringomyelia.</li> <li>• CeCerebro vascular system anomalies</li> <li>• Cerebral palsies</li> <li>• Down’s syndrome</li> </ul> </li> </ul>
<b>IV</b>	<b>10</b>	<p><b>Neuro muscular disorders</b></p> <ul style="list-style-type: none"> <li>▪ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, 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> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>• Carpal tunnel syndrome</li> <li>• Peripheral neuropathies</li> </ul>
<b>V</b>	<b>5</b>	<p><b>Neoplasms – surgical conditions.</b></p> <ul style="list-style-type: none"> <li>▪ Causes, pathophysiology, Clinical types, Clinical features, diagnostic, prognosis, Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> <li>• Space occupying lesions- types</li> <li>• Common tumors of CNS,</li> </ul> </li> </ul>
<b>VI</b>	<b>5</b>	<p><b>Other disorders</b></p> <ul style="list-style-type: none"> <li>▪ Causes, pathophysiology, Clinical types: Clinical features, diagnostic, prognosis, Management: medical, surgical and Nursing management of</li> <li>▪ Metabolic disorders- diabetes, insipidus, metabolic encephalopathy</li> <li>▪ Sleep disorders</li> <li>▪ Auto immune disorders- multiple sclerosis, inflammatory myopathies</li> </ul>
<b>VII</b>	<b>10</b>	<p><b>Neuro 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 <ul style="list-style-type: none"> <li>• Increased intracranial pressure</li> <li>• Unconscious</li> <li>• Herniation syndrome</li> <li>• Seizures</li> <li>• Severe head injuries</li> <li>• Cerebro vascular accidents</li> </ul> </li> </ul>
<b>VIII</b>	<b>5</b>	<p><b>Rehabilitation</b></p> <ul style="list-style-type: none"> <li>▪ Concept and Principles of Rehabilitation</li> <li>▪ Factors affecting quality of life and coping</li> <li>▪ Rehabilitation in acute care setting, and following stroke, head injury and degenerative disorders of brain</li> <li>▪ Physiotherapy</li> <li>▪ Counseling</li> <li>▪ Care giver’s role</li> </ul> <p><b>Speech &amp; Language:-</b> Neurogenic communication disorders therapy</p>
<b>IX</b>	<b>5</b>	<p><b>Ethical and legal issues in neuroscience nursing</b></p> <ul style="list-style-type: none"> <li>▪ Brain death and organ transplantation</li> <li>▪ Euthanasia</li> <li>▪ Negligence and malpractice</li> <li>▪ Nosocomial infection</li> </ul>
<b>XIX</b>	<b>5</b>	<ul style="list-style-type: none"> <li>▪ Quality assurance in neurological nursing practice.</li> <li>▪ Role of advance practitioner in neurological nursing</li> <li>▪ Professional practice standards</li> <li>▪ Quality control in neurologic nursing</li> <li>▪ Nursing audit</li> <li>▪ 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> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>• Psychosocial aspect in relation to staff and client of neuro ICU,</li> <li>• In-service education</li> </ul>
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**Total =480 Hours**  
**1 Week = 30 Hours**

S. No.	AREA OF POSTING	No. of Week	Total Week
1	O.P.D.	1	30
2	Casualty	1	30
3	Diagnostics	1	30
4	Neuro psychiatry	1	30
5	Neuro medical wards	2	60
6	Paediatric Neuro ward	1	30
7	Neuro surgical wards	2	60
8	Head- Injury ward	1	30
9	ICU- neuro medicine	2	60
10	I.C.U.- neuro surgical	2	60
11	Rehabilitation	1	30
12	Operation Theatre	1	30
	<b>Total</b>	<b>16 weeks</b>	<b>480 Hours</b>

## ESSENTIAL NEURO NURSING SKILLS

### I. Procedures Observed

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

### II. Procedures Assisted

- 1) Advanced Cardiac life support
- 2) Lumbar Puncture

- 3) Biopsies – muscle, nerve and Brain
- 4) Arterial Blood Gas
- 5) ECG Recording
- 6) Blood transfusion
- 7) IV cannulation – open method
- 8) Endotracheal intubation
- 9) Ventilation
- 10) Tracheostomy
- 11) ICP monitoring
- 12) Gama Knife
- 13) Cerebral angiography
- 14) Myelography
- 15) Neuro surgeries

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

1. Airways management
  - a) Application of Oro Pharyngeal Airways
  - b) Care of Tracheostomy
  - c) Conduct Endotracheal Intubation
  - d) Use of AMBU bag, artificial respirators
  - e) Setting of Ventilators and care of patient 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 patient with incontinence, bladder training Catheterization
8. Care of patient 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.

### **V. Other Procedures**

**Master of nursing**  
**CLINICAL SPECIALITY – II- B, Paper- XII (i)**  
**MEDICAL SURGICAL NURSING-**  
**NEPHRO- UROLOGY NURSING (Part- e)**

Placement : Sem. IV (2<sup>nd</sup> year)

Hour of Instruction  
Theory : 75 Hours  
Practical : 480 Hours  
Total : 550 Hours

### **Course Description**

This course is designed to assist students in developing expertise and in-depth understanding in the field of nephro and urological Nursing. It will help students to develop advanced skills for nursing intervention in various nephro and urological condition. 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 patient 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 patient with **nephro and urological** conditions
- 8) Appreciate team work & coordinate activities related to patient care.
- 9) Practice infection control measures.
- 10) Identify emergencies and complication & take appropriate measures
- 11) Assist patient 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>I</b>	<b>15</b>	<ul style="list-style-type: none"> <li>▪ Management of Renal emergencies</li> <li>▪ Anuria</li> <li>▪ Acute Renal failure</li> <li>▪ Poisoning</li> <li>▪ Trauma</li> <li>▪ Urine retention</li> <li>▪ Acute graft rejection</li> <li>▪ Hematuria</li> <li>▪ Nurse,s role</li> </ul>
<b>II</b>	<b>10</b>	<p><b>Drugs used in urinary disorders</b></p> <ul style="list-style-type: none"> <li>▪ Classification</li> <li>▪ Indications, contraindications, action and effects, toxic effects</li> <li>▪ Role of nurse</li> </ul>
<b>III</b>	<b>10</b>	<p><b>Dialysis</b></p> <ul style="list-style-type: none"> <li>▪ 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>▪ Dialysis Procedures – steps, equipments, maintenance</li> <li>▪ Role of nurse- pre dialysis, intra and post dialysis</li> <li>▪ Complications</li> <li>▪ Counseling</li> <li>▪ Patient education</li> <li>▪ Records and reports</li> </ul>
<b>IV</b>	<b>10</b>	<ul style="list-style-type: none"> <li>▪ Kidney transplantation</li> <li>▪ Nursing management of a patient with Kidney transplantation</li> <li>▪ Kidney transplantations – a historical review</li> <li>▪ Immunology of graft rejections</li> <li>▪ The recipient of a renal transplant</li> <li>▪ Renal preservations</li> <li>▪ Human Leucocytic Antigen (HLA) typing matching and cross matching in renal transplantation</li> <li>▪ Surgical techniques of renal transplantations</li> <li>▪ Chronic renal transplant rejection</li> <li>▪ Complication after KTP: Vascular and lymphatic, Uroloical, cardio vascular, liver and neurological, infectious complication</li> <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> </ul>

