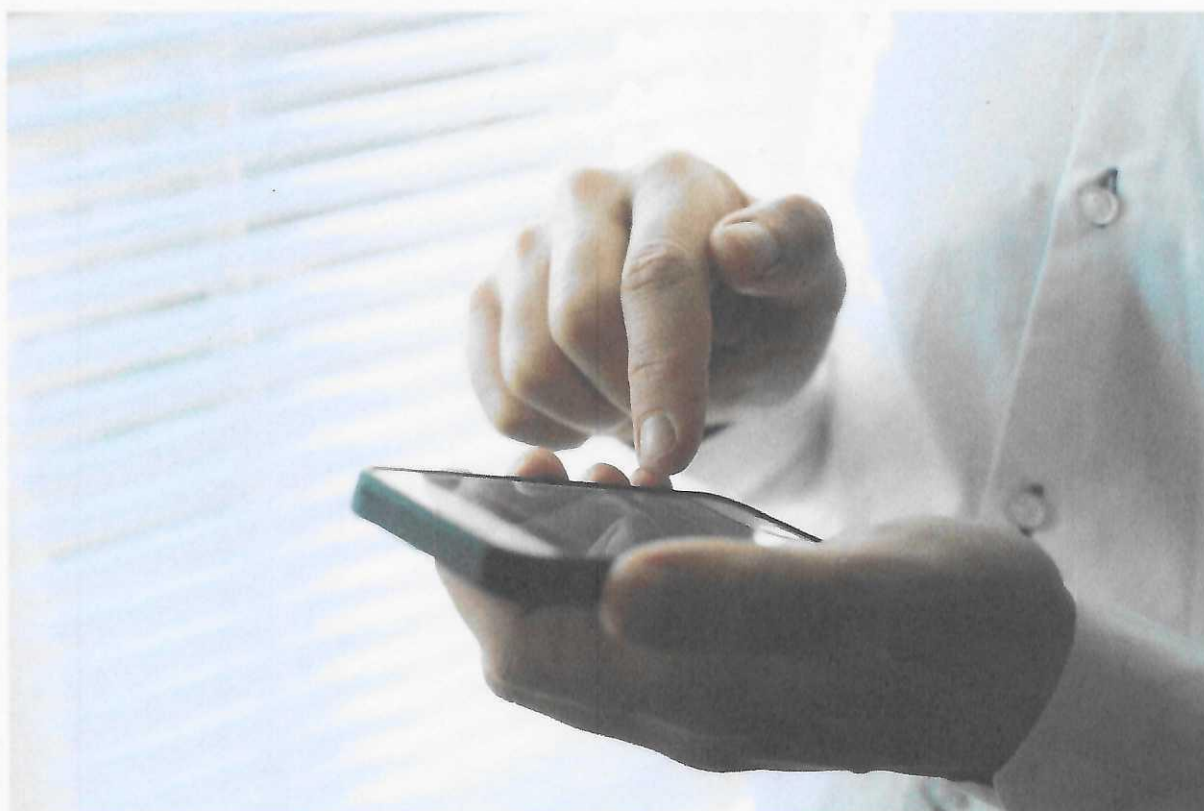


# **Syllabus for M Sc Nursing – (Cardiovascular and Thoracic) Programme**



**Guru Gobind Singh Indraprastha University**

**A State University established by the Govt. of NCT of Delhi**

**University School of Medicine and Allied Health Sciences**

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Office of the Director, Academic Affairs  
Date...08/08/19  
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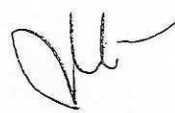

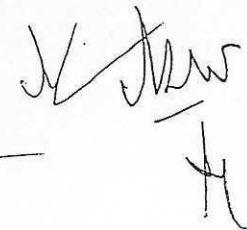

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# SYLLABUS AND REGULATIONS

## M.Sc. (NURSING)



*Published by*

**INDIAN NURSING COUNCIL**

Combined Council Building, Kotla Road,  
Temple Lane, New Delhi - 110002

## Philosophy

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

It is observed that there is an acute shortage of nursing faculty in under graduate and 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 in 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 prepares nurses for leadership position in nursing and health fields who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the National priorities and the changing needs of the society.

This programme provides the basis for the post 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, administrators 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 a nurse specialist.
4. Demonstrate leadership qualities and function effectively as nurse educator and manager.
5. Demonstrate skill in conducting nursing research, interpreting and utilizing the findings from health related research.

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6. Demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
7. Establish collaborative relationship with members of other disciplines
8. Demonstrate interest in continued learning for personal and professional advancement.

### **Guidelines and Minimum Requirements for setting up of a College of Nursing**

1. Any organization under the Central Government, State Government, Local body or a Private or Public Trust, Mission, Voluntary registered under Society Registration Act or a Company registered under company's act wishes to open a M.Sc. Nursing programme, should obtain the No Objection/Essentiality certificate from the State Government.
2. The Indian Nursing council on receipt of the proposal from the Institution to start nursing program, will undertake the **first inspection** to assess suitability with regard to physical infrastructure, clinical facility and teaching faculty in order to give permission to start the programme.
3. After the receipt of the permission to start the nursing programme from Indian Nursing Council, the institution shall obtain the approval from the State Nursing Council and University.
4. Institution will admit the students only after taking approval of State Nursing Council and University.
5. The Indian Nursing Council will conduct inspection every year till the first batch completes the programme. Permission will be given year by year till the first batch completes.
6. If the institution is recognized for B.Sc. (N) programme and if one batch has passed out after found suitable by INC, then the institution will be exempted from NOC/Essentiality certificate for M.Sc.(N) programme from the State Government.
7. **Super Speciality Hospital\*** can start M.Sc.(N) programme, however they have to get NOC/Essentiality certificate from respective State Government to start the M.Sc. (N) programme.

\*Super Speciality Hospital are eligible to start M.Sc.(N) provided they have respective speciality beds

#### **Cardio thoracic beds**

50-100 bedded Cardiac Hospital, which has CCU, ICCU and ICU units with own thoracic unit or affiliated thoracic unit.

#### **Critical Care beds**

250-500 bedded Hospital, which has a 8-10 beds critical care beds & ICUs

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### **OBG speciality beds**

50 bedded parent hospital having:

- i. Mother and neonatal units
- ii. Case load of minimum 500 deliveries per year
- iii. 8-10 level II neonatal beds.
- iv. Affiliation with level III neonatal beds.

### **Neuro speciality beds**

Minimum of 50 bedded Neuro care institution with advanced diagnostic, therapeutic and state of the art clinical facilities

### **Oncology speciality beds**

Regional Cancer centers/Cancer Hospitals having minimum 100 beds, with medical and surgical oncology units with chemotherapy, radiotherapy, palliative care, other diagnostic and supportive facilities.

### **Orthopaedic Speciality beds**

250-500 bedded Hospital, which has a 50 orthopaedic beds & rehabilitation units.

### **Psychiatric beds**

Minimum of 50 bedded institutes of psychiatry and mental health having all types of patients (acute, chronic, adult psychiatric beds, child psychiatric beds and de-addiction facilities) , with advanced diagnostic, therapeutic and state of the art clinical facilities.

