

Study & Evaluation Scheme

of

M.Sc. Nursing (Medical Surgical Nursing) [Applicable w.e.f. Academic Session 2020-21]



TEERTHANKER MAHAVEER UNIVERSITY

N.H.-24, Delhi Road, Moradabad, Uttar Pradesh-244001 Website:

www.tmu.ac.in



TEERTHANKER MAHAVEER UNIVERSITY
(Established under Govt. of U. P. Act No. 30, 2008)
NH-24, Delhi Road, Moradabad (U.P)

<i>Study & Evaluation Scheme</i>	
SUMMARY	
Institute Name	TEERTHANKER MAHAVEER College Of Nursing, TMU, Moradabad.
Programme	M.Sc. Nursing in Medical Surgical Nursing
Duration	Two year (Annual System)
Medium	English
Minimum Required Attendance	Theory 80%, Practical 100% (for getting Degree) 80% (For Appearing Examination)
Credits	
Maximum Credits	90
Minimum Credit required for the degree	90

Assessment:			
Evaluation	Internal	External	Total
Theory	25	75	100
Evaluation of Practical/Dissertations & Project Reports	50	50	100

Theory Internal Evaluation Criteria						
Class Test 1	Class Test 2	Class Test 3	Sports, Seminar, workshop, discipline, Class Tutorial & Activity	Assignment	Attendance	Total
Best Two out of Three						
5	5	5	5	5	5	25

Practical Internal Evaluation Criteria											
NCP	CS	CP	HT	DB	CRB	CD	CT-I	CT-II	CT-III	Attendance	Total
Best Two out of Three											
5	5	5	5	5	5	3	6	6	6	5	50

NCP- Nursing Care Plan, CS-Nursing Case Study, CP-Nursing Case Presentation, HT- Health Talk, DB-Drug Book, CRB- Clinical Record Book, CD- Clinical Dairy.

Duration of Examination	External	Internal
	3 Hours.	2 Hours.

To qualify the course a student is required to secure a minimum of 50% marks separately i.e. both internal and in year-end examination. A candidate who secures less than of 50% of marks in a course shall be deemed to have failed in that course.

A candidate failing in any number of subjects will be promoted to next higher class. The candidate shall clear all the subjects of previous years before appearing in the final year examination. If a candidate fails in either theory or practical, he/ she have to reappear in both.

<i>Question Paper Structure</i>	
1	The question paper shall have two sections and examiner shall set questions specific to respective section. Section wise details shall be as mentioned under;
2	Section I: It shall consist of short answer type questions (answer should not exceed 100 words). This section will essentially assess COs related to remembering and understanding. This section will contain four questions and student must attempt any three questions, each question shall have equal weightage of three marks and total weightage of this section shall be 15 Marks.
3	Section II: It shall consist of long answer type questions. This section will also contain five questions and every question should assess the specific COs. Student must attempt any four questions which should be from the entire syllabus, each question shall have equal weightage of fifteen marks and total weightage of this section shall be 60 Marks.
4	There must be at least one question from the entire syllabus to assess the specific element of the higher level of learning (Thinking).
5	The question must be designed in such a way that it assesses the concerned COs in entirety. It means a question could have multiple parts depending upon the requirements of the Specific Course Outcome.

<i>IMPORTANT NOTES:</i>	
1	<i>The purpose of examination should be to assess the Course Learning Outcome that will ultimately lead to of attainment of Program Specific Outcome. A Question paper must assess the following aspects of learning: Remember, Understand, Apply, Analyze, Evaluate and Create (reference to Bloom's taxonomy)</i>
2	<i>There shall be continuous evaluation of the student and there will be a provision of fortnight progress report</i>

Program Structure- M Sc Nursing

A. Introduction

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 lifelong learning which fosters improvement of quality care.

M Sc Nursing 2 Years CBCS Programme			
Basic Structure: Distribution of Courses			
Sr. No.	Type of Course	Credit	Total Credit
1	Core Courses (CC)	4 Course of Total 43 Credit in range of 8 to 13 Credit	43
2	Discipline Specific Courses (DSC)	1 Course of Total 8 Credits	8
3	Discipline Specific Elective Courses (DSEC)	1 Course of Total 8 Credits	8
4	Skill Enhancement Course (SEC)	3 Course of Total 24 Credit in range of 4 to 23 Credit	24
5	Research Project Report (RPR)	1 Courses of 7 Credits	7
6	Value Added Course (VAC)	2 Courses of 0 credit hrs. (Total Credit Hrs. 2X0)	0
Total Credits			90

B. Choice Based Credit System (CBCS)

Choice Based Credit System is a versatile and flexible option for each student to achieve his/her target number of credits as specified by the INC and adopted by our university.

The following is the course Module Designed for M. Sc Nursing Programme

Core Courses (CC): Core Courses of M. Sc Nursing Programme will provide the graduates able to Utilize/apply the concepts, theories and principles of nursing science and leadership qualities and function effectively as nurse educator and manager. Post graduates will Demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system. Establish collaborative relationship with members of other disciplines. These courses offered in 1st and 2nd Year during the M. Sc Nursing Programme. There will be total 43 credits.

Discipline Specific Elective Courses: Discipline Specific Elective Courses includes five nursing specialty courses. Medical Surgical Nursing Course has seven sub-specialty subjects out of which students are expected to chose one sub specialty subject in second year M. Sc Nursing Programme. These courses will Demonstrate advance competence in practice of nursing in each specialty and also helps the student to Demonstrate interest in continued learning for personal and professional advancement. These courses offered in 1st and 2nd Year during the M. Sc Nursing Programme. There will be total 16 credits.

Value Added Course (VAC): Value Added Audit Course is a non- credit course which is basically meant to enhance general ability of students in areas like soft skills, quantitative aptitude and reasoning ability - required for the overall development of a student and at the same time crucial for industry/corporate demands and requirements. The student possessing these skills will definitely develop acumen to perform well during the recruitment process of any premier organization and will have the desired confidence to face the interview. Moreover, these skills are also essential in day-to-day life of the corporate world. The aim is to nurture every student for making effective communication, developing aptitude and a general reasoning ability for a better performance, as desired in corporate world. There shall be one course each in 1st year & 2nd years and will carry no credit, however, it will be compulsory for every student to pass these courses with minimum 45% marks to be eligible for the certificate. These marks will not be included in the calculation of CGPI. Students have to specifically be registered in the specific course of the respective years.

Skill Enhancement Course (SEC): These are designed to assist students in developing expertise and in depth skill enhancement Course in the field of respective nursing specialty/ sub-specialty courses and Nursing Education. It should aim at developing students' critical thinking and analysis skills, competence in psychomotor, communication, and time management skills, and to increase self-confidence in their ability to perform as nurses. Skill Enhancement Course to allow nursing students in all the areas of specialty health care setting which helps the hands-on skills experience that is not possible to teach in a classroom setting. Skill Enhancement Course of total 24 credits.

Research Project Report (RPR): In addition to learning Research theory there will be Mandatory Partial Fulfillment of Individual Research project. Make the students to demonstrate skill in conducting nursing research, interpreting and utilizing the findings from health related research which will provide hands on experience in contrast to theory in Health Care settings. It will be assessed internal and the credits earned will be included for the calculations of the CGPA.

C. Programme Specific Outcome.

The Learning and abilities or skills that a student would have developed by the end of two years M. Sc Nursing Programme.

PSO1:	Understanding the concepts, theories, and principles related to nursing sciences with appropriate application in the practice.
PSO2:	Demonstrating skills in nursing practice, education, administration and research at different levels of health care delivery system.
PSO3:	Analyzing the health needs and scope of development in providing comprehensive care in health sector.
PSO4:	Application of modern communication and educational technologies in nursing academics.
PSO5:	Creating leadership and management skills for working in collaborative teams in the provision of quality health care outcome.
PSO6:	Creating evidence based practice through research in nursing profession.
PSO7:	Applying Medical Surgical Nursing advance knowledge and skills in various areas of critical care nursing, Oncology nursing, Cardio thoracic Nursing, Neuro Nursing.

D. Pedagogy and Unique practice adopted. "Pedagogy is the method and practice of teaching, especially for teaching an academic subject or theoretical concept". In addition to conventional time-tested lecture method, the institute will emphasize on experiential learning:

- 1. Case Based Learning:** Case based learning enhances student skills at delineating the critical decision dilemmas faced by organizations, helps in applying concepts, principles and analytical skills to solve the delineated problems and develops effective module for health problem solving. Case method of teaching is used as a critical learning tool for effective learning and we encourage it to the fullest. We make it compulsory to teach case study in every academic year in M. Sc Nursing program.
- 2. Role Play & Simulation:** Role-play and simulation are forms of experiential learning. Learners take on different roles, assuming a profile of a character or personality, and interact and participate in diverse and complex learning settings. Role-play and simulation function as learning tools for teams and groups or individuals as they "play" online or face-to-face. They alter the power ratios in teaching and learning relationships between students and educators, as students learn through their explorations and the viewpoints of the character or personality they are articulating in the environment. This student-centered space can enable learner-oriented assessment, where the design of the task is created for

active student learning. Therefore, role-play & simulation exercises such as prevention and promotion of disease, awareness and health teaching in community etc. are being promoted for the practical-based experiential learning of our students.

3. ***Video Based Learning (VBL) & Learning through Movies (LTM):*** These days technology has taken a front seat and classrooms are well equipped with equipment and gadgets. Video-based learning has become an indispensable part of learning. Similarly, students can learn various concepts through movies. In fact, many teachers give examples from movies during their discourses. Making students learn few important theoretical concepts through VBL & LTM is a good idea and method. The learning becomes really interesting and easy as videos add life to concepts and make the learning engaging and effective. Therefore, our institute is promoting VBL & LTM wherever possible.
4. ***Laboratory Demonstration:*** Laboratory Demonstration is as essential to the learning process as classroom participation. The nursing student will be given an opportunity to apply classroom theory to as many patient situations and stimulate as possible to enhance their skills in nursing care.
5. ***Field Research Projects:*** The students, who take up experiential projects in Health care setting and other area, where senior experts with a stake in teaching guide them, drive the learning. All students are encouraged to do some research project in the field of nursing other their regular classes.
6. ***Industrial Visits:*** Industrial visit are essential to give students hand-on exposure and experience of how things and processes work in industries. Our institute organizes such visits to enhance students' exposure to practical learning and work out for a report of such a visit relating to their specific topic like, Multi Specialty Hospitals, Water Purification plant and Orphans etc.
7. ***Special Guest Lectures (SGL):*** Some topics/concepts need extra attention and efforts as they either may be high in difficulty level or requires experts from specific industry/domain to make things/concepts clear for a better understanding from the perspective of the course. We organize Specialty wise lectures, as part of lecture- series and invite prominent personalities from academia and industry from time to time to deliver their vital inputs and insights related to specific Specializations.
8. ***Special assistance programe:*** Special assistance programe for slow learners & fast learners write the note how would you identify slow learners, develop the mechanism to

correcting knowledge gap. Terms of advance topics what learning challenging it will be provided to the fast learners.

- 9. *Orientation program:*** Orientation Program is conducting for fresher students. Organizing 3 Days orientation with the purpose of Orienting with Nursing Programme, Developing Confidence, Understanding the Structure and Organization of University and the topics will be covered “Regarding orientation about Nursing courses and scope, Challenges in reading the Nursing courses and how to overcome it, English communication, Memorization, Remembering, Mnemonics, team building, IPR development in Nursing Courses”.
- 10. *MOOCS:*** Students may earn credits by passing MOOCS as decided by the college from time to time. Graduate level programs may award Honors degree provided students earn pre-requisite credits through MOOCs
- 11. *Mentoring scheme:*** A mentoring relationship is a very personal one, which is often important to the mentee. As a mentor, get to know your student's academic, research, professional, and personal goals, so you can help them in a way that meets their personal best interest. It develops positive student teacher relationship, improve attendance of the students, To identify special abilities and nurture it for development. Mentor Mentee ratio will be 1:25
- 12. *Career, personal counseling & Competitive exam preparation:-*** We provide a safe, confidential place for student to talk with Counseling Members about any concerns or personal problems that might interfere with your personal growth and academic achievement. Also we Counsel about Job opportunity and career Growth by our Placement Cell.
- 13. *Extracurricular & Extramural Activities:*** Organizing participation in extracurricular activities will be mandatory to help students develop confidence & face audience with care.

M. SC NURSING CURRICULUM

YEAR -I

Sr. No.	Category	Course Code	Course	Periods			Credit	Duration of Exam	Evaluation Scheme		
				L	T	P			Internal	External	Total
1	CC-1	MSN101	Nursing Education	8	0	0	8	3	25	75	100
2	CC-2	MSN102	Advance Nursing Practice	8	0	10	13	3	25	75	100
3	CC-3	MSN103	Nursing Research and Statistics	8	0	4	10	3	25	75	100
4	DSC-1	MSN104	Medical Surgical Nursing-I	8	0	0	8	3	25	75	100
5	SEC-1	MSN151	Medical Surgical Nursing-I(P)	0	0	30	8	-	50	50	100
6	SEC-2	MSN156	Nursing Education (P)	0	0	8	4	-	50	50	100
Total				32	0	52	51	-	200	400	600

YEAR –II

Sr. No.	Category	Course Code	Course	Periods			Credit	Duration of Exam	Evaluation Scheme		
				L	T	P			Internal	External	Total
1	CC-4	MSN 201	Nursing Management	8	0	8	12	3	25	75	100
Choose any one from Discipline Specific Elective Courses with respective Skill Enhancement course											
2	DSEC-1	MSN202	Cardiovascular and Thoracic Nursing	8	0	0	8	3	25	75	100
		MSN203	Critical Care Nursing								
		MSN204	Oncology Nursing								
		MSN205	Neurosciences Nursing								
		MSN206	Nephro-urology Nursing								
		MSN207	Orthopedic Nursing								
		MSN208	Gastro Enterology Nursing								
3	SEC-3	MSN251	Cardiovascular and Thoracic Nursing (P)	0	0	46	12	-	50	50	100
		MSN252	Critical Care Nursing (P)								
		MSN253	Oncology Nursing (P)								
		MSN254	Neurosciences Nursing (P)								
		MSN255	Nephro-urology Nursing (P)								
		MSN256	Orthopedic Nursing (P)								

		MSN257	Gastro Enterology Nursing (P)								
4	RPR-1	MSN262	Dissertation	0	0	14	7	-	50	50	100
Total				16	0	68	39		150	250	400

VALUE ADDED COURSE

Sr. No.	Code	Course	L	T	P	Credit	Duration of Exam	Internal	External	Total
Year-I										
1	TMUPS101	Managing Self	2	1	0	0	-	50	50	100
Year-II										
2	TMUPS201	Managing Work and Others	2	1	0	0	-	50	50	100
Note: Value Added Course is an audit course; it is compulsory to pass with 45% marks and is not considered for CPI.										

Note:		C- Credits, 1C = 1 Hour L or T, 1C = 2 Hour P
Course Code: MSN101	Core Course -1	L-8
	M.Sc. Nursing	T-0
	I Year	P-0
	NURSING EDUCATION	C-8
Course Outcomes:	At the end of the course, the students will be: :	
CO1.	Understanding the concepts, principles, philosophies and trends in nursing education.	
CO2.	Applying various instructional methods, media, tools and techniques in teaching learning process.	
CO3.	Applying the principles and steps of guidance and counseling.	
CO4.	Analyzing the existing nursing educational programs, their problems, issues and future trends and identifying research priorities in nursing education	
CO5.	Evaluating the nursing curriculum design and management of nursing educational institutions.	
CO6.	Designing a plan for improvement in instructional design, delivery and assessment using modern methods and techniques.	
Course Content:		
Unit-1:	<p>Introduction: Education: Definition, aims, concepts, philosophies & their education implications, Impact of Social, economical, political & technological changes on education: □</p> <p>Current trends and issues in education</p> <p>Educational reforms and National Educational policy, various educational commissions-reports</p> <p>Trends in development of Nursing education in India</p>	10 Hours
Unit-2:	<p>Teaching – Learning Process</p> <ul style="list-style-type: none"> • Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning. • Educational aims and Objectives; types, domains, levels, 	20 Hours

	<p>elements and writing of educational Objectives.</p> <ul style="list-style-type: none"> • 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) 	
Unit-3:	<p>Instructional media and methods</p> <p>Key concepts in the selection and use of media in education</p> <p>Developing learning resource material using different media</p> <p>Instructional aides – types, uses, selection, preparation, utilization. □</p> <p>Teacher's role in procuring and managing instructional Aids – Project and non-projected aids, multimedia, video-tele conferencing etc.</p>	10 Hours
Unit-4:	<p>Measurement and evaluation:</p> <p>Concept and -nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement.</p> <p>Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages.</p> <p>Criterion and norm referenced evaluation.</p>	10 Hours
Unit-5:	<p>Standardized and non-standardized tests:</p> <p>Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- □</p> <p>Essay, short answers questions and multiple choice questions.</p> <p>Rating scales, checklist, OSCE/OSPE (Objective structured clinical/practical examination)</p> <p>Differential scales, and summated scales, Socio-metry, anecdotal record, attitude scale, critical incident technique.</p> <p>Question bank-preparation, validation, moderation by panel, utilization</p> <p>Developing a system for maintaining confidentiality</p>	12 Hours

Unit-6:	<p>Administration, Scoring and Reporting</p> <ul style="list-style-type: none"> • Administering a test; scoring, grading versus marks □ • Objective tests, scoring essay test, methods of scoring, Item analysis. 	8 Hours
Unit :7	<p>Standardized Tools</p> <ul style="list-style-type: none"> • Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities. 	12 Hours
Unit:8	<p>Nursing Educational programs</p> <ul style="list-style-type: none"> • 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. programs, M. Phil. and Ph.D.) in Nursing, post basic diploma programs, Nurse practitioner programs. 	5 Hours
Unit:9	<p>Continuing Education in Nursing</p> <ul style="list-style-type: none"> • 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. • Distacnce education in Nursing. 	12 Hours
Unit:10	<p>Curriculum Development</p> <p>Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, Types and framework.</p> <p>Formulation of philosophy, Objectives: selection and organization of learning experiences; master plan, course plan, unit plan.</p> <p>Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders.</p> <p>Equivalency of courses: Transcripts, credit system.</p>	10 Hours
Unit:11	<p>Teacher preparation</p> <p>Teacher – roles & responsibilities, functions, characteristics,</p>	8 Hours