		<ul style="list-style-type: none"> <li>▪ Psychological aspect of KTP and organ transplant</li> <li>▪ Ethics in transplants</li> <li>▪ Cadaveric transplantation</li> </ul>
<b>V</b>	<b>5</b>	<ul style="list-style-type: none"> <li>▪ Rehabilitation of patient with nephrological problems</li> <li>▪ Risk factors and prevention</li> <li>▪ Rehabilitation of patient on dialysis and after kidney transplant</li> <li>▪ Rehabilitation of patient after urinary diversions</li> <li>▪ Family and patient teaching</li> </ul>
<b>VI</b>	<b>10</b>	<p><b>Pediatric urinary disorders</b></p> <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, glomerulo nephritis, nephritic syndrome infantile nephrosis, cystic kidneys, familial factors in renal diseases in childhood, Haemolytic uraemic syndrome. Benign recurrent haematuria, nephropathy, wilms tumour</li> </ul>
<b>VII</b>	<b>5</b>	<p><b>Renal immune path/ Immunopathology</b></p> <ul style="list-style-type: none"> <li>▪ General concept of immunopathology</li> <li>▪ Immune mechanism of glomerular</li> <li>▪ Role of medialer system in glomerular vascular diseases.</li> </ul>
<b>VIII</b>	<b>5</b>	<p><b>Critical care units- dialysis, KTP unit</b></p> <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, function</li> <li>▪ Psychosocial aspects in relation to staff and client of ICU, dialysis unit</li> <li>▪ In – service education</li> <li>▪ Ethical and legal issues</li> </ul>
<b>IX</b>	<b>5</b>	<ul style="list-style-type: none"> <li>▪ Quality assurance in nephrological nursing practice</li> <li>▪ Role of advance practioner in nephrological nursing</li> <li>▪ Professional practice standards</li> <li>▪ Quality control in nephrological nursing</li> <li>▪ Nursing audit</li> </ul>

### Practicals

**Total = 480 Hours**  
**1 Week = 30 Hours**

S. No.	Deptt. / Unit	No. of Week	Total Hours
1	Nephrology Ward	3	90 Hours
2	Pediatrics	2	60 Hours
3	Critical Care Unit	--	
4	Urology Ward	3	90 Hours
5	Dialysis Unit	2	60 Hours
6	Kidney Transplantation Unit	2	60 Hours
7	URO OT	2	60 Hours

8	Emergency Wards	--	
9	Uro Nephro OPDs	2	60 Hours
10	Diagnostic Labs		
	<b>Total</b>	<b>16 Weeks</b>	<b>480 Hours</b>

## Procedures Observed

### I. Procedures Observed

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

### II. Procedures Assisted

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

### II. Procedures Performed

- 1) Health assessment
- 2) Insertion of urethral and suprapubic catheters
- 3) Urine analysis
- 4) Catheterisation
- 5) Peritoneal dialysis
- 6) Bladder irrigation
- 7) Care of ostomies
- 8) Care of Urinary drainage
- 9) Bladder training
- 10) Care of vascular access
- 11) Setting Up dialysis machine and starting, monitoring and closing dialysis
- 12) Procedures for prevention of infections:
- 13) Hand washing, disinfection & sterilization surveillance, and fumigation universal precaution
- 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



**CLINICAL SPECIALITY-II**  
**MEDICAL SURGICAL NURSING – ORTHOPEDIC NURSING**

Placement : Sem III

Hours of Instruction  
Theory : 75 Hours  
Practical : 425 Hours  
Total : 500 Hours

**Courses Description**

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

**Objectives**

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 patient 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 patient with orthopedic conditions and those requiring rehabilitation.
7. Recognize and manage orthopedic emergencies.
8. Describe recent technologies and treatment modalities in the management of patient with orthopedic condition 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 patient 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.

### Courses Content

I	10	<p><b>Chronic/ Degenerative Disease of Joint and Autoimmune Disorders:</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>• Osteo Arthritis</li> <li>• Rheumatoid Arthritis</li> <li>• Ankylosing spondylitis</li> <li>• Systemic Lupus Erythematosus</li> </ul>
II	7	<p><b>Orthopedic Disorders in Children</b></p> <ul style="list-style-type: none"> <li>• <b>General and special consideration on pediatric orthopedics</b></li> <li>• <b>Genetic disorders</b></li> <li>• <b>Congenital anomalies</b></li> <li>• <b>Growth disorders</b></li> <li>• <b>Genetic counseling</b></li> <li>• <b>Nurses role in genetic counseling</b></li> </ul>
III	7	<p><b>Geriatric Problems</b></p> <ul style="list-style-type: none"> <li>• Principles of drug administration</li> <li>• Analgesics and anti inflammatory agents</li> <li>• Antibiotics, Antiseptics,</li> <li>• Drugs used in orthopedic and neuromuscular disorders.</li> <li>• Blood and blood components</li> <li>• Care of drugs and nurses role</li> </ul>
IV	30	<p><b>Nurses Role in Orthopedic Conditions</b></p> <ul style="list-style-type: none"> <li>• Gait analysis</li> <li>• Urodynamic studies</li> <li>• Prevention of physical deformities</li> <li>• Alteration of body temperature regulatory system and immune systems</li> <li>• Immobilization – cast, splints, braces and tractions</li> <li>• Prevention and care of problems related to immobility</li> <li>• Altered sleep pattern</li> <li>• Impaired communication</li> <li>• Self care and activities of daily living</li> <li>• Bladder and bowel rehabilitation</li> <li>• Sensory function rehabilitation</li> <li>• Psychological reaction related to disabilities and disorders</li> <li>• Coping of individual and family with disabilities and disorders.</li> <li>• Maintaining sexuality</li> <li>• Spirituality - A rehabilitative prospective</li> </ul> <p><b>Orthopedic Reconstructive Surgeries</b></p> <ul style="list-style-type: none"> <li>• Replacement surgeries – Hip , knee, shoulder</li> <li>• Spine surgeries</li> </ul>

