



# **MAM University**

**Maganbhai Adenwala Mahagujarat  
University**

**FACULTY OF NURSING  
DINSHA PATEL COLLEGE OF  
NURSING**

**CURRICULUM  
M.Sc. Nursing**

# **Maganbhai Adenwala Mahagujarat University**

## **FACULTY OF NURSING DINSHA PATEL COLLEGE OF NURSING** Behind Hyundai Showroom, College Road Nadiad-387001

### **RULES AND REGULATIONS**

**Course Name:-** Master of Science in Nursing

**Course Duration:-** 2 years

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# **Maganbhai Adenwala Mahagujarat University**

## **FACULTY OF NURSING DINSHA PATEL COLLEGE OF NURSING**

Behind Hyundai Showroom, College Road Nadiad-387001

**Course Name:** Master of Science in Nursing

**Course Duration:** 2 Years

### **RULES AND REGULATIONS**

**Note:** These rules and regulations are formed as per directives of Indian Nursing Council and Memorandum of Association of MAM University.

**1. Faculty:**

This course shall be under the Faculty of Nursing.

**2. Program Name:**

Master of Science in Nursing [M.Sc. Nursing]

**3. Criteria for admission to M.Sc. (N) Course:**

1. The candidate should be a registered nurse and registered midwife or equivalent with any State Nursing Council Registration.
2. The minimum educational requirements shall be the passing of B.Sc. Nursing/ Post Basic B.Sc. Nursing with minimum of 55% aggregate marks.
3. The candidate should have undergone B.Sc. Nursing/ Post Basic B.Sc. Nursing in an institution which is recognized by Indian Nursing Council.
4. Minimum one year work experience after Basic B.Sc. Nursing.
5. Minimum one year work experience after B.Sc. Nursing (Basic) / Post Basic B.Sc. Nursing.
6. Candidates shall be medically fit.
7. 5% relaxation of marks for SC /ST candidates may be given.
8. Selection of candidates shall be based on the merit.

#### 4. Course duration details:

Particulars	Time Duration
Course Duration	02 Years
Weeks available per year	52 weeks
Vacation	04 weeks
Gazetted Holidays	03 weeks
Examination	02 weeks
Available weeks	43 weeks
40 hours per week = 1720 Hours ( 43weeks x 40 hrs)	
Total hours for 2 year = 3440 Hours	

#### 5. Clinical Specialty subjects :

1. Medical Surgical Nursing (Cardio Vascular and Thoracic Nursing ; Critical Care Nursing; Oncology Nursing; Neurosciences Nursing; Nephro-Urology Nursing, Orthopedic Nursing; Gastro Enterology Nursing)
2. Mental Health (Psychiatric) Nursing
3. Community Health Nursing
4. Obstetrics and Gynecological Nursing
5. Child Health (Pediatric) Nursing

#### 6. Hours of instructions:

##### First Year

Sr. No.	Subject	Theory Hours	Practical Hours
1.	Nursing education	150	150
2.	Advance nursing practice	150	200
3.	Nursing Research and statistics	150	100
4.	*Clinical Specialty –I	150	650
	<b>Total</b>	<b>600</b>	<b>1100</b>

##### Second Year

Sr. No.	Subject	Theory Hours	Practical Hours
1.	Nursing Management	150	150
2.	Nursing Research (Dissertation)	--	300
3.	*Clinical Specialty - II	150	950
	<b>Total</b>	<b>300</b>	<b>1400</b>

**Educational Visits = 2 Weeks**

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

**7. Sanctioned seats (as per INC): 20**

1	Medical Surgical Nursing	6
2	Community Health Nursing	3
3	Obstetrics and Gynecological Nursing	3
4	Pediatric (Child Health) Nursing	5
5	Psychiatric (Mental Health) Nursing	3

**8. Scheme of Examination:**

**First Year**

Sr. No.	Subject Theory	Hrs	Theory		Practical	
			Int.	Ext.	Int.	Ext.
1.	Nursing Education	03	25	75	50	50
2.	Advanced Nursing Practice	03	25	75	--	--
3.	Nursing Research & Statistics	03	25*	75*	--	--
4.	Clinical Specialty	03	25	75	100	100
<b>Total</b>			<b>100</b>	<b>300</b>	<b>150</b>	<b>150</b>

**External: \*Nursing Research 50 and Statistics 25 Marks Internal:**

**\*Nursing Research 15 and Statistics 10 Marks**

**Second Year**

Sr. No.	Subject Theory	Hrs	Theory		Practical	
			Int.	Ext.	Int.	Ext.
1.	Nursing Administration	03	25	75	--	--
2.	Dissertation and Viva	--	--	--	100	100
3.	Clinical Specialty	03	25	75	100	100
<b>Total</b>			<b>50</b>	<b>150</b>	<b>200</b>	<b>200</b>

**8a) Eligibility for appearing for University (PU) examination:**

1. A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory in each subject for appearing for the examination.
2. The candidate must have 100% attendance in each of the clinical/practical areas.

**9) Rules of the Examination:**

1. The candidates must secure a minimum of 50% marks in each head of passing and 50% marks in the aggregate in the University Examination. Theory and Practical/ Clinical examination will be treated as separate heads of passing.
2. If a candidate fails either in theory or practical paper, he/she has to re- appear for both the papers (Theory and Practical).
3. The maximum number of attempts permitted for each paper is 3 including the first attempt.
4. The maximum period to complete the course successfully should not exceed four years.
5. A candidate failing in more than two subjects will not be promoted to the second year.
6. No candidate shall be admitted to the subsequent second year examination unless the candidate has passed the first year examination.
7. Maximum number of candidates for all practical examinations should not exceed 10 per day.
8. Supplementary examination should be conducted within six months from the announcement of the result.
9. All practical examination must be held in the respective clinical areas.
10. An Examiner should be M.Sc.(N) in concerned subject and have minimum of three years post graduate teaching experience.

**10) Classification of results**

<b>Percentage ( % )</b>	<b>Class</b>
50 - 59.99	II division
60 - 74.99	I division
75 and above	First class with distinction

- For declaring the rank, aggregate of 2 years marks to be considered.

### 11) Practical examination

- 1) 2 hours of practical examination per student.
- 2) Maximum number of 6 students per day per specialty.
- 3) The examination should be held in clinical area only for clinical specialties.
- 4) One internal and one external examiner should jointly conduct practical examination and One Internal and One External Examiner (Outside the University) should evaluate dissertation and jointly conduct viva –voce for each student.
- 5) Examiner – Nursing faculty teaching respective specialty area in M.Sc Nursing program with minimum 3 years’ experience after M.Sc Nursing.

### 12) Dissertation

- 1) Evaluation of the dissertation should be done by the examiner prior to viva
- 2) Duration: Viva-voce -minimum 30 minutes per student.
- 3) For dissertation, Internal Examiner should be the guide and External Examiner should be a Nursing Faculty/ Nursing Expert in the same clinical specialty holding Ph.D./M.Phil/M.Sc. Nursing with a minimum of 3 years’ experience in guiding the research projects for Post Graduates of Nursing.
- 4) The submission of the research proposal has to be done at the end of 9<sup>th</sup> month of First Year and Submission of Dissertation at the end of 9<sup>th</sup> month of Second Year.

### 13) Guidelines for Dissertation

Tentative Schedule for dissertation:

Sr no.	Activities	Time
1	Submission of the research proposal	End of 9 <sup>th</sup> month of I year
2	Submission of dissertation – Final	End of 9 <sup>th</sup> month of II Year

**Note:** - Administrative approval and ethical clearance should be obtained.

#### **14) Research Guides**

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

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

**2) Guide – Student/s ratio is maximum of 1:4 (including as co-guide).**

**3) Research Committee - there should be a research committee in each college comprising of minimum 5 members chaired by the Principal, College of Nursing.**



# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

### Department of Nursing

#### SYLLABUS FOR 1st Year M. Sc. Nursing Programme

#### Nursing Education (MSCN-101)

**Type of Course:** M.Sc.Nursing

#### **COURSE OUTCOME:**

- Understand different types of multimedia and correct use to A.V. aids in teaching, communication.
- Comprehend teaching skill and delivery of skill
- Develop skill of delivering effective delivery of education.

#### Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	150	-	75	50	25	-	50	200

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

#### Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<p align="center"><b>Unit 1 Introduction:</b></p> <p align="center"><b>Introduction :</b></p> <ul style="list-style-type: none"> <li>• Education :Definition, aims, concepts, philosophies &amp; their education implications,</li> <li>• Impact of Social, economical, political &amp; technological changes on education:               <ul style="list-style-type: none"> <li>○ Professional education</li> <li>○ Current trends and issues in education</li> <li>○ Educational reforms and National Educational policy, various educational commissions-reports</li> </ul> </li> <li>• Trends in development of nursing education in India</li> </ul>	7%	10

3	<p align="center"><b>Unit 3 Instructional media and methods: Instructional media and methods</b></p> <ul style="list-style-type: none"> <li>• Key concepts in the selection and use of media in education</li> <li>• Developing learning resource material using different media</li> <li>• Instructional aids ± types, uses, selection, preparation, utilization.</li> <li>• Teacher's role in procuring and managing instructional Aids ± Project and non-projected aids, multi media, video-tele conferencing etc</li> </ul>	7%	10
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2	<p align="center"><b>Unit 2 Teaching ± Learning Process: Teaching ± Learning Process</b></p> <ul style="list-style-type: none"> <li>• Concepts of teaching and learning: Definition, theories of teaching and learning, relationship between teaching and learning.</li> <li>• Educational aims and objectives; types, domains, levels, elements and writing of educational objectives</li> <li>• Competency based education(CBE) and outcome based education(OBE)</li> <li>• Instructional design: Planning and designing the lesson, writing lesson plan : meaning, its need and importance, formats.</li> <li>• Instruction strategies ± Lecture, discussion, demonstration, simulation, laboratory, seminar, panel, symposium, problem solving, problem based learning (PBL), workshop, project, role- play(socio- drama), clinical teaching methods, programmed instruction, self directed learning(SDL), micro teaching, computer assisted instruction(CAI), computer assisted learning(CAL)</li> </ul>	13%	20
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4	<p align="center"><b>Unit 4 Measurement and evaluation:</b></p> <p align="center"><b>Measurement and evaluation:</b></p> <ol style="list-style-type: none"> <li>1. Concept and nature of measurement and evaluation, meaning, process, purposes, problems in evaluation and measurement.</li> <li>2. Principles of assessment, formative and summative assessment- internal assessment external examination, advantages and disadvantages.</li> <li>3. Criterion and norm referenced evaluation,</li> </ol>	7%	10
5	<p><b>Unit 5 standardized and non-standardized tests:</b></p> <p><b>Standardized and non-standardized tests :</b></p> <ul style="list-style-type: none"> <li>• Meaning, characteristics, objectivity, validity, reliability, usability, norms, construction of tests- <ul style="list-style-type: none"> <li>◦ Essay, short answer questions and multiple choice questions.</li> <li>◦ Rating scales, checklist, OSCE/OSPE(Objective structured clinical/practical examination)</li> <li>◦ Differential scales, and summated scales, sociometry, anecdotal record, attitude scale, critical incident technique</li> </ul> </li> <li>• Question bank-preparation, validation, moderation by panel, utilization</li> <li>• Developing a system for maintaining confidentiality</li> </ul>	8%	12
6	<p><b>Unit 6 Administration, Scoring and Reporting:</b></p> <p align="center"><b>Administration, Scoring and Reporting</b></p> <ul style="list-style-type: none"> <li>• Administering a test; scoring, grading versus marks</li> <li>• Objective tests, scoring essay test, methods of scoring, Item analysis.</li> </ul>	5%	8
7	<p align="center"><b>Unit 7 Standardized Tools:</b></p> <p align="center"><b>Standardized Tools</b></p> <ul style="list-style-type: none"> <li>• Tests of intelligence aptitude, interest, personality, achievement, socio-economic status scale, tests for special mental and physical abilities and disabilities.</li> </ul>	8%	12
8	<p align="center"><b>Unit 8 Nursing Educational programs:</b></p> <p align="center"><b>Nursing Educational programs</b></p> <ul style="list-style-type: none"> <li>• Perspectives of nursing education: Global and national.</li> <li>• Patterns of nursing education and training programmes in India.</li> </ul> <p align="center">Non-university and University programs: ANM, GNM, Basic B.Sc. Nursing, Post Certificate B.Sc.</p>	3%	5