### **Paediatrics beds**

50-100 bedded paediatric Hospital/ unit with paediatric surgery and level II or III neonatal units

### **Gastroentrology beds**

50-100 bedded gastroentrology beds

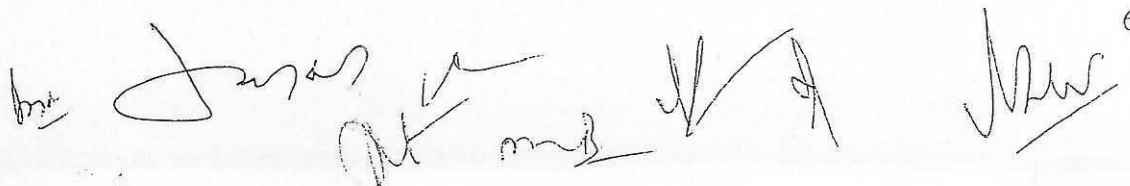
### **Nephro-Urology speciality beds**

50-100 bedded nephro urology hospital with dialysis and kidney transplants, urosurgery

## **STAFFING PATTERN:**

### **M.Sc. (N)**

If parent hospital is super-speciality hospital like cardio-thoracic hospital/cancer with annual intake 10 M.Sc(N) in cardio thoracic/cancer



Professor cum coordinator	1
Reader / Associate Professor	1
Lecturer	2

The above faculty shall perform dual role

### **B.Sc.(N) and M.Sc.(N)**

Annual intake of 60 students in B.Sc.(N) and 25 students for M.Sc.(N) programme

Professor-cum-Principal	1
Professor-cum-Vice Principal	1
Reader / Associate Professor	5
Lecturer	8
Tutor / Clinical Instructor	19
<b>Total</b>	<b>34</b>

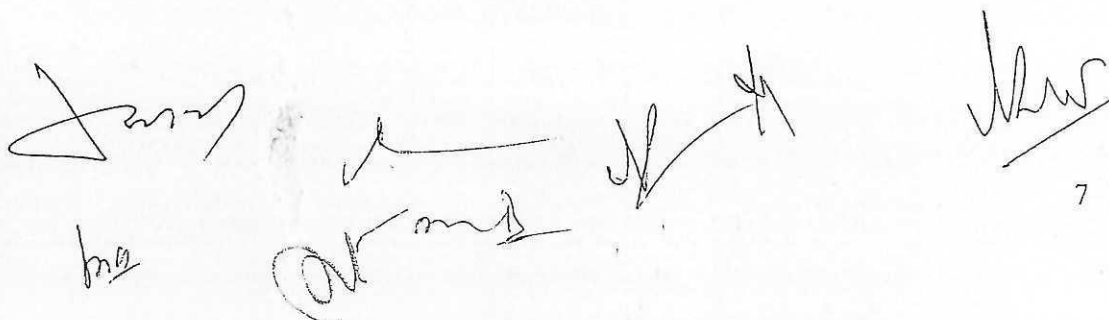
One in each specialty and all the M.Sc(N) qualified teaching faculty will participate in all collegiate programmes.

**Teacher Student Ratio = 1 : 10 for M.Sc.(N) programme.**

### **QUALIFICATIONS & EXPERIENCE OF TEACHERS OF COLLEGE OF NURSING**

Sr. No.	Post	Qualification & Experience
1	Professor-cum-Principal	<ul style="list-style-type: none"> <li>- Masters Degree in Nursing</li> <li>- 14 years experience after M.Sc. (N) in College of Nursing .</li> <li>- 3 years experience in administration (Years of experience is relaxable if suitable candidate is not available) (If a candidate is not available, minimum 5 years of experience in college of nursing, with an aggregate of 14 years teaching experience)</li> </ul>
<b><u>Desirable :</u></b> Independent published work of high standard / doctorate degree / M.Phil.		
2	Professor-cum-Vice Principal	<ul style="list-style-type: none"> <li>- Masters Degree in Nursing</li> <li>- 14 years experience after M.Sc. (N) in College of Nursing .</li> <li>- 3 years experience in administration (Years of experience is relaxable if suitable candidate is not available) (If a candidate is not available, minimum 5 years of experience in college of nursing, with an aggregate of 14 years teaching experience)</li> </ul>

**Desirable :** Independent published work of high standard / doctorate degree / M.Phil.





- 3 Reader / Associate Professor
- Master Degree in Nursing.
  - 10 years experience after M.Sc.(N) in a College of Nursing. (If a candidate is not available, 5 years of experience in College of Nursing with an aggregates of 10 years teaching experience.

Desirable : Independent published work of high standard /doctorate degree / M.Phil.

- 4 Lecturer
- Master Degree in Nursing.
  - 3 years teaching experience after M.Sc. (N)

**Note: Qualifications & Experience of Nursing Teaching faculty relaxed till 2012 & placed under Annexure - I**

External /Guest faculty may be arranged for the selected units in different subjects as required

**NOTE:**

1. No part time nursing faculty will be counted for calculating total no. of faculty required for a college.
2. Irrespective of number of admissions, all faculty positions (Professor to Lecturer) must be filled.
3. For M.Sc.(N) programme appropriate number of M.Sc. faculty in each speciality be appointed subject to the condition that total number of teaching faculty ceiling is maintained.
4. All nursing teachers must possess a basic university or equivalent qualification as laid down in the schedules of the Indian Nursing Council Act, 1947. They shall be registered under the State Nursing Registration Act.
5. Nursing faculty in nursing college except tutor/clinical instructors must possess the requisite recognized postgraduate qualification in nursing subjects.
6. Holders of equivalent postgraduate qualifications, which may be approved by the Indian Nursing Council from time to time, may be considered to have the requisite recognized postgraduate qualification in the subject concerned.
7. All teachers of nursing other than Principal and Vice-Principal should spend at least 4 hours in the clinical area for clinical teaching and/or supervision of care every day.

**Other Staff (Minimum requirements)**

(To be reviewed and revised and rationalized keeping in mind the mechanization and contract service)

- Ministerial
 

a)	Administrative Officer	1
c)	Office Superintendent	1
d)	PA to Principal	1
e)	Accountant/Cashier	1

• Upper Division Clerk	2
• Lower Division Clerk	2
• Store Keeper	1
a) Maintenance of stores	1
b) Classroom attendants	2
c) Sanitary staff	As per the physical space
d) Security Staff	As per the requirement
• Peons/Office attendants	4
• Library	
a) Librarian	2
b) Library Attendants	As per the requirement
• Hostel	
a) Wardens	2
b) Cooks, Bearers, Sanitary Staff	As per the requirement
c) Ayas /Peons	As per the requirement
d) Security Staff	As per the requirement
e) Gardeners & Dhobi (desirable)	Depends on structural facilities

### **Eligibility Criteria/ Admission Requirements:**

1. The candidate should be a Registered Nurse and Registered midwife or equivalent with any State Nursing Registration Council.
2. The minimum education requirements shall be the passing of :  
B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing with minimum of 55% aggregate marks.
3. The candidate should have undergone in B.Sc. Nursing / B.Sc. Hons. Nursing / Post Basic B.Sc. Nursing in an institution which is recognized by Indian Nursing Council.
4. Minimum one year of work experience after Basic B.Sc. Nursing.
5. Minimum one year of work experience prior or after Post Basic B.Sc. Nursing.
6. Candidate shall be medically fit.
7. 5% relaxation of marks for SC/ST candidates may be given.