		<ul style="list-style-type: none"> <li>• Grafts and flaps surgery</li> <li>• Deformity correction</li> </ul> <b>Physiotherapy</b> <ul style="list-style-type: none"> <li>• Concept, principles, purpose,</li> <li>• Mobilization – Exercises: types, re – education in walking : crutch walking, wheel chair, Transfer techniques,</li> <li>• Types of giants; Non – weights bearing, partial weight bearing four point crutch, tripod, walking with sticks, calipers</li> <li>• Forms of therapies : Hydrotherapy, electrotherapy, wax bath, heat Therapy, ice, helio therapy, radiant heat,</li> <li>• Chest physiotherapy</li> </ul>
V	10	<b>Rehabilitation</b> <ul style="list-style-type: none"> <li>• Principles of rehabilitation, definition, philosophy, process</li> <li>• Various types of therapies</li> <li>• 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>
VI	7	<b>National policies and programs</b> <ul style="list-style-type: none"> <li>• National programmes for rehabilitation of person with disability – National Institutes, artificial limbs manufacturing Corporation, District Rehabilitation Centers and their schemes.</li> <li>• Regional rehabilitation centre act.</li> <li>• Public policy in rehabilitation nursing</li> <li>• The persons with disabilities act 1995,</li> <li>• Mental rehabilitation and 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>
VII	4	<b>Quality assurance</b> <ul style="list-style-type: none"> <li>• Standards, protocols, Policies, Procedures</li> <li>• Nursing audit</li> <li>• Staffing</li> <li>• Design of orthopedic, Physiotherapy and rehabilitation unit</li> </ul>

### Practical

1. Clinical practice in Orthopedic, physiotherapy and Rehabilitation Units.
2. Application of tractions and plaster casts and removals 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 condition .
6. Unit management and plan – designing

**Total = 480 Hours.**  
**1 Week = 30 Hours.**

S.No.	Deptt./Unit	No. of Week	Total Hours.
1	Orthopedic Wards	4	120 Hours.
2	Orthopedic Operation theatre	2	60 Hours.
3	Neurosurgical Ward	1	30 Hours.
4	Orthopedic O.P.D	2	60 Hours.
5	Casualty/ Emergency and Trauma	2	60 Hours.
6	Rehabilitation Units	1	30 Hours.
7	Physiotherapy Unit	2	60 Hours.
8	Paediatric / Paediatric surgery unit	2	60 Hours.
9	Field Visit	--	
	<b>Total</b>	<b>16 Weeks</b>	<b>480 Hours.</b>

#### Procedures Observed

1. X- Ray
2. Ultrasound
3. MRI
4. CT Scan/bone scan
5. Arthroscopy
6. Electro thermally – assisted capsule shift or ETAC (Thermal capsulorrhaphy)
7. Fluoroscopy
8. Electromyography
9. Myelography
10. Discography
11. Others

#### Procedures Assisted

1. Blood Transfusion
2. IV cannulation and therapy
3. Ventilation
4. Various types of tractions
5. Orthopedic surgeries – Arthrocentesis, Arthroscopy, Bone Lengthening, Arthrodesis, grafting, Fractures Fixation, reconstructive, reimplantation, replantation, spinal decompression, transplantation of bone. Muscle or articular cartilage, autografting, allografting
6. Injection – Intra articular, Intra osseous.
7. Advance life support

#### Procedures Performed

1. Interpretation of X ray films.
2. Application and removal of splints, casts, and braces.
3. Care of tractions – skin and skeletal traction, pin site care.
4. Cold therapy
5. Heat therapy

6. Hydrotherapy
7. Therapeutic exercise
8. Use of TENS (Transcutaneous electrical nerve stimulation )
9. Techniques of transplantation
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.

**MASTER OF NURSING**  
**CLINICAL SPECIALITY – II-B, PAPER – XII (i)**  
**MEDICAL SURGICAL NURSING**  
**GASTRO ENTROLOGY NURSING (Part – g)**

**Placement: Semester – IV 2<sup>nd</sup> Year**

**Hours of Instruction**

**Theory: 75 hrs.**

**Practical: 480 hrs.**

**Total: 555 hrs.**

**Course Description: -**

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

**Objectives:-**

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

1. Appreciate trends and issues related to gastroenterology nursing
2. Describe the epidemiology, etiology, Patho – physiology and diagnostic assessment of gastrointestinal conditions
3. Participate in national health programs for health promotion, preventions 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 in gastrointestinal conditions and nurses responsibility
8. Demonstrate skill in handing various equipment/ gadgets used for patient with gastrointestinal conditions.
9. Appreciate team work & coordinate activities related to patient care.
10. Practice infection control measures.
11. Identify emergencies and complications & take appropriate measures
12. Assist patients and their family to cope with emotional distress. Grief, anxiety and spiritual needs.
13. Discuss the legal and ethical issues in GE nursing.
14. Identify the sources of stress and mange 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
17. gastrointestinal nursing.
18. Teach and supervise nurses and allied health workers.
19. Design a layout of Gastro entrology intensive care unit (GEICU), liver care/ transplant unit