	<p>competencies, qualities.</p> <p>Preparation of professional teacher.</p> <p>Organizing professional aspects of teacher preparation programs</p> <p>Evaluation: self and peer.</p> <p>Critical analysis of various programs of teacher education in India.</p>	
Unit:12	<p>Guidance and counseling</p> <p>Concept, principles, need, difference between guidance and counseling, trends and issues.</p> <p>Guidance and counseling services: diagnostic and remedial.</p> <p>Coordination and organization of services.</p> <p>Techniques of counseling: Interview, case work, characteristics of counselor, problems in counseling.</p> <p>Professional preparation and training for counseling.</p>	10 Hours
Unit:13	<p>Administration of Nursing Curriculum</p> <p>Role of curriculum coordinator – planning, implementation and evaluation.</p> <p>Evaluation of educational programs in Nursing course and program.</p> <p>Factors influencing faculty staff relationship and techniques of working together.</p> <p>Concept of faculty supervisor (dual) position.</p> <p>Different models of collaboration between education and service.</p>	15 Hours
Unit:14	<p>Management of Nursing Educational Institutions</p> <p>Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel.</p>	10 Hours
Unit:15	<p>Development and maintenance of standards and accreditation in Nursing education programs.</p> <p>Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University.</p> <p>Role of Professional associations and unions.</p> <p>Methods of Teaching</p>	5 Hours

	<p>Lecture cum discussion</p> <p>Demonstration/Return demonstration</p> <p>Seminar /Presentations</p> <p>Project work</p> <p>Field work</p> <p>Field visits</p> <p>Workshop</p> <p>Methods of evaluation</p> <p>Tests</p> <p>Presentation</p> <p>Project work</p> <p>Written assignment</p>	
<p><u>Reference Books:</u></p>	<ol style="list-style-type: none"> 1. Aggarwal J.C. Principles, Methods & Techniques of Teaching, Vikas Publishing House Basavanthappa B.T. Nursing Education, Jaypee Brothers,2005,New Delhi. 2. Bevis, Em Olivia, Curriculum Building in Nursing a Process, C.V Mosby Co, St. Louis. 3. George Kurian Aleyamma, <i>Principles of Curriculum Development and Evaluation</i>, Vivekanandha Press, 2002. 4. Bhatia B.D. Principles and Methods of Teaching Doabra House, New Delhi. 5. Billing, Diane M & Halstead, Judith A, Teaching in Nursing: A Guide for Faculty, W.B. Saunders. 6. Bloom, Benjamin S Ed, Taxonomy of Educational Objectives: cognitive Domain, David Mckay Co, Inc, 1956, New York. 7. Fuszard, Barbara, Innovating Teaching Strategies in Nursing, Aspen Publishers Inc, 1989, Maryland. 8. Gay L.R, Education and Measurement Competencies for Analysis and Application, Ion, Charles E. Merill Publishers Co., 1985, Columbus. 9. Guilbert J J. Educational Handbook for Health Personnel, World Health Organization,1982,Genva. 10. Guinee. Kathleen k, Teaching and Learning in Nursing, Macmillan, 1987, New York. 11. Joyce.B, Models of Teaching , Prentice Hall Inc, Englewood Cliffs, 1986, New Jersey 12. Keay F.E, A History of Education in India and Pakistan, Oxford University Press, 1964, London. 13. Modley Doris M, Advancing Nursing Education World Wide, Springer Publishing Co,1995,New York. 	

	<p>14. Neeraja K.P, Text Book of Nursing Education, Jaypee Brothers, new Delhi.</p> <p>*Latest editions of all the suggested books are recommended.</p>	
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Practical Internal Evaluation Scheme (50 Marks)

Sr. No.	Content	Marks
1	Practice Teaching (Total 5 Practice Teachings)	15
2	Learning resource material	10
3	Academic Planning	10
4	Tool Preparation	5
5	Conduct Workshop	10

Course Code: MSN102	Core Course -02	L-8 T-0 P-10 C-13
	M.Sc. Nursing	
	I Year	
	ADVANCE NURSING PRACTICE	
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.	
Course Outcomes:	At the end of the course, the students will be :	
CO1.	Understanding the health care delivery system and nursing as a profession.	
CO2.	Applying nursing theories, process and epidemiology in patient care.	
CO3.	Demonstrating skills of advance nursing practices in critical care unit.	
CO4.	Analyzing bio-psychosocial aspects of patients.	
CO5.	Evaluating holistic nursing care using Nursing process approach.	
CO6.	Evaluating holistic nursing care using Nursing process approach.	
Course Content:		
Unit-1:	<p>Introduction:</p> <p>Nursing as a Profession History of development of Nursing profession, characteristics, criteria of the profession, perspective of Nursing professional, 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.</p>	10 Hours
Unit-2:	<p>Health care delivery Health care environment, economics, constraints, planning process, policies, political process vis a 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. □</p>	5 Hours

	<p>Patterns of Nursing care delivery in India. Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of nongovernmental agencies. Information, education and communication (IEC). Tele-medicine.</p>	
Unit-3:	<p>Genetics 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.</p>	10 Hours
Unit-4:	<p>Epidemiology Scope, epidemiological approach and methods, Morbidity, of diseases and their screening, Application of epidemiology in health care delivery, Health surveillance and health informatics Role of Nurse.</p>	10 Hours
Unit-5:	<p>Bio-Psycho social pathology 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.</p>	20 Hours
Unit-6:	<p>Philosophy and Theories of Nursing 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,</p>	20 Hours

	<p>Watson Parsce, etc and their applications.</p> <p>Health belief models, communication and management, etc</p> <p>Concept of Self health.</p> <p>Evidence based practice model.</p>	
Unit :7	<p>Nursing process approach</p> <p>Health Assessment- illness status of patients/clients (Individuals, family, community), Identification of health illness problems, health behaviors, signs and symptoms of clients.</p> <p>Methods of collection, analysis and utilization of data relevant to Nursing Process.</p> <p>Formulation of nursing care plans, health goals, implementation modification and evaluation of care.</p>	10 Hours
Unit:8	<p>Psychological aspects and Human relations</p> <p>Human behavior, Life processes & growth and development, personality development, defense mechanisms, Communication, interpersonal relationships, individual and group dynamics, and organizational behavior,</p> <p>Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young & middle adult, and Older adult)</p> <p>Sexuality and sexual health.</p> <p>Stress and adaptation, crisis and its intervention, Coping with loss, death and grieving, Principles and techniques of Counseling.</p>	30 Hours
Unit:9	<p>Nursing practice</p> <p>Framework, scope and trends.</p> <p>Alternative modalities of care, alternative systems of health and complimentary therapies.</p> <p>Extended and expanded role of the Nurse, in promotive, preventive, curative and restorative health care delivery system in community and institutions.</p> <p>Health promotion and primary health care.</p> <p>Independent practice issues: - Independent Nurse-midwifery practitioner.</p> <p>Collaboration issues and models-within and outside Nursing.</p> <p>Models of Prevention, Family Nursing, Home Nursing, Gender sensitive issues and women empowerment.</p> <p>Disaster Nursing.</p> <p>Geriatric considerations in Nursing.</p> <p>Evidence based Nursing practice- best practices.</p> <p>Trans-cultural Nursing.</p>	10 Hours

<p style="text-align: center;">Unit:10</p>	<p style="text-align: center;">Computer applications for patient care delivery system and Nursing Practice</p> <p>□ Use of computers in teaching, learning, research and Nursing practice.</p> <p>Windows, MS office: Word, Excel, Power Point, □ □ Internet, literature search, Statistical packages,</p> <p>Hospital management information system: software. □</p> <p style="text-align: center;">Practical</p> <p>Clinical posting in the following areas:</p> <p>Specialty area – in – Patient unit- 2 weeks</p> <p>Community health center/PHC- 2 weeks</p> <p>Emergency/ICU - 2 weeks</p> <p style="text-align: center;">Activities</p> <p>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)</p> <p style="text-align: center;">Methods of Teaching</p> <p>Lecture cum discussion</p> <p>Seminar</p> <p>Panel discussion □</p> <p>Debate</p> <p>Case Presentations</p> <p>Exposure to scientific conferences</p> <p>Field visits</p> <p style="text-align: center;">Methods of evaluation:</p> <p>Tests □</p> <p>Presentation □</p> <p>Seminar □</p> <p>Written assignments</p> <p style="text-align: center;">Advance Nursing Procedures</p> <p>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.</p>	<p style="text-align: center;">25 Hours</p>
<p>Reference Books:</p>	<ol style="list-style-type: none"> 1. Potter A. P. & Perry A. G, <i>Fundamental of Nursing</i>, C. V. Mosby Co., 2005, St. Louis. 2. Kozier B. et al, <i>Fundamentals of Nursing Concepts, Process</i> 	

	<p><i>and Practice, Pearson Education, Inc, 2004.</i></p> <ol style="list-style-type: none"> 3. Brunner and Suddarth, <i>Text Book of Medical Surgical Nursing</i>, 2002. 4. Zwemer A, <i>Professional Adjustments and Ethics for Nurse in India</i>, BI publications, 1995, Bangalore. 5. Rosdhal, <i>Fundamentals of Nursing</i>, Lippincott Co., 2003. 6. Taylor Carol, et al, <i>Fundamentals of Nursing</i>, Lippincott Co., 2005. 7. Basavanthappa B. T, <i>Nursing Theories</i>, Jaypee Brothers, 2007, New Delhi. 8. Alligood M. R. & Tomey A. M, <i>Nursing Theory Utilization and Application</i>, Mosby, St. Louis. 9. Park J.E., <i>Text Book of Preventive and Social Medicine</i>, Bnarshidas Bhanot, Jabalpur. * <p>Latest editions of all the suggested books are recommended.</p>	
Practical		
	<p>Practical Clinical posting in the following areas:</p> <ul style="list-style-type: none"> • Specialty area- in-patient unit - 2 weeks • Community health center/PHC - 2 weeks • Emergency/ICU - 2 weeks 	
	<p>Activities</p> <ul style="list-style-type: none"> • 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 	
	<p>Methods of Teaching</p> <ul style="list-style-type: none"> • Lecture cum discussion • Seminar • Panel discussion • Debate • Case Presentations • Exposure to scientific conferences • Field visits 	
	<p>Methods of evaluation</p> <ul style="list-style-type: none"> • Tests • Presentation 	

	<ul style="list-style-type: none"> • Seminar • Written assignments 	
	<p>Advance nursing Procedures Definition, Indication and nursing implications;</p> <ul style="list-style-type: none"> • 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 	

Course Code: MSN103	Core Course -3	L-8 T-0 P-4 C-10
	M.Sc. Nursing	
	I Year	
NURSING RESEARCH AND STATISTICS		
Course Description:	The course is designed to assist the students to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of Nursing practice, education and management.	
Course Outcomes:	At the end of the course, the students will be:	
CO1.	Understanding the concepts, terms, approaches, and methods of data collection in nursing research.	
CO2.	Apply appropriate design and sampling technique in nursing research.	
CO3.	Analyzing research data, interpreting and utilizing the findings from health related research.	
CO4.	Evaluating various methods of data collection and tools.	
CO5.	Prepare the research project.	
Course Content:		
Unit-1:	Introduction: <ul style="list-style-type: none"> • Methods of acquiring knowledge – problem solving and scientific method. • Research – Definition, characteristics, purposes, kinds of research Historical Evolution of research in Nursing • Basic research terms • Scope of Nursing research: areas, problems in Nursing, health and social research • Concept of evidence based practice. • Ethics in research. • Overview of Research process 	10 Hours
Unit-2:	Review of Literature <ul style="list-style-type: none"> • Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature. 	5 Hours
Unit-3:	Research Approaches and designs <ul style="list-style-type: none"> • Type: Quantitative and Qualitative • Historical, survey and experimental –Characteristics, types 	12 Hours

	<p>advantages and disadvantages</p> <ul style="list-style-type: none"> • Qualitative: Phenomenology, grounded theory, ethnography 	
Unit-4:	<p>Research problem:</p> <ul style="list-style-type: none"> • Identification of research problem • Formulation of problem statement and research Objectives: • Definition of terms • Assumptions and delimitations • Identification of variables • Hypothesis – definition, formulation and types. 	10 Hours
Unit-5:	<p>Developing theoretical/conceptual framework.</p> <ul style="list-style-type: none"> • Theories: Nature, characteristics, Purpose and uses • Using, testing and developing conceptual framework, models and theories. 	5 Hours
Unit-6:	<p>Sampling</p> <ul style="list-style-type: none"> • Population and sample • Factors influencing sampling • Sampling techniques • Sample size • Probability and sampling error • Problems of sampling 	6 Hours
Unit:7	<p>Concepts of data collection</p> <ul style="list-style-type: none"> • Data sources, methods/techniques quantitative and qualitative. • Tools for data collection – types, characteristics and their development • Validity and reliability of tools • Procedure for data collection 	20 Hours
Unit:8	<p>Implementing research plan</p> <ul style="list-style-type: none"> • Pilot Study, review research plan (design), planning for data collection, Administration of tool /interventions, collection of data 	5 Hours
Unit:9	<p>Analysis and interpretation of data</p> <ul style="list-style-type: none"> • Plan for data analysis: quantitative and qualitative • Preparing data for computer analysis and presentation. • Statistical analysis • Interpretation of data • Conclusion and generalizations • Summary and discussion 	10 Hours

Unit:10	Reporting and utilizing research findings: <ul style="list-style-type: none"> • Communication of research results; oral and written • Writing research report purposes, methods and style Vancouver, American Psychological Association (APA), Campbell etc. • Writing scientific articles for publication: purposes & style 	10 Hours
Unit:11	Critical analysis of research reports and articles	3 Hours
Unit:12	Developing and presenting a research proposal	4 Hours
	Activities: <ul style="list-style-type: none"> • Annotated Bibliography of research reports and articles. • Review of literature of selected topic and reporting • Formulation of problem statement, objective and hypothesis • Developing theoretical/conceptual framework. • Preparation of a sample research tool • Analysis and interpretation of given data • Developing and presenting research proposal • Journal club presentation • Journal club presentation • Critical evaluation of selected research studies • Writing a scientific paper. 	
	Method of Teaching <ul style="list-style-type: none"> • Lecture-cum-discussion • Seminar/Presentations • Project • Class room exercises 	
	Methods of Evaluation <ul style="list-style-type: none"> • Quiz, Tests (Term) • Assignments/Term paper • Presentations • Project work 	
	Internal Assessment Techniques Weightage (15marks)	
Part –B: Statistics		
Course Description:	At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in Nursing.	

Course Outcomes:	At the end of the course, the students will be:	
CO1.	Explain the basic concepts related to statistics	
CO2.	Describe the scope of statistics in health and Nursing	
CO3.	Organize tabulate and present data meaningfully.	
CO4.	Use descriptive and inferential statistics to predict results.	
CO5.	Draw conclusions of the study and predict statistical significance of the results.	
CO6.	Describe vital health statistics and their use in health related research.	
CO7.	Use statistical packages for data analysis	
Unit I	Introduction: <ul style="list-style-type: none"> • Concepts, types, significance and scope of statistics, meaning of data, • Sample, parameter • Type and levels of data and their measurement • Organization and presentation of data – Tabulation of data; • Frequency distribution • Graphical and tabular presentations. 	7 Hours
Unit II	Measures of central tendency: <ul style="list-style-type: none"> • Mean, Median, Mode 	4 Hours
Unit III	Measures of variability; <ul style="list-style-type: none"> • Range, Percentiles, average deviation, quartile deviation, standard deviation 	4 Hours
Unit IV	Normal Distribution: <ul style="list-style-type: none"> • Probability, characteristics and application of normal probability curve; sampling error. 	3 Hours
Unit V	Measures of relationship: <ul style="list-style-type: none"> • Correlation – need and meaning • Rank order correlation • Scatter diagram method • Product moment correlation • Simple linear regression analysis and prediction 	6 Hours

Unit VI	Designs and meaning: <ul style="list-style-type: none"> • Experimental designs • Comparison in pairs, randomized block design, Latin squares. 	5 Hours
Unit VII	Significance of Statistic and Significance of difference between two Statistics (Testing hypothesis) <ul style="list-style-type: none"> • Non parametric test – Chi-square test, Sign, median test, Mann Whitney test. • Parametric test – ‘t’ test, ANOVA, MANOVA, ANCOVA 	8 Hours
Unit VIII	Use of statistical methods in psychology and education: <ul style="list-style-type: none"> • Scaling – Z score, Z Scaling • Standard Score and T Score • Reliability of test Scores: test-retest method, parallel forms, split half method. 	5 Hours
Unit IX	Application of statistics in health: <ul style="list-style-type: none"> • Ratios, Rates, Trends • Vital health statistics – Birth and death rates. • Measures related to fertility, morbidity and mortality 	4 Hours
Unit X	Use of Computers for data analysis <ul style="list-style-type: none"> • Use of statistical package. 	4 Hours
	Activities <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Lecture-cum-discussion • Demonstration – on data organization, tabulation, calculation of statistics, use of statistical package, Classroom exercises, organization and tabulation of data. • Computing Descriptive and inferential statistics; vital and health statistics and use of computer for data entry and analysis using statistical package. 	
	Methods of Evaluation <ul style="list-style-type: none"> • Test, Classroom statistical exercises. • Techniques Weightage (10marks) 	
Reference Books:	1. Basavanthappa, B.T, <i>Nursing Research</i> , Jaypee Brothers, 2003, New Delhi. 2. Mahajan, B.K, <i>Methods in Biostatistics</i> , Jaypee Brothers, 1999, New Delhi.	