### **Entrance/Selection test**

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

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**M.Sc NURSING**

**COURSE CURRICULUM**

## Duration

Duration of the course is 2 years for M.Sc. (N)

Available	52 weeks
Vacation	4 weeks
Examination	2 weeks
Gazetted holidays	3 weeks
Total weeks available	43 weeks
40 hours per week	1720 hours
<b>Total hours for 2 years</b>	<b>3440 hours</b>

### Course of Instruction

	Theory (hrs)	Practical (hrs)
<b>1st year</b>		
Nursing education	150	150
Advance nursing practice	150	200
Nursing Research and statistics	150	100
*Clinical speciality -I	150	650

<b>Total</b>	<b>600</b>	<b>1100</b>
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### II nd Year

Nursing Management	150	150
Nursing Research (Dissertation)		300
*Clinical Speciality-II	150	950
<b>Total</b>	<b>300</b>	<b>1400</b>

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Educational visit 2 weeks

**\*Clinical. Speciality** - Medical Surgical Nursing (Cardio Vascular & Thoracic Nursing, Critical care Nursing, Oncology Nursing, Neurosciences Nursing, Nephro-Urology Nursing, Orthopedic Nursing, Gastro Enter logy Nursing,) Obstetric & Gynaecological Nursing, Child Health (Paediatric) Nursing, Mental Health (Psychiatric) Nursing, Community Health Nursing, Psychiatric (Mental Health) Nursing etc.

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

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# CURRICULUM

## NURSING EDUCATION

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

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

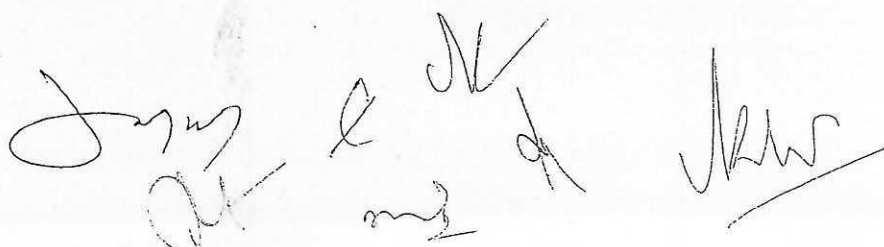
### Course Description

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

### Objectives

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

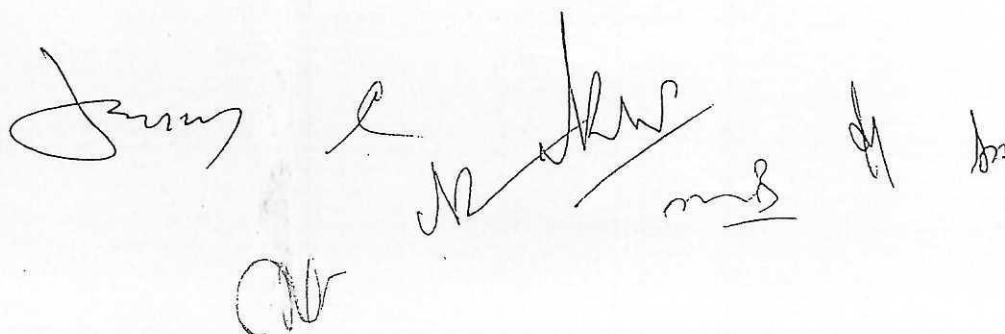
1. Explain the aims of education, philosophies, trends in education and health: its impact on nursing education.
2. Describe the teaching learning process.
3. Prepare and utilize various instructional media and methods in teaching learning process.
4. Demonstrate competency in teaching, using various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



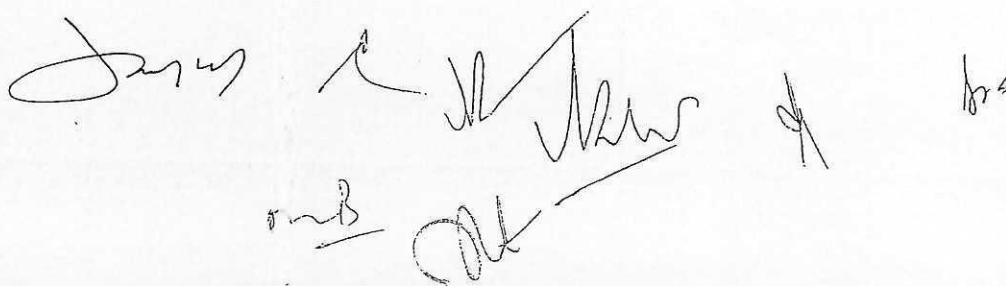
14. Explain the concept, principles, steps, tools and techniques of evaluation
15. Construct, administer and evaluate various tools for assessment of knowledge, skill, and attitude.

### Course Content

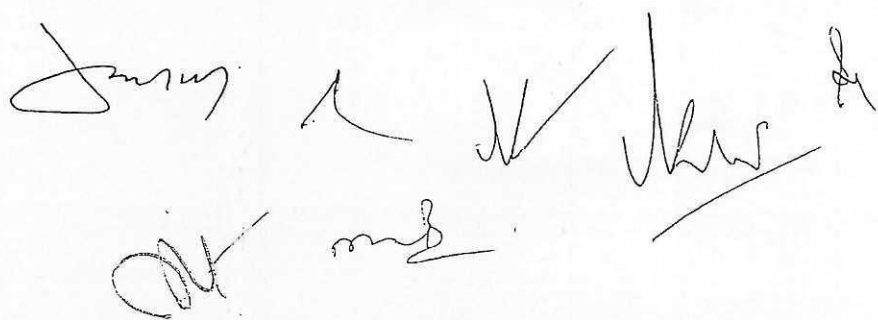
Units	Hours		Course Content
	Theory	Practical	
I	10		<b>Introduction :</b> Education :Definition, aims, concepts, philosophies & their education implications, Impact of Social, economical, political & technological changes on education: <ul style="list-style-type: none"> <li>• Professional education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



Units	Hours		Course Content
	Theory	Practical	
III	10	10	<b>Instructional media and methods</b> Key concepts in the selection and use of media in education Developing learning resource material using different media Instructional aids - types, uses, selection, preparation, utilization. Teacher's role in procuring and managing instructional Aids - Project and non-projected aids, multi media, video-tele conferencing etc
IV	10		<b>Measurement and evaluation:</b> Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement. Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages. Criterion and norm referenced evaluation,
V	12	10	<b>Standardized and non-standardized tests :</b> Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- • Essay, short answer questions and multiple choice questions. • Rating scales; checklist, OSCE/OSPE(Objective structured clinical/practical examination) • Differential scales, and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique Question bank-preparation, validation, moderation by panel, utilization Developing a system for maintaining confidentiality
VI	8	5	<b>Administration, Scoring and Reporting</b> Administering a test; scoring, grading versus marks Objective tests, scoring essay test, methods of scoring, Item analysis.
VII	12	6	<b>Standardized Tools</b> Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities.