## Course Content

Unit	Hours	Content
I	10	<p><b>Gastro intestine emergencies and nursing intervention</b></p> <ul style="list-style-type: none"> <li>• Etiology, clinical manifestation, diagnosis, prognosis, related pathophysiology, medical, surgical and nursing management of :</li> <li>• Bowel obstruction</li> <li>• Gastroenteritis</li> <li>• Intussusception</li> <li>• 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>
II	15	<p><b>Congenital Anomalies of Esophagus</b></p> <ul style="list-style-type: none"> <li>• Esophageal atresia</li> <li>• Tracheo esophageal fistula</li> <li>• Esophageal stenosis</li> <li>• Esophageal duplications.</li> <li>• Dysphagia – Lusoria –aberranright subclavian artery compressing esophagus</li> <li>• Esophageal rings – schalzkiring</li> <li>• Esophageal webs</li> </ul> <p><b>Congenital Anomalies of Stomach</b></p> <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> <li>• Infantile hypertrophic pyloric stenosis</li> <li>• Adult hypertrophic pyloric stenosis</li> </ul> <p><b>Congenital Anomalies of Duodenal</b></p> <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 valve us</li> </ul> <p><b>Developmental anomalies of the intestine:</b></p> <ul style="list-style-type: none"> <li>• Abdominal wall defects ( Omphalocele and Gastroschisis)</li> <li>• Meckel’s diverticulum</li> <li>• Intestinal atresia</li> </ul>
III	15	<p><b>Pharmo Kinetics</b></p> <ul style="list-style-type: none"> <li>• Drugs used in GIT</li> <li>• Principles of administration</li> <li>• Roles responsibilities of nurse</li> <li>• Drugs in Peptic ulcer disease</li> </ul>

		<ul style="list-style-type: none"> <li>• Proton Pump inhibition</li> <li>• H2 Receptor Antagonists</li> <li>• Cytoprotective Agents:</li> <li>• Drugs used in Diarrhea</li> <li>• Drugs used in Constipation</li> <li>• Drugs used in inflammatory Bowel Disease</li> <li>• Aminosalicylates</li> <li>• Corticosteroids</li> <li>• Immunomodulators</li> <li>• Antibiotics</li> <li>• Antiemetic.</li> <li>• Anticholinergics</li> <li>• Antihistaminics</li> <li>• Anthelmintics</li> <li>• Vitamin Supplements</li> </ul>
IV	10	<p><b>Nutrition and nutritional problems related to GI system</b></p> <ul style="list-style-type: none"> <li>• Nutritional assessment and nursing interventions</li> <li>• Therapeutic diets</li> <li>• Adverse reactions between drugs and various foods</li> <li>• Malnutrition – etiology, clinical manifestation and management</li> <li>• Tube feeding, parenteral nutrition, total parenteral nutrition</li> <li>• Obesity – etiology, clinical manifestation and management</li> <li>• Eating disorders – anorexia nervosa, bulimia nervosa</li> <li>• Recent advances in nutrition</li> </ul>
V	15	<p><b>Malignant disorder of gastro intestinal system</b></p> <ul style="list-style-type: none"> <li>• Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical surgical other modalities and nursing management of:</li> <li>• Malignancy of oral cavity, Lip, Tongue, buccal mucosa, oropharynx, Salivary gland</li> <li>• Esophageal , Gastric, Carcinoma of bowel – Smal bowel Colorectal and Anal carcinoma</li> <li>• Liver, billary tract and pancreatic carcinoma</li> </ul>
VI	5	<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; standards safety measures</li> <li>• Quality control; Standard safety measures Policies and protocols</li> <li>• Practice standards</li> </ul>
VII	5	<p><b>Education and training in GE care</b></p> <ul style="list-style-type: none"> <li>• Staff orientation training and development,</li> <li>• In – service education program</li> <li>• Clinical teaching program</li> </ul>



**Practical's****Total = 480 Weeks****1 Week = 30 Hours**

S.No.	Deptt/ Unit	No. of week	Total Hours
1.	Diagnostic labs	1	30 Hours
2.	Emergency and casualty	1	30 Hours
3.	Liver Transplant Unit	--	
4.	GE Medical Wards	3	90 Hours
5.	GE Surgical Wards	4	120 Hours
6.	OT	1	30 Hours
7.	ICU	2	60 Hours
8.	Pediatric gastroenterology	2	60 Hours
9.	Oncology	2	60 Hours
10.	GE OPD	--	
	<b>Total</b>	<b>16 Weeks</b>	<b>480 Hours</b>

**Procedures Assisted**

11. Endoscopy room – Upper I.I Endoscopy ( Diagnostic and therapeutic)
12. Sigmoidoscopy
13. Colonoscopy
14. Polypectomy
15. Endoscopic retrograde cholangio pancreatography (ERCP)
16. Liver biopsy
17. Percutaneous catheter drainage (PCD) of pseudocyst pancreas
18. Abdominal paracentesis
19. Percutaneous aspiration of Liver abscess
20. GE Lab : PT, HbsAg, Markers – A,B,C Virus, BCP, ESR, Stool Test

**Procedures Performed**

11. History and Physical assessment
12. RT intubation/extubation/aspiration/suction
13. Gastric Lavage and gavage
14. Bowel wash
15. Therapeutic Diets
16. Ostomy feeding
17. Stoma care
18. Monitoring vital parameters
19. Plan of inservice education programme for nursing staff and Class IV employees
20. Counseling

**MASTER OF NURSING**  
**CLINICAL SPECIALITY II- B, Paper – XII (ii)**  
**OBSTETRIC AND GYNAECOLOGICAL NURSING**

**Placement: Semester – IV (2<sup>nd</sup> year)**

**Hours of instruction**

**Theory : 75 hrs.**

**Practical : 480 hrs.**

**Total : 555 hrs.**

**Course Description:-**

This course is designed to assist the student in developing expertise and in-depth understanding in the field of obstetric and obstetrical nursing. It will help the student to develop advanced nursing skills for nursing interventions in various obstetrical conditions. It will further enable the researcher in the field of obstetric and obstetrical nursing.

**Objectives:-**

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

1. Describe the epidemiology, etiology, pathophysiology and diagnostic assessment of women with obstetrics.
2. Demonstrate competence in caring for women with obstetrical and gynecological.
3. Demonstrate competence in caring for high risk newborn.
4. Practice infection control measures.
5. Utilize recent technology and various diagnostic, therapeutic modalities in the management of obstetrical, neonatal care.
6. Demonstrate skill in handling various equipment/gadgets used for obstetrical gynecological and neonatal care.
7. Teach and supervise nurse and allied health workers.
8. Design a layout of specialty units of obstetrics and gynecology.
9. Develop standards for obstetrical and gynecological nursing practice.