3. Rose Hott & Budin. Notter's, *Essentials of Nursing Research*, spinger publisher, 1999, New York.
 4. Patricial Nunhall. *Nursing Research*, James & Bar, 2001, Canada.
 5. Caroly M.H, *Research Methods for Clinical Therapists Applied Project Design and Analysis*, 1999, Churchill Livingstone.
 6. P.K. Indrani, T.K, *Research Methods for Nurses*. Jayppe brothers, 2005.
 7. Clifford et al, *Getting Research into Practice*, Churchill Livingstone, 2004, New York.
 8. Freshwater D. & Bishop V, *Nursing Research in Context*, Palgrave Macmillan, 2004, New York.
 9. Macnee C. L, *Understanding Nursing Research: Reading & Using Research in Practice*, Lippincott Williams, Wilinks, 2004, London.
 10. Polit, D.F. & Bleck C.T, *Nursing Research Principles & Methods*, LippincottWilliams Wilkins, 2004, New York.
 11. Polit, Bleck & P. Hungler, *Nursing Research Methods, Appraisal & Utilization*,2001, Lippincott.
 12. Specials & Carpenter, *Qualitative Research in Nursing Advancing the Humanistic Imperative*, Lippincott Williams. 2007
- * Latest editions of all the suggested books are recommended
- Journals:**
1. *Journal of nursing practice and research*.
 2. *Indian journal of medical ethics*
- For this course the distribution of marks in question paper will be
Nursing Research= 50 marks & Statistics =25**

Course Code: MSN104	Discipline Specific Course-1 M.Sc. Nursing I Year MEDICAL SURGICAL NURSING I	L-8 T-0 P-0 C-8
Course Outcome:	At the end of the course, the students will be:	
CO-1.	Understanding concepts, theories, trends & issues in the field of Medical Surgical Nursing as a specialty.	
CO-2.	Applying concepts & theories related to health care setting	
CO-3.	. Demonstrating skills in health assessment and nursing care procedures in providing care to patients.	
CO-4.	Analyzing various technologies & treatment modalities in the management of critically ill patients.	
CO-5.	Evaluating evidence-based Nursing practice and identifying the areas of research in the field of Medical Surgical Nursing.	
CO-6.	. Creating modules for nursing care in the management of critically ill patients.	
Course Content:		
Unit I	<p>Introduction:</p> <ul style="list-style-type: none"> • Historical development of Medical- Surgical Nursing in India. • Current status of health and disease burden in India. • Current concept of health. • Trends & issues in Medical – Surgical Nursing. Ethical & cultural issues in Medical – Surgical Nursing. • Rights of patients. • National health policy, special laws & ordinances relating to older people. • National goals. • Five year plans. • National health programs related to adult health. 	5 Hours
Unit II	<p>Health Assessment of Patients</p> <ul style="list-style-type: none"> • History taking. □ • Physical examination of various systems. □ • Nutritional assessment. □ • Related investigations and diagnostic assessment 	20 Hours
Unit III	<p>Care in Hospital settings:</p> <ul style="list-style-type: none"> • Ambulatory care. □ • Acute and Critical care. □ • Long term care. □ • Home health care. • Characteristics, care models, practice settings, 	5 Hours

	<p>interdisciplinary team. Hospitalization- effects of hospitalization on the patient & family.</p> <ul style="list-style-type: none"> • Stressors & reactions related to disease process. • Nursing care using Nursing process approach. 	
Unit IV	<p>Management of Patients with Disorders of Gastro Intestinal Tract</p> <p>Review of Anatomy and Physiology</p> <ul style="list-style-type: none"> • Common Disorders-etiology, pathophysiology, Clinical manifestations, complications, prognosis. • Health assessment- History taking, physical examination, investigation and diagnostic assessment. Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. □ 	10 Hours
Unit V	<p>Management of Patients with Disorders of Nervous System</p> <p>Review of Anatomy and Physiology.</p> <ul style="list-style-type: none"> • Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. 	10 Hours
Unit VI	<p>Management of Patients with Disorders of Respiratory System</p> <p>Review of Anatomy and Physiology.</p> <ul style="list-style-type: none"> • Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. 	10 Hours
Unit VII	<p>Management of Patients with Disorders of Cardio Vascular System</p> <p>Review of Anatomy and Physiology.</p> <ul style="list-style-type: none"> • Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. 	10 Hours

	<ul style="list-style-type: none"> • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. 	
Unit VIII	Management of Patients with Disorders of Blood Review of Anatomy and Physiology. <ul style="list-style-type: none"> • Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based Nursing practice • Rehabilitation and follow-up 	5 Hours
Unit IX	Management of Patients with Disorders of Genito-Urinary System Review of Anatomy and Physiology. <ul style="list-style-type: none"> • Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. • Treatment modalities and trends • . Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. 	10 Hours
Unit X	Management of Patients with Disorders of Endocrine System Review of Anatomy and Physiology. <ul style="list-style-type: none"> • Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. 	10 Hours
Unit XI	Management of Patients with Disorders of Musculo-Skeletal System Review of Anatomy and Physiology. <ul style="list-style-type: none"> • Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. • Treatment modalities and trends. 	10 Hours

	<ul style="list-style-type: none"> • Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. 	
Unit XII	<p>Management of patients with Disorders of Integumentary system</p> <p>Review of Anatomy and Physiology.</p> <ul style="list-style-type: none"> • Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. 	8 Hours
Unit XIII	<p>Management of Patients with Disorders of Eye and ENT</p> <p>Review of Anatomy and Physiology.</p> <ul style="list-style-type: none"> • Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. 	5 Hours
Unit XIV	<p>Management of Patients with Disorders of Reproductive System</p> <p>Review of Anatomy and Physiology.</p> <ul style="list-style-type: none"> • Common Disorders- etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. 	8 Hours
Unit XV	<p>Geriatric Nursing</p> <p>Nursing Assessment-History and physical assessment.</p> <ul style="list-style-type: none"> • Ageing; • Demography; Myths and realities. • Concepts and theories of ageing. • Cognitive aspects of ageing. • Normal biological ageing. • Age related body systems changes. 	8 Hours

	<ul style="list-style-type: none"> • Psychosocial aspects of aging. • Medications and elderly. • Stress & coping in older adults. • Common health problems & Nursing management; • Psychosocial and Sexual. • Abuse of elderly persons. • Role of Nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual. • Role of Nurse for caregivers of elderly. • Role of family and formal and non formal caregivers. • Use of aids and prosthesis (hearing aids, dentures, • Legal & Ethical Issues. • Provisions and programmes for elderly; privileges, Community programmes and health services. • Home and institutional care. • Issues, problems and trends. 	
Unit XVI	<p>Management of Patients with Communicable and Sexually Transmitted Diseases:</p> <p>Review of immune system.</p> <ul style="list-style-type: none"> • Common Disorders of immune system – HIV/AIDS. • Review of infectious disease process. • Communicable Diseases- etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. 	8 Hours
Unit XVII	<p>Emergency, Trauma and Multi-System Organ Failure DIC (disseminated intravascular coagulation)</p> <ul style="list-style-type: none"> • Trauma, burns, poisoning • Etiology, pathophysiology, clinical manifestations, complications, prognosis. • Health assessment-History taking, physical examination, investigation and diagnostic assessment. • Treatment modalities and trends. • Nursing management. • Related research studies. • Evidence based Nursing practice. • Rehabilitation and follow-up. □ 	8 Hourss
Reference Books:	<ol style="list-style-type: none"> 1. Black M.J. & Hawks H.J, Medical Surgical Nursing, Clinical Management for Positive Outcome, Sauders, Elsevier. 2. Urban, A.N. & Greenlac K.K, Guidelines for Critical 	

	<p>Care Nursing, Mosby.</p> <ol style="list-style-type: none">3. Wood L.S. & Frelicher S.E, Fetal Cardiac Nursing, Lippincott Williams & Wilkings.4. Baughman Diane C, Hand Book for Surgical Nursing, Lipincott, NewYork.5. Philip & Wilma J, Medical- Surgical Nursing, B.T Pubn Bangalore.6. Richardved Lee, Medical Case of the Pregnant Patient, American College, Philadelphia	
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Course code MSN151	Skill Enhancement Course -01	L-0 T-0 P-30 C-8
	M.Sc. Nursing	
	I Year	
	MEDICAL SURGICAL NURSING I (P)	
CO-1.	Applying concepts & theories related to health care setting	
CO-2.	Demonstrating skills in health assessment and nursing care procedures in providing care to patients.	
CO-3.	Analyzing various technologies & treatment modalities in the management of critically ill patients.	
CO-4.	Evaluating evidence-based Nursing practice and identifying the areas of research in the field of Medical Surgical Nursing.	
CO-5.	Creating modules for nursing care in the management of critically ill patients.	
	<ul style="list-style-type: none"> • During the clinical training a student is supposed to presents the Clinical cases on different disease conditions • Student is supposed to collect the History from client and his family regarding the disease condition • Student is supposed to perform the through Health Assessment of the client • Student is supposed to perform Nutritional Assessment of the client • Student is supposed to educate the client as well as family members regarding disease conditions and its prevention. • During the clinical training a student is supposed to write the case study on different disease conditions • During the clinical training a student is supposed to write a research project related to area of his or her specialization. • Field visits • Maintenance of log book for various activities 	

Course Code: TMUPS101	Value Added Course -1	L-2
	M.Sc. Nursing	T-1
	I Year	P-0
	MANAGING SELF	C-0
Course Perspective	In this course, students will be taught to develop and become team player for creativity and innovation in organization they work. Students will be taught methods to develop cordial relation using “Johari Window”, which will help them in managing change in their organizations. Since they would be entering in the world of work, Special emphasis is also given to manners, etiquettes, negotiation, stress and conflict management. Finally, students will be rigorously prepared facing various selection tools like – GD, PI and resume preparation.	
Course Outcomes	At the end of the semester, the learner will be able to:	
CO1.	Communicating effectively in a variety of public and interpersonal settings.	
CO2.	Applying concepts of change management for growth and development by understanding inertia of change and mastering the Laws of Change.	
CO3.	Analyzing scenarios, synthesizing alternatives and thinking critically to negotiate, resolve conflicts and develop cordial interpersonal relationships.	
CO4.	Functioning in a team and enabling other people to act while encouraging growth and creating mutual respect and trust.	
CO5.	Handling difficult situations with grace, style, and professionalism.	
Course Contents:		
Unit – I	Personal Development <ul style="list-style-type: none"> • Personal growth and improvement in personality • Perception • Positive attitude • Values and Morals • High self motivation and confidence • Grooming 	
Unit – II	Professional Development <ul style="list-style-type: none"> • Goal setting and action planning • Effective and assertive communication • Decision making • Time management • Presentation Skills 	

	<ul style="list-style-type: none"> • Happiness, risk taking and facing unknown 																												
Unit – III	Career Development <ul style="list-style-type: none"> • Resume Building • Occupational Research • Group discussion (GD) and Personal Interviews 																												
Evaluation Scheme:																													
	Faculty led Continuous Evaluation <ul style="list-style-type: none"> • Students will be evaluated on the score of 100 in every course. Evaluation of soft skill will follow continuous evaluation method. 																												
	<u>Details are as follows:</u> <ol style="list-style-type: none"> Total Marks for each semester 100 <ol style="list-style-type: none"> Internal: 40 marks for Class Performance (Every class activity will carry 8 marks; each students can participate in maximum of 8 activities). External: 40 marks for External evaluation at the time of external exams (Based on GD and PIs). Attendance: 10 marks for Attendance in the training sessions <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>S No</th> <th>% Attendance <</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>30</td> <td>0</td> </tr> <tr> <td>2.</td> <td>30-40</td> <td>2</td> </tr> <tr> <td>3.</td> <td>40-50</td> <td>4</td> </tr> <tr> <td>4.</td> <td>50-60</td> <td>5</td> </tr> <tr> <td>5.</td> <td>60-70</td> <td>6</td> </tr> <tr> <td>6.</td> <td>70-80</td> <td>7</td> </tr> <tr> <td>7.</td> <td>80-90</td> <td>8</td> </tr> <tr> <td>8.</td> <td>90-100</td> <td>10</td> </tr> </tbody> </table> <p>In a summary,</p> <p>100 marks = 40(Class performance) + 50(External) + 10(Attendance)</p>		S No	% Attendance <	Marks	1.	30	0	2.	30-40	2	3.	40-50	4	4.	50-60	5	5.	60-70	6	6.	70-80	7	7.	80-90	8	8.	90-100	10
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5.	60-70	6																											
6.	70-80	7																											
7.	80-90	8																											
8.	90-100	10																											
REFERENCE	<ul style="list-style-type: none"> • Robbins, Stephen P., Judge, Timothy A., Vohra, Neharika, Organizational 																												

	<p>Behaviour (2018), 18th ed., Pearson Education</p> <ul style="list-style-type: none">• Tracy, Brian, Time Management (2018), Manjul Publishing House• Hill, Napoleon, Think and grow rich (2014), Amazing Reads• Scott, S.J., SMART goals made simple (2014), Createspace Independent Pub• https://www.hloom.com/resumes/creative-templates/• https://www.mbauniverse.com/group-discussion/topic.php• Rathgeber, Holger, Kotter, John, Our Iceberg is melting (2017), Macmillan• Burne, Eric, Games People Play (2010), Penguin UK <p>https://www.indeed.com/career-advice/interviewing/job-interview-tips-how-to-make-a-great-impression</p>
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Course Code: MSN201	Core Course -4	L-8
	M.Sc. Nursing	T-0
	II Year	P-8
	NURSING MANAGEMENT	C-12
Course Description:	This course is designed to assist students to develop a broad understanding of Principles, concepts, trends and issues related to Nursing Management. Further, it would provide opportunity to students to understand, appreciate and acquire skills in planning, supervision and management of nursing services at different levels to provide quality Nursing services.	
Course Outcomes:	On completion of the course, the students will be :	
CO1.	Understanding the philosophy and objectives of the health care institutions at various levels and principles of administration in nursing.	
CO2.	Applying the public administration, health care administration vis a vis nursing administration and organization of health and nursing services at the various levels/institutions.	
CO3.	Demonstrating the leadership in nursing at various levels.	
CO4.	Analyzing and Identify the legal and ethical issues in nursing administration and trends and issues in nursing.	
CO5.	Evaluate the planning, supervision and management of nursing workforce for various health care settings and the process of quality assurance in nursing services.	
CO6.	Create various collaborative models between nursing education and nursing service to improve the quality of nursing care.	
Course Content:		
Unit-1:	Introduction: Philosophy, purpose, elements, principles and scope of Administration Indian Constitution, Indian Administrative system vis a vis health care delivery system: National, State and Local Organization and functions of Nursing services and education at National, State, District and institutions: Hospital and Community Planning process: Five year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans.	10 Hours
Unit-2:	Management Functions of Administration Planning and control Co-ordination and delegation Decision making – decentralization basic goals of decentralization. Concept of management	10 Hours

	<p>Nursing management: Concept, types, principles and techniques Vision and Mission Statements Philosophy, aims and objective Current trends and issues in Nursing Administration Theories and models Application to nursing service and education</p>	
Unit-3:	<p>Planning: Planning process: Concept, Principles, Institutional policies Mission, philosophy, Objectives: Strategic planning Operational plans Management plans Programme evaluation and review technique (PERT), Gantt chart, Management by Objectives :(MBO). Planning new venture Planning for change Innovations in Nursing Application to Nursing service and education</p>	15 Hours
Unit-4:	<p>Organization: Concept, Principles, Objectives: Types and theories, Minimum requirements for organisation, Developing an organizational Structure, levels, organizational Effectiveness and organizational Climate, Organising Nursing services and patient care: Methods of patient assignment- Advantages and disadvantages, primary Nursing care, Planning and Organising: hospital, unit and ancillary services (specifically central sterile supply department, laundry, kitchen, laboratory services, emergency etc) Disaster management: plan, resources, drill, etc Application to Nursing service and Education</p>	15 Hours
Unit-5:	<p>Human Resource for health: Staffing Philosophy Norms: Staff inspection unit (SIU), Bajaj Committee, High power committee, Teerthanker Mahaveer College of Nursing (TMCON) Estimation of Nursing staff requirement- activity analysis Various research studies Recruitment: credentialing, selection, placement, promotion Retention Personnel policies</p>	15 Hours

	Termination Staff development programme Duties and responsibilities of various category of Nursing personnel Applications to Nursing service and education	
Unit-6:	Directing: Roles and functions Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories Communication : process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations Delegation; common delegation errors Managing conflict: process, management, negotiation, consensus Collective bargaining: health care labour laws, unions, professional associations, role of Nurse manager Occupational health and safety Application to Nursing service and education	15 Hours
Unit-7:	Material management: Concepts, principles and procedures Planning and procurement procedures: Specifications ABC analysis, VED (very important and essential daily use) analysis Planning equipments and supplies for Nursing care: unit and hospital Inventory control Condemnation Application to Nursing service and education	10 Hours
Unit-8:	Controlling: Quality assurance – Continuous Quality Improvement • Standards • Models • Nursing audit Performance appraisal: Tools, confidential reports, formats, Management, interviews Supervision and management: concepts and principles Discipline: service rules, self discipline, constructive versus destructive discipline, problem employees, disciplinary proceeding enquiry etc. Self evaluation or peer evaluation, patient satisfaction, utilization review Application to Nursing service and education	15 Hours

Unit-9:	<p>Fiscal planning:</p> <ul style="list-style-type: none"> • Steps • Plan and non-plan, zero budgeting, mid-term appraisal, capital and revenue • Budget estimate, revised estimate, performance budget Audit • Cost effectiveness • Cost accounting • Critical pathways • Health care reforms • Health economics • Health insurance • Budgeting for various units and levels. <p>Application to Nursing service and education</p>	15 Hours
Unit-10:	<p>Nursing informatics</p> <p>Trends</p> <p>General purpose</p> <p>Use of computers in hospital and community</p> <p>Patient record system</p> <p>Nursing records and reports</p> <p>Management information and evaluation system (MIES)</p> <p>E- Nursing, Telemedicine, tele – Nursing</p> <p>Electronic medical records</p>	10 Hours
Unit-11:	<p>Leadership:</p> <p>Concepts, Types, Theories</p> <p>Manager behavior</p> <p>Leader behavior</p> <p>Effective leader: Characteristics, skills</p> <p>Group dynamics</p> <p>Power and politics</p> <p>Lobbying</p> <p>Critical thinking and decision making</p> <p>Stress management</p> <p>Applications to Nursing service and education</p>	10 Hours

Unit-12:	Legal and ethical issues Laws and ethics Ethical committee Code of ethics and professional conduct Legal system: Types of law, tort law, and liabilities Legal issues in Nursing: negligence, malpractice, invasion of privacy, defamation of character Patient care issues, management issues, employment issues Medico legal issues Nursing regulatory mechanisms: licensure, renewal, accreditation Patients rights, Consumer protection act (CPA) Rights of special groups: children, women, HIV, handicap, ageing Professional responsibility and accountability Infection control Standard safety measures	10 Hours
PRACTICALS		
1	Prepare prototype personal files for staff Nurses, faculty and cumulative records	
2	1.Preparation of budget estimate, revised estimate and performance budget	
3	Plan and conduct staff development program	
4	Preparation of Organization Chart	
5	Developing Nursing standards/protocols for various units	
6	Design a layout plan for specialty units /hospital, community and educational institutions.	
7	Preparation of job description of various categories of nursing personnel	
8	Prepare a list of equipments and supplies for specialty units.	
9	Assess and prepare staffing requirement for hospitals, community and educational institutions.	
10	Plan of action for recruitment process	
11	Prepare a vision and mission statement for hospital, community and educational institutions	
12	Prepare a plan of action for performance appraisal	
13	3. Identify the problems of the speciality units and develop plan of action by using problem solving approach	
14	Prepare: anecdotes, incident reports, day and night reports, handing and taking over reports, enquiry reports, Nurses notes, Official letters, curriculum vitae, presentations etc.	