	Nursing, M.Sc(N) programs, M.Phil and Ph.D) in Nursing, post basic diploma programs, nurse practitioner programs.		
9	<p align="center"><b>Unit 9 Continuing Education in Nursing:</b></p> <p align="center"><b>Continuing Education in Nursing</b></p> <ul style="list-style-type: none"> <li>• Concepts ± Definition, importance, need scope, principles of adult learning, assessments of learning needs, priorities, resources.</li> <li>• Program planning, implementation and evaluation of continuing education programs.</li> <li>• Research in continuing education.</li> <li>• Distance education in nursing.</li> </ul>	8%	12
10	<p align="center"><b>Unit 10 Curriculum Development:</b></p> <p align="center"><b>Curriculum Development</b></p> <ul style="list-style-type: none"> <li>• Definition, curriculum determinants, process and steps of curriculum development, Curriculum models, Types and framework.</li> <li>• Formulation of philosophy, objectives, selection and organization of learning experiences; master plan, course plan, unit plan.</li> <li>• Evaluation strategies, process of curriculum change, role of students, faculty, administrators, statutory bodies and other stakeholders.</li> <li>• Equivalency of courses: Transcripts, credit system.</li> </ul>	7%	10
11	<p align="center"><b>Unit 11 Teacher preparation: Teacher preparation</b></p> <ul style="list-style-type: none"> <li>• Teacher ± roles &amp; responsibilities, functions, characteristics, competencies, qualities,</li> <li>• Preparation of professional teacher</li> <li>• Organizing professional aspects of teacher preparation programs</li> <li>• Evaluation: self and peer</li> <li>• Critical analysis of various programs of teacher education in India.</li> </ul>	5%	8
12	<p align="center"><b>Unit 12 Guidance and counseling:</b></p> <p align="center"><b>Guidance and counseling</b></p> <ul style="list-style-type: none"> <li>• Concept, principles, need, difference between guidance and counseling , trends and issues.</li> <li>• Guidance and counseling services : diagnostic and remedial.</li> <li>• Coordination and organization of services.</li> <li>• Techniques of counseling : Interview, case work,</li> </ul>	7%	10
	<ul style="list-style-type: none"> <li>• characteristics of counselor, problems in counseling.</li> <li>• Professional preparation and training for counseling.</li> </ul>		

13	<p><b>Unit 13 Administration of Nursing Curriculum:</b></p> <p><b>Administration of Nursing Curriculum</b></p> <ul style="list-style-type: none"> <li>• Role of curriculum coordinator ± planning, implementation and evaluation.</li> <li>• Evaluation of educational programs in nursing- course and program.</li> <li>• Factors influencing faculty staff relationship and techniques of working together.</li> <li>• Concept of faculty supervisor (dual) position.</li> <li>• Curriculum research in nursing.</li> <li>• Different models of collaboration between education and service</li> </ul>	10%	15
14	<p><b>Unit 14 Management of nursing educational institutions:</b></p> <p><b>Management of nursing educational institutions</b></p> <ul style="list-style-type: none"> <li>• Planning, organizing, staffing, budgeting, recruitment, discipline, public relation, performance appraisal, welfare services, library services, hostel,</li> </ul>	7%	10
15	<p><b>Unit 15:</b></p> <ul style="list-style-type: none"> <li>• Development and maintenance of standards and accreditation in nursing education programs.</li> <li>• Role of Indian Nursing Council, State Registration Nursing Councils, Boards and University.</li> <li>• Role of Professional associations and unions.</li> </ul>	3%	5

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

**Reference Books:**

1. Comprehensive Textbook of Nursing Education (TextBook) SODHI JASPREET KAUR; JPB; First, 2017
2. Nursing Education (TextBook) Basavanhappa; JPB; second edition (2009), 2009
3. Nursing Education, (TextBook) Neeraja,; New Delhi, Jaypee Brother, 2004
4. Text Book of Nursing Education Venkatesan Latha , Poonam Joshi; Elsevier Health; First,

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 1st Year M.Sc. Nursing Programme

### Advance Nursing Practice (MSCN-102)

Type of Course: M.Sc. Nursing

**Course outcome:**

- Function in hospitals, day care Centre, DE addiction Centre, rehabilitation Centre, vocational Centre's.
- Coordinate higher managerial level functions and work on different care based projects.
- Perform health assessment and help in promoting good health.
- Collaborate in any projects and programs related to maternal and child health
- Demonstrate the growth and development monitoring and counseling.

**Teaching and Examination Scheme:**

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	200	-	75	-	25	-	-	100

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

**Contents:**

Sr.	Topic	Weightage	Teaching Hrs.
1	<p style="text-align: center;"><b>Unit 1 Nursing as a Profession:</b></p> <p style="text-align: center;"><b>Nursing as a Profession</b></p> <ul style="list-style-type: none"> <li>• History of development of nursing profession, characteristics, criteria of the profession, perspective of nursing profession- national, global</li> <li>• Code of ethics(INC), code of professional conduct(INC), autonomy and accountability, assertiveness, visibility of nurses, legal considerations,</li> <li>• Role of regulatory bodies</li> <li>• Professional organizations and unions-self defense, individual and collective bargaining</li> <li>• Educational preparations, continuing education, career opportunities, professional advancement &amp; role and scope of nursing education.</li> <li>• Role of research, leadership and management.</li> <li>• Quality assurance in nursing (INC).</li> </ul>	7%	10
	<ul style="list-style-type: none"> <li>• Futuristic nursing.</li> </ul>		
2	<p style="text-align: center;"><b>Unit 2 Health care delivery:</b></p> <p style="text-align: center;"><b>Health care delivery</b></p> <ul style="list-style-type: none"> <li>• Health care environment, economics, constraints, planning process, policies, political process vis a vis nursing profession.</li> <li>• Health care delivery system- national, state, district and local level.</li> <li>• Major stakeholders in the health care system-Government, non- govt, Industry and other professionals.</li> <li>• Patterns of nursing care delivery in India.</li> <li>• Health care delivery concerns, national health and family welfare programs, inter-sectoral coordination, role of non- governmental agencies.</li> <li>• Information, education and communication (IEC).</li> <li>• Tele-medicine.</li> </ul>	3%	5

3	<p style="text-align: center;"><b>Unit 3 Genetics:</b></p> <p style="text-align: center;"><b>Genetics</b></p> <ul style="list-style-type: none"> <li>• Review of cellular division, mutation and law of inheritance, human genome project ,The Genomic era.</li> <li>• Basic concepts of Genes, Chromosomes &amp; DNA.</li> <li>• Approaches to common genetic disorders.</li> <li>• Genetic testing ± basis of genetic diagnosis, Pre symptomatic and predisposition testing, Prenatal diagnosis &amp; screening, Ethical, legal &amp; psychosocial issues in genetic testing.</li> <li>• Genetic counseling.</li> <li>• Practical application of genetics in nursing.</li> </ul>	7%	10
4	<p style="text-align: center;"><b>Unit 4 Epidemiology:</b></p> <p style="text-align: center;"><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li>• Scope, epidemiological approach and methods,</li> <li>• Morbidity, mortality,</li> <li>• Concepts of causation of diseases and their screening,</li> <li>• Application of epidemiology in health care delivery, Health surveillance and health informatics</li> <li>• Role of nurse</li> </ul>	7%	10
5	<p style="text-align: center;"><b>Unit 5 Bio-Psycho social pathology:</b></p> <p style="text-align: center;"><b>Bio-Psycho social pathology</b></p> <ul style="list-style-type: none"> <li>• Pathophysiology and Psychodynamics of disease causation</li> <li>• Life processes, homeostatic mechanism, biological and psycho-social dynamics in causation of disease, life style</li> <li>• Common problems: Oxygen insufficiency, fluid and electrolyte imbalance, nutritional problems, hemorrhage</li> <li>• Jand shock, altered body temperature, unconsciousness, sleep pattern and its disturbances, pain, sensory deprivation.</li> <li>• Treatment aspects: pharmacological and pre- post operative care aspects,</li> <li>• Cardio pulmonary resuscitation.</li> <li>• End of life Care</li> <li>• Infection prevention (including HIV) and standard safety measures, bio-medical waste management.</li> <li>• Role of nurse- Evidence based nursing practice; Best practices</li> <li>• Innovations in nursing</li> </ul>	13%	20
6	<p style="text-align: center;"><b>Unit 6 Philosophy and Theories of Nursing:</b></p> <p style="text-align: center;"><b>Philosophy and Theories of Nursing</b></p> <ul style="list-style-type: none"> <li>• Values, Conceptual models, approaches.</li> <li>• Nursing theories: Nightingale's, Henderson's, Roger's, Peplau's, Abdella's, Lewine's, Orem's, Johnson's, King's, Neuman's, Roy's, Watson parse, etc and their</li> </ul>	13%	20



	<ul style="list-style-type: none"> <li>• applications,</li> <li>• Health belief models, communication and management, etc</li> <li>• Concept of Self health.</li> <li>• Evidence based practice model.</li> </ul>		
7	<p><b>Unit 7 Nursing process approach:</b></p> <p><b>Nursing process approach</b></p> <ul style="list-style-type: none"> <li>• Health Assessment- illness status of patients/clients (Individuals, family, community), Identification of health- illness problems, health behaviors, signs and symptoms of clients.</li> <li>• Methods of collection, analysis and utilization of data relevant to nursing process.</li> <li>• Formulation of nursing care plans, health goals, implementation, modification and evaluation of care.</li> </ul>	7%	10
8	<p><b>Unit 8 Psychological aspects and Human relations:</b></p> <p><b>Psychological aspects and Human relations</b></p> <ul style="list-style-type: none"> <li>• Human behavior, Life processes &amp; growth and development, personality development, defense mechanisms,</li> <li>• Communication, interpersonal relationships, individual and group, group dynamics, and organizational behavior,</li> <li>• Basic human needs, Growth and development, (Conception through preschool, School age through adolescence, Young &amp; middle adult, and Older adult)</li> <li>• Sexuality and sexual health.</li> <li>• Stress and adaptation, crisis and its intervention,</li> <li>• Coping with loss, death and grieving,</li> <li>• Principles and techniques of Counseling.</li> </ul>	20%	30
9	<p><b>Unit 9 Nursing practice: Nursing practice</b></p> <ul style="list-style-type: none"> <li>• Framework, scope and trends.</li> <li>• Alternative modalities of care, alternative systems of health and complimentary therapies.</li> <li>• Extended and expanded role of the nurse, in promotive, preventive, curative and restorative health care delivery system in community and institutions.</li> <li>• Health promotion and primary health care.</li> <li>• Independent practice issues,- Independent nurse-</li> </ul>	7%	10

	midwifery practitioner. <ul style="list-style-type: none"> <li>• Collaboration issues and models-within and outside nursing.</li> <li>• Models of Prevention,</li> <li>• Family nursing, Home nursing,</li> <li>• Gender sensitive issues and women empowerment.</li> <li>• Disaster nursing.</li> <li>• Geriatric considerations in nursing.</li> <li>• Evidence based nursing practice- Best practices</li> <li>• Trans-cultural nursing.</li> </ul>		
10	<p align="center"><b>Unit 10 Computer applications for patient care delivery system and nursing practice:</b></p> <p>Computer applications for patient care delivery system and nursing practice</p> <ul style="list-style-type: none"> <li>• Use of computers in teaching, learning, research and nursing practice.</li> <li>• Windows, MS office: Word, Excel, Power Point,</li> <li>• Internet, literature search,</li> <li>• Statistical packages,</li> <li>• Hospital management information system: softwares.</li> </ul>	<b>17%</b>	<b>25</b>

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

**Reference Books:**

1. Textbook Of Advanced Nursing Practice (TextBook)  
Navdeep Kaur Brar; Jaypee Brothers Medical Publishers; 1 ,November, 2014
2. Nursing Theories: A Framework for Professional Practice  
(TextBook) Kathleen Masters, RN, DNS; Second, 2015

**Course outcome:**

- Be able to work in hospitals, day care Centre, DE addiction Centre, rehabilitation Centre, vocational Centre's.
- If the progress to a higher managerial level they can coordinate different care based projects.
- Can independently do the health assessment and help in promoting good health.
- Can collaborate in any projects and programs related to maternal and child health.
- Be able to do growth and development monitoring and counseling.

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

### SYLLABUS FOR 1st Year M.Sc.Nursing Programme

#### Nursing Research and Statistics (MSCN-103)

Type of Course: M.Sc.Nursing

#### Course outcome:

- Engage in research projects associated with various firms.
- Plan and develop research by them self
- Collectively render employment to many by starting a large-scale research study in nursing.

#### Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EX TH	EXT PR	T	CE	P	
150	-	100	-	75	-	25	-	-	100

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

#### Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<p><b>Unit 1 Introduction:</b></p> <p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Methods of acquiring knowledge ± problem solving and scientific method.</li> <li>• Research ± Definition, characteristics, purposes, kinds of research</li> <li>• Historical Evolution of research in nursing</li> <li>• Basic research terms</li> <li>• Scope of nursing research: areas, problems in nursing, health and social research</li> <li>• Concept of evidence based practice</li> <li>• Ethics in research</li> <li>• Overview of Research process</li> </ul>	10%	10

2	<p align="center"><b>Unit 2 Review of Literature:</b></p> <p align="center"><b>Review of Literature</b></p> <ul style="list-style-type: none"> <li>• Importance, purposes, sources, criteria for selection of resources and steps in reviewing literature.</li> </ul>	5%	5
3	<p align="center"><b>Unit 3 Research Approaches and designs:</b></p> <p align="center"><b>Research Approaches and designs</b></p> <ul style="list-style-type: none"> <li>• Type: Quantitative and Qualitative</li> <li>• Historical, survey and experimental ± Characteristics, types advantages and disadvantages</li> <li>• Qualitative: Phenomenology, grounded theory, ethnography</li> </ul>	12%	12
4	<p align="center"><b>Unit 4 Research problem:</b></p> <p align="center"><b>Research problem:</b></p> <ul style="list-style-type: none"> <li>• Identification of research problem</li> <li>• Formulation of problem statement and research objectives</li> <li>• Definition of terms</li> <li>• Assumptions and delimitations</li> <li>• Identification of variables</li> <li>• Hypothesis ± definition, formulation and types.</li> </ul>	10%	10
5	<p align="center"><b>Unit 5 Developing theoretical/conceptual framework: Developing theoretical/conceptual framework.</b></p> <ul style="list-style-type: none"> <li>• Theories: Nature, characteristics, Purpose and uses</li> <li>• Using, testing and developing conceptual framework, models and theories.</li> </ul>	5%	5
6	<p align="center"><b>Unit 6 Sampling:</b></p> <p align="center"><b>Sampling</b></p> <ul style="list-style-type: none"> <li>• Population and sample</li> <li>• Factors influencing sampling</li> <li>• Sampling techniques</li> <li>• Sample size</li> <li>• Probability and sampling error</li> <li>• Problems of sampling</li> </ul>	6%	6

7	<p align="center"><b>Unit 7 Tools and methods of Data collection:</b></p> <p align="center"><b>Tools and methods of Data collection:</b></p> <ul style="list-style-type: none"> <li>• Concepts of data collection</li> <li>• Data sources, methods/techniques quantitative and qualitative.</li> <li>• Tools for data collection ± types, characteristics and their development</li> <li>• Validity and reliability of tools</li> <li>• Procedure for data collection</li> </ul>	20%	20
8	<p align="center"><b>Unit 8 Implementing research plan:</b></p> <p align="center"><b>Implementing research plan</b></p> <ul style="list-style-type: none"> <li>• Pilot Study, review research plan (design)., planning for data collection, administration of tool/interventions, collection of data</li> </ul>	5%	5
9	<p align="center"><b>Unit 9 Analysis and interpretation of data: Analysis and interpretation of data</b></p> <ul style="list-style-type: none"> <li>• Plan for data analysis: quantitative and qualitative</li> <li>• Preparing data for computer analysis and presentation.</li> <li>• Statistical analysis</li> <li>• Interpretation of data</li> <li>• Conclusion and generalizations</li> <li>• Summary and discussion</li> </ul>	10%	10
10	<p align="center"><b>Unit 10 Reporting and utilizing research findings: Reporting and utilizing research findings:</b></p> <ul style="list-style-type: none"> <li>• Communication of research results; oral and written</li> <li>• Writing research report purposes, methods and style- vancouver, American Psychological Association(APA), Campbell etc</li> <li>• Writing scientific articles for publication: purposes &amp; style</li> </ul>	10%	10
11	<p align="center"><b>Unit 11 Critical analysis of research reports and articles: Critical analysis of research reports and articles</b></p>	3%	3
12	<p align="center"><b>Unit 12 Developing and presenting a research proposal: Developing and presenting a research proposal</b></p>	4%	4

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ)

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

### SYLLABUS FOR 1st Year M.Sc. Nursing Programme

#### Medical Surgical Nursing (MSCN-104)

**Type of Course:** M.Sc. Nursing

**Course outcome:**

- Function in the various settings like hospitals, colleges and specialized clinics.
- Trace the progress to a higher managerial level they can coordinate different care based projects.

**Teaching and Examination Scheme:**

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	650	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

**Contents:**

Sr.	Topic	Weightage	Teaching Hrs.
1	<p><b>Unit 1 Introduction::</b></p> <p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Historical development of Medical- Surgical Nursing in India.</li> <li>• Current status of health and disease burden in India.</li> <li>• Current concept of health.</li> <li>• Trends &amp; issues in Medical ± Surgical Nursing.</li> <li>• Ethical &amp; cultural issues in Medical ± Surgical Nursing.</li> <li>• Rights of patients.</li> <li>• National health policy, special laws &amp; ordinances relating to older people.</li> <li>• National goals.</li> <li>• Five year plans.</li> <li>• National health programs related to adult health.</li> </ul>	3%	5

2	<p><b>Unit 2 Health Assessment of patients:</b></p> <p><b>Health Assessment of patients</b></p> <ul style="list-style-type: none"> <li>• History taking.</li> <li>• Physical examination of various systems.</li> <li>• Nutritional assessment.</li> <li>• Related investigations and diagnostic assessment.</li> </ul>	13%	20
3	<p><b>Unit 3 Care in hospital settings::</b></p> <p><b>Care in hospital settings:</b></p> <ul style="list-style-type: none"> <li>• Ambulatory care.</li> <li>• Acute and Critical care.</li> <li>• Long term care.</li> <li>• Home Health Care.</li> <li>• Characteristics, care models, practice settings, interdisciplinary team.</li> <li>• Hospitalization- effects of hospitalization on the patient &amp; family.</li> <li>• Stressors &amp; reactions related to disease process.</li> <li>• Nursing care using Nursing process approach.</li> </ul>	3%	5
4	<p><b>Unit 4 Management of patients with disorders of Gastro intestinal tract:</b></p> <p>Management of patients with disorders of Gastro intestinal tract</p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders-etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment- History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>	7%	10
5	<p><b>Unit 5 Management of patients with disorders of nervous system:</b></p> <p>Management of patients with disorders of nervous system</p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders- etiology, Patho</li> </ul>	7%	10

	<p>physiology, Clinical manifestations, complications, prognosis.</p> <ul style="list-style-type: none"> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>		
<b>6</b>	<p><b>Unit 6 Management of patients with disorders of respiratory system:</b></p> <p><b>Management of patients with disorders of respiratory system</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>	<b>7%</b>	<b>10</b>



7	<p><b>Unit 7 Management of patients with disorders of cardio vascular system:</b></p> <p><b>Management of patients with disorders of cardio vascular system</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>	7%	10
8	<p><b>Unit 8 Management of patients with disorders of blood: Management of patients with disorders of blood</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies</li> <li>• Evidence based nursing practice</li> <li>• Rehabilitation and follow-up</li> </ul>	3%	5
9	<p><b>Unit 9 Management of patients with disorders of genito urinary system:</b></p> <p><b>Management of patients with disorders of genito urinary system</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>	7%	10

10	<p><b>Unit 10 Management of patients with disorders of endocrine system:</b></p> <p><b>Management of patients with disorders of endocrine system</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>	7%	10
11	<p><b>Unit 11 Management of patients with disorders of musculo- skeletal system:</b></p> <p><b>Management of patients with disorders of musculo- skeletal system</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>	7%	10
12	<p><b>Unit 12 Management of patients with disorders of integumentary system:</b></p> <p><b>Management of patients with disorders of integumentary system</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>	5%	8

13	<p><b>Unit 13 Management of patients with disorders of Eye and ENT: Management of patients with disorders of Eye and ENT</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders-etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>	3%	5
14	<p><b>Unit 14 Management of patients with disorders of reproductive system: Management of patients with disorders of reproductive system</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology.</li> <li>• Common Disorders- etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>	5%	8

15	<p style="text-align: center;"><b>Unit 15 Geriatric nursing:</b></p> <p style="text-align: center;"><b>Geriatric nursing</b></p> <ul style="list-style-type: none"> <li>• Nursing Assessment-History and Physical assessment.</li> <li>• Ageing;</li> <li>• Demography; Myths and realities.</li> <li>• Concepts and theories of ageing.</li> <li>• Cognitive Aspects of Ageing.</li> <li>• Normal biological ageing.</li> <li>• Age related body systems changes.</li> <li>• Psychosocial Aspects of Aging.</li> <li>• Medications and elderly.</li> <li>• Stress &amp; coping in older adults.</li> <li>• Common Health Problems &amp; Nursing Management;</li> <li>• Psychosocial and Sexual.</li> <li>• Abuse of elderly.</li> <li>• Role of nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual.</li> <li>• Role of nurse for caregivers of elderly.</li> <li>• Role of family and formal and non formal caregivers.</li> <li>• Use of aids and prosthesis (hearing aids, dentures,</li> <li>• Legal &amp; Ethical Issues.</li> <li>• Provisions and Programmes for elderly; privileges, Community Programs and health services;</li> <li>• Home and institutional care.</li> <li>• Issues, problems and trends.</li> </ul>	5%	8
16	<p style="text-align: center;"><b>Unit 16 Management of patients with communicable and sexually transmitted diseases::</b></p> <p style="text-align: center;"><b>Management of patients with communicable and sexually transmitted diseases:</b></p> <ul style="list-style-type: none"> <li>• Review of immune system.</li> <li>• Common Disorders of immune system ± HIV/AIDS.</li> <li>• Review of infectious disease process.</li> <li>• Communicable Diseases- etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment.</li> <li>• Treatment modalities and trends.</li> <li>• Nursing management.</li> <li>• Related research studies.</li> <li>• Evidence based nursing practice.</li> <li>• Rehabilitation and follow-up.</li> </ul>	5%	8

17	<p><b>Unit 17 Emergency, trauma and multi-system organ failure: Emergency, trauma and multi-system organ failure</b></p> <ul style="list-style-type: none"> <li>• DIC (disseminated intravascular coagulation)</li> <li>• Trauma, burns, poisoning</li> <li>• Etiology, Patho physiology, Clinical manifestations, complications, prognosis.</li> <li>• Health assessment-History taking, physical examination, investigation and diagnostic assessment. <ul style="list-style-type: none"> <li>○ Treatment modalities and trends.</li> <li>○ Nursing management.</li> <li>○ Related research studies.</li> <li>○ Evidence based nursing practice.</li> </ul> </li> <li>• Rehabilitation and follow-up.</li> </ul>	5%	8
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**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

**Reference Books:**

1. Brunner & Suddarth's Textbook of Medical - Surgical Nursing (Set of 2 Volumes) (TextBook) Hinkle; Wolters Kluwer India Pvt. Ltd; Thirteenth edition, 2014

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

### SYLLABUS FOR 1st Year M.Sc.Nursing

#### Mental Health (Psychiatric) Nursing (MSCN-108)

Type of Course: M.Sc.Nursing

#### COURSE OUTCOME:

- Provide specialized care.
- Engage for work in hospitals, day care Centre, DE addiction Centre, rehabilitation Centre, vocational Centre's
- Handle projects and works related to psychiatric settings

#### Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	650	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

**Contents:**

Sr.	Topic	Weight age	Teaching Hrs.
1	<p><b>Unit 1 Introduction:</b></p> <p><b>Introduction</b></p> <ul style="list-style-type: none"><li>• Mental Health and Mental Illness</li><li>• Historical perspectives</li><li>• Trends, issues and magnitude</li><li>• Contemporary practices</li><li>• Mental health laws/Acts</li><li>• National mental health program -National mental health authority, state mental health authority</li><li>• Human rights of mentally ill</li><li>• Mental Health/ Mental Illness Continuum</li><li>• Classification of mental illnesses-ICD, DSM</li><li>• Standards of Psychiatric nursing</li><li>• Challenges and Scope of psychiatric nursing</li><li>• Multi-disciplinary team and role of nurse</li></ul> <p>Role of psychiatric nurse- extended and expanded</p>	10%	15
2	<p><b>Unit 2 Concepts of Psychobiology:</b></p> <p><b>Concepts of Psychobiology</b></p> <ul style="list-style-type: none"><li>• The Nervous System:<ul style="list-style-type: none"><li>○ An Anatomical Review</li><li>○ The Brain and limbic system</li><li>○ Nerve Tissue</li><li>○ Autonomic Nervous system</li><li>○ Neurotransmitters</li></ul></li><li>• Neuroendocrinology<ul style="list-style-type: none"><li>○ Pituitary, Thyroid Gland</li><li>○ Circadian Rhythms</li></ul></li><li>• Genetics</li><li>• Neuro psychiatric disorders</li><li>• Psychoimmunology<ul style="list-style-type: none"><li>○ Normal Immune response</li><li>○ Implications for psychiatric Illness</li></ul></li><li>• Implications for Nursing</li></ul>	7%	10

3	<p align="center"><b>Unit 3 Theories of Personality Development and relevance to nursing practice:</b></p> <p align="center"><b>Theories of Personality Development and relevance to nursing practice</b></p> <ul style="list-style-type: none"> <li>· Psychoanalytic Theory- Freud's</li> <li>· Interpersonal Theory-Sullivan's</li> <li>· Theory of Psychosocial Development-Erikson's</li> <li>· Theory of object relations</li> <li>· Cognitive Development Theory</li> <li>· Theory of Moral Development</li> <li>· A Nursing Model-Hildegard E.Peplau</li> </ul>	7%	10
4	<p align="center"><b>Unit 4 Stress and its management:</b></p> <p align="center"><b>Stress and its management</b></p> <ul style="list-style-type: none"> <li>• An introduction to the concepts of stress</li> <li>• Psychological Adaptation to stress</li> <li>• Stress as a Biological Response.</li> <li>• Stress as an Environmental Event.</li> <li>• Stress as Transaction between the Individual and the Environment.</li> <li>• Stress management.</li> </ul>	3%	5