**Contents Outline**

<b>Unit</b>	<b>Hours</b>	<b>Content</b>
<b>I</b>	<b>15</b>	<b>HIGH RISK NEWBORN</b>
		<ul style="list-style-type: none"> <li>• Concept, goals, assessment, principles.</li> <li>• Icterus neonatorum.</li> <li>• Birth injuries.</li> <li>• Hypoxic ischaemic encephalopathy.</li> <li>• Congenital anomalies.</li> <li>• Neonatal seizures.</li> <li>• Neonatal hypocalcaemia, hypoglycemia, hypomagnesaemia</li> <li>• Neonatal heart diseases.</li> <li>• Neonatal hemolytic diseases.</li> <li>• Neonatal infection, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS</li> <li>• Advanced neonatal procedures.</li> <li>• Calculation of fluid requirements.</li> <li>• Hematological conditions – erythroblastosis fetalis, hemorrhagic disorder in the newborn</li> <li>• Organization of neonatal care, service (Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU</li> </ul>
<b>III</b>	<b>15</b>	<b>HIV/AIDS</b>
		<ul style="list-style-type: none"> <li>• HIV positive mother and her baby</li> <li>• Epidemiology</li> </ul>

		<ul style="list-style-type: none"> <li>• Screening</li> <li>• Parent to child transmission (PTCT)</li> <li>• Prophylaxis for mother and baby</li> <li>• Standard safety measures</li> <li>• Counseling</li> <li>• Breast feeding issues</li> <li>• National policies and guidelines</li> <li>• Issues: Legal, ethical, psychosocial and rehabilitation/ Role of nurse</li> </ul>
<b>IV</b>	<b>25</b>	<b>Gynecological problems and nursing management</b> <ul style="list-style-type: none"> <li>• Gynecological assessment</li> <li>• Gynecological procedures.</li> <li>• Etiology, pathophysiology, diagnosis and nursing management of</li> <li>• Menstrual irregularities</li> <li>• Diseases of genital tract</li> <li>• Genital tract infections</li> <li>• Uterine displacement Genital prolapsed</li> <li>• Genital injuries</li> <li>• Uterine malformation</li> <li>• Uterine fibroid, ovarian tumors, Breast, carcinoma, Pelvic infalammatory diseases, reproductive tract malignancies, hysterectomy – vaginal and abdominal.</li> <li>• Sexual abuse, rape, trauma, assault</li> </ul>
<b>V</b>	<b>15</b>	<b>Administration and management of obstetrical and gynecological unit</b> <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:- Obstetric auditing – records / reports, Norms, policies and protocols</li> <li>• Practice standards for obstetrical and gynecological unit</li> </ul>
<b>VI</b>	<b>5</b>	<b>Education and training in obstetrical and gynecological care</b> <ul style="list-style-type: none"> <li>• Staff orientation, training and development</li> <li>• In-service education program.</li> <li>• Clinical teaching program's</li> </ul>

**Practical's**

**Total = 480 Hours**  
**1 Week = 30 Hours.**

<b>S.No.</b>	<b>Deptt./ Unit</b>	<b>No. of Week</b>	<b>Total Hours</b>
1	Antenatal OPD including infertility clinics/ Reproductive medicine, Family welfare and post partum clinic / PTCT	3	90 Hours
2	Antenatal and Postnatal ward	2	60 Hours
3	Labour room	2	60 Hours
4	Neonatal Intensive Care Unit	2	60 Hours
5	Obstetric / Gynae Operation Theatre	1	30 Hours
6	Gynae Ward	4	120 Hours
7	CHC, PHC, SC	2	60 Hours.
	<b>Total</b>	<b>16 Weeks</b>	<b>480 Hours.</b>

**Procedure Observed**

- Assisted Reproductive Technology procedures
- Amniocentesis.
- Fetoscopy

**Procedures Assisted**

- Exchange blood transfusion
- Tubal patent test
- Chemotherapy
- Radiation therapy
- Medical Termination of Pregnancy
- Dilatation and Curettage
- Administration of drug per rectum
- Capillary blood sample collection
- Oxygen therapy
- Phototherapy.
- Chest physiotherapy.
- Counseling – Parental, bereavement, family planning, infertility etc.
- Setting of operation theatre.
- Trolley and table set up for obstetrical & gynecological operations.
- Pap smear.
- Vaginal smear.
- Insertion of pessaries,
- Insertion of IUD and removal.
- Teaching skills.
- Communication skills
- Prepare referral slips
- Pre transport stabilization
- Networking with other stake holders.

CLINICAL SPECIALITY – II B PAPER – XII (iii)  
CHILD HEALTH (PAEDIATRIC) NURSING

Placement : 2<sup>nd</sup> Year  
Semester – IV

Hours of instruction  
Theory : 75 hrs.  
Practical : 480 hrs.  
Total : 555 hrs.

**Course Description**

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

**Objectives**

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

1. Provide nursing care to critically ill children.
2. Utilize the recent technology and various treatment modalities in the management of high risk children.
3. Prepare a design for layout and describe standards for management of pediatric units/ hospitals.
4. Identify areas of research in the field of pediatric nursing.

**Course Content**

Unit	Hours	Concepts
1	10	<p><b>Intensive care for pediatric clients</b></p> <ul style="list-style-type: none"> <li>• Resuscitation, stabilization, and monitoring of pediatric patients.</li> <li>• Anatomical &amp; physiological bases of critical illness in infancy and childhood.</li> <li>• Care of child requiring long term ventilation</li> <li>• Nutritional needs of critically ill child</li> <li>• legal and ethical issues in pediatric intensive care</li> <li>• Intensive care procedures, equipment and techniques</li> <li>• Documentation</li> </ul>
2	20	<p><b>High Risk New Born</b></p> <ul style="list-style-type: none"> <li>• Concept, goals, assessment, principles,</li> <li>• Nursing management of               <ul style="list-style-type: none"> <li>- Post mature infant, and baby of diabetic and substance use mothers.</li> <li>- Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum</li> </ul> </li> <li>• Icterus neonatioum.</li> <li>• Birth injuries.</li> <li>• Hypoxic ischaemic encephalopathy</li> <li>• Congenital anomalies.</li> <li>• Neonatal seizures.</li> <li>• Neonatal hypocalcaemia, hypoglycemia, hypomagnesaemia.</li> <li>• Neonatal hearth diseases.</li> <li>• Neonatal hemolytic diseases.</li> <li>• Neonatal infections, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS.</li> <li>• Advanced neonatal procedures.</li> </ul>