15	Prepare a plan for disaster management	
16	Group work	
17	Field appraisal report	
<u>Reference Books:</u>	<ol style="list-style-type: none"> 1. Goel S.L., Health Care Administration, Seterling, New Delhi. 2. Jean Barrett, Ward Management and Teaching, Himalayan Books, New Delhi. 3. Goyal R.C., Hospital Personal Management, Prentice Hall India, New Delhi. 4. Awasthi, Public Administration, Makeswar, Pub. Laxmi Narayan Agarwal. 1987, Agra. <p>* Latest editions of all the suggested books are recommended.</p>	

Course Code: MSN202	Discipline Specific Elective Course-1	L-8 T-0 P-0 C-8
	M.Sc. Nursing II YEAR CARDIOVASCULAR AND THORACIC NURSING	
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. Design a layout of ICCU and ICTU and develop standards for cardio vascular and thoracic Nursing practice.	
Course Outcomes:	On completion of the course, the students will be :	
CO1.	Understanding the development, concepts, principles, trends, ethical & legal framework with nursing perspective in cardio-vascular & thoracic nursing.	
CO2.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in cardio-vascular & thoracic nursing.	
CO3.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of cardio-vascular & thoracic clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO4.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
CO5.	Evaluating holistic, competent & culturally congruent nursing care following principles & theories of nursing science.	
CO6.	Creating innovation in nursing practice by evidenced based interventions & research utilization in care of cardio-vascular & thoracic clients.	
Course Content:		
Unit-1:	Introduction: <ul style="list-style-type: none"> • Historical development, trends and issues in the field of cardiology • Cardio vascular and thoracic conditions – major health problem. • Concepts, principles and nursing perspectives • Ethical and legal issues 	5 Hours

	<ul style="list-style-type: none"> Evidence based Nursing and its application in cardio vascular and thoracic nursing (To be incorporated in all the units) 	
Unit-2:	<p>Epidemiology:</p> <ul style="list-style-type: none"> Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc. Health promotion, disease prevention, Life style modification National health programs related to cardio vascular and thoracic conditions Alternate system of medicine Complementary therapies 	5 Hours
Unit-3:	<p>Review of anatomy and physiology of cardio vascular and respiratory system:</p> <ul style="list-style-type: none"> Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung. Coronary circulation Hemodynamic and electro physiology of heart. Bio-chemistry of blood in relation to cardio pulmonary function. 	5 Hours
Unit-4:	<p>Assessment and Diagnostic Measures:</p> <ul style="list-style-type: none"> History taking Physical assessment Heart rate variability: Mechanisms, measurements, pattern, factors, impact of intervention on HRV Diagnostic tests Hemodynamic monitoring: Technical aspects, monitoring, functional hemodynamic indices, ventricular function indices, output measurements (Arterial and swan Ganz monitoring). Blood gases and its significance, oxygen supply and demand Radiologic examination of the chest: interpretation, chest film findings Electro cardiography(ECG) : electrical conduction through the heart, basic electrocardiography 12 lead electrocardiogram, axis determination - ECG changes in: intraventricular conduction abnormalities- Arrhythmias, ischemia, injury and infarction, atrial and ventricular enlargement, electrolyte imbalance, Echocardiography: technical aspects, special techniques, echocardiography of cardiac structures in health and disease, newer techniques Nuclear and other imaging studies of the heart: Magnetic 	20 Hours

	<p>Resonance Imaging.</p> <ul style="list-style-type: none"> • Cardio electrophysiology procedures: diagnostic studies, interventional and catheter ablation, Nursing care • Exercise testing: indications and Objectives:, safety and personnel, pretest considerations, selection, interpretation, test termination, recovery period • Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data • Pulmonary function test: Bronchoscope and graphics Interpretation of diagnostic measures <p>Nurse's role in diagnostic tests</p> <ul style="list-style-type: none"> • Laboratory tests using blood: Blood specimen collection, Cardiac markers, Blood lipids, • Hematologic studies, Blood cultures, Coagulation studies, Arterial blood gases, Blood Chemistries, cardiac enzyme studies, Serum Concentration of Selected drugs. • Interpretation and role of Nurse 	
Unit-5:	<p>Cardiac disorders and Nursing management: Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and Nursing management of:</p> <ul style="list-style-type: none"> • Hypertension • Coronary Artery Disease. • Angina of various types. • Cardiomegaly • Heart Failure, Pulmonary Edema, Shock. • Rheumatic heart disease and other Valvular Diseases • Inflammatory Heart Diseases, Infective Endocarditis, Myocarditis, Pericarditis. • Cardiomyopathy, dilated, restrictive, hypertrophic. • Arrhythmias, heart block associated illnesses 	25 Hours
Unit-6:	<p>Altered pulmonary conditions: Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and Nursing management of:</p> <ul style="list-style-type: none"> • Bronchitis • Bronchial asthma • Bronchiectasis • Pneumonia • Lung abscess, lung tumor • Pulmonary tuberculosis, fibrosis, pneumoconiosis etc • Pleuritis, effusion 	10 Hours

	<ul style="list-style-type: none"> • Pneumo, haemo and pyothorax • Interstitial Lung Disease • Cystic fibrosis • Acute and Chronic obstructive pulmonary disease (conditions leading to) • Corpulmonale • Acute respiratory failure • Adult respiratory distress syndrome • Pulmonary embolism • Pulmonary Hypertension 	
Unit-7:	<p>Vascular disorders and Nursing management: Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and Nursing management of:</p> <ul style="list-style-type: none"> • Disorders of arteries • Disorders of the aorta • Aortic Aneurysms • Aortic dissection • Raynaud's phenomenon • Peripheral arterial disease of the lower extremities • Venous thrombosis • Varicose veins • Chronic venous insufficiency and venous leg ulcers • Pulmonary embolism 	10 Hours
Unit-8:	<p>Cardio thoracic emergency interventions:</p> <ul style="list-style-type: none"> • CPR- BLS and ALS • Use of ventilator, defibrillator, pacemaker • Post resuscitation care. • Care of the critically ill patients • Psychosocial and spiritual aspects of care • Stress management; ICU psychosis • Role of Nurse 	10 Hours
Unit-9:	<p>Nursing care of a patient with obstructive airway:</p> <ul style="list-style-type: none"> • Assessment • Use of artificial airway • Endotracheal intubation, tracheostomy and its care • Complication, minimum cuff leak, securing tubes <p>Oxygen delivery systems</p> <ul style="list-style-type: none"> • Nasal Cannula 	10 Hours

	<ul style="list-style-type: none"> • Partial rebreathing bag • Oxygen mask, Venturi mask • Bi-PAP and C-PAP masks • Uses, advantages, disadvantages, nursing implications of each. <p>Mechanical Ventilation:</p> <ul style="list-style-type: none"> • Principles of mechanical ventilation • Types of mechanical ventilation and ventilators. • Modes of ventilation, advantage, disadvantage, complications. • PEEP therapy, indications, physiology, and complications. Weaning off the ventilator • Nursing assessment and interventions of ventilated patient. 	
<p>Unit-10:</p>	<p>Congenital Heart Diseases: Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and Nursing management of:</p> <ul style="list-style-type: none"> • Embryological development of heart. • Classification – cyanotic and acyanotic heart disease. • Tetralogy of Fallots. • Atrial Septal Defect, Ventricular Septal Defect., Eisenmenger’s complex. • Patent ductus arteriosus, AP window • Truncus Arteriosus. • Transposition of great arteries. • Total Anomaly of Pulmonary Venous Connection. • Pulmonary stenosis, atresia. • Coarctation of aorta. • Ebstein’s anomaly • Double outlet right ventricle, Single ventricle, Hypoplastic left heart syndrome. 	<p>10 Hours</p>
<p>Unit-11:</p>	<p>Pharmacology: Review</p> <ul style="list-style-type: none"> • Pharmacokinetics • Analgesics/Anti inflammatory agents • Antibiotics, antiseptics • Drug reaction & toxicity • Drugs used in cardiac emergencies • Blood and blood components • Antithrombolytic agents • Inotropic agents 	<p>10 Hours</p>

	<ul style="list-style-type: none"> • Beta-blocking agents • Calcium channel blockers. • Vaso constrictors • Vaso dilators • ACE inhibitors. • Anticoagulents • Antiarrhythmic drugs. • Anti hypertensives • Diuretics • Sedatives and tranquilizers. • Digitalis. • Antilipemics • Principles of drug Administration, role and responsibilities of Nurses and care of Drugs 	
Unit-12:	<p>Nursing Care of patient undergoing cardio thoracic surgery</p> <ul style="list-style-type: none"> • Indications, selection of patient • Preoperative assessment and preparation; counseling. • Intraoperative care: Principles of open heart surgery, equipment, anesthesia, cardiopulmonary bypass. • Surgical procedures for Coronary Artery Bypass Grafting, recent advances and types of grafts, Valve replacement or reconstruction, cardiac transplant, Palliative surgery and different Stents, vascular surgery, other recent advances. • Thoracic surgery: lobotomy, pneumonectomy, tumor excision etc • Immediate postoperative care: assessment, post operative problems and interventions: Bleeding, Cardiac tamponade, Low cardiac output, Infarction, Pericardial effusion, Pleural effusion, Pneumothorax, Haemothorax, Coagulopathy, • Thermal imbalance, inadequate, ventilation/perfusion, Neurological problems, renal problems, Psychological problems. • Chest physiotherapy • Nursing interventions- life style modification, complementary therapy / alternative systems of medicine. • Intermediate and late post operative care after CABG, valve surgery, others. Follow up care 	20 Hours
Unit-13:	<p>Cardiac rehabilitation:</p> <ul style="list-style-type: none"> • Process • Physical evaluation 	5 Hours

	<ul style="list-style-type: none"> • Life style modification • Physical conditioning for cardiovascular efficiency through exercise Counseling • Follow up care 	
Unit-14:	<p>Intensive Coronary Care Unit/intensive cardio thoracic unit:</p> <ul style="list-style-type: none"> • Quality assurance • Standards, Protocols, Policies, Procedures • Infection control; Standard safety measures • Nursing audit • Design of ICCU/ICTU • Staffing; cardiac team • Burn out syndrome <p>Nurse's role in the management of I.C.C.U and ICTU.</p> <ul style="list-style-type: none"> • Mobile coronary care unit. • Planning in-service educational programme and teaching 	5 Hours
<u>Reference Books:</u>	<ol style="list-style-type: none"> 1. Black M.J., Hawks H.J, <i>Medical Surgical Nursing, Clinical Management for Positive Outcome</i>, Saunders, Elsevier. 2. Urban, A.N., Greenlac K.K, <i>Guidelines for Critical Care Nursing</i>, Mosby. 3. Wood L.S., Frelicher S.E, <i>Fetal Cardiac Nursing</i>, Lippincott Williams & Wilkins. 4. Gulanic, Klopp, Galnes, <i>Fetal Nursing Care Plans Nursing Diagnosis and intervention</i>. 5. Philip & Wilma J, <i>Medical- Surgical Nursing</i>, B.T Publication Bangalore. <p>* Latest editions of all the suggested books are recommended.</p>	

Course Code: MSN203	Discipline Specific Elective Course-1	L-8 T-0 P-0 C-8
	M.Sc. Nursing	
	II YEAR	
	CRITICAL CARE NURSING	
Course Description:	This course is designed to assist students in developing expertise and in-depth knowledge in the field of Critical care nursing. It will help students to develop advanced skills for nursing intervention in caring for critically ill patients. It will enable the student to function as critical care Nurse practitioner/ specialist. It will further enable the student to function as educator, manager and researcher in the field of Critical Care Nursing.	
CO1.	Understanding the development, concepts, principles, trends, ethical & legal framework with nursing perspective in critical care nursing.	
CO2.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in critical care nursing.	
CO3.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of critical clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO4.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
CO5.	Evaluating holistic, competent & culturally congruent nursing care following principles & theories of nursing science.	
CO6.	Creating innovation in nursing practice by evidenced based interventions & research utilization in care of critical care nursing.	
Course Content:		
Unit-1:	Introduction to Critical Care Nursing: <ul style="list-style-type: none"> • Historical review- Progressive patient care (PPC) • Review of anatomy and physiology of vital organs, fluid and electrolyte balance • Concepts of critical care nursing • Principles of critical care nursing • Scope of critical care nursing □ • Critical care unit set up including equipments supplies, use and care of various type of monitors & ventilators • Flow sheets 	5 Hours
Unit-2:	Concept of Holistic care applied to critical care nursing practice <ul style="list-style-type: none"> • Impact of critical care environment on patients:- • Risk factors, Assessment of patients, Critical care psychosis, 	10 Hours

	<p>prevention & Nursing care for patients affected with psychophysiological & psychosocial problems of critical care unit, caring for the patient's family, family teaching</p> <ul style="list-style-type: none"> • The dynamics of healing in critical care unit:-therapeutic touch, Relaxation, Music therapy, Guided Imagery, acupressure • Stress and burnout syndrome among health team members 	
Unit-3:	<p>Review:</p> <ul style="list-style-type: none"> • Pharmacokinetics • Analgesics/Anti inflammatory agents • Antibiotics, antiseptics • Drug reaction & toxicity • Drugs used in critical care unit (inclusive of ionotropic, life saving drugs) Drugs used in various body systems • IV fluids and electrolytes • Blood and blood components • Principles of drug Administration, role of the Nurse and care of drugs 	14 Hours
Unit-4:	<p>Pain Management:</p> <ul style="list-style-type: none"> • Pain & Sedation in Critically ill patients • Theories of pain, Types of pain, Pain assessment, Systemic responses to pain • Pain management-pharmacological and non-pharmacological measures • Placebo effect 	5 Hours
Unit-5:	<p>Infection control in intensive care unit:</p> <ul style="list-style-type: none"> • Nosocomial infection in intensive care unit; methyl resistant staphylococcus aureus (MRSA), Disinfection, Sterilization, Standard safety measures, Prophylaxis for staff 	5 Hours
Unit-6:	<p>Gastrointestinal System:</p> <ul style="list-style-type: none"> • Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Gastrointestinal Bleeding, Abdominal injury, Hepatic Disorders:-Fulminant hepatic failure, Hepatic encephalopathy, Acute Pancreatitis, Acute intestinal obstruction, perforative peritonitis 	10 Hours
Unit-7:	<p>Renal System</p> <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Renal Failure, Chronic Renal Failure, Acute tubular necrosis, Bladder trauma. 	10 Hours

	<ul style="list-style-type: none"> Management Modalities: Hemodialysis, Peritoneal Dialysis, Continuous Ambulatory Peritoneal Dialysis, Continuous arteriovenous hemodialysis, Renal Transplant, 	
Unit-8:	<p>Nervous System:</p> <ul style="list-style-type: none"> Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Common Neurological Disorders:- Cerebrovascular disease, Cerebrovascular accident, Seizure disorders, Guille in Barre-Syndrome, Masthenia Gravis, Coma, Persistent vegetative state, Encephalopathy, Head injury, Spinal Cord injury. Management Modalities: Assessment of Intracranial pressure, Management of intracranial hypertension, Craniotomy. Problems associated with neurological disorders: Thermo regulation, Unconsciousness, Herniation syndrome. 	10 Hours
Unit-9:	<p>Endocrine System:</p> <ul style="list-style-type: none"> Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing Management of :-Hypoglycemia, Diabetic Ketoacidosis, Thyroid crisis, Myxoedema, Adrenal crisis, Syndrome of Inappropriate / hypersecretion of Antidiuretic Hormone (SIADH) 	5 Hours
Unit-10:	<p>Management of other Emergency Conditions:</p> <ul style="list-style-type: none"> Mechanism of injury, Thoracic injuries, Abdominal injuries, pelvic fractures, complications of trauma, Head injuries Shock: Shock syndrome, Hypovolemic, Cardiogenic, Anaphylactic, Neurogenic and Septic shock Systemic inflammatory Response: The inflammatory response, Multiple organ dysfunction syndrome Disseminated Intravascular Coagulation Drug Overdose and Poisoning Acquired Immunodeficiency Syndrome (AIDS) Ophthalmic: Eye injuries, Glaucoma, retinal detachment Ear Nose Throat: Foreign bodies, stridor, bleeding, quincy, acute allergic conditions Psychiatric emergencies;, suicide, Crisis intervention 	15 Hours
Unit-11:	<p>Cardiovascular emergencies Principles of Nursing in caring for patient's with cardiovascular disorders</p>	20 Hours