5	<p align="center"><b>Unit 5 Therapeutic communication and interpersonal relationship: Therapeutic communication and interpersonal relationship</b></p> <ul style="list-style-type: none"> <li>• Review communication process, factors affecting communication</li> <li>• Communication with individuals and in groups</li> <li>• Techniques of therapeutic communication-touch therapy</li> <li>• Barrier of communication with specific reference to psychopathology</li> <li>• Therapeutic attitudes</li> <li>• Dynamics of a therapeutic Nurse-client relationship; Therapeutic use of self Gaining self-awareness</li> <li>• Therapeutic nurse-patient relationship its phases ; Conditions essential to development of a therapeutic relationship</li> <li>• Therapeutic impasse and its management</li> </ul>	7%	10
6	<p align="center"><b>Unit 6 Assertive Training: Assertive Training</b></p> <ul style="list-style-type: none"> <li>• Assertive Communication</li> <li>• Basic Human Rights</li> <li>• Response Patterns <ul style="list-style-type: none"> <li>○ (Nonassertive Behavior</li> <li>○ Assertive Behavior</li> <li>○ Aggressive Behavior</li> <li>○ Passive-Aggressive Behavior)</li> </ul> </li> <li>• Behavioral Components of Assertive Behavior</li> <li>• Techniques that Promote Assertive Behavior</li> <li>• Thought-Stopping Techniques Method</li> <li>• Role of The Nurse</li> </ul>	7%	10
7	<p align="center"><b>Unit 7 Promoting Self-Esteem: Promoting Self-Esteem</b></p> <ul style="list-style-type: none"> <li>• Components of Self-Concept</li> <li>• The Development of Self-Esteem</li> <li>• The Manifestations of Low-Self-Esteem</li> <li>• Boundaries</li> <li>• Role of The Nurse</li> </ul>	7%	10
8	<p align="center"><b>Unit 8 Women and Mental Health: Women and Mental Health</b></p> <ul style="list-style-type: none"> <li>• Normal reaction to conception, pregnancy and puerperium</li> <li>• Problems related to conception, pregnancy and puerperium and its management.</li> <li>• Counselling ± Premarital, marital and genetic</li> </ul>	3%	5

9	<p><b>Unit 9 The nursing process in psychiatric/mental health nursing: The nursing process in psychiatric/mental health nursing</b></p> <ul style="list-style-type: none"> <li>• Mental health assessment- History taking, mental status examination</li> <li>• Physical and neurological examination</li> <li>• Psychometric assessment</li> <li>• Investigations, Diagnosis and Differential diagnosis</li> <li>• Interpretation of investigations</li> <li>• Nurse's role</li> <li>• Nursing case management <ul style="list-style-type: none"> <li>◦ Critical pathways of care</li> </ul> </li> <li>• Documentation <ul style="list-style-type: none"> <li>◦ Problem-oriented recording</li> <li>◦ Focus charting</li> </ul> </li> <li>• The PIE method</li> </ul>	7%	10
10	<p><b>Unit 10 Psycho social and physical therapies: Psycho social and physical therapies</b></p> <ul style="list-style-type: none"> <li>• Individual therapy</li> <li>• Behavioural Therapy- Relaxation therapy, cognitive therapy, positive- negative reinforcement, bio-feedback, guided imagery, ab-reactive therapy</li> <li>• Group Therapy</li> <li>• Family Therapy</li> <li>• Milieu Therapy</li> <li>• The Therapeutic Community</li> <li>• Occupational therapy</li> <li>• Recreational therapy</li> <li>• Play therapy</li> <li>• Music therapy</li> <li>• Light therapy</li> <li>• Color therapy</li> <li>• Aroma therapy</li> </ul>	23%	35
11	<p><b>Unit 11 Electroconvulsive Therapy: Electroconvulsive Therapy</b></p> <ul style="list-style-type: none"> <li>• Historical Perspectives</li> <li>• Indications</li> <li>• Contraindications</li> <li>• Mechanisms of Action</li> <li>• Side Effects</li> <li>• Risks Associated with Electroconvulsive Therapy</li> <li>• The Role of The Nurse in Electroconvulsive Therapy</li> </ul>	3%	5

12	<p><b>Unit 12 Psychopharmacology: Psychopharmacology</b></p> <ul style="list-style-type: none"> <li>• Historical Perspectives</li> <li>• Role of a Nurse in Psychopharmacological Therapy <ul style="list-style-type: none"> <li>○ Antianxiety Agents</li> <li>○ Antidepressants Agents</li> <li>○ Mood stabilizers</li> <li>○ Antipsychotics</li> <li>○ Sedative-Hypnotics</li> <li>○ Central Nervous System Stimulants</li> </ul> </li> <li>• Future developments</li> </ul>	7%	10
13	<p><b>Unit 13 Alternative systems of medicine in mental health: Alternative systems of medicine in mental health</b></p> <ul style="list-style-type: none"> <li>• Types of Therapies <ul style="list-style-type: none"> <li>○ Herbal Medicine</li> <li>○ Unani</li> <li>○ Siddha</li> <li>○ Homeopathic</li> <li>○ Acupressure and Acupuncture</li> <li>○ Diet and Nutrition</li> <li>○ Chiropractic Medicine</li> <li>○ Therapeutic Touch and Massage</li> <li>○ Yoga</li> </ul> </li> <li>• Pet Therapy</li> </ul>	10%	15

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

**Reference Books:**

1. A Guide To Mental Health & Psychiatric Nursing (TextBook)  
Sreevani R; Jaypee Brothers Medical Publishers; fourth edition, 2016
2. Essentials of Psychiatric Mental Health Nursing: Concepts of Care in Evidence-Based Practice (TextBook)  
Mary C. Townsend DSN PMHCNS-BC , Karyn I. Morgan RN MSN APRN CNS;  
F.A. Davis Company; 7th ,October, 2016

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

### SYLLABUS FOR 1st Year M.Sc. Nursing

#### Obstetric & Gynecological Nursing (MSCN-105)

**Type of Course:** M.Sc. Nursing

**Course outcome:**

- Function in nursing homes and give obstetric advice.
- Conduct obstetric examination and counselling
- Collaborate in any projects and programs related to maternal and child health.

**Teaching and Examination Scheme:**

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/	Lab Hrs / Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	650	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

**Contents:**

<b>Sr.</b>	<b>Topic</b>	<b>Weightage</b>	<b>Teaching Hrs.</b>
1	<b>Unit 1 Introduction:</b> <b>Introduction</b> <ul style="list-style-type: none"><li>• Historical and contemporary perspectives</li><li>• Epidemiological aspects of maternal and child health</li><li>• Magnitude of maternal and child health problems</li><li>• Issues of maternal and child health : Age, Gender, Sexuality, psycho Socio cultural factors</li><li>• Preventive obstetrics</li><li>• National health and family welfare programmes related to maternal and child health: health care delivery system- National Rural health mission, Role of NGOs</li><li>• Theories, models and approaches applied to midwifery practice</li><li>• Role and scope of midwifery practice: Independent Nurse midwifery practitioner</li><li>• Legal and Ethical issues: Code of ethics and</li></ul>	7%	10

	<p>standards of midwifery practice, standing orders</p> <ul style="list-style-type: none"> <li>• Evidence based midwifery practice</li> <li>• Research priorities in obstetric and gynaecological nursing.</li> </ul>		
2	<p><b>Unit 2 Human reproduction:</b></p> <p><b>Human reproduction</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of human reproductive system: male and female</li> <li>• Hormonal cycles</li> <li>• Embryology</li> <li>• Genetics, teratology and counseling</li> <li>• Clinical implications</li> </ul>	10%	15
3	<p><b>Unit 3 Pregnancy:</b></p> <p><b>Pregnancy</b></p> <ul style="list-style-type: none"> <li>• Maternal adaptation : Physiological, psychosocial</li> <li>• Assessment ± Maternal and foetal measures Maternal measures:History taking , examination-General,physical and obstetrical measure, identification of high risk,</li> <li>• Foetal measure- clinical parameters, biochemical-human estriol, Maternal Serum Alfa Feto Protein, Acetyl Choline esterase (AChE), Triple Test Aminocentesis, Cordocentesis, chorionic villus sampling (CVS)),</li> <li>• Biophysical- (US IMAGING, Foetal movement count, Ultra Sonography, Cardiotocography, cardiotomography, Non Stress Test(NST), Contraction stress test(CST), amnioscopy, foetoscopy,</li> <li>• Radiological examination,</li> <li>• Interpretation of diagnostic tests and nursing implications</li> <li>• Nursing management of the pregnant women, minor disorders of pregnancy and management, preparation for child birth and parenthood, importance of institutional delivery , choice of birth setting, importance and mobilizing of transportation, prenatal counseling, role of nurse and crisis intervention, identification of high risk pregnancy and refer</li> <li>• Alternative/complementary therapies</li> </ul>	17%	25

4	<p><b>Unit 4 Normal Labour and nursing management::</b></p> <p><b>Normal Labour and nursing management:</b></p> <ul style="list-style-type: none"> <li>• Essential factors of labour</li> <li>• Stages and onset</li> </ul> <p><b>First stage: Physiology of normal labour</b></p> <ul style="list-style-type: none"> <li>• Use of partograph: Principles, use and critical analysis, evidence based studies</li> <li>• Analgesia and anaesthesia in labour</li> <li>• Nursing management</li> </ul> <p><b>Second stage</b></p> <ul style="list-style-type: none"> <li>• Physiology , intrapartum monitoring</li> <li>• Nursing management.</li> <li>• Resuscitation , immediate newborn care and initiate breast feeding (Guidelines of National neonatology forum of India)</li> </ul> <p><b>Third stage</b></p> <ul style="list-style-type: none"> <li>• Physiology and nursing management</li> </ul> <p><b>Fourth stage ± Observation, critical analysis and Nursing management.</b></p> <ul style="list-style-type: none"> <li>• Various child birth practice: water birth, position change etc</li> <li>• Evidence based practice in relation to labour intervention</li> </ul> <p><b>Role of nurse midwifery practitioner</b></p> <p>Alternative/complementary therapies</p>	17%	25
9	<p><b>Unit 9 Infertility:</b></p> <p><b>Infertility</b></p> <ol style="list-style-type: none"> <li>1. Primary and secondary causes</li> <li>2. Diagnostic procedures</li> <li>3. Counseling: ethical and legal aspects of assisted reproductive technology(ART)</li> <li>4. Recent advancement in infertility management.</li> <li>5. Adoption procedures</li> </ol> <p>Role of nurses in infertility management.</p>	3%	5

10	<p><b>Unit 10 Menopause:</b></p> <p><b>Menopause</b></p> <ol style="list-style-type: none"> <li>1. Physiological, psychological and social aspects</li> <li>2. Hormone Replacement Therapy</li> <li>3. Surgical menopause</li> <li>4. Counseling and guidance</li> </ol> <p>Role of midwifery nurse practitioner</p>	3%	5
11	<p><b>Unit 11 Abortion:</b></p> <p><b>Abortion</b></p> <ol style="list-style-type: none"> <li>1. Types, causes</li> <li>2. Legislations, Clinical rights and professional responsibility</li> <li>3. Abortion procedures</li> <li>4. Complications</li> <li>5. Nursing management</li> </ol> <p>Role of midwifery nurse practitioner</p>	3%	5

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

**Reference Books:**

1. Dc Dutta'S Textbook Of Gynecology With Dvd-Rom (TextBook)  
Konar Hiralal; Jaypee Brothers Medical Publishers; seventh edition ,June, 2006
2. Text Book of Obstetrics (TextBook)  
D.C. Dutta; New Central Book Agency; 7th Revised edition edition ,January, 2001



# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

### SYLLABUS FOR 1st Year M.Sc. Nursing

#### Child Health (Paediatric) Nursing (MSCN-107)

Type of Course: M.Sc. Nursing

#### Course outcome:

- Perform growth and development monitoring and counseling.
- Participate in funded projects on maternal and child health by various international organizations

#### Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/	Lab Hrs / Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	650	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Sr.	Topic	Weightage	Teaching Hrs.
1	<p style="text-align: center;"><b>Unit 1 Introduction:</b></p> <p style="text-align: center;"><b>Introduction</b></p> <ul style="list-style-type: none"> <li>• Historical development of Pediatrics and Pediatric Nursing in India;</li> <li>• Current status of child health in India;</li> <li>• Trends in Pediatrics and Pediatric Nursing,</li> <li>• Ethical and cultural issues in pediatric care</li> <li>• Rights of children</li> <li>• National health policy for children, special laws and ordinances relating to children.</li> <li>• National goals,</li> <li>• Five year plans,</li> <li>• National health programs related to child health.</li> </ul>	7%	10
2	<p style="text-align: center;"><b>Unit 2 Assessment of pediatric</b></p> <ul style="list-style-type: none"> <li>• History taking</li> <li>• Developmental assessment</li> <li>• Physical assessment</li> <li>• Nutritional assessment</li> <li>• Family assessment</li> </ul>	7%	10
3	<p style="text-align: center;"><b>Unit 3 Hospitalized child:</b></p> <ul style="list-style-type: none"> <li>• Meaning of hospitalization of the child, preparation for hospitalization, effects of hospitalization on the child and family</li> <li>• Stressors and reactions related to developmental stages, play activities for ill hospitalized child.</li> <li>• Nursing care of hospitalized child and family - principles and practices</li> </ul>	7%	10
4	<p style="text-align: center;"><b>Unit 4 Pre-natal Pediatrics:</b></p> <ul style="list-style-type: none"> <li>• Embryological and fetal development, Prenatal factors influencing growth and development of fetus,</li> <li>• Genetic patterns of common pediatric disorders, chromosomal aberrations, genetic assessment and counseling legal and ethical aspects of genetic, screening and counseling role of nurse in genetic counseling,</li> <li>• Importance of prenatal care and role of pediatric nurse.</li> </ul>	10%	15