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

Practical

**Total = 480 Hours**  
**1 Week = 30 Hours**

Field visits: -

S.No.	Deptt./Unit	No. of week	Total Hours
1	Pediatric Medicine ICU	4	120 Hours
2	Pediatric Surgery ICU	4	120 Hours
3	NICU	4	120 Hours
4	Pediatric OT	2	60 Hours
5	Emergency / Casualty	2	60 Hours
	<b>Total</b>	<b>16 Week</b>	<b>480 Hours.</b>

- Child care center, Anganwadi, play School, special Schools for challenged children, juvenile court, UNICEF, Orphanage, Creche, SOS village

## Essential

### V. Procedures Observed:

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

### VI. Procedures Assisted

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

### VII. Procedures performed:

- **Airway Management**
  - **Application of Oro Pharyngeal Airway**
  - **Oxygen therapy**
  - **CPAP (Continuous Positive Airway Pressure)**
  - **Care of Tracheotomy**
  - **Endtracheal Intubation**
- **Neonatal Resuscitation**
- **Monitoring of Neonates – Clinically &with monitors, CRT (Capillary Refil time), assessment of Jaundice, ECG**
- **Gastric Lavage**
- **Setting of Ventilators**
- **Phototherapy**
- **Assessment of Neonates: Identification and assessment of risk factors, APGAR Score, gestation age, Anthropometric assessment, weighing the bay, Newborn examination, detection of life threatening congenital abnormalities,**
- **Admission and discharge of neonates**
- **Feeding – management of breast feeding, artificial feeding, expression of breast milk, OG (Orogastric) tube insertion, gavage feeding, TPN, Breast feeding counseling**
- **Thermoregulation – Axillary temperature, Kangaroo Mother Care (KMC), USE OF Radiant warmer, incubators, management of thermoregulation and control**
- **Administration of Drugs: I/M, I/V injection IV Cannulation and fixation infusion pump, Calculation of dosages, Neonatal formulation of drugs, use of tuberculin/insulin syringes, Monitoring fluid therapy, Blood administration.**

- **Procedures for prevention of infections: Hand washing, disinfection and sterilization, surveillance, fumigation**
- **Collection of specimens**
- **Setting, use and maintenance of basic equipment: Ventilator, Oxygen analyzer, monitoring equipment, photo therapy unit, Flux meter, Infusion pump, Radiant warmer, incubator, Centrifuge machine, bilimeter, Refractometer, laminar flow.**

**NB : Some of these procedure will be observed and assisted during 1st year, according to their posting and their posting and theory covered.**



**MASTER OF NURSING  
CLINICAL SPECIALITY – II B, PAPER – XII (IV)  
PSYCHIATRIC HEALTH (MENTAL HEALTH) NURSING**

**Placement : Semester – IV (2<sup>nd</sup> Year )**

**Hours of instruction**

**Theory: 75 hrs.**

**Practical: 480 hrs.**

**Total : 555 hrs.**

**Course Description : -**

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

**Objective:-**

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

1. Apply the nursing process in the care of patients with mental disorders in hospital and community.
2. Demonstrate advanced skills/ competence in nursing management of patients with mental disorders.
3. Utilize the recent technology and various treatment modalities in the management of patients with mental disorder.
4. Identify areas of research in the field of psychiatric nursing.
5. Prepare a design for layout and describe standards for management of psychiatric units/ emergency units/ hospitals.
6. Teach psychiatric nursing to undergraduate students & in-service nurses.