Units	Hours		Course Content
	Theory	Practical	
VIII	5	6	<b>Nursing Educational programs</b> Perspectives of nursing education: Global and national. Patterns of nursing education and training programmes in India. Non-university and 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 programs, nurse practitioner programs.
IX	12	25	<b>Continuing Education in Nursing</b> Concepts – Definition, importance, need scope, principles of adult learning, assessments of learning needs, priorities, resources. Program planning, implementation and evaluation of continuing education programs. Research in continuing education. Distance education in nursing.
X	10	10	<b>Curriculum Development</b> Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, Types and framework. Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan. Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders. Equivalency of courses: Transcripts, credit system.
XI	8	4	<b>Teacher preparation</b> Teacher – roles & responsibilities, functions, characteristics, competencies, qualities, Preparation of professional teacher Organizing professional aspects of teacher preparation programs Evaluation: self and peer Critical analysis of various programs of teacher education in India.





Units	Hours		Course Content
	Theory	Practical	
XII	10	5	<b>Guidance and counseling</b> Concept, principles, need, difference between guidance and counseling, trends and issues. Guidance and counseling services : diagnostic and remedial. Coordination and organization of services. Techniques of counseling : Interview, case work, characteristics of counselor, problems in counseling. Professional preparation and training for counseling.
XIII	15	10	<b>Administration of Nursing Curriculum</b> Role of curriculum coordinator – planning, implementation and evaluation. Evaluation of educational programs in nursing-course and program. Factors influencing faculty staff relationship and techniques of working together. Concept of faculty supervisor (dual) position. Curriculum research in nursing. Different models of collaboration between education and service
XIV	10		<b>Management of nursing educational institutions</b> Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,
XV	5	5	Development and maintenance of standards and accreditation in nursing education programs. Role of Indian Nursing Council, State Registration Nursing Councils; Boards and University. Role of Professional associations and unions.

#### Activities :

- Framing philosophy, aims and objectives.
- Lesson Planning.
- Micro teaching-2.
- Conduct practice teachings using different teaching strategies -10 (like lecture cum discussion, demonstration- lab method, field trips, seminars, project, role play, panel discussion, clinical methods etc)
- Preparation and utilization of instructional Aids using different media.
- Develop course plans, unit plans, rotation plans.
- Conduct a continuing education workshop.
- Annotated bibliography.
- Critical evaluation of any nursing education program offered by a selected institution.
- Planning and Organizing field visits.



- Educational visits.
- Field visits (INC/SNRC) to get familiar with recognition/registration process.
- Construct, administer and evaluate tools (objective & essay type test, observation checklist, rating scale etc )
- Observe and practice application of various non-standardized tests (intelligence, Aptitude, Personality, Sociometry, physical & mental disabilities tests.)

#### Methods of Teaching

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

#### Methods of evaluation

- Tests
- Presentation
- Project work
- Written assignments

#### Internal Assessment

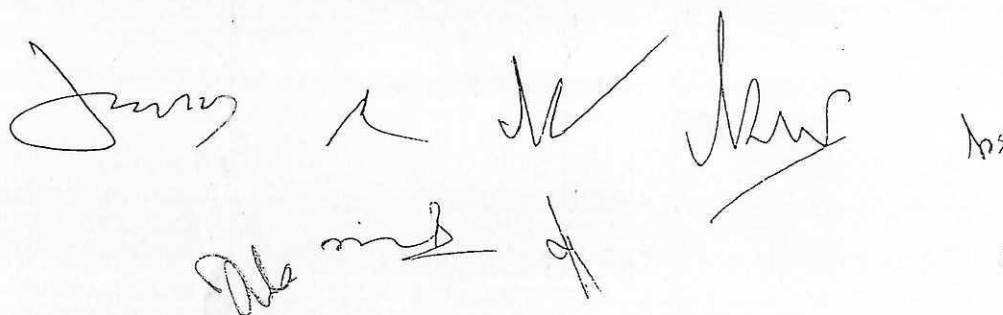
Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25
	-----
	100
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#### Practical – Internal assessment

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

#### Practical – external assessment

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



# ADVANCE NURSING PRACTICE

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

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

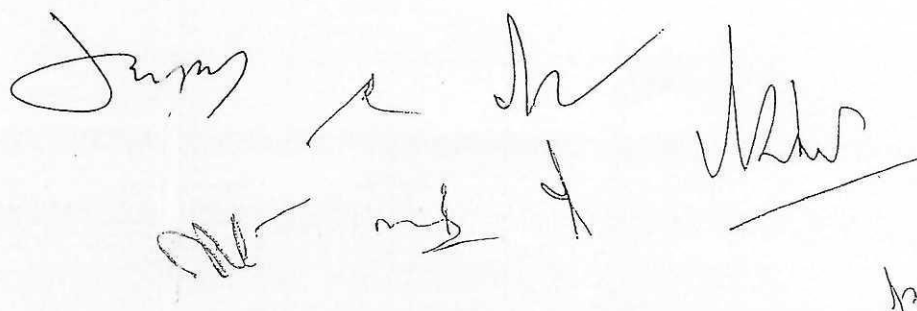
## Course Description

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

## Objectives:

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

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

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## Course Content

Unit	Hours	Content
I	10	<b>Nursing as a Profession</b> History of development of nursing profession, characteristics, criteria of the profession, perspective of nursing profession-national, global Code of ethics(INC), code of professional conduct(INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations, Role of regulatory bodies Professional organizations and unions-self defense, individual and collective bargaining Educational preparations, continuing education, career opportunities, professional advancement & role and scope of nursing education. Role of research, leadership and management. Quality assurance in nursing (INC). Futuristic nursing.
II	5	<b>Health care delivery</b> Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing profession. Health care delivery system- national, state, district and local level. Major stakeholders in the health care system-Government, non-govt, Industry and other professionals. Patterns of nursing care delivery in India. Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of non-governmental agencies. Information, education and communication (IEC). Tele-medicine.
III	10	<b>Genetics</b> Review of cellular division, mutation and law of inheritance, human genome project ,The Genomic era. Basic concepts of Genes, Chromosomes & DNA. Approaches to common genetic disorders. Genetic testing – basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis & screening, Ethical, legal & psychosocial issues in genetic testing. Genetic counseling. Practical application of genetics in nursing.
IV	10	<b>Epidemiology</b> Scope, epidemiological approach and methods, Morbidity, mortality, Concepts of causation of diseases and their screening, Application of epidemiology in health care delivery, Health surveillance and health informatics Role of nurse

Unit	Hours	Content
V	20	<b>Bio-Psycho social pathology</b> Pathophysiology and Psychodynamics of disease causation Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, life style Common problems: Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems, hemorrhage and shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation. Treatment aspects: pharmacological and pre- post operative care aspects, Cardio pulmonary resuscitation. End of life Care Infection prevention (including HIV) and standard safety measures, bio-medical waste management. Role of nurse- Evidence based nursing practice; Best practices Innovations in nursing
VI	20	<b>Philosophy and Theories of Nursing</b> Values, Conceptual models, approaches. 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, Health belief models, communication and management, etc Concept of Self health. Evidence based practice model.
VIII	10	<b>Nursing process approach</b> Health Assessment- illness status of patients/clients (Individuals, family, community), Identification of health-illness problems, health behaviors, signs and symptoms of clients. Methods of collection, analysis and utilization of data relevant to nursing process. Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.
IX	30	<b>Psychological aspects and Human relations</b> Human behavior, Life processes & growth and development, personality development, defense mechanisms, Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior, Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young & middle adult, and Older adult) Sexuality and sexual health. Stress and adaptation, crisis and its intervention, Coping with loss, death and grieving, Principles and techniques of Counseling.