5	<p><b>Unit 5 Growth and Development of children: Growth and Development of children</b></p> <ul style="list-style-type: none"> <li>• Principles of growth and development,</li> <li>• Concepts and theories of growth and development,</li> <li>• Developmental tasks and special needs from infancy to adolescence, developmental milestones,</li> <li>• Assessment of growth and development of pediatric clients,</li> <li>• Factors affecting growth and development.</li> </ul>	10%	15
6	<p><b>Unit 6 Behavioral Pediatrics and Pediatric Nursing:</b></p> <ul style="list-style-type: none"> <li>• Parent child relationship,</li> <li>• Basic behavioral pediatric principles and specific behavioral pediatric concepts/disorders- maternal deprivation, failure to thrive, child abuse, the battered child,</li> <li>• Common behavioral problems and their management,</li> <li>• Child guidance clinic.</li> </ul>	10%	15
7	<p><b>Unit 7 Preventive Pediatrics and Pediatric Nursing:</b></p> <ul style="list-style-type: none"> <li>• Concept, aims and scope of preventive pediatrics,</li> <li>• Maternal health and its influence on child health antenatal aspects of preventive pediatrics,</li> <li>• Immunization, expanded program on immunization/ universal immunization program and cold chain,</li> <li>• Nutrition and nutritional requirements of children, changing patterns of feeding, baby- friendly hospital initiative and exclusive breast feeding,</li> <li>• Health education, nutritional education for children</li> <li>• Nutritional programs</li> <li>• National and international organizations related to child health,</li> <li>• Role of pediatric nurse in the hospital and community.</li> </ul>	10%	15

8	<p style="text-align: center;"><b>Unit 8 Neonatal Nursing:</b></p> <p style="text-align: center;"><b>Neonatal Nursing</b></p> <ul style="list-style-type: none"> <li>• New born baby- profile and characteristics of the new born,</li> <li>• Assessment of the new born,</li> <li>• Nursing care of the new born at birth, care of the new born and family,</li> <li>• High risk newborn- pre term and term neonate and growth retarded babies,</li> <li>• Identification and classification of neonates with infections, HIV &amp; AIDS, Ophthalmia neonatorum, congenital syphilis.</li> <li>• High risk new born- Identification, classification and nursing management</li> <li>• Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU.</li> </ul>	20%	30
9	<p style="text-align: center;"><b>Unit 9 IMNCI:</b></p> <p style="text-align: center;"><b>IMNCI</b></p> <p style="text-align: center;">(Integrated management of neonatal and childhood illnesses)</p>	20%	30

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

**Reference Books:**

1. Marlow's Textbook of Pediatric Nursing(Adapted for South Asian Edition): Adaptation (TextBook) Marlow , Kalia; Elsevier Health; 1, 2013
2. Wong's Essentials of Pediatric Nursing (TextBook) David Wilson , Cheryl C Rodgers , Marilyn J. Hockenberry; Mosby; 10 ,September, 2016
3. Child Health Nursing:Nursing Process Approach (TextBookPadmaja A; Jaypee Brothers Medical Publishers; 1, 2015
4. A Textbook of Child Health Nursing (TextBook)Helen Mary Perdita; Vikas Publishing House; First edition, 2014
5. Pediatric Nursing (As per INC Syllabus) (TextBook) Parul Datta; Jaypee Brothers Medical Publishers; 4, 2018
6. Essentials of Pediatric Nursing (TextBook) Sharma Rimple; Jaypee Brothers Medical Pub; 2 ,October, 2017
7. A Clinical Daily Diary Of Child Health Nursing (Pediatric Nursing)For Msc,Bsc,Pb Bsc & Gnm Nursing Students Sudhakar A; Jaypee Brothers Medical Publishers; 1, 2016
8. Essential Pediatrics for Nurses (TextBook) Singh; CBS; 3, 2005

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 1st Year M.Sc. Nursing

Community Health Nursing (MSCN-106)

Type of Course: M.Sc.Nursing

### Course outcome:

- Supervise healthcare activities in the community settings.
- Coordinate projects with collaboration with NGO's and government agency.
- Perform health assessment and help in promoting good health

### Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/	Lab Hrs / Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	650	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Sr.	Topic	Weightage	Teaching Hrs.
1	<p><b>Unit 1 Introduction:</b></p> <p><b>Introduction</b></p> <ol style="list-style-type: none"> <li>1. Historical development of Community Health and Community health Nursing- World and India, various health and family welfare committees</li> <li>2. Current status, trends and challenges of Community Health Nursing</li> <li>3. Health status of the Community-community diagnosis</li> <li>4. Scope of Community health Nursing practice</li> <li>5. Ethical and legal issues</li> <li>6. Socio-cultural issues in Community health Nursing</li> <li>7. National Policies, plans and programmes               <ul style="list-style-type: none"> <li>o National health policy</li> <li>o National Population policy</li> <li>o National Health and welfare Programmes</li> </ul> </li> </ol>	7%	10
	<ul style="list-style-type: none"> <li>o National Health goals/ indicators/ Millennium developmental goals(MDG)/ Strategies</li> <li>o Planning process: Five year plans</li> <li>o National Rural Health Mission</li> <li>o Panchayat raj institutions</li> </ul>		
2	<p><b>Unit 2 Health:</b></p> <p><b>Health</b></p> <ul style="list-style-type: none"> <li>• <b>Concepts, issues</b></li> <li>• <b>Determinants</b></li> <li>• <b>Measurements</b></li> <li>• <b>Alternate systems for health promotion and management of health problems</b></li> <li>• <b>Health economics</b></li> <li>• <b>Health technology</b></li> <li>• <b>Genetics and health</b></li> <li>• <b>Waste disposal</b></li> <li>• <b>Eco system</b></li> </ul>	7%	10
3	<p><b>Unit 3 Population dynamics and control: Population dynamics and control</b></p> <ul style="list-style-type: none"> <li>• <b>Demography</b></li> <li>• <b>Transition and theories of population</b></li> <li>• <b>National population policy</b></li> <li>• <b>National population programmes</b></li> <li>• <b>Population control and related programmes</b></li> <li>• <b>Methods of family limiting and spacing</b></li> <li>• <b>Research, Census, National Family Health Survey</b></li> </ul>	10%	15

4	<b>Unit 4 Community health Nursing:</b> <b>Community health Nursing</b> <ul style="list-style-type: none"> <li>• <b>Philosophy, Aims, Objectives, Concepts, Scope, Principles, Functions</b></li> <li>• <b>Community health Nursing theories and models</b></li> <li>• <b>Quality assurance: Community health Nursing standards, competencies, Monitoring community health nursing, nursing audits</b></li> <li>• <b>Family nursing and Family centered nursing approach</b></li> <li>• <b>Family health nursing process</b> <ul style="list-style-type: none"> <li>○ <b>Family health assessment</b></li> <li>○ <b>Diagnosis</b></li> <li>○ <b>Planning</b></li> <li>○ <b>Intervention</b></li> <li>○ <b>Evaluation</b></li> </ul> </li> <li>• <b>Nursing care for special groups: children, adolescents, adults, women, elderly, physically and mentally challenged- Urban and rural population at large</b></li> <li>• <b>Community nutrition</b></li> <li>• <b>Concept, role and responsibilities of community health Nurse practitioners/nurse midwifery practitioners-decision making skills, professionalism, legal issues</b></li> </ul>	20%	30
5	<b>Unit 5 Maternal and neonatal care:</b> <b>Maternal and neonatal care</b>	30%	45
	<ul style="list-style-type: none"> <li>• <b>IMNCI(Integrated Management of Neonatal And Childhood Illnesses) module</b></li> <li>• <b>Skilled Birth Attendant (SBA) module</b></li> </ul>		
6	<b>Unit 6 Disaster Nursing:</b> <ul style="list-style-type: none"> <li>• <b>Disaster nursing (INC module on Reaching out: Nursing Care in emergencies)</b></li> </ul>	10%	15
7	<b>Unit 7 Information, education and communication:</b> <b>Information, education and communication</b> <ol style="list-style-type: none"> <li>1. <b>IEC/BCC: Principles and strategies</b></li> <li>2. <b>Communication Skills</b></li> <li>3. <b>Management information and evaluation system: Records and reports</b></li> <li>4. <b>Information technology</b></li> <li>5. <b>Tele-medicine and tele-nursing</b></li> <li>6. <b>Journalism</b></li> <li>7. <b>Mass media</b></li> <li>8. <b>Folk media</b></li> </ol>	7%	10

8	<p><b>Unit 8 Health care delivery system: Urban, rural, tribal and difficult areas:</b>  <b>Health care delivery system: Urban, rural, tribal and difficult areas</b></p> <ul style="list-style-type: none"> <li>• <b>Health organization: National, State, District, CHC, PHC, Sub Centre, Village - Functions, Staffing, pattern of assistance, layout, drugs, equipments and supplies, Roles and Responsibilities of DPHNO</b></li> <li>• <b>Critical review of functioning of various levels, evaluation studies, recommendations and nursing perspectives</b></li> <li>• <b>Alternative systems of medicine</b></li> <li>• <b>Training and supervision of health workers</b></li> <li>• <b>Health agencies: NGOs, Roles and functions</b></li> <li>• <b>Inter-sectoral coordination</b></li> <li>• <b>Public private partnership</b></li> <li>• <b>Challenges of health care delivery system</b></li> </ul>	10%	15
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**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

**Reference Books:**

1. Essentials Of Community Health Nursing 6/e PB (TextBook)  
K. Park; BANARSIDAS BHANOT-JABALPUR; 6th Edition edition, 2006
2. Parks Text Book Of Preventive & Social Medicine (TextBook)  
K. Park; Banarsidas Bhanot Publisher; 24 ,January, 2017
3. A Comprehensive Textbook of Community Health Nursing (As Per INC Syllabus)  
(TextBook) Dash B L; JAYPEE BROTHERS MEDICAL PUBLISHERS.-NEW DELHI, 201



# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc. Nursing

### Nursing Management (MSCN-201)

Type of Course: M.Sc. Nursing

**Course outcome:**

- Demonstrate effective work as managers at various settings such as hospital, colleges and research.
- Build entrepreneurship in various managerial projects pertaining to health
- Oversee nurses at various cadres

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Sr.	Topic	Weightage	Teaching Hrs.
1	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Philosophy, purpose, elements, principles and scope of administration</li> <li>• Indian Constitution, Indian Administrative system vis a vis health care delivery system: National, State and Local</li> <li>• Organisation and functions of nursing services and education at National, State, District and institutions: Hospital and Community</li> <li>• Planning process: Five year plans, Various Committee Reports on health, State and National Health policies, national population policy, national policy on AYUSH and plans,</li> </ul>	7%	10
2	<p><b>Management:</b></p> <p>Functions of administration            Planning and control            Co-ordination and delegation            Decision making ± decentralization basic goals of decentralization.            Concept of management</p> <p><b>Nursing management</b>            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>	7%	10
3	<p><b>Planning:</b></p> <p>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>	10%	15

4	<p><b>Organisation:</b></p> <p>Concept , principles, objectives, Types and theories, Minimum requirements for organisation, Developing an organizational Structure, levels, organizational Effectiveness and organizational Climate,</p> <p>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</p> <p>Disaster management: plan, resources, drill, etc Application to nursing service and education</p>	10%	15
5	<p><b>Human Resource for health:</b></p> <p>Staffing</p> <ul style="list-style-type: none"> <li>• Philosophy</li> <li>• Norms: Staff inspection unit(SIU), Bajaj Committee, High power committee, Indian nursing council (INC)</li> <li>• Estimation of nursing staff requirement- activity analysis</li> <li>• Various research studies</li> </ul> <p>Recruitment: credentialing, selection, placement, promotion</p> <p>Retention</p> <p>Personnel policies</p> <p>Termination</p> <p>Staff development programme</p> <p>Duties and responsibilities of various category of nursing personnel Applications to nursing service and education</p>	10%	15
6	<p><b>Directing:</b></p> <p>Roles and functions</p> <p>Motivation: Intrinsic, extrinsic, Creating motivating climate, Motivational theories</p> <p>Communication : process, types, strategies, Interpersonal communication, channels, barriers, problems, Confidentiality, Public relations</p> <p>Delegation; common delegation errors</p> <p>Managing conflict: process, management, negotiation, consensus</p> <p>Collective bargaining: health care labour laws, unions, professional associations, role of nurse manager</p> <p>Occupational health and safety</p> <p>Application to nursing service and education</p>	10%	15