**Course Content**

<b>Units</b>	<b>Hours</b>	<b>Content</b>
<b>I</b>	<b>5</b>	<b>Delirium, Dementia, and Amnestic Disorders.</b> <ul style="list-style-type: none"> <li>▪ Delirium</li> <li>▪ Dementia</li> <li>▪ Psychopharmacological intervention and nursing management.</li> </ul>
<b>II</b>	<b>10</b>	<b>Substance- Related Disorders.</b> <ul style="list-style-type: none"> <li>▪ Substance- Use Disorders.</li> <li>▪ Substance – Induced Disorders.</li> <li>▪ Classes of psychoactive Substances</li> <li>▪ Predisposing factors</li> <li>▪ The dynamics of substance elated disorders</li> <li>▪ The impaired nurse</li> <li>▪ Codependency</li> <li>▪ Treatment Modalities for substance- Related Disorders and Nursing Management</li> </ul>
<b>III</b>	<b>8</b>	<b>Anxiety Disorders</b> <ul style="list-style-type: none"> <li>▪ Historical Aspects</li> <li>▪ Epidemiological Statistics</li> <li>▪ How Much is too Much?</li> <li>▪ Types</li> <li>▪ Panic Disorder</li> <li>▪ Generalized Anxiety Disorder</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Phobias</li> <li>▪ Obsessive- Compulsive Disorder</li> <li>▪ Posttraumatic Stress Disorder</li> <li>▪ Anxiety Disorder Due to a General Medical Condition</li> <li>▪ Substance – Induced Anxiety Disorder</li> <li>▪ Treatment Modalities</li> <li>▪ Psychopharmacology &amp; Nursing Management</li> </ul>
<b>IV</b>	<b>5</b>	<b>Somatoform and sleep Disorders</b> <ul style="list-style-type: none"> <li>▪ Somatoform Disorders</li> <li>▪ Historical Aspects</li> <li>▪ Epidemiological statistics</li> <li>▪ Pain disorder</li> <li>▪ hypochondrias</li> <li>▪ Conversion disorder</li> <li>▪ Body dysmorphic disorder.</li> <li>▪ Sleep Disorder</li> <li>▪ Treatment modalities and nursing management</li> </ul>
<b>V</b>	<b>4</b>	<b>Dissociative Disorders and Management</b> <ul style="list-style-type: none"> <li>▪ Historical Aspects</li> <li>▪ Epidemiological Statistics</li> <li>▪ Application of the nursing management</li> <li>▪ Treatment modalities and nursing management</li> </ul>
<b>VI</b>	<b>4</b>	<b>Sexual and Gender Identity Disorders</b> <ul style="list-style-type: none"> <li>▪ Development of human sexuality</li> <li>▪ Sexual disorders</li> <li>▪ Variation in sexual orientation</li> <li>▪ Nursing management</li> </ul>
<b>VII</b>	<b>4</b>	<b>Eating Disorders</b> <ul style="list-style-type: none"> <li>▪ Epidemiological factors</li> <li>▪ Predisposing factors: Anorexia nervosa and bulimia nervosa obesity</li> <li>▪ Psychopharmacology</li> <li>▪ Treatment &amp; nursing management</li> </ul>
<b>VIII</b>	<b>8</b>	<b>The Aging individual</b> <ul style="list-style-type: none"> <li>▪ Epidemiological statistics</li> <li>▪ Biological theories</li> <li>▪ Biological aspects of aging</li> <li>▪ Psychological aspects of aging</li> <li>▪ Memory functioning</li> <li>▪ Socio – cultural aspects of aging</li> <li>▪ Sexual aspects of aging</li> <li>▪ Special concerns of the elderly population</li> <li>▪ Psychiatric problems among</li> </ul>
<b>IX</b>	<b>7</b>	<b>Community Mental Health Nursing</b> <ul style="list-style-type: none"> <li>▪ National mental health program – community mental health program</li> <li>▪ The changing focus of care</li> <li>▪ The public health model</li> <li>▪ The role of the nurse</li> <li>▪ Case management</li> <li>▪ The community as client</li> <li>▪ Primary prevention</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Population at risk</li> <li>▪ Secondary prevention</li> <li>▪ Tertiary prevention</li> <li>▪ Community based rehabilitation</li> </ul>
<b>X</b>	<b>5</b>	<b>Psychosocial rehabilitation</b> <ul style="list-style-type: none"> <li>▪ Principles of rehabilitation</li> <li>▪ Disability assessment</li> <li>▪ Day care centers</li> <li>▪ Half way homes</li> <li>▪ Reintegration into the community</li> <li>▪ Training and support to care givers</li> <li>▪ Sheltered workshops</li> <li>▪ Correctional homes</li> </ul>
<b>XI</b>	<b>5</b>	<b>Counseling</b> <ul style="list-style-type: none"> <li>▪ Liaison psychiatric nursing</li> <li>▪ Terminal illnesses – counseling</li> <li>▪ Post partum psychosis- treatment, care and counseling</li> <li>▪ Death dying – counseling</li> <li>▪ Treatment, care and counseling</li> <li>▪ Unwed mothers</li> <li>▪ HIV and AIDS</li> </ul>
<b>XII</b>	<b>5</b>	<b>Administration and management of psychiatric units including emergency units</b> <ul style="list-style-type: none"> <li>▪ Design &amp; layout</li> <li>▪ Staffing,</li> <li>▪ Equipment, supplies,</li> <li>▪ Norms, policies ad protocols</li> <li>▪ Quality assurance</li> <li>▪ Practice standards for psychiatric nursing</li> <li>▪ Documentation</li> </ul>
<b>XIII</b>	<b>5</b>	<b>Education and training in psychiatric care</b> <ul style="list-style-type: none"> <li>▪ Staff orientation, training and development</li> <li>▪ In – service education program,</li> <li>▪ <b>Clinical teaching programs.</b></li> </ul>

**Total- 480 hours**  
**1 week- 30 hours**

<b>S.No</b>	<b>Area of posting</b>	<b>No. of week</b>	<b>Total Hors.</b>
1	Acute psychiatric ward	2	60
2	Chronic psychiatric ward	2	60
3	De – addiction unit	2	60
4	Psychiatric emergency	2	60
5	O.P.D. (Neuro and psychiatric)	1.5	45
6	Child psychiatric unit and child guidance clinic	1	30
7	Post natal ward	½	15
8	Family psychiatric unit	1	30
9	Field visits	1	30
10	Rehabilitation	1	30
11	Community mental health unit	2	60
	<b>Total</b>	<b>16</b>	<b>480</b>

### **Essential Psychiatric nursing skills procedures observed**

1. Psychometric tests
2. Personality tests
3. Family therapy
4. CT
5. MRI
6. behavioral therapy

### **Procedures performed**

1. Mental status examination
2. Participating in various therapies – physical; ECT,
3. Administration of oral, IM, IV psychotropic drugs
4. Interviewing skills
5. Counseling skills
6. Communication skills
7. Psychoeducation
8. Inerpersonal relationship skills
9. Community survey for identifying mental health problems
10. Rehabilitation therapy
11. Health education and life skills training
12. Supportive psychotherapeutic skills
13. Group Therapy
14. Milieu therapy
15. Social/ recreational therapy
16. Occupational therapy

**MASTER OF NURSING**  
**CLINICAL SPECIALITY – II – B, PAPER – XII (V)**  
**COMMUNITY HEALTH NURSING**

**Placement: Semester – IV ( 2<sup>nd</sup> year)**

**Horus of instruction Theory- 75 hrs.**  
**Practical 480 hrs.**  
**Total: 555 hrs.**

**Course Description:-**

This course is designed to assist student to function as community health Nurse specialist/ practitioner. would further enable student to function to function as an educator, manager and researcher in the field of community health nursing.

**Objective**

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

1. Describe the role and responsibilities of community health nurse in various national health and family welfare prgrammes.
2. Participate in the implementation of virus national health and family welfare programme.
3. Demonstrate competencies in providing family centered nursing care independently
4. Participate/ conduct research for new insights and innovative solution to health problems
5. Teach and supervise nurses and allied health workers.
6. Design a layout of sub center/ Primary health center/ Community healthnursing practice.