Unit	Hours	Content
<b>X</b>	<b>10</b>	<b>Nursing practice</b> Framework, scope and trends. Alternative modalities of care, alternative systems of health and complimentary therapies. Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community and institutions. Health promotion and primary health care. Independent practice issues,- Independent nurse-midwifery practitioner. Collaboration issues and models-within and outside nursing. Models of Prevention, Family nursing, Home nursing, Gender sensitive issues and women empowerment. Disaster nursing. Geriatric considerations in nursing. Evidence based nursing practice- Best practices Trans-cultural nursing.
<b>XI</b>	<b>25</b>	<b>Computer applications for patient care delivery system and nursing practice</b> Use of computers in teaching, learning, research and nursing practice. Windows, MS office: Word, Excel, Power Point, Internet, literature search, Statistical packages, Hospital management information system: softwares.

### Practical

Clinical posting in the following areas:

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

### Activities

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



## Methods of Teaching

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

## Methods of evaluation :

- Tests
- Presentation
- Seminar
- Written assignments

## Advance nursing Procedures

Definition, Indication and nursing implications;

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

## Internal Assessment

Techniques	Weightage
Test- (2 tests)	50
Assignment	25
Seminar/presentation	25
	-----
	100
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## CLINICAL SPECIALITY - II

### MEDICAL SURGICAL NURSING

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

Placement : II year

Hours of Instruction

Theory : 150 hours.

Practical : 950 hours.

Total : 1100 hours.

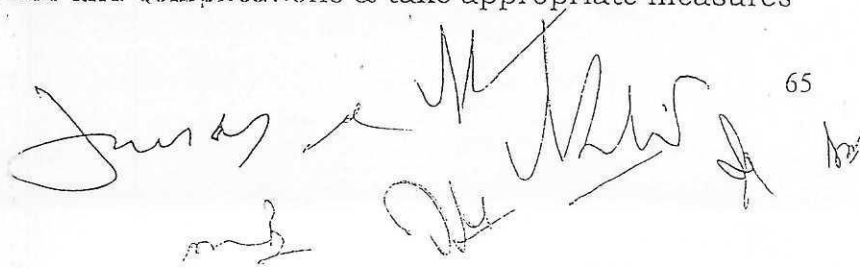
#### Course Description

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

#### Objectives

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

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

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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> Historical development, trends and issues in the field of cardiology. Cardio vascular and thoracic conditions – major health problem. Concepts, principles and nursing perspectives Ethical and legal issues Evidence based nursing and its application in cardio vascular and thoracic nursing( to be incorporated in all the units)
II	5	<b>Epidemiology</b> Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc Health promotion, disease prevention, Life style modification National health programs related to cardio vascular and thoracic conditions Alternative system of medicine Complementary therapies.
III	5	<b>Review of anatomy and physiology of cardio vascular and respiratory system</b> Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung. Coronary circulation Hemodynamics and electro physiology of heart. Bio-chemistry of blood in relation to cardio pulmonary function.
IV	20	<b>Assessment and Diagnostic Measures:</b> History taking Physical assessment <ul style="list-style-type: none"> <li>Heart rate variability, ectopisms, measurements, pattern, factors, impact of interventions on HRV</li> </ul> Diagnostic tests <ul style="list-style-type: none"> <li>ECG, chest X-ray, echocardiography: Technical aspects, monitoring, further laboratory indices, ventricular function indices,</li> </ul>

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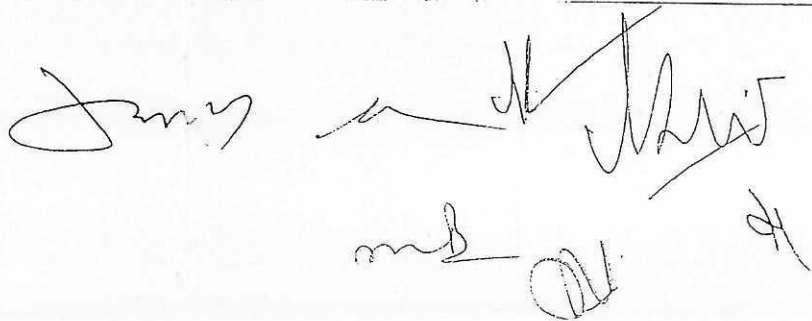
Unit	Hours	Content
		<p>output measurements (arterial and swan Ganz monitoring).  Blood gases and its significance, oxygen supply and demand</p> <ul style="list-style-type: none"> <li>• Radiologic examination of the chest: interpretation, chest film findings</li> <li>• Electro cardiography (ECG) : electrical conduction through the heart, basic electrocardiography, 12 lead electrocardiogram, axis determination <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> </ul> </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, interventions and catheter ablation, nursing care</li> <li>• Exercise testing: indications and objectives, safety and personnel, pretest evaluation, selection, interpretation, test termination, recovery period</li> <li>• Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data</li> <li>• Pulmonary function tests: Bronchoscopy and graphies</li> <li>• Interpretation of diagnostic measures</li> <li>• Nurse's role in diagnostic tests</li> </ul> <p>Laboratory tests using blood: Blood specimen collection, Cardiac markers, Blood lipids, Blood urea nitrogen studies, Blood cultures, Coagulation studies, Arterial blood gases, Blood Chemistries, cardiac enzyme studies, Serum Concentration of Selected drugs. Interpretation and role of nurse</p>
V	25	<p><b>Cardiac disorders and their management:</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> <li>• Hypertension</li> <li>• Coronary Artery Disease</li> <li>• Angina of various types</li> <li>• Cardiac Arrhythmia</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>• Infectious Heart Diseases, Infective Endocarditis, Myocarditis, Pericarditis</li> <li>• Cardiomyopathy, dilated, restrictive, hypertrophic.</li> <li>• Arrhythmias, heart block</li> </ul> <p>Associate Illnesses</p>

Unit	Hours	Content
VII	10	<b>Altered pulmonary conditions</b> 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> <li>• Pneumo, haemo and pyelothorax</li> <li>• Interstitial Lung Disease</li> <li>• Cystic Fibrosis</li> <li>• Acute and Chronic obstructive pulmonary disease (conditions leading to)</li> <li>• Cor pulmonale</li> <li>• Acute respiratory failure</li> <li>• Adult respiratory distress syndrome</li> <li>• Pulmonary embolism</li> <li>• Pulmonary Hypertension</li> </ul>
VII	10	<b>Vascular disorders and nursing management</b> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: <ul style="list-style-type: none"> <li>• Disorders of arteries</li> <li>• Disorders of the aorta</li> <li>• Aortic Aneurysms,</li> <li>• Aortic dissection</li> <li>• Raynaud's phenomenon</li> <li>• Peripheral arterial disease of the lower extremities</li> <li>• Venous thromboses</li> <li>• Varicose veins</li> <li>• Chronic venous insufficiency and venous leg ulcers</li> <li>• Pulmonary embolism</li> </ul>
VIII	10	<b>Cardio thoracic emergency interventions</b> CPR- BLS and ALC Use of ventilator, defibrillator, pacemaker Post resuscitation care. Care of critically ill patients Psychosocial and spiritual aspects of care Stress management in ICU patients Role of nurse
IX	10	<b>Nursing care of a patient with obstructive airway</b> Assessment Use of artificial airway Endotracheal intubation, tracheostomy and its care Complications, removal of artificial airway securing tubes <b>Oxygen therapy system</b> Nasal cannula