	<ul style="list-style-type: none"> • Assessment: Cardiovascular system: Heart sounds, Diagnostic studies:- Cardiac enzymes studies, Electrocardiography monitoring, Holter monitoring, Stress test. Echo cardiography, • Coronary angiography, Nuclear medicine studies • Causes, Pathophysiology, Clinical types, Clinical features, Diagnostic Prognosis, • Management : Medical, Surgical & Nursing management of:- Hypertensive crisis, Coronary artery disease, Acute Myocardial infarction, Cardiomyopathy, Deep vein thrombosis, Valvular diseases, Heart block, Cardiac arrhythmias & conduction disturbances, Aneurysms, • Endocarditis, Heart failure Cardio pulmonary resuscitation BCLS / ACLS • Management Modalities: Thrombolytic therapy, Pacemaker – temporary & permanent, • Percutaneous transluminal coronary angioplasty, Cardioversion, Intra Aortic Balloon pump monitoring, Defibrillations, Cardiac surgeries, Coronary Artery Bypass Grafts • (CABG/MICAS), Valvular surgeries, Heart Transplantation, Autologous blood transfusion, Radiofrequency Catheter Ablation. 	
<p style="text-align: center;">Unit-12:</p>	<p>Respiratory System:</p> <ul style="list-style-type: none"> • Acid-base balance & imbalance • Assessment: History & Physical Examination • Diagnostic Tests:PulseOximetry, End –Tidal Carbon Dioxide Monitoring, Arterial blood gas studies, chest radiography, pulmonary Angiography, Bronchoscope, Pulmonary function Test, Ventilation perfusion scan, Lung ventilation scan • Causes Pathophysiology, Clinical types, Clinical features, Prognosis, Management: Medical, • Surgical and Nursing management of Common pulmonary disorders:-Pneumonia, Status asthmatics, interstitial drug disease, Pleural effusion, Chronic obstructive pulmonary disease, • Pulmonary tuberculosis, Pulmonary edema, Atelectasis, Pulmonary embolism, Acute respiratory failure, Acute respiratory distress syndrome (ARDS), Chest Trauma Haemothorax, Pneumothorax • Management Modalities:-Airway Management 	<p style="text-align: center;">15 Hours</p>

	<ul style="list-style-type: none"> • Ventilatory Management:-Invasive, non- invasive, long term mechanical ventilations • Bronchial Hygiene:-Nebulization, deep breathing exercise, chest physiotherapy, postural drainage, Inter Costal Drainage, Thoracic surgeries 	
Unit-13:	<p>Burns</p> <ul style="list-style-type: none"> • Clinical types, classification, pathophysiology, clinical features, assessment, diagnosis, prognosis, Management: Medical, Surgical & Nursing management of burns. • Fluid and electrolyte therapy – calculation of fluids and its Administration • Pain management • Wound care • Infection control • Prevention and management of burn complications • Grafts and flaps • Reconstructive surgery • Rehabilitation 	7 Hours
Unit-14:	<p>Obstetrical Emergencies</p> <ul style="list-style-type: none"> • Causes, Pathophysiology, Clinical types, clinical features, diagnostic Prognosis, • Management: Medical, Surgical and Nursing management of:Antepartumhaemorrhage, • Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, Post partumhaemorrhage, Puerperal sepsis, Obstetrical shock 	5 Hours
Unit-15:	<p>Neonatal Pediatric emergencies</p> <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis. • Management: medical, surgical and Nursing management of Neonatal emergencies. • Asphyxia Neonatarum, Pathological Jaundice in Neonates, Neonatal seizures, Metabolic disorders, Intra cranial Hemorrhage, Neonatal Sepsis, RDS/HMD (Respiratory Distress Syndrome/Hyaline Membrane Disease), Congenital disorders:- • Cyanotic heart disease, tracheoesophageal fistula, congenital hypertropic pyloric stenosis, • imperforate anus • Pediatric emergencies • Dehydration, Acute broncho pneumonia, Acute respiratory 	10 Hours

	distress syndrome, Poisoning, Foreign bodies, seizures, traumas, Status asthmatics	
Unit-16:	Legal and ethical issues in critical care-Nurse's role <ul style="list-style-type: none"> • Brain death • Organ donation & Counseling • Do Not Resuscitate (DNR) • Euthanasia • Living will 	2 Hours
Unit-17:	Quality Assurance <ul style="list-style-type: none"> • Standards, Practice, Policies, Procedure • Infection control, slandered safety measures • Nursing Audit • Staffing. • Design of ICU/CCU 	2 Hours
<u>Reference Books:</u>	<ol style="list-style-type: none"> 1. Black M.J., Hawks H.J, <i>Medical Surgical Nursing, Clinical Management for Positive Outcome</i>, Saunders, Elsevier. 2. Urban, A.N., Greenlac K.K, <i>Guidelines for Critical Care Nursing</i>, Mosby. 3. Wood L.S., Frelicher S.E, <i>Fetal Cardiac Nursing</i>, Lippincott Williams & Wilkins. 4. Gulanic, Klopp, Galnes, <i>Fetal Nursing Care Plans Nursing Diagnosis and intervention</i>. 5. Baughman Diane C, <i>Hand Book for Surgical Nursing</i>, Lipincott, New York. 6. Philip & Wilma J, <i>Medical- Surgical Nursing</i>, B.T Publication Bangalore. 7. Richardved Lee, <i>Medical Case of the Pregnant Patient</i>, American College, Philadelphia. <p>* Latest editions of all the suggested books are recommended.</p>	

Course Code: MSN204	Discipline Specific Elective Course-1	L-8
	M.Sc. Nursing II YEAR ONCOLOGY NURSING	T-0 P-0 C-8
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.	
CO1.	Understanding the development, concepts, principles, trends, ethical & legal framework with nursing perspective in oncology nursing.	
CO2.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in oncology nursing.	
CO3.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of cancer clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO4.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
CO5.	Evaluating holistic, competent & culturally congruent nursing care following principles & theories of nursing science.	
CO6.	Creating innovation in nursing practice by evidenced based interventions & research utilization in care of Cancer clients.	
Course Content:		
Unit-1:	Introduction: <ul style="list-style-type: none"> • Epidemiology-Incidence, Prevalence – Global, National, State and Local Disease burden, concept of cancer, risk factors • Historical perspectives • Trends and issues • Principles of cancer management • Roles and responsibilities of oncology Nurse 	4 Hours
Unit-2:	The Nature of Cancer: <ul style="list-style-type: none"> • Normal cell biology • The Immune system • Pathological and pathophysiological changes in tissues • Biology of the cancer cell • Clone formation Transformation • Tumor stem lines 	5 Hours

	<ul style="list-style-type: none"> • Structure of a solid tumor • Products produced by the tumor • Systemic effects of tumor growth 	
Unit-3:	Etiology of Cancer <ul style="list-style-type: none"> • Carcinogenesis, • Theories of cancer causation • Risk factors • Carcinogens – genetic factors, chemical carcinogens, radiation, viruses, Immune • System failure, rapid tissue proliferation • Hormone changes, diet, emotional factors. 	4 Hours
Unit-4:	Diagnostic Evaluation <ul style="list-style-type: none"> • Health assessment: History taking, physical examination, • Staging and grading of tumors, • TNM Classification • Common diagnostic tests: • Blood investigation: Haemetological, Bio-chemical, Tumor markers, Hormonal assay • Cytology: Fine needle aspiration cytology(FNAC) • Histopathology: Biopsy • Radiological assessment: MRI, Ultrasound, Computed tomography, Mammography, Positron emission tomography (PET), Radio nuclide imaging, Functional metabolism imaging • Endoscopies • Nurses responsibilities in diagnostic measures 	10 Hours
Unit-5:	Levels of prevention and care <ul style="list-style-type: none"> • Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer, • Self examination-Oral, Breast, Testicular • Secondary prevention – early diagnosis. • Screening • Tertiary prevention – disability limitation, • Rehabilitation :Mobility , Speech, Bowel and bladder, Ostomiesetc • Patient and family education, • Discharge instruction, follow-up care and use of community resources. 	10 Hours

<p>Unit-6:</p>	<p>Cancer Treatment Modalities and Nurse's Role</p> <p>1. Surgery</p> <ul style="list-style-type: none"> • Principles of surgical oncology • Current surgical strategy, • Determining surgical risk • Special surgical techniques • Pre-intra-postoperative Nursing care • Acute and chronic surgical complications • Future directions and advances <p>2. Chemotherapy</p> <ul style="list-style-type: none"> • Principles and classification of chemotherapeutics • Pharmacology of antineoplastic drugs- Mechanism of action, Absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity • Calculating drug doses, • Therapeutic response to chemotherapy-Tumor variables, drug resistance, • Safety precautions <p>3. Radiation Therapy</p> <ul style="list-style-type: none"> • Physics of radiotherapy • Types of ionizing rays • Radiation equipments:Linear accelerator, cobalt, Implants,Isotopes, • Types of therapies: Oral, Brachy therapy, tele therapy, selectron therapy • Effects of radiation on the body tissue, • Radiation biology – cell damage hypoxic cells, alteration of tumor kinetics. • Approaches to radiation therapy – • External radiotherapy • Internal radiotherapy – unsealed, • Sealed sources. • Effectiveness of radiotherapy-Radiosensitivity, treatment effects • Complications of radiotherapy • Radiation safety: Standards of Bhaba Atomic Research Centre (BARC) <p>4. Bone Marrow Transplantation /Stem Cell Transplantation</p> <ul style="list-style-type: none"> • Types, indications, transplantation procedure, complications and Nursing • Management 	<p>25 Hours</p>
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	<ul style="list-style-type: none"> • Types and donor sources • Preparation and care of donor and recipient • Bone marrow bank • Legal and ethical issues <p>5. Immunotherapy (Biotherapy) □</p> <ul style="list-style-type: none"> • Concepts and principles • Classification of agents • Treatment and applications <p>6. Gene Therapy</p> <ul style="list-style-type: none"> • Current Concepts and practices <p>7. Alternative and Complementary Therapies</p> <ul style="list-style-type: none"> • Current practices 	
Unit-7:	<p>Pain management: - Theories, types and</p> <ul style="list-style-type: none"> • Nature of cancer pain • Pathophysiology of pain • Pain threshold <p>Assessment of pain</p> <ul style="list-style-type: none"> • Principles of cancer pain control • Pharmacological: Opioid and non-opioid analgesic therapy • Patient controlled analgesia (PCA) • Other invasive techniques of pain control □ • Recent developments in Cancer pain <p>Non- Pharmacological pain relief technique-</p> <ul style="list-style-type: none"> • Complementary therapies (Music, massage, meditation, relaxation techniques, biofeed back etc. • Psychological intervention in pain control • Alternative system of medicines □ • Role of Nurse 	10 Hours
Unit-8:	<p>Palliative care</p> <ul style="list-style-type: none"> • Definition and scope, philosophy • Concept and elements of palliative care □ • Global and Indian perspective of palliative care • Quality of life issues • Communication skill • Nursing perspective of palliative care and its elements • Home care • Hospice care • Role of Nurse in palliative care 	5 Hours

Unit-9:	<p>Infection control:</p> <ul style="list-style-type: none"> • Process of infection, risk of hospitalization, nosocomial infections- prevention and control of infection in acute, long term care facility and community based care • Standard safety measures 	2 Hours
Unit-10:	<p>Nursing Care of Patients with Specific Malignant Disorders</p> <ul style="list-style-type: none"> • Malignancies of G.I. system-oral, oesophagus, stomach, rectal, liver & pancreas, care of ostomies / stoma. • Respiratory malignancies • Genito urinary system malignancies- prostate Bladder, renal testicular malignancies, • Gynecological malignancies-cervix, uterus, ovary • Hematological malignancies-Lymphomas, Leukemias. • Malignancies of musculoskeletal system • Endocrine malignancies • Skin • Head and Neck -brain tumors • Other malignancies – Breast cancer, AIDS related Malignancies • (Kaposi's sarcoma) 	30 Hours
Unit-11	<p>Paediatric malignancies</p> <ul style="list-style-type: none"> • Leukemia, Lymphoma, Neuro- blastoma • Wilm's tumor, Soft tissue sarcoma, Retinoblastoma • Nursing Management of children with Paediatric Malignancies 	10 Hours
Unit-12	<p>Nursing Management of Physiological Conditions and Symptoms of Cancer Patient</p> <ul style="list-style-type: none"> • Nutrition: - effects of cancer on nutritional Status and its consequences:-Anemia, Cachexia, Xerostomia, mucositis, Dysphagia, nausea and vomiting, constipation, diarrhoea, electrolyte imbalances, taste alterations • Impaired mobility: Decubitus ulcer, pathologic fractures, thrombophlebitis, pulmonary embolism, contractures, footdrop. <p>Other symptoms</p> <ul style="list-style-type: none"> • Dyspepsia & hiccup, dyspnoea • Intestinal obstruction • Fungating wounds • Anxiety & depression, insomnia • Lymph edema □ 	15 Hours

	<p>Impact of cancer on sexuality:</p> <ul style="list-style-type: none"> • Effects of radiotherapy/ chemotherapy/surgery on sexuality of the cancer patient • Nursing management of cancer patients experiencing sexual dysfunction • Sexual counseling. 	
Unit-13	<p>Cancer Emergencies</p> <ul style="list-style-type: none"> • Disseminated intravascular coagulation (DIC), • Malignant pleural effusion • Neoplastic cardiac tamponade and septic shock spinal cord compression • Superior venacava syndrome • Metabolic emergency: hyper and hypo calcemia • Surgical emergency • Urological emergency • Hemorrhage • Organ obstruction • Brain metastasis • Nurses role in managing oncologic emergencies 	10 Hours
Unit-14	<p>Psycho-Social Aspects of Nursing Care</p> <ul style="list-style-type: none"> • Psychological responses of patients with cancer • Psychosocial assessment • Crisis intervention, coping mechanisms • Stress management, spiritual/cultural care and needs • Counseling: individual and family • Maximizing quality of life of patient and family <p>Ethical, moral and legal issues-</p> <ul style="list-style-type: none"> • End of life care • Grief and grieving process • Bereavement support • Care of Nurses who care for the dying. 	8 Hours
Unit 15	<p>Layout and Design of an oncology institution/ ward, OPD, chemotherapy unit, Bone marrow transplantation unit, Pain clinic etc</p> <ul style="list-style-type: none"> • Practice Standards of oncology Nursing • Policies and Procedures • Establishing Standing orders and Protocols <p>Quality Assurance Programme in oncology units</p> <ul style="list-style-type: none"> • Nursing audit 	2 Hours

<p>REFERENCES:</p>	<ol style="list-style-type: none"> 1. Black M.J., Hawks H.J, <i>Medical Surgical Nursing, Clinical Management for Positive Outcome</i>, 7th edition, Saunders, Elsevier. 2. Urban, A.N., GreenlacK.K,“<i>Guidelines for Critical Care Nursing</i>, Mosby. 3. Wood L.S., Frelicher S.E, <i>Fetal Cardiac Nursing</i>, Lippincott Williams &Wilkins. 4. Gulanic, Klopp, Galnes, <i>Fetal Nursing Care Plans Nursing Diagnosis and intervention</i>. 5. Lewis, Collier &Heitkemper, <i>Medical Surgical Nursing Assessment and Management of Clinical Problems</i> 6. Baughman Diane C, <i>Hand Book for Surgical Nursing</i>, 2nd edition, published by Lipincott, NewYork. 7. Philip &Wilma J, <i>Medical- Surgical Nursing</i>, 3rdedition, published by B.T Pubn Bangalore. 8. Richardved Lee, <i>Medical Case of the Pregnant Patient</i> 2nd edition, American College, Philadelphia. 	
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Course Code: MSN205	Discipline Specific Elective Course-1	L-8 T-0 P-0 C-8
	M.Sc. Nursing II YEAR NEUROSCIENCES NURSING	
Course Description:	This course is designed to assist students in developing expertise and in-depth knowledge in the field of neurology and neurosurgical Nursing. It will help students to develop advanced skills for nursing intervention in caring for patients with urological 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.	
CO1.	Understanding the development, concepts, principles, trends, ethical & legal framework with nursing perspective in neurosurgical Nursing.	
CO2.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in neurosurgical Nursing.	
CO3.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of neurosurgical clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO4.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
CO5.	Evaluating holistic, competent & culturally congruent nursing care following principles & theories of nursing science.	
CO6.	Creating innovation in nursing practice by evidenced based interventions & research utilization in care of neurosurgical clients.	
CO1.	Understanding the development, concepts, principles, trends, ethical & legal framework with nursing perspective in neurosurgical Nursing.	
Course Content:		
Unit-1:	Introduction <ul style="list-style-type: none"> • Introduction to neuroscience (neurological and neurosurgical) Nursing • History-Development in neurological and Neurosurgical Nursing, Service & education • Emerging trends and issues in neurology and Neurosurgery and its implication to Nursing. • Neurological and neurosurgical problems- • Concepts, principles and Nursing perspectives • Evidence based Nursing and its application in neurological and neurosurgical Nursing 	5 Hours

<p>Unit-2:</p>	<p>Epidemiology Major health problems-</p> <ul style="list-style-type: none"> • Risk factors associated with neurological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations, occupational and infections. • Health promotion, disease prevention, life style modification and its implications to Nursing • Alternate system of medicine/complementary therapies 	<p>5 Hours</p>
<p>Unit-3:</p>	<p>Review of Anatomy and physiology</p> <ul style="list-style-type: none"> • Embryology • Structure and functions of Nervous system- CNS, ANS, cerebral circulation, • Cranial and spinal nerves and reflexes, motor and sensory, functions of sensory organs 	<p>10 Hours</p>
<p>Unit-4:</p>	<p>1 5 Assessment and diagnostic measures</p> <ul style="list-style-type: none"> • Assessment • History taking • Physical assessment, psychosocial assessment • Neurological assessments, Glasgow coma scale interpretation & its relevance to Nursing. • Common assessment abnormalities <p>Diagnostic measures</p> <ul style="list-style-type: none"> • Cerebro spinal fluid analysis • Radiological studies-Skull and spine X-ray Cerebral Angiography, CT Scan, Single Photon Emission Computer Tomography(SPECT), MRI (Magnetic Resonance Imaging), MRA, MRS, Functional MRI, Myelography, PET (Positron Emission Test), Interventional radiology. • Electorgraphic studies- Electro encephalography, MEG, EMG, video EEG, • Nerve conduction studies-Evoked potentials, visual evoked potentials, brain stem auditory evoked potentials, somatosensory evoked potentials • Ultrasound studies-Carotid duplex, transcranial Doppler sonography, • Immunological studies • Biopsies – muscle, nerve and Brain. • Interpretation of diagnostic measures • Nurse’s role in diagnostic tests 	<p>15 Hours</p>