7	<p><b>Material management:</b></p> <p>Concepts, principles and procedures          Planning and procurement procedures : Specifications          ABC analysis,          VED (very important and essential daily use) analysis          Planning equipments and supplies for nursing care: unit and hospital          Inventory control          Condemnation</p>	7%	10
8	<p><b>Controlling:</b></p> <p>Quality assurance ± Continuous Quality Improvement</p> <ul style="list-style-type: none"> <li>• Standards</li> <li>• Models</li> <li>• Nursing audit</li> </ul> <p>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 proceedings enquiry etc          Self evaluation or peer evaluation, patient satisfaction, utilization review          Application to nursing service and education</p>	10%	15
9	<p><b>Fiscal planning:</b></p> <p>Steps          Plan and non-plan, zero budgeting, mid-term appraisal, capital and revenue          Budget estimate, revised estimate, performance budget          Audit          Cost effectiveness          Cost accounting          Critical pathways          Health care reforms          Health economics          Health insurance          Budgeting for various units and levels          Application to nursing service and education</p>	10%	15
10	<p><b>Nursing informatics:</b></p> <p>Trends          General purpose          Use of computers in hospital and community          Patient record system          Nursing records and reports          Management information and evaluation system (MIES)          E- nursing, Telemedicine, telenursing          Electronic medical records</p>	7%	10

11	<b>Leadership:</b> Concepts, Types, Theories Styles Manager behaviour Leader behaviour Effective leader: Characteristics, skills Group dynamics Power and politics lobbying Critical thinking and decision making Stress management Applications to nursing service and education	7%	10
12	<b>Legal and ethical issues:</b> 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	7%	10

\*Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc. Nursing

### Mental Health (Psychiatric) Nursing (MSCN-206)

Type of Course: M.Sc.Nursing

**Course outcome:**

- Render specialized mental health services for all age groups.
- Demonstrate work in mental health care settings
- Engage in projects and works related to psychiatric settings

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	950	-	75	100	25	-	100	400

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<b>Principles and practice of Psychiatric nursing:</b> Review	1%	2
2	<b>Crisis Intervention:</b> Crisis, Definition Phases In The Development of A Crisis Types of Crisis; Dispositional , Anticipated Life Transitions Traumatic Stress, Maturation/ Development , Reflecting Psychopathology Psychiatric Emergencies and their management Grief and grief reaction Crisis Intervention; Phases Post traumatic stress disorder (PTSD) Role of the Nurse	6%	10
3	<b>Anger/ Aggression Management:</b> Anger and Aggression, Types, Predisposing Factors Management Role of The Nurse	3%	4
4	<b>The Suicidal Client:</b> Epidemiological Factors Risk Factors • Predisposing Factors: Theories of Suicide- Psychological, Sociological ,Biological Nursing Management	3%	5
5	<b>Disorders of Infancy, Childhood, and Adolescence:</b> Mentally Challenged Autistic Disorders Attention-Deficit/Hyperactivity Disorder Conduct Disorders, behavioural disorders Oppositional Defiant Disorder Tourette's Disorders Separation Anxiety Disorder Psychopharmacological Intervention and Nursing Management	3%	5
6	<b>Delirium, Dementia, and Amnesic Disorders:</b> Delirium Dementia Amnesia Psychopharmacological Intervention and Nursing Management	3%	5

7	<p><b>Substance-Related Disorders:</b></p> <p>Substance-Use Disorders  Substance-Induced Disorders  Classes Of Psychoactive Substances  Predisposing Factors</p> <p>The Dynamics Of Substance-Related Disorders  The Impaired Nurse  Codependency  Treatment Modalities For Substance-Related Disorders and Nursing Management</p>	6%	10
8	<p><b>Schizophrenia and Other Psychotic Disorders (Check ICD10):</b></p> <p>Nature of the Disorder  Predisposing Factors  Schizophrenia -Types</p> <ul style="list-style-type: none"> <li>• Disorganized Schizophrenia</li> <li>• Catatonic Schizophrenia</li> <li>• Paranoid Schizophrenia</li> <li>• Undifferentiated Schizophrenia</li> <li>• Residual Schizophrenia</li> </ul> <p>Other Psychotic disorders</p> <ul style="list-style-type: none"> <li>• Schizoaffective Disorder</li> <li>• Brief Psychotic Disorder</li> <li>• Schizophreniform Disorder</li> <li>• Psychotic Disorder Due to a General Medical Condition</li> <li>• Substance-Induced Psychotic Disorder</li> </ul> <p>Treatment and Nursing Management</p>	6%	10



9	<b>Mood Disorders:</b> Historical Perspective Epidemiology The Grief Response Maladaptive Responses To Loss Types Of Mood Disorders Depressive disorders Bipolar disorders Treatment and Nursing Management	5%	8
10	<b>Anxiety Disorders:</b> Historical Aspects Epidemiological Statistics How Much is too Much? Types • Panic Disorder • Generalized Anxiety Disorder • Phobias • Obsessive-Compulsive Disorder • Posttraumatic Stress Disorder • Anxiety Disorder Due to a General Medical Condition • Substance-Induced Anxiety Disorder Treatment Modalities Psychopharmacology & Nursing Management	5%	8
11	<b>Somatoform And Sleep Disorders:</b> Somatoform Disorders Historical Aspects • Epidemiological Statistics • Pain Disorder • Hypochondriasis • Conversion Disorder • Body Dysmorphic Disorder Sleep Disorder Treatment Modalities and Nursing Management	3%	5
12	<b>Dissociative Disorders and Management:</b> Historical Aspects Epidemiological Statistics Application of the Nursing Management Treatment Modalities and Nursing Management	3%	4
13	<b>Sexual And Gender Identity Disorders:</b> Development Of Human Sexuality Sexual Disorders Variation In Sexual Orientation Nursing Management	3%	4
14	<b>Eating Disorders:</b> Epidemiological Factors Predisposing Factors : Anorexia Nervosa And Bulimia Nervosa obesity Psychopharmacology Treatment & Nursing Management	3%	4

15	<b>Adjustment and Impulse Control Disorders:</b> Historical and Epidemiological Factors • Adjustment Disorders • Impulse Control Disorders Treatment & Nursing Management	3%	4
16	<b>Medical Conditions due to Psychological Factors:</b> Asthma Cancer Coronary Heart Disease Peptic Ulcer Essential Hypertension Migraine Headache Rheumatoid Arthritis Ulcerative Colitis Treatment & Nursing Management	3%	4
17	<b>Personality Disorders:</b> Historical perspectives Types Of Personality Disorders • Paranoid Personality Disorder • Schizoid Personality Disorder • Antisocial Personality Disorder • Borderline Personality Disorder • Histrionic Personality Disorder • Narcissitic Personality Disorder • Avoidance Personality Disorder • Dependent Personality Disorder • Obsessive-Compulsive Personality Disorder • Passive-Aggressive Personality Disorders Identification, diagnostic, symptoms Psychopharmacology Treatment & Nursing Management	5%	8
18	<b>The Aging Individual:</b> Epidemiological Statistics Biological Theories Biological Aspects of Aging Psychological Aspects of Aging Memory Functioning Socio-cultural aspects of aging Sexual aspects of aging Special Concerns of the Elderly Population Psychiatric problems among elderly population Treatment & Nursing Management	5%	8
19	<b>The person living with HIV Disease:</b> Psychological problems of individual HIV/AIDS Counseling Treatment & Nursing Management	3%	5
20	<b>Problems Related to Abuse or Neglect:</b> Vulnerable groups, Women, Children, elderly, psychiatric patients, under privileged, challenged Predisposing Factors Treatment & Nursing management- Counseling	3%	5

21	<p><b>Community Mental Health Nursing:</b></p> <p>National Mental Health Program- Community mental health program  The Changing Focus of care  The Public Health Model  The Role of the Nurse  Case Management  The community as Client</p> <ul style="list-style-type: none"> <li>• Primary Prevention</li> <li>• Populations at Risk</li> <li>• Secondary prevention</li> <li>• Tertiary Prevention</li> </ul> <p>Community based rehabilitation</p>	5%	7
22	<p><b>Ethical and Legal Issues in Psychiatric/Mental Health Nursing:</b></p> <p>Ethical Considerations  Legal Consideration</p> <ul style="list-style-type: none"> <li>• Nurse Practice Acts</li> <li>• Types of Law</li> <li>• Classification within Statutory and Common Law</li> <li>• Legal Issues in Psychiatric/Mental Health Nursing</li> <li>• Nursing Liability</li> </ul>	3%	5
23	<p><b>Psychosocial rehabilitation:</b></p> <p>Principles of rehabilitation  Disability assessment  Day care centers  Half way homes  Reintegration into the community  Training and support to care givers  Sheltered workshops  Correctional homes</p>	3%	5
24	<p><b>Counseling:</b></p> <p>Liaison psychiatric nursing  Terminal illnesses-Counseling  Post partum psychosis-treatment, care and counseling  Death dying- Counseling  Treatment, care and counseling ±</p> <ul style="list-style-type: none"> <li>• Unwed mothers</li> <li>• HIV and AIDS</li> </ul>	3%	5
25	<p><b>Administration and management of psychiatric units including emergency units:</b></p> <p>Design &amp; layout  Staffing,  Equipment, supplies,  Norms, policies and protocols  Quality assurance  Practice standards for psychiatric nursing  Documentation</p>	3%	5
26	<p><b>Education and training in psychiatric care:</b></p> <p>Staff orientation, training and development,  In-service education program,  Clinical teaching programs.</p>	3%	5

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc. Nursing

### Obstetric and Gynecological Nursing (MSCN-203)

**Type of Course:** M.Sc. Nursing

Course outcome:

- Operate in nursing homes and give obstetric
- Conduct obstetric examination and advice.
- Amalgamate projects and programs related to maternal and child health

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	950	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Sr.	Topic	Weightage	Teaching Hrs.
1	<p><b>Management of problems of women during pregnancy:</b></p> <p>Risk approach of obstetrical nursing care , concept &amp; goals. Screening of high-risk pregnancy, newer modalities of diagnosis. Nursing Management of Pregnancies at risk-due to obstetrical complication</p> <ul style="list-style-type: none"> <li>• Pernicious Vomiting.</li> <li>• Bleeding in early pregnancy, abortion, ectopic pregnancy, and gestational trophoblastic diseases.</li> <li>• Hemorrhage during late pregnancy, ante partum hemorrhage, Placenta praevia, abruptio placenta.</li> <li>• Hypertensive disorders in pregnancy, pre-eclampsia, eclampsia, Hemolysis Elevated liver enzyme Low Platelet count (HELLP)</li> <li>• Iso±immune diseases. Rh and ABO incompatibility</li> <li>• Hematological problems in pregnancy.</li> <li>• Hydramnios-oligohydramnios</li> <li>• Prolonged pregnancy- post term, post maturity.</li> <li>• Multiple pregnancies.</li> </ul>	17%	25
	<ul style="list-style-type: none"> <li>• Intra uterine infection &amp; pain during pregnancy.</li> <li>• Intra Uterine Growth Retardation(IUGR), Premature Rupture of Membrane(PROM), intra uterine death</li> </ul>		
2	<p>Pregnancies at risk-due to pre-existing health problems:</p> <p>Metabolic conditions. Anemia and nutritional deficiencies Hepatitis Cardio-vascular disease. Thyroid diseases. Epilepsy. Essential hypertension Chronic renal failure. Tropical diseases. Psychiatric disorders Infections Toxoplasmosis Rubella Cytomegalo virus Herpes (TORCH); Reproductive Tract Infection(RTI);STD; HIV/AIDS, Vaginal infections; Leprosy, Tuberculosis Other risk factors: Age- Adolescents, elderly; unwed mothers, sexual abuse, substance use Pregnancies complicating with tumors, uterine anomalies, prolapse, ovarian cyst</p>	10%	15