Unit	Hours	Content
		<p>Oxygen mask, Venturi mask  Partial rebreathing bag  Bi-PAP and C-PAP masks  Uses, advantages, disadvantages, nursing implications of each.</p> <p><b>Mechanical Ventilation</b>  Principles of mechanical ventilation  Types of mechanical ventilation and ventilators.  Modes of ventilation, advantage, disadvantage, complications.  PEEP therapy, indications, physiology, and complications. Weaning off the ventilator.  Nursing assessment and interventions of ventilated patient.</p>
X	10	<p><b>Congenital Heart Diseases,</b>  Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> <li>• Embryological development of heart.</li> <li>• Classification – cyanotic and acyanotic heart disease.</li> <li>• Tetralogy of Fallots.</li> <li>• Atrial Septal Defect, Ventricular Septal Defect., Eisenmenger's complex.</li> <li>• Patent ductus arteriosus, AP window</li> <li>• Transposition of great arteries.</li> <li>• Total Anomaly of Pulmonary Vascular Connection.</li> <li>• Pulmonary stenosis, atresia.</li> <li>• Coarctation of aorta.</li> <li>• Ebstein's anomaly</li> <li>• Double outlet right ventricle, Single ventricle, Hypoplastic left heart syndrome.</li> </ul>
XI	10	<p><b>Pharmacology</b></p> <p><b>Review</b>  Pharmacokinetics  Analgesic &amp; Anti-inflammatory agents  Antibiotics, antiepileptics  Drug reaction &amp; toxicity  Drugs used in cardiac emergencies  Blood and blood components</p> <ul style="list-style-type: none"> <li>• Antithrombotic agents</li> <li>• Inotropic agents</li> <li>• Beta blocking agents</li> <li>• Calcium channel blockers.</li> <li>• Vasoconstrictors</li> <li>• Vasodilators</li> <li>• ACE inhibitors.</li> <li>• Anticoagulants</li> <li>• Antiarrhythmic drugs.</li> <li>• Antihypertensives</li> <li>• Diuretics</li> <li>• Sedatives and hypnotics.</li> <li>• Disinfectants</li> </ul>

Unit	Hours	Content
		<ul style="list-style-type: none"> <li>Antilipemics</li> <li>Principles of drug administration, role and responsibilities of nurses and care of drugs</li> </ul>
XII	20	<p><b>Nursing Care of patient undergoing cardio thoracic surgery</b></p> <p>Indications, selection of patient</p> <p>Preoperative assessment and preparation; counselling.</p> <p>Intraoperative care: Principles of open heart surgery, equipment, anaesthesia, cardiopulmonary by pass.</p> <p>Surgical procedures for Coronary Artery Bypass Grafting, recent advances and types of grafts, Valve replacement or reconstruction, cardiac transplant, Palliative surgery and different Stents, vascular surgery, recent advances.</p> <p>Thoracic surgery: Lobectomy, pneumonectomy, tumour excision etc</p> <p>Immediate postoperative care: assessment, post operative problems and interventions: Bleeding, Cardiac tamponade, Low cardiac output, Infection, Pericardial effusion, Pleural effusion, Pneumothorax, Haemothorax, Coagulopathy, Thermal imbalance, Inadequate ventilation/perfusion, Neurological problems, renal problems, Psychological problems.</p> <p>Chest physiotherapy</p> <p>Nursing interventions- life style modification, complementary therapy/alternative systems of medicine.</p> <p>Intermediate and long term postoperative care after CABG, valve surgery, others.</p> <p>Follow up care</p>
XIII	5	<p><b>Cardiac rehabilitation</b></p> <p>Process</p> <p>Physical evaluation</p> <p>Life style modification</p> <p>Physical conditioning for cardiovascular efficiency through exercise</p> <p>Counselling</p> <p>Follow up care</p>
XIV	5	<p><b>Intensive Coronary Care Unit/intensive cardio thoracic unit:</b></p> <p>Quality assurance</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>Defibrillator, ICD, CTU</li> <li>Staff education</li> <li>Burn out syndrome</li> </ul> <p>Nurse's role in the management of I.C.C.U and ICTU.</p> <p>Mobile coronary care unit.</p> <p>Planning supervising educational programme and teaching</p>



## Practicals

Total – 960 Hours  
1 Weeks = 30 Hours

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

### Essential Nursing Skills

#### Procedures Observed

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

#### I. Procedures Assisted

1. Arterial blood gas analysis
2. Thoracentesis
3. Lung biopsy
4. Computer assisted tomography (CAT Scan)
5. M.R.I.
6. Pulmonary angiography
7. Bronchoscopy
8. Pulmonary function test
9. ET tube insertion
10. Tracheostomy tube insertion
11. Cardiac catheterisation
12. Angiogram
13. Defibrillation
14. Treadmill test

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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 cannula, mask, tent  
Through ET and Tracheostomy tube  
Manual resuscitation bag
4. Mechanical ventilation
5. Spirometer
6. Tuberculin skin test
7. Aerosol therapy
8. Nebulizer therapy
9. Water seal drainage
10. Chest physiotherapy including - Breathing  
Exercises Coughing Exercises  
Percussion & Vibration
11. Suctioning - Oropharyngeal, nasotracheal, Endotracheal  
Through tracheostomy tube
12. Artificial airway maintenance
13. CPR
14. Care of client on ventilator
15. Identification of dysrhythmias - 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 "Doplock"
21. Subcutaneous of Heparin
22. Obtaining leg measurements to detect early swelling in  
thrombophlebitis
23. Identification of Homans signs
24. Buerger - Allen exercises

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# **REGULATION FOR**

# **EXAMINATION**



## Regulations for examination:

### Eligibility for appearing for the examination:

75% of the attendance for theory and practicals. However 100% of attendance for practical before the award of degree

### Classification of results:

- 50% pass in each of the theory and practical separately.
- 50-59% Second division
- 60-74% first division
- 75% and above is distinction
- For declaring the rank aggregate of 2 years marks to be considered

If the candidate fails in either practicals or theory paper he/she has to re-appear for both the papers (theory and practical)

Maximum no. of attempts per subject is three (3) inclusive of first attempt. The maximum period to complete the course successfully should not exceed 4 years

Candidate who fails in any subject, shall be permitted to continue the studies into the second year. However the candidate shall not be allowed to appear for the Second year examination till such time that he/she passes all subjects of the first year M.Sc nursing examination

### Practicals

- 4 hours of practical examination per student.
- Maximum number of 10 students per day per speciality.
- The examination should be held in clinical area only for clinical specialities
- One internal and external should jointly conduct practical examination
- Examiner -- Nursing faculty teaching respective speciality area in M.Sc nursing programme with minimum 3 years experience after M.Sc nursing.