Unit-5:	Meeting Nutritional needs of neurological patients <ul style="list-style-type: none"> • Basic nutritional requirements • Metabolic changes following injury and starvation • Nutritional assessment • Common neurological problems that interfere with nutrition and strategies for meeting their nutritional needs • Special metabolic and electrolyte imbalances • Chronic fatigue syndrome 	5 Hours
Unit-6:	Drugs used in neurological and neurosurgical disorders <ul style="list-style-type: none"> • Classification • Indications, contraindications, actions and effects, toxic effects • Role of Nurse 	5 Hours
Unit-7:	Traumatic conditions <ul style="list-style-type: none"> • Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, • Management: medical, surgical and Nursing management of • Cranio cerebral injuries. • Spinal & Spinal cord injuries. • Peripheral nerve injuries. • Unconsciousness 	10 Hours
Unit-8:	Cerebro vascular disorders. <ol style="list-style-type: none"> 1. Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Stroke & arterio venous thrombosis. • Haemorrhagic embolus. • Cerebro vascular accidents. • Intracranial aneurysm. • Subarchnoid Haemorrhage. • Arterio venous fistula. • Brain tumours • Diseases of cranial nerves; Trigeminal neuralgia, Facial palsy, Bulbar palsy. 	10 Hours
Unit-9:	Degenerating and demyelinating disorders <ol style="list-style-type: none"> 1. Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Motor neuron diseases. • Movement disorders- Tics, dystonia, chorea, wilson's 	10 Hours

	<p>disease, essential tremors</p> <ul style="list-style-type: none"> • Dementia. • Parkinson's disease. • Multiple sclerosis. • Alzemer's 	
Unit-10:	<p>Neuro infections</p> <p>1. Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of Neuro infections</p> <ul style="list-style-type: none"> • Meningitis-types • Encephalitis. • Poliomyelitis. • Parasitic infections. • Bacterial infections • Neurosyphilis. • HIV & AIDS. • Brain abscess. 	10 Hours
Unit-11	<p>Paroxysmal disorders.</p> <p>1. Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Epilepsy and seizures. • Status epilepticus. • Syncope. • Menier's syndrome. • Cephalgia. 	10 Hours
Unit-12	<p>Developmental disorders.</p> <p>1. Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Hydrocephalus. • Craniosynostosis. • spina bifida- Meningocele, Meningomyeloceleencephalocele • syringomyelia. • Cerebro vascular system anomalies. • Cerebral palsies. • Down's syndrome 	10 Hours
Unit-13	<p>Neuro muscular disorders.</p> <p>1. Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis,</p>	10 Hours

	<p>Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> • Polyneuritis – G B Syndrome. • Muscular dystrophy. • Myasthenia gravis. • Trigeminal neuralgia. • Bell’s palsy. • Menier’s disease • Carpal tunnel syndrome • Peripheral neuropathies 	
Unit-14	<p>Neoplasms – surgical conditions.</p> <ol style="list-style-type: none"> 1. Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis ,Management: medical, surgical and Nursing management of 2. Space occupying lesions –types 3. Common tumors of CNS, 	5 Hours
Unit-15	<p>Other disorders</p> <ol style="list-style-type: none"> 1. Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of 2. Metabolic disorders- diabetes, insipidus, metabolic encephalopathy 3. Sleep disorders 4. Auto immune disorders- multiple sclerosis, inflammatory myopathies 	5 Hours
Unit-16	<p>Neuro emergencies</p> <ol style="list-style-type: none"> 1. Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis,Management: medical, surgical and Nursing management of <ul style="list-style-type: none"> • Increased intracranial pressure • Unconscious • Herniation syndrome • Seizures • Severe head injuries • Spinal injuries • Cerebro vascular accidents 	10 Hours
Unit-17	<p>Rehabilitation</p> <ul style="list-style-type: none"> • Concept and Principles of Rehabilitation. • Factors affecting quality of life and coping • Rehabilitation in acute care setting, and following stroke, head injury and degenerative disorders of brain • Physiotherapy. 	5 Hours

	<ul style="list-style-type: none"> ● Counselling ● Care giver's role ● Speech & Language.- Neurogenic communication disorders, Speech therapy 	
Unit-18	Ethical and legal issues in neuroscience Nursing <ul style="list-style-type: none"> ● Brain death and organ transplantation ● Euthanasia ● Negligence and malpractice ● Nosocomial infections 	5 Hours
Unit-19	<ul style="list-style-type: none"> ● Quality assurance in neurological Nursing practice ● Role of advance practitioner in neurological Nursing ● Professional practice standards ● Quality control in neurologic Nursing ● Nursing audit ● Neuro ICU ● Philosophy, aims and Objectives: ● Policies, staffing pattern, design and physical plan of neuro ICU ● Team approach, functions ● Psychosocial aspects in relation to staff and clients of neuro ICU, ● In-service education 	5 Hours
Reference Books:	<ol style="list-style-type: none"> 1. Black M.J. & Hawks H.J, <i>Medical Surgical Nursing, Clinical Management for Positive Outcome</i>, Saunders, Elsevier. 2. Urban, A.N., Greenlac K.K, <i>Guidelines for Critical Care Nursing</i>, Mosby. 3. Wood L.S., Frelicher S.E, <i>Fetal Cardiac Nursing</i>, Lippincott Williams &Wilkins. 4. Gulanic, Klopp, Galnes, <i>Fetal Nursing Care Plans Nursing Diagnosis and Intervention</i>. 5. Lewis, Collier &Heitkemper, <i>Medical Surgical Nursing Assessment and Management of Clinical Problems</i>. 6. Baughman Diane C, <i>Hand Book for Surgical Nursing</i>, Lipincott, NewYork. 7. Philip &Wilma J, <i>Medical- Surgical Nursing</i>, B.T Publication Bangalore. 8. Richardved Lee, <i>Medical Case of the Pregnant Patient</i>, American College, Philadelphia. 	

Course Code: MSN206	Discipline Specific Elective Course-1	L-8 T-0 P-0 C-8
	M.Sc. Nursing II YEAR NEPHRO UROLOGY NURSING	
Course Description:	This course is designed to assist students in developing expertise and indepth understanding in the field of Nephro and urological Nursing. It will help students to develop advanced skills for nursing intervention in various nephro and urological conditions. It will enable the student to function as nephro and urology Nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of nephro and urology Nursing	
CO1.	Understanding the development, concepts, principles, trends, ethical & legal framework with nursing perspective in Nephro urology nursing.	
CO2.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in Nephro urology nursing.	
CO3.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of Nephro urology clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO4.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
CO5.	Evaluating holistic, competent & culturally congruent nursing care following principles & theories of nursing science.	
CO6.	Creating innovation in nursing practice by evidenced based interventions & research utilization in care of Nephro urology clients.	
Course Content:		
Unit-1:	Introduction <ul style="list-style-type: none"> • Historical development: trends and issues in the field of nephro and urological Nursing. • Nephro and urological problems • Concepts, principles and Nursing perspectives • Ethical and legal issues • Evidence based Nursing and its application in nephro and urological Nursing(to be incorporated in all the units) 	5 Hours
Unit-2:	Epidemiology <ul style="list-style-type: none"> • Major health problems- urinary dysfunction, urinary tract infections, Glomerular disorders, obstructive disorders and other urinary disorders • Risk factors associated with nephro and urological conditions conditions- Hereditary, Psychosocial factors, 	5 Hours

	<p>smoking, alcoholism, dietary habits, cultural and ethnic considerations</p> <ul style="list-style-type: none"> • Health promotion, disease prevention, life style modification and its implications to Nursing • Alternate system of medicine/complementary therapies 	
Unit-3:	<p>Review of anatomy and physiology of urinary system</p> <ul style="list-style-type: none"> • Embryology • Structure and functions • Renal circulation • Physiology of urine formation • Fluid and electrolyte balance • Acid base balance • Immunology specific to kidney 	5 Hours
Unit-4:	<p>Assessment and diagnostic measures</p> <ul style="list-style-type: none"> • History taking • Physical assessment, psychosocial assessment • Common assessment abnormalities-dysurea, frequency, enuresis, urgency, hesitancy, hematuria, pain, retention, burning on urination, pneumaturia, incontinence, nocturia, polyurea, anuria, oliguria, • Diagnostic tests-urine studies, blood chemistry, radiological procedures-KUB, IVP, nephrotomogram, retrograde pyelogram, renal arteriogram, renal ultrasound, CT scan, MRI, cystogram, renal scan, biopsy, endoscopy-cystoscopy, urodynamics studies, cystometrogram, urinary flow study, sphincter electromyography, voiding pressure flow study, videourodynamics, Whitaker study Interpretation of diagnostic measures. • Nurse's role in diagnostic tests 	20 Hours
Unit-5:	<p>Renal immunopathy/Immunopathology</p> <ul style="list-style-type: none"> • General Concept of immunopathology • Immune mechanism of glomerular vascular disease • Role of mediator systems in glomerular vascular disease 	5 Hours
Unit-6:	<p>Urological Disorders and Nursing Management</p> <ul style="list-style-type: none"> • Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and Nursing management of • Urinary tract infections- pyelonephritis, lower urinary tract infections, • Disorders for ureters, bladder and urethra • Urinary tract infections- 	15 Hours

	<ul style="list-style-type: none"> • Urinary dysfunctions- urinary retention, urinary incontinence, urinary reflux, • Bladder disorders- neoplasms, calculi, neurogenic bladder, trauma, congenital abnormalities • Benign prostrate hypertrophy(BPH) • Ureteral disorders: ureteritis, ureteral trauma, congenital anomalies of ureters • Urethral disorders- tumours, trauma, congenital anomalies of ureters, 	
Unit-7:	<p>Glomerular disorders and Nursing management</p> <ul style="list-style-type: none"> • Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical ,surgical and Nursing management of • Glomerular nephritis- chronic, acute , nephritic syndrome • Acute Renal failure and chronic renal failure. • Renal calculi • Renal tumours-benign and malignant • Renal trauma • Renal abscess • Diabetic nephropathy • Vascular disorders • Renal tuberculosis • Polycystic • Congenital disorders • Hereditary renal disorders 	25 Hours
Unit-8:	<p>Management of Renal emergencies</p> <ul style="list-style-type: none"> • Anuria • Acute Renal failure • Poisoning • Trauma • Urine retention • Acute graft rejection • Hematuria • Nurse's role 	10 Hours
Unit-9:	<p>Drugs used in urinary disorders</p> <ul style="list-style-type: none"> • Classification • Indications, contraindications, actions and effects, toxic effects • Role of Nurse 	10 Hours

<p>Unit-10:</p>	<p>Dialysis</p> <ul style="list-style-type: none"> • Dialysis- Historical, types, Principles, goals <ol style="list-style-type: none"> 1. Hemodialysis- vascular access sites- temporary and permanent 2. Peritoneal dialysis • Dialysis Procedures- steps, equipments, maintenance, • Dialysis Procedures- steps, equipments, maintenance, • Role of Nurse- pre dialysis, intra and post dialysis • Complications • Counseling • Patient education • Records and reports 	<p>10 Hours</p>
<p>Unit-11</p>	<ul style="list-style-type: none"> • Kidney transplantation • Nursing management of a patient with Kidney transplantation • Kidney transplantations- a historical review • Immunology of graft rejections • The recipient of a renal transplant • Renal preservations • Human Leucocytic Antigen(HLA) typing matching and cross matching in renal transplantation • Surgical techniques of renal transplantations • Chronic renal transplant rejection • Complication after KTP: Vascular and lymphatic, Urological, cardiovascular, liver and neurological, infectious complication • KTP in children and management of Paediatric patient with KTP • KTP in developing countries • Results of KTP • Work up of donor and recipient for renal transplant • Psychological aspect of KTP and organ donations • Ethics in transplants • Cadaveric transplantation 	<p>10 Hours</p>
<p>Unit-12</p>	<ul style="list-style-type: none"> • Rehabilitation of patient with nephrological problems • Risk factors and prevention • Rehabilitation of patients on dialysis and after kidney transplant • Rehabilitation of patients after urinary diversions • Family and patient teaching 	<p>5 Hours</p>

<p>Unit-13</p>	<p>Paediatric urinary disorders</p> <ul style="list-style-type: none"> • Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical ,surgical and Nursing management of children with Renal Diseases -UTI, ureteral reflux, glomerulo nephritis, nephrotic syndrome infantile nephrosis, cystic kidneys, familial factors in renal diseases in childhood, Haemolyticuraemic syndrome. Benign recurrent haemturia, nephropathy, wilms’ tumour 	<p>10 Hours</p>
<p>Unit-14</p>	<p>Critical care units- dialysis, KTP unit</p> <ul style="list-style-type: none"> • Philosophy, aims and Objectives: • Policies, staffing pattern, design and physical plan of Dialysis and KTP units • Team approach, functions • Psychosocial aspects in relation to staff and clients of ICU, dialysis unit • In-service education • Ethical and legal issues 	<p>5 Hours</p>
<p>Unit-15</p>	<ul style="list-style-type: none"> • Quality assurance in nephrological Nursing practice • Role of advance practioner in nephrological Nursing • Professional practice standards • Quality control in nephrological Nursing • Nursing audit 	<p>5 Hours</p>
<p>REFERENCES:</p>	<ol style="list-style-type: none"> 1. Black M.J., Hawks H.J, <i>Medical Surgical Nursing, Clinical Management for Positive Outcome</i>, 7th edition, Sauders, Elsevier. 2. Urban, A.N., GreenlacK.K,“<i>Guidelines for Critical Care Nursing</i>, Mosby. 3. Wood L.S., Frelicher S.E, <i>Fetal Cardiac Nursing</i>, Lippincott Williams &Wilkins. 4. Gulanic, Klopp, Galnes, <i>Fetal Nursing Care Plans Nursing Diagnosis and intervention</i>. 5. Lewis, Collier &Heitkemper, <i>Medical Surgical Nursing Assessment and Management of Clinical Problems</i>. 6. Baughman Diane C, <i>Hand Book for Surgical Nursing</i>, 2nd edition, published by Lipincott, NewYork. 7. Philip &Wilma J, <i>Medical- Surgical Nursing</i>, 3rd edition, published by B.T Pubn Bangalore. 8. Richardved Lee, <i>Medical Case of the Pregnant Patient</i>, 2ndedition, American College, Philadelphia. 	

Course Code: MSN207	Discipline Specific Elective Course-1	L-8 T-0 P-0 C-8
	M.Sc. Nursing II YEAR ORTHOPEdic NURSING	
Course Description:	This course is designed to assist students in developing expertise and in depth understanding in the field of orthopedic Nursing. It will help students to develop advanced skills for nursing intervention in various orthopedic conditions. It will enable the student to function as orthopedic Nurse practitioner/specialist providing quality care. It will further enable the student to function as educator, manager, and researcher in the field of orthopedic Nursing.	
CO1.	Understanding the development, concepts, principles, trends, ethical & legal framework with nursing perspective in orthopedic nursing.	
CO2.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in orthopedic nursing.	
CO3.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of orthopedic clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO4.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
CO5.	Evaluating holistic, competent & culturally congruent nursing care following principles & theories of nursing science.	
CO6.	Creating innovation in nursing practice by evidenced based interventions & research utilization in care of orthopedic clients.	
Course Content:		
Unit-1:	Introduction <ul style="list-style-type: none"> • Historical perspectives – History and trends in orthopedic Nursing • Definition and scope of orthopedic Nursing • Anatomy and physiology of Musculo-skeletal system • Posture, Body landmarks skeletal system Muscular system. Nervous system - Main nerves • Healing of - Injury, bone injury, • Repair of ligaments • Systemic response to injury • Ergonomics, Body mechanics, biomechanical measures • Orthopedic team 	5 Hours

Unit-2:	<p>Assessment of Orthopedic Patient</p> <ul style="list-style-type: none"> • Health Assessment: History, physical examination- Inspection, palpation, movement, Measurement, muscle strength Testing. • Diagnostic studies – Radiological studies, Muscle enzymes, serologic studies 	8 Hours
Unit-3:	<p>Care of patients with devices</p> <ul style="list-style-type: none"> • Splints, braces, various types of plaster cast • Various types of tractions, • Various types of orthopedic beds and mattresses • Comfort devices • Implants in orthopedic • Prosthetics and Orthotics 	10 Hours
Unit-4:	<p>Injuries Trauma & Injuries Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and Nursing management of:</p> <ul style="list-style-type: none"> • Early management of Trauma • Fractures • Shoulder and arm • Elbow, fore arm, wrist, hand • Hip, thigh, knee, leg, ankle, foot • Spine • Head injury • Chest injury • Polytrauma • Nerve injuries • Vascular injuries • Soft tissue injuries • Sports injuries • Amputation 	15 Hours
Unit-5:	<p>Infections of Bones and Joints Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and Nursing management of:</p> <ul style="list-style-type: none"> • Tuberculosis • Osteomyelitis • Arthritis • Leprosy 	8 Hours

<p>Unit-6:</p>	<p>Bone Tumours Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and Nursing management of:</p> <ul style="list-style-type: none"> • Bone tumors – Benign, Malignant and metastatic • Different types of therapies for tumors 	<p>5 Hours</p>
<p>Unit-7:</p>	<p>Deformities Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medical surgical and Nursing management of: Scoliosis, Kyphosis, Lordosis</p> <ul style="list-style-type: none"> • Congenital disorders: Congenital dislocation of hip (CDH), Dislocation of patella, Knee, Varus and valgus deformities, • Deformities of digits, • Congenital torticollis. • Meningocele, meningocele, spina bifida, • Chromosomal disorders. • Computer related deformities 	<p>10 Hours</p>
<p>Unit-8:</p>	<p>Disorders of the spine</p> <ul style="list-style-type: none"> • Intervertebral disc prolapse, Fracture of the spine • Low back disorder – Low back pain, PND, spinal stenosis, spondylosis 	<p>5 Hours</p>
<p>Unit-9:</p>	<p>Nutritional / Metabolic and Endocrine Disorders Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and Nursing management of:</p> <ul style="list-style-type: none"> • Rickets, • Scurvy, • Hyper vitaminosis A and D, • Osteomalacia, • Osteoporosis • Paget’s disease, • Gout, • Gigantism, • Dwarfism, • Acromegaly. • Therapeutic diets for various orthopedic disorders 	<p>5 Hours</p>
<p>Unit-10:</p>	<p>Neuro-Muscular Disorders: Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and Nursing management of:</p> <ul style="list-style-type: none"> • Poliomyelitis, Cerebral Palsy • Myasthenia gravis • Spina bifida. 	<p>8 Hours</p>