3	<p><b>Abnormal labour, pre-term labour &amp; obstetrical emergencies:</b>  Etiology, pathophysiology and nursing management of</p> <ul style="list-style-type: none"> <li>• Uncoordinated uterine actions, Atony of uterus, precipitate labour, prolonged labour.</li> <li>• Abnormal lie, presentation, position compound presentation.</li> <li>• Contracted pelvis-CPD; dystocia.</li> <li>• Obstetrical emergencies Obstetrical shock, vasa praevia, inversion of uterus, amniotic fluid embolism, rupture uterus, presentation and prolapse cord.</li> <li>• Augmentation of labour. Medical and surgical induction.</li> <li>• Version</li> <li>• Manual removal of placenta.</li> <li>• Obstetrical operation: Forceps delivery, Ventouse, Caesarian section, Destructive operations</li> <li>• Genital tract injuries-Third degree perineal tear, VVF, RVF</li> </ul> <p>Complications of third stage of labour:</p> <ul style="list-style-type: none"> <li>• Post partum Hemorrhage.</li> <li>• <b>Retained placenta.</b></li> </ul>	10%	15
4	<p>post partum complications:</p> <p>Nursing management of</p> <ul style="list-style-type: none"> <li>• Puerperal infections, puerperal sepsis, urinary complications, puerperal venous thrombosis and pulmonary embolism</li> <li>• Sub involution of uterus, Breast conditions, Thrombophlebitis</li> <li>• Psychological complications, post partum blues, depression, psychosis</li> </ul>	7%	10
5	<p><b>High Risk Newborn:</b></p> <p>Concept, goals, assessment, principles.  Nursing management of</p> <ul style="list-style-type: none"> <li>• Pre-term, small for gestational age, post-mature infant, and baby of diabetic and substance use mothers.</li> <li>• Respiratory conditions, Asphyxia neonatorum, neonatal apnoea meconium aspiration syndrome, pneumo thorax, pneumo mediastinum</li> <li>• Icterus neonatorum.</li> <li>• Birth injuries.</li> <li>• Hypoxic ischaemic encephelopathy</li> <li>• Congenital anomalies.</li> <li>• Neonatal seizures.</li> <li>• Neonatal hypocalcaemia, hypoglycemia, hypomagnesaemia.</li> <li>• Neonatal heart diseases.</li> <li>• Neonatal hemolytic diseases</li> <li>• Neonatal infections, neonatal sepsis, ophthalmia neonatorum, congenital syphilis, HIV/AIDS</li> <li>• Advanced neonatal procedures.</li> <li>• Calculation of fluid requirements.</li> <li>• Hematological conditions ± erythroblastosis fetalis, hemorrhagic disorder in the newborn</li> <li>• Organization of neonatal care, services(Levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU</li> </ul>	17%	25

6	<b>HIV/AIDS:</b> HIV positive mother and her baby Epidemiology Screening Parent to child transmission(PTCT) Prophylaxis for mother and baby Standard safety measures Counseling Breast feeding issues National policies and guidelines Issues: Legal,ethical, Psychosocial and rehabilitation Role of nurse	10%	15
7	<b>Gynecological problems and nursing management:</b> Gynecological assessment Gynecological procedures Etiology, pathophysiology, diagnosis and nursing management of <ul style="list-style-type: none"> <li>• Menstrual irregularities</li> <li>• Diseases of genital tract</li> <li>• Genital tract infections</li> <li>• Uterine displacement</li> <li>• Genital prolapse</li> <li>• Genital injuries</li> <li>• Uterine malformation</li> <li>• Uterine fibroid, ovarian tumors, Breast carcinoma, Pelvic inflammatory diseases, reproductive tract malignancies, hysterectomy</li> <li>– vaginal and abdominal.</li> <li>• Sexual abuse, rape, trauma , assault</li> </ul>	17%	25
8	<b>Administration and management of obstetrical and gynaecological unit:</b> Design & layout Staffing, Equipment, supplies, Infection control; Standard safety measures Quality Assurance:-Obstetric auditing ±records /reports, Norms, policies and protocols Practice standards for obstetrical and gynaecological unit	3%	5
9	<b>Education and training in obstetrical and gynaecological care:</b> Staff orientation, training and development, In-service education program, Clinical teaching programs.	3%	5

\*Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ)

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc. Nursing

### Child Health (Pediatrics) Nursing (MSCN-205)

**Type of Course:** M.Sc. Nursing

**Course outcome:**

- Take-up independent practice in terms of child care.
- Demonstrate efficient nursing skills for pediatric patients
- Presume funded projects on maternal and child health by various international organizations

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/	Lab Hrs / Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	950	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical



Sr.	Topic	Weightage	Teaching Hrs.
1	<p><b>Introduction:</b></p> <p>Current principles, practices and trends in Pediatric Nursing Role of pediatric nurse in various settings -Expanded and extended</p>	4%	5
2	<p><b>Pediatric Disorders:</b></p> <p>Pathophysiology, assessment(including interpretation of various invasive and non-invasive diagnostic procedures), treatment modalities and nursing intervention in selected pediatric medical disorders</p> <ul style="list-style-type: none"> <li>• Child with respiratory disorders: <ul style="list-style-type: none"> <li>- Upper respiratory tract: choanal atresia, tonsillitis, epistaxis, aspiration.</li> <li>- Lower respiratory tract: Broncheolitis, Bronchopneumonia, Asthma, cystic fibrosis</li> </ul> </li> <li>• Child with gastro-intestinal disorders: <ul style="list-style-type: none"> <li>- Diarrheal diseases, gastro-esophageal reflux.</li> <li>- Hepatic disorders: Hepatitis, Indian childhood cirrhosis, liver transplantation.</li> <li>- Malabsorption syndrome, Malnutrition</li> </ul> </li> <li>• Child with renal/ urinary tract disorders: Nephrotic syndrome, Nephritis, Hydronephrosis, hemolytic-uremic syndrome, kidney transplantation</li> <li>• Child with cardio-vascular disorders: <ul style="list-style-type: none"> <li>- Acquired: Rheumatic fever, Rheumatic heart disease,</li> <li>- Congenital: Cynotic and acynotic</li> </ul> </li> <li>• Child with endocrine/metabolic disorders: Diabetes insipidus, Diabetes Mellitus ± IDDM, NIDDM, hyper and hypo thyroidism, phenylketonuria, galactosemia</li> <li>• Child with Neurological disorders: Convulsions, Meningitis, encephalitis, guillian- Barre syndrome</li> <li>• Child with oncological disorders: Leukemias, Lymphomas, Wilms'tumor, nephroblastomas, neuroblastomas, Rhabdomyosarcoma, retinoblastoma, hepatoblastoma, bone tumors</li> <li>• Child with blood disorders: Anemias, thalasseмииs, hemophilia, polycythemia, thrombocytopenia, and disseminated intravascular coagulation</li> <li>• Child with skin disorders</li> <li>• Common Eye and ENT disorders</li> <li>• Common Communicable diseases</li> </ul>	23%	35

3	<p><b>Congenital Anomalies:</b></p> <p>Assessment(including interpretation of various invasive and non- invasive diagnostic procedures), treatment modalities including cosmetic surgery and nursing interventions in selected pediatric surgical problems/ Disorders</p> <ul style="list-style-type: none"> <li>• Gastrointestinal system: Cleft lip, cleft palate and conditions requiring plastic surgery, Tracheo esophageal fistula/atresia, Hirschsprungs disease/megacolon, malrotation, intestinal obstruction, duodenal atresia, gastrochisis, exomphalus, anorectal malformation, omphalocele, diaphragmatic hernia</li> <li>• Anomalies of the nervous system: Spina bifida, Meningocele, Myelomeningocele, hydrocephalus</li> <li>• Anomalies of the genito-urinary system: Hypospadias, Epispadias, Undescended testes, Exstrophy bladder</li> <li>• Anomalies of the skeletal system</li> <li>• Eye and ENT disorders</li> <li>• Nursing management of the child with traumatic injuries: General principles of managing Pediatric trauma <ul style="list-style-type: none"> <li>- Head injury, abdominal injury, poisoning, foreign body obstruction, burns</li> <li>- &amp; Bites</li> </ul> </li> <li>• Child with oncological disorders: Solid tumors of childhood, Nephroblastoma, Neuro blastoma, Hodgkin's/Non Hodgkin's Lymphoma, Hepatoblastoma, Rhabdomyosarcoma</li> <li>• Management of stomas, catheters and tubes</li> <li>• Management of wounds and drainages</li> </ul>	23%	35
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Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ)

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc.Nursing

### Community Health Nursing (MSCN-204)

Type of Course: M.Sc.Nursing

**Course outcome:**

- Interrelate projects with collaboration with NGO's and government agency.
- Demonstrate health assessment and help in promoting good health

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/	Lab Hrs / Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	950	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<p style="text-align: center;"><b>Epidemiology:</b></p> <p>Introduction</p> <ul style="list-style-type: none"> <li>• Concept, scope, definition, trends, History and development of modern Epidemiology</li> <li>• Contribution of epidemiology</li> <li>• Implications</li> </ul> <p>Epidemiological methods</p> <p>Measurement of health and disease:</p> <p>Health policies</p> <p>Epidemiological approaches</p> <ul style="list-style-type: none"> <li>• Study of disease causatives</li> <li>• Health promotion</li> <li>• Levels of prevention</li> </ul> <p>Epidemiology of</p> <ul style="list-style-type: none"> <li>• Communicable diseases</li> <li>• Non-communicable diseases</li> </ul> <p>Emerging and re-emerging diseases Epidemics</p> <p>National Integrated disease Surveillance Programme</p> <p>Health information system</p> <p>Epidemiology study and reports</p> <p>Role of Community health nurse</p>	13%	20
2	<p><b>National Health and Family Welfare Programmes:</b></p> <p>Objectives, Organisation/manpower/resources, Activities, Goals, inter-sectoral approach, implementation, item/purpose, role and responsibilities of community health nurse:</p> <ul style="list-style-type: none"> <li>• National Vector Borne Disease Control Programm (NVBDCP)</li> <li>• National Filaria Control Programme</li> <li>• National Leprosy Eradication Programme</li> <li>• Revised national TB Control Programme</li> <li>• National Programme for Control of Blindness</li> <li>• National Iodine Deficiency disorders Control Programme</li> <li>• National Mental Health Programme</li> <li>• National AIDS Control Programme</li> <li>• National Cancer Control Programme</li> <li>• RCH I and II</li> <li>• Non-communicable disease programmes</li> <li>• NRHM</li> </ul> <p>- Health Schemes:</p> <p>ESI</p> <p>CGHS</p> <p>Health Insurance</p>	27%	40

3	<p><b>School Health:</b></p> <p>Introduction: definition, concepts, objectives,.  Health assessment, Screening, identification, referral and follow up,  Safe environment  Services, programmes and plans- first aid, treatment of minor ailments  Inter-sectoral coordination  Adolescent health  Disaster, disaster preparedness, and management  Guidance and counseling  School health records - maintenance and its importance  Roles and responsibilities of community health nurse</p>	10%	15
4	<p><b>International health:</b></p> <p>Global burden of disease  Global health rules to halt disease spread  Global health priorities and programmes  International quarantine  Health tourism  International cooperation and assistance  International travel and trade  Health and food legislation, laws, adulteration of food  Disaster management  Migration  International health agencies ±World Health organizations,  World health assembly, UNICEF, UNFPA,  SIDA, US AID, DANIDA, DFID. AusAID etc  International health issues and problems  International nursing practice standards  International health vis-a vis national health  International health days and their significance</p>	10%	15

5	<p><b>Education and administration:</b></p> <ul style="list-style-type: none"> <li>Quality assurance</li> <li>Standards, Protocols, Policies, Procedures</li> <li>Infection control; Standard safety measures</li> <li>Nursing audit</li> <li>Design of Sub-Centre/Primary Health Centre/ Community health center</li> <li>Staffing; Supervision and monitoring-Performance appraisal</li> <li>Budgeting</li> <li>Material management</li> <li>Role and responsibilities of different categories of personnel in community health</li> <li>Referral chain- community outreach services</li> <li>Transportation</li> <li>Public relations</li> <li>Planning in-service educational programme and teaching</li> <li>Training of various categories of health workers</li> <li>preparation of manuals</li> </ul>	10%	15
6	<p><b>Geriatric:</b></p> <ul style="list-style-type: none"> <li>Concept, trends, problems and issues</li> <li>Aging process, and changes</li> <li>Theories of ageing</li> <li>Health problems and needs</li> <li>Psycho-physiological stressors and disorders</li> <li>Myths and facts of aging</li> <li>Health assessment</li> <li>Home for aged-various agencies</li> <li>Rehabilitation of elderly</li> <li>Care of elderly</li> <li>Elderly abuse</li> <li>Training and supervision of care givers</li> <li>Government welfare measures Programmes for elderly-</li> <li>Role of NGOs</li> <li>Roles and responsibilities of Geriatric nurse in the community</li> </ul>	6%	10
7	<p><b>Rehabilitation:</b></p> <ul style="list-style-type: none"> <li>Introduction: Concepts, principles, trends, issues,</li> <li>Rehabilitation team</li> <li>Models, Methods</li> <li>Community based rehabilitation</li> <li>Ethical issues</li> <li>Rehabilitation Council of India</li> <li>Disability and rehabilitation- Use of various prosthetic devices</li> <li>Psychosocial rehabilitation</li> <li>Rehabilitation of chronic diseases</li> <li>Restorative rehabilitation</li> <li>Vocational rehabilitation</li> <li>Role of voluntary organizations</li> <li>Guidance and counseling</li> <li>Welfare measures</li> <li>Role and responsibilities of community health nurse</li> </ul>	6%	10