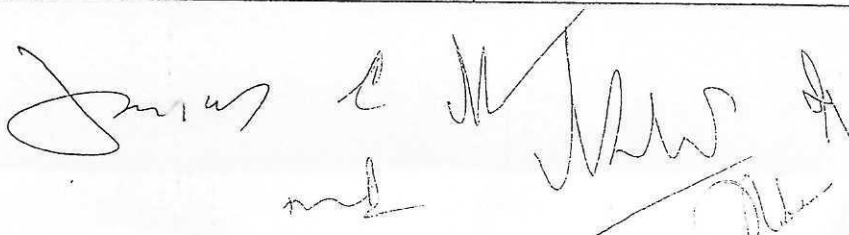
### Dissertation

Evaluation of the dissertation should be done by the examiner prior to viva  
Duration: Viva-voce -minimum 30 minutes per student

### Guidelines for Dissertation

Tentative Schedule for dissertation

S. No.	Activities	Scheduled Time
1.	Submission of the research proposal	End of 9 <sup>th</sup> month of 1 <sup>st</sup> year



2.	Submission of dissertation – Final	End of 9 <sup>th</sup> month of II <sup>nd</sup> Year
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Note: - Administrative approval and ethical clearance should be obtained

#### A. Research Guides

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

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

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

##### b) *Guide – Students Ratio*

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

##### c) *Research Committee*

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

#### Duration

Duration of the course is 2 years for M.Sc. (N)

Available	52 weeks
Vacation	4 weeks
Examination	2 weeks
Gazetted holidays	3 weeks
Total weeks available	43 weeks
40 hours per week	1720 hours
<b>Total hours for 2 years</b>	<b>3440 hours</b>

#### Course of Instruction

	Theory (hrs)	Practical (hrs)
<b>1st year</b>		
Nursing education	150	150
Advance nursing practice	150	200
Nursing Research and statistics	150	100
*Clinical speciality –I	150	650

<b>Total</b>	<b>600</b>	<b>1100</b>
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## II nd Year

Nursing Management	150	150
Nursing Research(Dissertation)		300
*Clinical Speciality-II	150	950
<b>Total</b>	<b>300</b>	<b>1400</b>

Educational visit 2 weeks

\*Clinical Speciality - Medical Surgical Nursing (Cardio Vascular & Thoracic Nursing, Critical care Nursing, Oncology Nursing, Neurosciences Nursing, Nephro-Urology Nursing, Orthopedic Nursing, Gastro Enterology Nursing,)Obstetric & Gynaecological Nursing,, Child Health (Paediatric) Nursing, Mental Health(Psychiatric) Nursing, Community Health Nursing, Psychiatric (Mental Health) Nursing etc.

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

## Scheme of Examination

	Theory			Practical		
	Hours	Internal	External	Hours	Internal	External
1st year						
Nursing education	3	25	75		50	50
Advance nursing practice	3	25	75			
Nursing Research and statistics	3	25**	75*			
Clinical speciality -I	3	25	75		100	100
<b>Total</b>		<b>100</b>	<b>300</b>		<b>150</b>	<b>150</b>
II nd Year						
Nursing Management	3	25	75			
Dissertation & Viva					100	100
Clinical Speciality-II	3	25	75		100	100
<b>Total</b>		<b>50</b>	<b>150</b>		<b>200</b>	<b>200</b>

\* Nursing research=50 and statistics=25

\*\*Nursing research=15 and statistics=10

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 and practical).
6. Maximum no. of attempts permitted for each paper is 3 including first attempt.

7. The maximum period to complete the course successfully should not exceed 4 (four) years
8. A candidate failing in more than two subjects will not be promoted to the II<sup>nd</sup> year.
9. No candidate shall be admitted to the subsequent II<sup>nd</sup> year examination unless the candidate has passed the I<sup>st</sup> year examination.
10. Maximum number of candidates for all practical examination should not exceed 10 per day.
11. Provision of Supplementary examination should be made.
12. All practical examinations must be held in the respective clinical areas.
13. One internal and One external examiners(outside the University) should jointly conduct practical examination for each student
14. An examiner should be M.Sc (N) in concerned subject and have minimum of 3 (three) years post graduate teaching experience.
15. One internal and One external examiners(outside the University) should evaluate dissertation and jointly conduct viva-voce for each student
- \* 16. For Dissertation Internal examiner should be the guide and external examiner should be Nursing faculty / nursing expert in the same clinical speciality holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years experience in guiding the research projects for Post Graduate students of Nursing.

### Admission Strength

Annual admission strength for M.Sc (N) Programme should have prior sanction/permission from the Indian Nursing Council on the basis of clinical, physical facilities and teaching faculty.

### Health Services

There should be provisions for the following health services for the students.

- (a) An annual medical examination.
- (b) Vaccination against Tetanus, hepatitis B or any other communicable disease as considered necessary.
- (c) Free medical care during illness and / provision of health insurance should be made.
- (d) A complete health record should be kept in respect of each individual students. The question of continuing the training of a student, with long term chronic illness, will be decided by the individual college.

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S.No	THEORY EXAM (EXTERNAL)			PRACTICAL EXAM (EXTERNAL)		
	CONTENT	HOURS	MARKS	CONTENT	HOURS	MARKS
1.	Final written theory exam.	3hrs	75	1. Practice Teaching.	3 hrs	20
				2. Preparation of A.V Aids	3 hrs	15
				3. Preparation of Clinical Rotation/ Master Rotation.	3hrs	15
				TOTAL MARKS		50
THEORY EXAM (INTERNAL)						
	CONTENT	HOURS	MARKS	CONTENT	HOURS	MARKS
1	Midterm exam	3hrs	75	1. Preparation of rotation plan for Staff nurses.		15
2	Assignments			2. Peer Group Teachings		10
	a) Test Construction		15	3. Seminars		10
	b) Field Visits to INC, DNC, TNAI etc		25	4. Quiz		10
	c) Course Planning		25	5. Exhibition		25
	d) Framing Philosophies and objectives		15	6. Community Health Workshop		15
	e) Critical evaluation of any Nursing Educational Program me.		25	7. Microteaching		15
	f) Unit plans		20			
	TOTAL MARKS		200 *	TOTAL MARKS		100**

\* Internal theory marks will be calculated out of 25marks

\*\* Internal practical marks will be calculated out of 50 marks

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S.No	THEORY EXAM (EXTERNAL)			PRACTICAL EXAM (EXTERNAL)		
	CONTENT	HOURS	MARKS	CONTENT	HOURS	MARKS
1.	Final written theory exam.	3hrs	75	NOT APPLICABLE		
	THEORY EXAM (INTERNAL)			PRACTICAL EXAM (INTERNAL)		
	CONTENT	HOURS	MARKS	CONTENT	HOURS	MARKS
1.	Midterm exam	3hrs	75	NOT APPLICABLE		
2.	Assignments					
	a) Health Belief Model.		15			
	b) Values and conceptual models in Nursing.		10			
3.	Seminars/ Peer Group Presentations		25×3=75			
4.	Field Visits to W.H.O, UNICEF, RED CROSS etc		25			
	TOTAL MARKS					200 *

\*Internal theory marks will be calculated out of 25marks

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# MEDICAL SURGICAL NURSING

S.No	THEORY EXAM (EXTERNAL)			PRACTICAL EXAM (EXTERNAL)		
	CONTENT	HOURS	MARKS	CONTENT	HOURS	MARKS
1.	Final written theory exam.	3hrs	75	Final Practical Exam	3 hrs	100
				TOTAL MARKS		100
THEORY EXAM (INTERNAL)				PRACTICAL EXAM (INTERNAL)		
	CONTENT	HOURS	MARKS	CONTENT	HOURS	MARKS
1.	Midterm exam	3hrs	75	1. Practical exam (internal)	3 hrs	50
2	Assignments		10	2. Clinical Presentation.(Medical and Surgical)		25x2=50
2.	Field Visit Report.		15	3.Assessment of the cardiovascular system		15
				4.Nutritional assessment (Post Op and Disease conditions)		10x2=20
				5.Health Education		10x2=20
				5. Health camp in OPD		25
				6. Case Studies		10x2=20
				7. Nursing Care Plan in each area		10x8=80
				8. Clinical evaluation		20
TOTAL MARKS			100*	TOTAL MARKS.		300**

\*Internal theory marks will be calculated out of 25marks


\*\* Practical internal marks will be calculated out of 100 marks

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\*Internal theory marks will be calculated out of 25marks

# **SAMPLE QUESTION PAPER**

# SAMPLE QUESTION PAPER

M.Sc. NURSING I YEAR

NURSING EDUCATION

Time: 3 Hours

Max. Marks: 75

Note: Attempt all questions.