	<ul style="list-style-type: none"> • Peripheral nerve lesion, • Paraplegia, Hemiplegia, Quadriplegia. • Muscular dystrophy 	
Unit-11	<p>Chronic/Degenerative Diseases of Joints and Autoimmune Disorders: Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis – medicalsurgical and Nursing management of:</p> <ul style="list-style-type: none"> • Osteo Arthritis • Rheumatoid Arthritis • Ankylosing spondylitis. • Spinal disorders. • Systemic Lupus Erythematosus 	8 Hours
Unit-12	<p>Orthopedic Disorders in Children:</p> <ul style="list-style-type: none"> • General and special consideration on Paediatric orthopedics • Genetic disorders • Congenital anomalies • Growth disorders • Genetic counseling • Nurses role in genetic counseling 	5 Hours
Unit-13	<p>Geriatric Problems</p> <ul style="list-style-type: none"> • Geriatric population, types of disabilities, causes, treatment and Management – Hospitalization, rest, physiotherapy, involvement of family members, social opportunities. • Care at home – involvement of family and community, follow up care and rehabilitation 	5 Hours
Unit-14	<p>Pharmacokinetics</p> <ul style="list-style-type: none"> • Principles of drug Administration • Analgesics and anti inflammatory agents • Antibiotics, Antiseptics, • Drugs used in orthopedics and neuromuscular disorders • Blood and blood components • Care of drugs and Nurses role 	6 Hours
Unit-15	<p>Nurses Role in Orthopedic Conditions</p> <ul style="list-style-type: none"> • Gait analysis • Urodynamic studies • Prevention of physical deformities • Alteration of body temperature regulatory system and immune systems 	30 Hours

	<ul style="list-style-type: none"> • Immobilization – cast, splints, braces and tractions • Prevention and care of problems related to immobility • Altered sleep patterns • Impaired communication • Self care and activities of daily living • Bladder and bowel rehabilitation • Sensory function rehabilitation • Psychological reaction related to disabilities and disorders. • Coping of individual and family with disabilities and disorders • Maintaining sexuality • Spirituality – A rehabilitative prospective <p>Orthopedic Reconstructive Surgeries</p> <ul style="list-style-type: none"> • Replacement surgeries – Hip, Knee, Shoulder • Spine surgeries • Grafts and flaps surgery • Deformity correction. <p>Physiotherapy</p> <ul style="list-style-type: none"> • Concepts, Principles, purpose, <ol style="list-style-type: none"> 1. Mobilization – Exercises: types, re-education in walking: • Crutch walking, wheel chair, Transfer techniques, <ol style="list-style-type: none"> 1. Types of gaits: Non-weight bearing, partial weight bearing, four point crutch, tripod, walking with sticks, calipers 2. Forms of therapies: Hydrotherapy, electrotherapy, wax bath, heat therapy, ice, heliotherapy, radiant heat, 3. Chest physiotherapy 	
Unit-16	<p>Rehabilitation</p> <ul style="list-style-type: none"> • Principles of rehabilitation, definition, philosophy, process, • Various types of therapies • Special therapies and alternative therapies • Rehabilitation counseling • Preventive and restorative measures. • Community based rehabilitation (CBR) • Challenges in rehabilitation. • Role of the Nurse in rehabilitation, • Legal and ethical issues in rehabilitation Nursing 	8 Hours

	<ul style="list-style-type: none"> Occupational therapy 	
Unit-17	<p>National Policies and Programmes</p> <ul style="list-style-type: none"> National programmes for rehabilitation of persons with disability - National Institutes, artificial limbs manufacturing Corporation, District Rehabilitation Centers and their schemes, Regional rehabilitation centers etc. Public policy in rehabilitation Nursing The persons with disabilities act 1995, Mental rehabilitation and Multiple disabilities act 1992, The National Trust Rules 1999 and 2000 Rehabilitation Council of India Legal and ethical aspects in orthopedic Nursing Rehabilitation health team and different categories of team members. 	5 Hours
Unit-18	<p>Quality assurance</p> <ul style="list-style-type: none"> Standards, Protocols, Policies, Procedures Nursing audit Staffing Design of orthopedic, physiotherapy and rehabilitation unit 	4 Hours
REFERENCES:	<ol style="list-style-type: none"> Black M.J., Hawks H.J, <i>Medical Surgical Nursing, Clinical Management for Positive Outcome</i>, 7th edition, Sauders, Elsevier. Urban, A.N., GreenlacK.K, “<i>Guidelines for Critical Care Nursing</i>, Mosby. Wood L.S., Frelicher S.E, <i>Fetal Cardiac Nursing</i>, Lippincott Williams &Wilkins. Gulanic, Klopp, Galnes, <i>Fetal Nursing Care Plans Nursing Diagnosis and intervention</i>. Lewis, Collier &Heitkemper, <i>Medical Surgical Nursing Assessment and Management of Clinical Problems</i>. Baughman Diane C, <i>Hand Book for Surgical Nursing</i>, 2nd edition, published by Lipincott, NewYork. Philip &Wilma J, <i>Medical- Surgical Nursing</i>, 3rd edition, published by B.T Pubn Bangalore. Richardved Lee, <i>Medical Case of the Pregnant Patient</i>, 2nd edition, American College, Philadelphia. 	

Course Code: MSN208	Discipline Specific Elective Course-1	L-8 T-0 P-0 C-8
	M.Sc. Nursing II YEAR GASTRO ENTEROLOGY NURSING	
Course Description:	This course is designed to assist students in developing expertise and in depth understanding in the field of gastro enterology Nursing. It will help students to develop advanced skills for nursing intervention in various gastro enterology conditions. It will enable the student to function as gastro enterology Nurse practitioner/specialist and provide quality care. It will further enable the student to function as educator, manager, and researcher in the field of gastro enterology Nursing.	
CO1.	Understanding the development, concepts, principles, trends, ethical & legal framework with nursing perspective in gastro enterology nursing.	
CO2.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in gastro enterology nursing.	
CO3.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of gastro enterology clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO4.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
CO5.	Evaluating holistic, competent & culturally congruent nursing care following principles & theories of nursing science.	
CO6.	Creating innovation in nursing practice by evidenced based interventions & research utilization in care of gastro enterology clients.	
Course Content:		
Unit-1:	Introduction <ul style="list-style-type: none"> • Historical development: trends and issues in the field of gastro enterology. • Gastro enterological problems • Concepts, principles and Nursing perspectives • Ethical and legal issues • Evidence based Nursing and its application in gastrointestinal Nursing(to be incorporated in all the units) 	5 Hours
Unit-2:	Epidemiology <ul style="list-style-type: none"> • Risk factors associated with GE conditions- Hereditary, Psychosocial factors, smoking,alcoholism, dietary habits, cultural and ethnic considerations 	5 Hours

	<ul style="list-style-type: none"> • Health promotion, disease prevention, life style modification and its implications to Nursing • National health programmes related to gastro enterology • Alternate system of medicine / complementary therapies 	
Unit-3:	<p>Review of anatomy and physiology of gastrointestinal system</p> <ul style="list-style-type: none"> • Gastrointestinal system • Liver, biliary and pancreas • Gerontologic considerations • Embryology of GI system • Immunology specific to GI system 	5 Hours
Unit-4:	<p>Assessment and diagnostic measures</p> <ul style="list-style-type: none"> • History taking • Physical assessment, psychosocial assessment • Diagnostic tests • Radiological studies: Upper GIT- barium swallow, lower GIT Barium enema, • Ultra sound: • Computed tomography • MRI • Cholangiography: Percutaneous transhepatic Cholangiogram (PTC) • Magnetic Resonance Cholangiopancreatography (MRCP) • Nuclear imaging scans (scintigraphy) • Endoscopy • Colonoscopy • Proctosigmoidoscopy • Endoscopic Retrograde Cholangiopancreatography (ERCP) • Endoscopic ultrasound • Peritonoscopy (Laproscopy) • Gastric emptying studies • Blood chemistries: Serum amylase, serum lipase • Liver biopsy • Miscellaneous tests: Gastric analysis, fecal analysis. • Liver function tests: Bile formation and excretion, dye excretion test, Protein metabolism, haemostatic functions- prothrombin vitamin K production, serum enzyme tests, Lipid metabolism serum cholesterol Interpretation of diagnostic measures. • Nurse's role in diagnostic tests 	15 Hours

<p>Unit-5:</p>	<p>Gastro intestinal disorders and Nursing management Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and Nursing management of:</p> <ul style="list-style-type: none"> • Disorders of the mouth: Dental caries, Periodontal disease, Acute tooth infection, Stomatitis, Thrush (moniliasis), Gingivitis, Leukoplakia, Inflammation of the parotid gland, Obstruction to the flow of saliva, Fracture of the jaw • Disorders of the oesophagus: Reflux oesophagitis, Oesophageal achalasia, Oesophageal varices, Hiatus hernia, Diverticulum • Disorders of the stomach and duodenum: Gastritis, Peptic ulcer, Dumping of the stomach, Food poisoning, idiopathic gastroparesis, Aerophagia and belching syndrome, Idiopathic cyclic nausea and vomiting, Rumination syndrome, Functional dyspepsia, Chronic Non specific (functional) abdominal pain. • Disorders of the small intestine • Malabsorption syndrome – tropical sprue • Gluten – sensitive enteropathy (Coeliac disease) • Inflammatory diseases of intestines and abdomen: appendicitis, Peritonitis, Intestinal obstruction, Abdominal TB, Gastrointestinal polyposis syndrome • Chronic inflammatory bowel disease, Ulcerative colitis, Crohn's disease • Infestations and infections – Worm infestations, Typhoid, Leptospirosis • Solitary rectal ulcer syndrome <ul style="list-style-type: none"> • Alteration in bowel elimination (diarrhoea, constipation, fecal impaction, fecal incontinence, Irritable bowel syndrome, chronic idiopathic constipation, Functional Diarrhea <p>Anorectal Conditions: Hemorrhoids, Anal fissure, anal fistula, Abscess, Strictures, Rectal prolapse, Pruritus ani, Perianal disease, Anal condylomas, Warts.</p>	<p>25 Hours</p>
<p>Unit-6:</p>	<p>Disorder of liver, pancreas gall bladder and Nursing management</p> <ul style="list-style-type: none"> • Disorders of liver biliary tract: • Viral Hepatitis – A, B, C, D & E • Toxic hepatitis <ul style="list-style-type: none"> • Cirrhosis of liver, liver failure, Liver transplantation • Non cirrhotic portal fibrosis 	<p>15 Hours</p>

	<ul style="list-style-type: none"> • Liver abscess, • Parasitic and other cysts of the liver • Disorders of the Gall Bladder and Bile Duct: <ul style="list-style-type: none"> • Cholecystitis • Cholelithiasis • Choledocholithiasis • Disorders of the pancreas: Pancreatitis, • Benign tumors of islet cells • Disorders of the Peritoneum <ul style="list-style-type: none"> • Infections of the peritoneum • Surgical peritonitis • Spontaneous bacterial peritonitis • Tuberculosis peritonitis • Disorders of the Diaphragm <ul style="list-style-type: none"> • Diaphragmatic hernia • Congenital hernias • Paralysis of diaphragm • Tumors of the diaphragm • Hiccups 	
<p style="text-align: center;">Unit-7:</p>	<p>Gastro intestinal emergencies and Nursing interventions Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical, surgical and Nursing management of:</p> <ul style="list-style-type: none"> • Esophageal varices, • Ulcer perforation, • Acute cholecystitis • Diverticulitis • Fulminant hepatic failure • Biliary obstruction • Bowel obstruction • Gastroenteritis • Intussusception • Acute intestinal obstruction, perforation • Acute pancreatitis • Cirrhosis of liver complications • Liver, spleen, stomach pancreatic, mesenteric, bowel and greater vessel injuries • Acute appendicitis /peritonitis • Acute abdomen • Food poisoning 	<p style="text-align: center;">15 Hours</p>

<p>Unit-8:</p>	<p>Congenital Anomalies of Esophagus</p> <ul style="list-style-type: none"> • Esophageal atresia • Tracheo esophageal fistula • Esophageal stenosis • Esophageal duplications • Dysphagia – Lusoria – aberrant right subclavian artery compressing esophagus • Esophageal rings – schalzkiring • Esophageal webs <p>• Congenital Anomalies of Stomach</p> <ul style="list-style-type: none"> • Gastric atresia • Micro gastria • Gastric diverticulum • Gastric duplication • Gastric teratoma • Gastric volvulus • Infantile hypertrophic pyloric stenosis • Adult hypertrophic pyloric stenosis <p>Congenital Anomalies of Duodenal</p> <ul style="list-style-type: none"> • Duodenal Atresia or stenosis • Annular pancreas • Duodenal duplication cysts • Malrotation and mid gut volvolus <p>Developmental anomalies of the intestine:</p> <ul style="list-style-type: none"> • Abdominal wall defects (omphalocele and Gastroschisis) • Meckel’s diverticulum • Intestinal atresia <p>Hirschsprung’s disease</p>	<p>15 Hours</p>
<p>Unit-9:</p>	<p>Pharmo Kinetics</p> <ul style="list-style-type: none"> • Drugs used in GIT • Principles of Administration • Roles responsibilities of Nurses • Drugs in Peptic ulcer disease • Proton Pump inhibitors • H2 Receptor Antagonists • Cytoprotective Agents: • Drugs used in Diarrhea • Drugs used in constipation • Drugs used in Inflammatory Bowel Disease • Aminosalicylates 	<p>15 Hours</p>

	<ul style="list-style-type: none"> • Corticosteroids • Immunomodulators • Chemotherapy • Antibiotics • Antiemetics: • Anticholinergics • Antihistaminics • Anthelmintics • Vitamin Supplements 	
Unit-10:	<p>Nutrition and nutritional problems related to GI system</p> <ul style="list-style-type: none"> • Nutritional assessment and Nursing interventions • Therapeutic diets • Adverse reactions between drugs and various foods • Malnutrition- etiology, clinical manifestations and management • Tube feeding, parenteral nutrition, total parenteral nutrition • Obesity- etiology, clinical manifestations and management • Eating disorders- anorexia nervosa, bulimia nervosa • Recent advances in nutrition 	10 Hours
Unit-11	<p>Malignant disorders of gastro intestinal system Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical ,surgical, other modalities and Nursing management of:</p> <ul style="list-style-type: none"> • Malignancy of oral cavity ,Lip,Tongue,buccal mucosa, oropharynx, Salivary gland • Esophageal , Gastric , Carcinoma of bowel – Small bowel, Colorectal and Anal carcinoma, • Liver, biliary tract and Pancreatic carcinoma 	15 Hours
Unit-12	<p>Administration and management of GE unit</p> <ul style="list-style-type: none"> • Design & layout • Staffing, • Equipment, supplies, • Infection control; Standard safety measures • Quality Assurance:-Nursing audit –records /reports, Norms, policies and protocols • Practice standards 	5 Hours
Unit-13	<p>Education and training in GE care</p> <ul style="list-style-type: none"> • Staff orientation, training and development • In-service education program 	5 Hours

	<ul style="list-style-type: none"> • Clinical teaching programs 	
REFERENCES:	<ol style="list-style-type: none"> 1. Black M.J., Hawks H.J, <i>Medical Surgical Nursing, Clinical Management for Positive Outcome</i>, 7th edition, Sauders, Elsevier. 2. Urban, A.N., GreenlacK.K,“<i>Guidelines for Critical Care Nursing</i>, Mosby. 3. Wood L.S., Frelicher S.E, <i>Fetal Cardiac Nursing</i>, Lippincott Williams &Wilkins. 4. Gulanic, Klopp, Galnes, <i>Fetal Nursing Care Plans Nursing Diagnosis and intervention</i>. 5. Lewis, Collier &Heitkemper, <i>Medical Surgical Nursing Assessment and Management of Clinical Problems</i>. 6. Baughman Diane C, <i>Hand Book for Surgical Nursing</i>, 2nd edition, published by Lipincott, NewYork. 7. Philip &Wilma J, <i>Medical- Surgical Nursing</i>, 3rd edition, published by B.T Pubn Bangalore. 5. Lewis, Collier &Heitkemper, <i>Medical Surgical Nursing Assessment and Management of Clinical Problems</i>. 6. Baughman Diane C, <i>Hand Book for Surgical Nursing</i>, 2nd edition, published by Lipincott, NewYork. 7. Philip &Wilma J, <i>Medical- Surgical Nursing</i>, 3rd edition, published by B.T Pubn Bangalore. 	