**Course Content**

<b>I</b>	<b>15</b>	<b>International Health</b> <ul style="list-style-type: none"> <li>▪ Global burden of disease</li> <li>▪ Global health rules to halt disease spread</li> <li>▪ Global health priorities and programs</li> <li>▪ International quarantine</li> <li>▪ Health tourism</li> <li>▪ International cooperation and assistance</li> <li>▪ International travel and trade</li> <li>▪ Health and food legislation, law adulteration of food</li> <li>▪ Disaster management</li> <li>▪ Migration</li> <li>▪ International health agencies – World Health organization, world health assembly, UNICEF , UNFPA , SIDA US AID, DANIDA, DFID Aus AID etc</li> <li>▪ International health issues and problems</li> <li>▪ International nursing practice standards</li> <li>▪ International health days and their significance</li> </ul>
<b>II</b>	<b>15</b>	<b>Education and administration</b> <ul style="list-style-type: none"> <li>• Quality assurance</li> <li>• Standards, protocols, policies, procedures</li> <li>• Infection control; standard safety measures</li> <li>• Nursing audit</li> </ul>

		<ul style="list-style-type: none"> <li>• Design of sub center/ primary health center/ community health centre</li> <li>• Staffing: supervision and monitoring performance appraisal</li> <li>• Budgeting</li> <li>• Material management</li> <li>• Role and responsibilities of different categories of personnel in community health</li> <li>• Referral chain- community outreach services.</li> <li>• Transportation</li> <li>• Public relations</li> <li>• Planning in service educational programme and teaching</li> <li>• Training of various categories of health workers preparation of manuals.</li> </ul>
III	10	<b>Geriatric</b> <ul style="list-style-type: none"> <li>• Concepts, trends problems and issues</li> <li>• Aging process, and changes</li> <li>• Theories of ageing</li> <li>• Health problems and needs</li> <li>• Psycho physiological stressors and disorders</li> <li>• Myths and facts of aging</li> <li>• Health assessment</li> <li>• Home for aged various agencies</li> <li>• Rehabilitation of elderly</li> <li>• Care of elderly</li> <li>• Elderly abuse</li> <li>• Training and supervision of care givers</li> <li>• Government welfare measure programme for elderly Role of NGOs</li> <li>• Role and responsibilities of Geriatric nurse in the community</li> </ul>
IV	10	<b>Rehabilitation</b> <ul style="list-style-type: none"> <li>• Introduction: concepts, principles, trends issues.</li> <li>• Rehabilitation team</li> <li>• Model, methods</li> <li>• Community based rehabilitation</li> <li>• Ethical issues</li> <li>• Rehabilitation council of India</li> <li>• Disability and rehabilitation- Use of various prosthetic devices</li> <li>• Psychosocial rehabilitation</li> <li>• Rehabilitation of chronic diseases</li> <li>• Restorative rehabilitation</li> <li>• Vocational rehabilitation</li> <li>• Role of Voluntary organization</li> <li>• Guidance and counseling</li> <li>• Welfare measures</li> <li>• Role and responsibilities of community health nurse</li> </ul>
V	10	<b>Community mental health</b> <ul style="list-style-type: none"> <li>• Magnitude, trends and issues</li> <li>• National mental health program community mental health program</li> <li>• The changing Focus of care</li> <li>• The public Health Model</li> <li>• Case Management Collaborative care</li> <li>• Crisis intervention</li> </ul>

		<ul style="list-style-type: none"> <li>• Welfare agencies</li> <li>• Population at risk</li> <li>• The community as client <ul style="list-style-type: none"> <li>- Primary prevention</li> <li>- Secondary prevention</li> <li>- Tertiary prevention</li> </ul> </li> <li>• Community based rehabilitation</li> <li>• Human rights of mentally ill</li> <li>• Substance use</li> <li>• Mentally challenged groups</li> <li>• Role of community health care</li> </ul>
VI	15	<b>Occupational Health</b> <ul style="list-style-type: none"> <li>• Introduction: Trends, issues, Definition, Aims, objectives, workplace safety</li> <li>• Ergonomics and Ergonomic solutions</li> <li>• Occupational environment physical, social , Decision making, critical thinking'</li> <li>• Occupational hazards for different categories of people physical, chemical, biological mechanical, Accidents</li> <li>• Occupational diseases and disorders</li> <li>• Measures for health promotion of workers; Prevention and control of occupational diseases, disability limitations and rehabilitation</li> <li>• Women and occupational health</li> <li>• Occupational education and counseling</li> <li>• Violence at workplace</li> <li>• Child labour</li> <li>• Disaster preparedness and management</li> <li>• Legal issues, legislatin, labour unions ILO and WHO recommendation, Factories act, ESI act.</li> <li>• Role of community health nurse, occupational health team</li> </ul>

Practical

Total

Week – 30 Hours

S.No	Deptt./Unit	No. of week	Total Hors.
1	Urban and Rural Community	4	120
2	School health		
3	International Health	2	60
4	Administration (SC/PHC/CHC)	2	60
5	Occupational health	2	60
6	Community Mental Health	2	60
7	Home for aged and Hospice	2	60
8	Rehabilitation	2	60
	<b>Total</b>	<b>16</b>	<b>480</b>

Categorization of practical activities

Observed

- Community based rehabilitation unit
- Cancer center

- Palliative care
- Home of old age
- Mental health units
- De- addiction center
- School health services
- Industry
- Selected industrial health centers
- ESI units
- Municipality/ corporation office

#### Assisted

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

#### Performed

- Report writing
- Referrals
- Writing a project proposal
- Material management- requisition for indent, condemnation, inventory maintenance.
- Training and supervision of various categories of personnel
- Liaison with NGO's

#### Internal Assessment

- Test- 50
- Presentation-50
- Assignment-25  
Out of 25-100/4



## Clinical Specialty –II

### Child Health ( Paediatric) Nursing

Placement 2<sup>nd</sup> year

Semester IV

Hours of Instruction  
Theory 75 hours  
Practical 480 hours  
Total: 555 Hours

#### Course Description

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

#### Objectives

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

1. Provide nursing care to critically ill children
2. Utilize the recent technology and various treatment modalities in the management of high risk children
3. Prepare a design for layout and describe standards for management of pediatric units/ hospitals.
4. Identify areas of research in the field of pediatric nursing

#### Course

Unit	Hours	Content
1	10	Intensive care for pediatric clients <ul style="list-style-type: none"><li>• Resuscitation, stabilization, and monitoring of pediatric patients.</li><li>• Anatomical &amp; physiological bases of critical illness in infancy and childhood.</li><li>• Care of child requiring long term ventilation</li><li>• Nutritional needs of critically ill child</li><li>• Legal and ethical issues in pediatric intensive care</li><li>• Intensive care procedures, equipment and techniques</li><li>• Documentation</li></ul>
2	20	High Risk New born <ul style="list-style-type: none"><li>• Concept, goals, assessment, principles.</li><li>• Nursing management of<ul style="list-style-type: none"><li>- Post mature infant, and baby of diabetic and substance use mothers.</li><li>- Respiratory conditions, Asphyxia neonatorum, neonatal</li></ul></li></ul>