1. Explain the following: (5x5=25) (Any 5)

- |                                 |                                       |
|---------------------------------|---------------------------------------|
| a) Aims of Education.           | b) Selection of Learning Experiences. |
| c) Continuing Nursing Education | d) Indian Nursing Council.            |
| e) Anecdotal Record.            | f) Sociometry.                        |

2. a) Explain the advantages and disadvantages of demonstration method in nursing. (6)

b) Describe the guidelines for effective demonstration in classroom. (6)

3. a) Explain the characteristics to be kept in mind while selecting audiovisual aids for classroom teaching. (6)

b) Describe the preparation and use of flash cards. (7)

4. a) Describe the patterns of nursing programmes in India in tabular form. (5)

b) Write the philosophy and objectives of any one programme. (3+4)

5. a) Define guidance and counseling. (3)

b) Differentiate between Guidance and Counseling. (4)

c) Describe the characteristics of counselor. (6)

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SAMPLE QUESTION PAPER  
NURSING RESEARCH AND STATISTICS

M.Sc. NURSING I YEAR

Time: 3 hours

Max. Marks: 75

Note: Attempt all questions.

Section 'A' (Nursing Research)

1. Write explanatory note on following: (Any 4) (5x4=20)
- a) Sampling
  - b) Evidence Based Practice.
  - c) Ethics in research
  - d) Hypothesis
  - e) Validity and reliability of tools

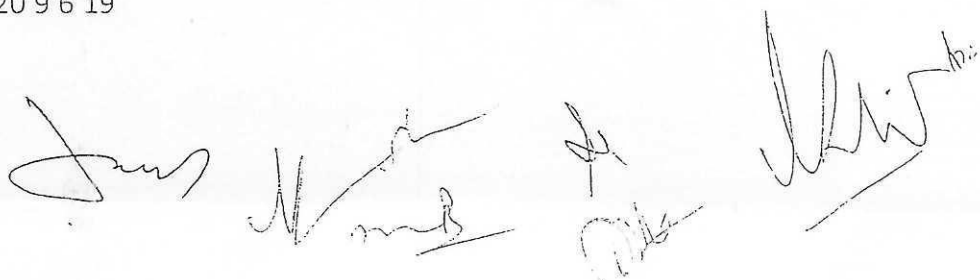
2. a) Discuss the purposes of nursing research quote with examples. (5)
- b) Explain the steps in quantitative research study. (10)
3. a) Differentiate between quantitative and qualitative research. (5)
- b) Describe the various types of instruments used in nursing research. (10)

Section 'B' (Statistics)

1. Explain the following: (5x3=15)
- a) Standard Deviation and it's mathematical properties.
  - b) Level of Significance.
  - c) Normal distribution.
2. From the following data, calculate the coefficient of rank correlation: (10)

X 48 33 40 9 16 16 65 24 16 57

Y 13 13 24 6 15 4 20 9 6 19



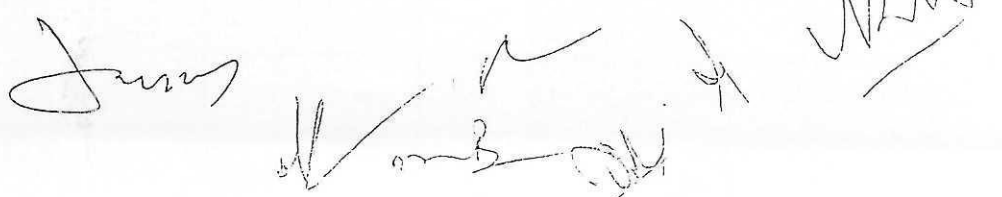
SAMPLE QUESTION PAPER  
MEDICAL SURGICAL NURSING -I  
M.Sc. NURSING I YEAR

Time: 3 hours

Max. Marks: 75

Note: Attempt all questions.

1. Write short notes on following: (Any 5) (5x5=25)
  - a) Thalessemia
  - b) Stages of stress
  - c) Fluid Management in Burns
  - d) Dialysis
  - e) Diabetic Ketoacidosis
  - f) Cardiogenic Shock
  
2. Mr. Joshi, aged 45 years, an alcoholic is diagnosed a case of advanced cirrhosis of liver.
  - a) Describe the Pathophysiology leading to complications of cirrhosis in Mr. Joshi. (6)
  - b) Describe the management and nursing care of Mr. Joshi. (5)
  
3. Mrs. Sana, aged 28 years is diagnosed having Mitral Stenosis with Congestive Cardiac Failure (C.C.F).
  - a) Describe the Pathophysiology and clinical manifestations of C.C.F. in Mrs. Sana. (5)
  - b) Briefly explain surgical procedures that may be done in Mrs. Sana. (3)
  - c) Prepare a Nursing Care Plan for Mrs. Sana. (5)
  
4. Mr. Rakesh, aged 23 years had a road side accident and is admitted with head injury, having severe bleeding and is on ventilator
  - a) Define Cerebral Concussion and Contusion. (2)
  - b) Describe Glasgow Coma Scale. (2.5)
  - c) Explain nurses responsibilities for blood transfusion. (2.5)



d) Describe the management and nursing care of Mr. Rakesh

(6)

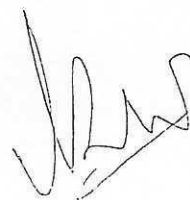
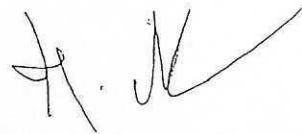
5. a) Enumerate the warning signs and symptoms of malignancy.

(2)

b) Describe the various methods of Radio Therapy.

(4)

c) Explain the nurses role in prevention and management of side effects of radiotherapy. (7)



SAMPLE QUESTION PAPER  
ADVANCE NURSING PRACTICE  
M.Sc. NURSING I YEAR

Time: 3 hours

Max. Marks: 75

Answer All questions.

1. a) List out the purposes of theories in nursing. (5)
- b) Discuss the following theory in detail with suitable example
- i) Orem's Theory of Nursing. (7)
- ii) Paplav's interpersonal relationship theory. (8)

2. Write in detail about

- a) Stages of sleep cycle. (4)
- b) Factors affecting sleep. (4)
- c) Sleep disorders. (6)
- d) Role of Nurse in promotion of sleep. (6)

II. Write Short Notes on:

(7 x 5 = 35)

1. Concepts of causation.
2. Role of nurse in management of dehydration.
3. Genetic counseling.
4. Future of nursing profession.
5. Bio-medical waste management in infection control.
6. Counseling the client's significant family members in association with dying client.
7. Application of computer in nursing practice.

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