Course Code: MSN251	Skill Enhancement Course -3	L-0 T-0 P-46 C-12
	M.Sc. Nursing II Year CARDIO VASCULAR THORACIC NURSING (P)	
CO1.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in cardio-vascular & thoracic nursing.	
CO2.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of cardio-vascular & thoracic clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO3.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
	Essential Nursing Skills Procedures Observed <ul style="list-style-type: none"> • Echo cardiogram • Ultrasound • Monitoring JVP, CVP • CT SCAN • MRI • Pet SCAN • Angiography • Cardiac cathetrisation • Angioplasty • Various Surgeries • Any other 	
	Procedures Assisted <ul style="list-style-type: none"> • Arterial blood gas analysis • Thoracentesis • Lung biopsy • Computer assisted tomography (CAT Scan) • M.R.I. • Pulmonary angiography • Bronchoscopy • Pulmonary function test • ET tube insertion • Tracheostomy tube insertion • Cardiac catheterization • Angiogram • Defibrillation • Treadmill test 	

	<ul style="list-style-type: none"> • Echo cardiography • Doppler ultrasound • Cardiac surgery • Insertion of chest tube • CVP Monitoring • Measuring pulmonary artery pressure by Swan-Ganz Catheter • Cardiac Pacing
	<p>Procedures Performed</p> <ul style="list-style-type: none"> • Preparation of assessment tool for CT client (Cardiac, thoracic and vascular). • ECG – Recording, Reading, Identification of abnormalities • Oxygen therapy – Cylinder, central supply, Catheter, nasal canula, mask, tent Through ET and Tracheostomy tube Manual resuscitation bag • Mechanical ventilation • Spirometer • Tuberculen skin test • Aerosal therapy • Nebulizer therapy • Water seal drainage • Chest physiotheray including – Breathing Exercises Coughing Exercises Percussion & Vibration • Suctioning – Oropharyngeal, nasotracheal, Endotracheal Through tracheostomy tube. • Artificial airway cuff maintenance • CPR • Care of client on ventilator • Identification of different – Arrhythmias Abnormal pulses, respirations B.P. Variation Heart sounds Breath sounds • Pulse oxymetry • Introduction of intracath • Bolus I.V. Injection • Life line • Maintenance of “Heplock” • Subcutaneous of Heparin • Obtaining leg measurements to detect early swelling in thrombophlebite • Identification of Homans signs • Buerger – Allen exer <p style="text-align: center;">Maintenance of log book for various activities</p>

Course Code: MSN252	Skill Enhancement Course -3		L-0
	M.Sc. Nursing		T-0
	II Year		P-46
	CRITICAL CARE NURSING (P)		C-12
CO1.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in critical care nursing.		
CO2.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of critical clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.		
CO3.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.		
	ESSENTIAL CRITICAL CARE NURSING SKILLS Procedures Observed <ul style="list-style-type: none"> • CT Scan • MRI • EEG • Hemodialysis • Endoscopic Retrograde cholangio Pancreaticogram(ERCP) • Heart/ Neuro / GI. / Renal Surgeries 		
	Procedures Assisted <ul style="list-style-type: none"> • Advanced life support system • Basic cardiac life support • Arterial line/arterial pressure monitoring/blood taking • Arterial blood gas • ECG recording • Blood transfusion • IV Cannulation therapy • Arterial Catheterization • Chest tube insertion • Endotracheal intubations • Ventilation • Insertion of central line/cvp line • Connecting lines for dialysis 		
	Procedure Performed Airway management <ul style="list-style-type: none"> • Application of oropharyngeal airway • Oxygen therapy • CPAP (Continuous Positive Airway pressure) 		

	<ul style="list-style-type: none"> • Care of tracheostomy • Endotracheal extubation <p>Cardiopulmonary resuscitation, Basic cardiac life support, ECG</p> <ul style="list-style-type: none"> • Monitoring of critically ill patients – clinically with monitors, capillary refill time • (CRT) assessment of jaundice, ECG. • Gastric lavage • Assessment of critically ill patients Identification & assessment of risk factors, Glasgo coma scale, and dolls eye movement, arterial pressure monitoring, cardiac output/pulmonary artery pressure monitoring, and detection of life threatening abnormalities • Admission & discharge of critically ill patients • Nutritional needs – gastrostomy feeds, pharyngeal feeds, jejunostomy feeds, TPN, formula preparation & patient education. • Assessment of patient for alteration in blood sugar levels monitoring blood sugar levels periodically & administering insulin periodically. • 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. • Setting up dialysis machine and starting, monitoring and closing dialysis • Procedures for prevention of infections: Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions. • Collection of specimen. • Setting, use & maintenance of basic equipment, ventilator, O2 analyzer, monitoring equipment, transducers, defibrillator, infusion & syringe pumps, centrifuge machine. 	
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Course Code: MSN253	Skill Enhancement Course -3	L-0 T-0 P-46 C-12
	M.Sc. Nursing	
	II Year	
	ONCOLOGY NURSING (P)	
CO1.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in oncology nursing.	
CO2.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of oncology clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO3.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
	Procedures Observed <ul style="list-style-type: none"> • CT Scan • MRI • PET Scan (Positron Emission Tomography) • Ultra sound • Mammography • Radio Nuclide Imaging • Bone Scan • Thyroid Function Test • Functional and Metabolic Imaging • Transportation of radioactive materials • Others 	
	Procedures Assisted <ul style="list-style-type: none"> • IV cannulation – Open method • Chemotherapy • Radiotherapy – Brachytherapy – Low Density Radiation, High Density Radiation. • Interstitial implantation • Bio-therapy and Gene therapy • Teletherapy – Treatment planning • Bone marrow aspiration and biopsy • Biopsy – tissue • FNAC – Fine Needle Aspiration Cytology and biopsy • Advance Cardiac life support • Endotracheal intubation • Defibrillation Ventilation • Tracheostomy 	

	<ul style="list-style-type: none"> • Thoracentesis • Paracentesis • Lumbar Puncture • Arterial Blood Gas • Nerve Block • Chest tube insertion • Intercostal drainage • CVP monitoring 	
	<p>Procedure Performed</p> <ul style="list-style-type: none"> • Screening for cancer • Assessment of pain • Assessment of Nutritional status • Care of Tracheostomy • Endotracheal intubation • Gastric gavage • Pap smear • IV cannulation • Care of surgical flaps • Care of ostomies • Blood transfusion and component therapy • Counseling • Practice standard safety measures • Care of dead body and mortuary formalities 	
	<p>Other procedures (As per the institutional protocol):</p> <ul style="list-style-type: none"> • Alternative therapies 	

Course Code: MSN254	Skill Enhancement Course -3	L-0 T-0 P-46 C-12
	M.Sc. Nursing	
	II Year	
	NEUROSCIENCES NURSING (P)	
CO1.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in Neuro nursing.	
CO2.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of Neuro clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO3.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
	ESSENTIAL NEURO NURSING SKILLS: Procedures Observed <ul style="list-style-type: none"> • CT scan • MRI • PET • EEG • EMG • Sleep pattern studies/Therapy • Radio graphical studies • Neuro surgeries • Nerve conduction studies • Ultrasound studies • Any other 	
	Procedures Assisted <ul style="list-style-type: none"> • Advanced Cardiac life support • Lumbar Puncture • Biopsies – muscle, nerve and Brain • Arterial Blood Gas • ECG Recording • Blood transfusion • IV cannulation – open method • Endotracheal intubation • Ventilation • Tracheostomy • ICP monitoring • Gama Knife • Cereberal angiography 	

	<ul style="list-style-type: none"> • Myelography • Neuro surgeries 	
	<p>Procedures Performed:</p> <p>Airway management</p> <ul style="list-style-type: none"> • Application of Oro Pharyngeal Airway • Care of Tracheostomy • Conduct Endotracheal Intubation • Use of AMBU bag, artificial respirators • Setting of Ventilators and Care of patients on ventilators • Cardio Pulmonary Resuscitation -Defibrillation • Neurological assessment -Glasgow coma scale • Gastric Lavage • IV Cannulation • Administration of emergency IV Drugs, fluid • Care of patients with incontinence, bladder training <p>Catheterization</p> <ul style="list-style-type: none"> • Care of patients on traction related to the neurological conditions • Blood Administration. • Muscle strengthening exercises • Guidance and counseling • Monitoring – management and care of monitors. 	

Course Code: MSN255	Skill Enhancement Course -3	L-0 T-0 P-46 C-12
	M.Sc. Nursing	
	II Year	
	NEPHROLOGY NURSING(P)	
CO1.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in nephrology nursing.	
CO2.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of nephrology clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO3.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
	Procedures Observed <ul style="list-style-type: none"> • CT Scan • MRI • Radiographic studies • Urodynamics • Hemodialysis • Renal Surgeries 	
	Procedures Assisted <ul style="list-style-type: none"> • Blood transfusion • I V cannulation therapy • Arterial Catheterization • Insertion of central line/cvp line • Connecting lines for dialysis • Peritoneal dialysis • Renal biopsy • Endoscopies- Bladder, urethra 	
	Procedure Performed <ul style="list-style-type: none"> • Health assessment • Insertion of urethral and suprapubic catheters • Urine analysis • Catheterisation • Peritoneal dialysis • Bladder irrigation • Care of ostomies • Care of urinary drainage • Bladder training 	

	<ul style="list-style-type: none">• Care of vascular access• Setting up dialysis machine and starting, monitoring and closing dialysis• Procedures for prevention of infections:• Hand washing, disinfection & sterilization surveillance, and fumigation universal precautions.• Collection of specimen.• Administration of drugs: IM, IV injection, IV cannulation & fixation of infusion pump, calculation of dosages, blood• Administration. monitoring -fluid therapy, electrolyte imbalance,• Nutritional needs diet therapy & patient education.• Counselling	
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Course Code: MSN256	Skill Enhancement Course -3	L-0 T-0 P-46 C-12
	M.Sc. Nursing	
	II Year	
	ORTHOPEdic NURSING (P)	
CO1.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in orthopedic nursing.	
CO2.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of orthopedic clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO3.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
	Procedures Observed <ul style="list-style-type: none"> • X- Ray • Ultrasound • MRI • C T Scan/bone scans • Arthroscopy • Electrothermally – assisted capsule shift or ETAC (Thermal capsulorrhaphy) • Fluroscopy • Electromyography • Myelography • Discography¹² • Others 	
	Procedures Assisted <ul style="list-style-type: none"> • Blood Transfusion • IV cannulation and therapy • Ventilation • Various types of tractions • Orthopedic surgeries – Arthrocentesis, Arthroscopy, Bone lengthening, Arthrodesis, grafting, Fractures fixation, reconstructive, reimplantation, replantation, spinal decompression, transplantation of bone, muscle or articular cartilage, autografting, allografting. • Injection – Intra articular, intra osseous. • Advance Life Support 	
	Procedures Performed <ul style="list-style-type: none"> • Interpretation of X - ray films. • Application and removal of splints, casts, and braces. 	

	<ul style="list-style-type: none"> • Care of tractions – skin and skeletal traction, pin site care. • Cold therapy. • Heat therapy • Hydrotherapy • Therapeutic exercises • Use of TENS (Transcutaneous electrical nerve stimulation) • Techniques of transportation • Crutch walking, walkers, wheel chair. • Use of devices for activities of daily living and prevention of deformities. • Administration of drugs: IV injection, IV cannulation, and Blood transfusion. • Procedures for prevention of infections: disinfection and sterilization, surveillance, fumigation. • Special skin/ part preparations for orthopedic surgeries. • Surgical dressings – Debridement. • Bladder and bowel training 	
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Course Code: MSN257	Skill Enhancement Course -3	L-0 T-0 P-46 C-12
	M.Sc. Nursing	
	II Year	
	GASTRO ENTEROLOGY NURSING (P)	
CO1.	Applying the concepts, theories & principles of nursing science in nursing practice, nursing administration & conduction of research in gastro enterology nursing.	
CO2.	Demonstrating the advance competence in essential nursing skills & handling gadgets used for critical care of gastro enterology clients, leadership qualities & function effectively as nurse educator, nurse manager for personal & professional advancement.	
CO3.	Analyzing the existing care model, potential issues, future trends in nursing education & practice.	
	Procedures Assisted <ul style="list-style-type: none"> • Endoscopy room – Upper G.I. Endoscopy (Diagnostic and therapeutic). • Sigmoidoscopy • Colonoscopy • Polypectomy • Endoscopic retrograde cholangio pancreatigraphy (ERCP) • Liver biopsy • Percutaneous catheter drainage (PCD) of Pseudocyst pancreas • Abdominal paracentesis • Percutaneous aspiration of liver abscess • GE Lab: PT, HbsAg, Markers – A, B, C virus, CBP, ESR, Stool Test 	
	Procedures Performed <ul style="list-style-type: none"> • History and Physical assessment • RT intubation / extubation / aspiration/suction • Gastric lavage and gavage • Bowel wash • Therapeutic Diets • Ostomy feeding • Stoma care • Monitoring vital parameters • Plan of inservice education programme for Nursing staff and Class-IV employees • Counseling 	

Course Code: MSN262	Research Project Report -01	L-0
	M.Sc. Nursing	T-0
	II Year	P-14
	DISSERTATION	C-4
CO-1	Understanding research process and its organization.	
CO-2	Conduct Nursing research Project as used within the Health care setting	
CO-3	Critical evaluate the use of Project conducted.	
S. No	Activities	Scheduled Time
1.	Submission of the research proposal	End of 9th month of I Year
2.	Submission of dissertation Final	End of 9th month of II Year
	Note: - Administrative approval and ethical clearance should be obtained	
Guidelines:	<ul style="list-style-type: none"> • During the clinical training a student is supposed to conduct a research study on the basis of area of specialization and nursing management based on his/her interest. • Project work would be under the supervision of Main guide and a co-guide appointed by the Principal College of Nursing. • There should be a research committee in each college comprising of minimum 5 members chaired by the Principal, College of Nursing. • Before the submission of project the student will be require to make a presentation before the research committee through power point presentation. • The research project work should cover the following area. <ul style="list-style-type: none"> • Introduction of topic and need for the study • Review of literature on the selected topic and reporting • Formulation of problem statement, objective and hypotheses • Development of theoretical/conceptual framework. • Research methodology conducted during the training period • Analysis and interpretation • Discussion • Summary & Conclusion. • Bibliography 	
	Maintenance of log book for various activities	

DISSERTATION INTERNAL EVALUATION SCHEME

Sl. No.	Criteria	Max. Marks 50
Dissertation Work Evaluation Criteria (25)		
1	Problem identified:	1.5
2	Review of literature:	1.5
3	Methodology:	2.5
4	Analysis and interpretation of data:	3.5
5	Summary and discussion:	1.5
6	Abstract, References and Appendices	1
7	Style of Writing Research Report	1
8	Problem statement presentation	1.5
9	Synopsis/Research proposal presentation	3.5
10	Narrative Review presentation.	1.5
11	Research tool presentation	2.5
12	Pilot study presentation	1
13	Analysis of data presentation	2.5
Dissertation Viva Voce - Evaluation Criteria (25)		
1	Presentation of study	10
2	Ability to defend study	5
3	Ability to Critique Study	5
4	Knowledge on Research Methodology	5
Total		50

Course Code: TMUPS201	Value Added Course -2	L-2
	M.Sc. Nursing	T-1
	II Year	P-0
	MANAGING SELF	C-0
Course Perspective	In this course, students will be taught to develop and become team player for creativity and innovation in organization they work. Students will be taught methods to develop cordial relation using “Johari Window”, which will help them in managing change in their organizations. Since they would be entering in the world of work, Special emphasis is also given to manners, etiquettes, negotiation, stress and conflict management. Finally, students will be rigorously prepared facing various selection tools like – GD, PI and resume preparation.	
Course Outcomes	At the end of the semester, the learner will be able to:	
CO1.	Communicating effectively in a variety of public and interpersonal settings.	
CO2.	Applying concepts of change management for growth and development by understanding inertia of change and mastering the Laws of Change.	
CO3.	Analyzing scenarios, synthesizing alternatives and thinking critically to negotiate, resolve conflicts and develop cordial interpersonal relationships.	
CO4.	Functioning in a team and enabling other people to act while encouraging growth and creating mutual respect and trust.	
CO5.	Handling difficult situations with grace, style, and professionalism.	
Course Contents:		
Unit – I	Intrapersonal Skills <ul style="list-style-type: none"> • Creativity and Innovation • Understanding self and others (Johari window) • Stress Management • Managing Change for competitive success • Handling feedback and criticism 	(8 hours)
Unit – II	Interpersonal Skills <ul style="list-style-type: none"> • Conflict management • Development of cordial interpersonal relations at all levels • Negotiation • Importance of working in teams in modern organisations • Manners, etiquette and net etiquette 	(12 hours)
Unit – III	Interview Techniques <ul style="list-style-type: none"> • Job Seeking • Group discussion (GD) • Personal Interview 	(10 hours)

Evaluation Scheme	Faculty led Continuous Evaluation																												
	<ul style="list-style-type: none"> • Students will be evaluated on the score of 100 in every course. • Evaluation of soft skill will follow continuous evaluation method. <p><u>Details are as follows:</u></p> <p>2) Total Marks for each semester 100</p> <p>d) Internal: 40 marks for Class Performance (Every class activity will carry 8 marks; each students can participate in maximum of 5 activities).</p> <p>e) External: 50 marks for External evaluation at the time of external exams (Based on GD and PIs).</p> <p>f) Attendance: 10 marks for Attendance in the training sessions</p> <table border="1" data-bbox="696 674 1151 1024"> <thead> <tr> <th>S No</th> <th>% Attendance <</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>30</td> <td>0</td> </tr> <tr> <td>2.</td> <td>30-40</td> <td>2</td> </tr> <tr> <td>3.</td> <td>40-50</td> <td>4</td> </tr> <tr> <td>4.</td> <td>50-60</td> <td>5</td> </tr> <tr> <td>5.</td> <td>60-70</td> <td>6</td> </tr> <tr> <td>6.</td> <td>70-80</td> <td>7</td> </tr> <tr> <td>7.</td> <td>80-90</td> <td>8</td> </tr> <tr> <td>8.</td> <td>90-100</td> <td>10</td> </tr> </tbody> </table> <p>In a summary, 100 marks = 40(Class performance) + 50(External) + 10(Attendance)</p>	S No	% Attendance <	Marks	1.	30	0	2.	30-40	2	3.	40-50	4	4.	50-60	5	5.	60-70	6	6.	70-80	7	7.	80-90	8	8.	90-100	10	
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8.	90-100	10																											
References	<ul style="list-style-type: none"> • Robbins, Stephen P., Judge, Timothy A., Vohra, Neharika, Organizational Behaviour (2018), 18th ed., Pearson Education • Burne, Eric, Games People Play (2010), Penguin UK • Carnegie, Dale, How to win friends and influence people (2004), RHUK • Rathgeber, Holger, Kotter, John, Our Iceberg is melting (2017), Macmillan • Steinburg, Scott, Nettiquette Essentials (2013), Lulu.com • https://www.hloom.com/resumes/creative-templates/ • https://www.mbauniverse.com/group-discussion/topic.php • https://www.indeed.com/career-advice/interviewing/job-interview-tips-how-to-make-a-great-impression 																												