8	<p><b>Community mental health:</b></p> <p>Magnitude, trends and issues  National Mental Health Program- Community mental health program  The Changing Focus of care  The Public Health Model  Case Management- Collaborative care  Crisis intervention  Welfare agencies  Population at Risk  The community as Client</p> <ul style="list-style-type: none"> <li>• Secondary prevention</li> <li>• Tertiary Prevention</li> </ul> <p>Community based rehabilitation  Human rights of mentally ill  Substance use  Mentally challenged groups  Role of community health nurse</p> <ul style="list-style-type: none"> <li>• Primary Prevention</li> </ul>	6%	10
9	<p><b>Occupational health:</b></p> <p>Introduction: Trends, issues, Definition, Aims, Objectives,  Workplace safety  Ergonomics and Ergonomic solutions  Occupational environment- Physical, social, Decision making,  Critical thinking  Occupational hazards for different categories of people  physical, chemical, biological, mechanical, ,  Accidents,  Occupational diseases and disorders  Measures for Health promotion of workers; Prevention and control of occupational diseases, disability limitations and rehabilitation  Women and occupational health  Occupational education and counseling  Violence at workplace  Child labour  Disaster preparedness and management  Legal issues: Legislation, Labour unions, ILO and WHO recommendations, Factories act, ESI act  Role of Community health nurse, Occupational health team</p>	10%	15

\*Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc. Nursing

### Medical Surgical -Cardio Vascular & Thoracic Nursing (MSCN-202-A)

Type of Course: M.Sc. Nursing

#### Course outcome:

- Build their skill on cardiac catheterization and hold the designation of a cardiac cath lab (CCL) nurse
- To work in collaboration with cardiologists to diagnose the causes of arrhythmias and offer interventional treatment that may involve pacemakers, ablation, and medication
- Perform skills in Advance Cardiac Life Support as a cardiac nurse

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	950	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<p><b>Introduction:</b></p> <p>Historical development, trends and issues in the field of cardiology.</p> <p>Cardio vascular and thoracic conditions ± major health problem.</p> <p>Concepts, principles and nursing perspectives</p> <p>Ethical and legal issues</p> <p>Evidence based nursing and its application in cardio vascular and thoracic nursing( to be incorporated in all the units)</p>	3%	5



2	<p><b>Epidemiology:</b></p> <p>Risk factors: hereditary, psycho social factors, hypertension, smoking, obesity, diabetes mellitus etc</p> <p>Health promotion, disease prevention, Life style modification</p> <p>National health programs related to cardio vascular and thoracic conditions</p> <p>Alternate system of medicine</p> <p>Complementary therapies</p>	3%	5
3	<p><b>Review of anatomy and physiology of cardio vascular and respiratory system:</b></p> <p>Review of anatomy and physiology of heart, lung, thoracic cavity and blood vessels. Embryology of heart and lung.</p> <p>Coronary circulation</p> <p>Hemodynamics and electro physiology of heart.</p> <p>Bio-chemistry of blood in relation to cardio pulmonary function.</p>	3%	5
4	<p><b>Assessment and Diagnostic Measures:</b></p> <p>History taking</p> <p>Physical assessment</p> <ul style="list-style-type: none"> <li>• Heart rate variability: Mechanisms , measurements, pattern, factors, impact of interventions on HRV</li> </ul> <p>Diagnostic tests</p> <ul style="list-style-type: none"> <li>• Hemodynamic monitoring: Technical aspects, monitoring, functional hemodynamic indices, ventricular function indices,output measurements (Arterial and swan Ganz monitoring). Blood gases and its significance, oxygen supply and demand</li> <li>• Radiologic examination of the chest: interpretation, chest film findings</li> <li>• Electro cardiography(ECG) : electrical conduction through the heart, basic electrocardiography, 12 lead electrocardiogram, axis determination</li> </ul> <p>- ECG changes in: intraventricular conduction abnormalities- Arrhythmias, ischemia, injury and infarction, atrial and ventricular enlargement, electrolyte imbalance,</p> <ul style="list-style-type: none"> <li>• Echocardiography: technical aspects, special techniques, echocardiography of cardiac structures in health and disease, newer techniques</li> <li>• Nuclear and other imaging studies of the heart: Magnetic Resonance Imaging.</li> <li>• Cardio electrophysiology procedures: diagnostic studies, interventional and catheter ablation, nursing care</li> <li>• Exercise testing: indications and objectives, safety and personnel, pretest considerations, selection, interpretation, test termination, recovery period</li> <li>• Cardiac catheterization: indications, contraindications, patient preparation, procedure, interpretation of data</li> <li>• Pulmonary function test: Bronchoscopy and graphies</li> <li>• Interpretation of diagnostic measures</li> <li>• Nurse's role in diagnostic tests</li> </ul> <p>Laboratory tests using blood: Blood specimen collection, Cardiac markers, Blood lipids, Hematologic studies, Blood cultures, Coagulation studies, Arterial blood gases, Blood</p>	13%	20

	Chemistries, cardiac enzyme studies, Serum Concentration of Selected drugs. Interpretation and role of nurse		
5	<p><b>Cardiac disorders and nursing management:</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> <li>• Hypertension</li> <li>• Coronary Artery Disease.</li> <li>• Angina of various types.</li> <li>• Cardiomegaly</li> <li>• Myocardial Infarction, Congestive cardiac failure</li> <li>• Heart Failure, Pulmonary Edema, Shock.</li> <li>• Rheumatic heart disease and other Valvular Diseases</li> <li>• Inflammatory Heart Diseases, Infective Endocarditis, Myocarditis, Pericarditis.</li> <li>• Cardiomyopathy, dilated, restrictive, hypertrophic.</li> <li>• Arrhythmias, heart block Associated illnesses</li> </ul>	17%	2 5
6	<p><b>Altered pulmonary conditions:</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> <li>• Bronchitis</li> <li>• Bronchial asthma</li> <li>• Bronchiectasis</li> <li>• Pneumonias</li> <li>• Lung abscess, lung tumour</li> <li>• Pulmonary tuberculosis, fibrosis, pneumoconiosis etc</li> <li>• Pleuritis, effusion</li> <li>• Pneumo, haemo and pyothorax</li> <li>• Interstitial Lung Disease</li> <li>• Cystic fibrosis</li> <li>• Acute and Chronic obstructive pulmonary disease (conditions leading to)</li> <li>• Cor pulmonale</li> <li>• Acute respiratory failure</li> <li>• Adult respiratory distress syndrome</li> <li>• Pulmonary embolism</li> <li>• Pulmonary Hypertension</li> </ul>	10%	7
7	<p><b>Vascular disorders and nursing management:</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of:</p> <ul style="list-style-type: none"> <li>• Disorders of arteries</li> <li>• Disorders of the aorta</li> <li>• Aortic Aneurysms,</li> <li>• Aortic dissection</li> <li>• Raynaud's phenomenon</li> <li>• Peripheral arterial disease of the lower extremities</li> <li>• Venous thrombosis</li> <li>• Varicose veins</li> <li>• Chronic venous insufficiency and venous leg ulcers</li> <li>• Pulmonary embolism</li> </ul>	7%	10

8	<b>Cardio thoracic emergency interventions:</b> <ul style="list-style-type: none"> <li>• CPR- BLS and ALS</li> <li>• Use of ventilator, defibrillator , pacemaker</li> <li>• Post resuscitation care.</li> <li>• Care of the critically ill patients</li> <li>• Psychosocial and spiritual aspects of care</li> </ul>	7%	10
	<del>Stress management with psychosis</del> <b>Nursing care of a patient with obstructive airway:</b> <ul style="list-style-type: none"> <li>• Role of nurse</li> </ul>		
9	Assessment Use of artificial airway Endotracheal intubation, tracheostomy and its care Complication, minimum cuff leak, securing tubes Oxygen delivery systems. Nasal Cannula  Oxygen mask, Venturi mask Partial rebreathing bag Bi-PAP and C-PAP masks Uses, advantages, disadvantages, nursing implications of each. Mechanical Ventilation 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.	7%	10
10	<b>Congenital Heart Diseases,:</b>  Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, treatment modalities and nursing management of: <ul style="list-style-type: none"> <li>• Embryological development of heart.</li> <li>• Classification ± cyanotic and acyanotic heart disease.</li> <li>• Tetralogy of Fallots.</li> <li>• Atrial Septal Defect, Ventricular Septal Defect., Eisenmenger's complex.</li> <li>• Patent ductus arteriosus, AP window</li> <li>• Truncus Arteriosus.</li> <li>• Transposition of great arteries.</li> <li>• Total Anomaly of Pulmonary Venous Connection.</li> <li>• Pulmonary stenosis, atresia.</li> <li>• Coarctation of aorta.</li> <li>• Ebstein's anomaly</li> <li>• Double outlet right ventricle, Single ventricle, Hypoplastic left heart syndrome.</li> </ul>	7%	10

11	<p><b>Pharmacology:</b></p> <p>Review  Pharmacokinetics  Analgesics/Anti inflammatory agents  Antibiotics, antiseptics  Drug reaction &amp; toxicity  Drugs used in cardiac emergencies  Blood and blood components</p> <ul style="list-style-type: none"> <li>• Antithrombolytic agents</li> <li>• Inotropic agents</li> <li>• Beta-blocking agents</li> <li>• Calcium channel blockers.</li> <li>• Vaso constrictors</li> <li>• Vaso dilators</li> <li>• ACE inhibitors.</li> <li>• Anticoagulents</li> <li>• Antiarrhythmic drugs.</li> <li>• Anti hypertensives</li> <li>• Diuretics</li> <li>• Sedatives and tranquilizers.</li> <li>• Digitalis.</li> </ul> <p>• Antilipemics  Principles of drug administration, role and responsibilities of nurses and care of drugs</p>	7%	10
12	<p><b>Nursing Care of patient undergoing cardio thoracic surgery:</b></p> <p>Indications, selection of patient  Preoperative assessment and preparation; counselling.  Intraoperative care: Principles of open heart surgery, equipment, anaesthesia, cardiopulmonary by pass.  Surgical procedures for Coronary Artery Bypass Grafting, recent advances and types of grafts, Valve replacement or reconstruction, cardiac transplant, Palliative surgery and different Stents, vascular surgery, other recent advances.  Thoracic surgery: lobectomy, pneumonectomy, tumour excision etc</p> <p>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</p>	14%	20
13	<p><b>Cardiac rehabilitation:</b></p> <p>Process  Physical evaluation  Life style modification  Physical conditioning for cardiovascular efficiency through exercise  Counseling  Follow up care</p>	3%	5

14	<b>Intensive Coronary Care Unit/intensive cardio thoracic unit::</b> Quality assurance • Standards, Protocols, Policies, Procedures • Infection control; Standard safety measures • Nursing audit • Design of ICCU/ICTU • Staffing; cardiac team • Burn out syndrome Nurses role in the management of I.C.C.U and ICTU. Mobile coronary care unit. Planning inservice educational programme and teaching	3%	5
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\*Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc.Nursing

### Medical Surgical Nursing ± Critical Care Nursing (MSCN-202-B)

Type of Course: M.Sc.Nursing

**Course outcome:**

- Demonstrate advance skills as a critical care Nurse Specialist in different areas of once-unit
- Collaborate with other agencies and utilize resources in caring for once patient
- Work as researcher in contributing development in different field of critical care nursing

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	950	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<p><b>Introduction to Critical Care Nursing:</b></p> <p>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 &amp; ventilators  Flow sheets</p>	3%	5
2	<p><b>Concept of Holistic care applied to critical care nursing practice:</b></p> <p>Impact of critical care environment on patients:-</p> <ul style="list-style-type: none"> <li>• Risk factors, Assessment of patients, Critical care psychosis, prevention &amp; nursing care for patients affected with psychophysiological &amp; psychosocial problems of critical care unit, Caring for the patient's family, family teaching</li> </ul> <p>The dynamics of healing in critical care unit:-therapeutic touch, Relaxation, Music therapy, Guided Imagery, acupressure</p> <p>Stress and burnout syndrome among health team members</p>	6%	10
3	<p><b>Review:</b></p> <p>Pharmacokinetics  Analgesics/Anti inflammatory agents  Antibiotics, antiseptics  Drug reaction &amp; 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 nurses and care of drugs</p>	9%	14
4	<p><b>Pain Management:</b></p> <p>Pain &amp; 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</p>	3%	5
5	<p><b>Infection control in intensive care unit:</b></p> <p>Nosocomial infection in intensive care unit; methyl resistant staphylococcus aureus (MRSA), Disinfection, Sterilization, Standard safety measures, Prophylaxis for staff</p>	3%	5

6	<p><b>Gastrointestinal System:</b></p> <p>Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Gastrointestinal Bleeding, Abdominal injury, Hepatic Disorders:-Fulminant hepatic failure, Hepatic encephalopathy, Acute Pancreatitis, Acute intestinal obstruction, perforative peritonitis</p>	6%	10
7	<p><b>Renal System:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Acute Renal Failure, Chronic Renal Failure, Acute tubular necrosis, Bladder trauma Management Modalities: Hemodialysis, Peritoneal Dialysis, Continuous Ambulatory Peritoneal Dialysis, Continuous arterio-venous hemodialysis, Renal Transplant,</p>	6%	10
8	<p><b>Nervous System:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing management of:-Common Neurological Disorders:- Cerebrovascular disease, Cerebrovascular accident, Seizure disorders, GuilleinBarre- Syndrome, Myasthenia Gravis, Coma, Persistent vegetative state, Encephalopathy, Head injury, Spinal Cord injury Management Modalities: Assessment of Intracranial pressure, Management of intracranial hypertension, Craniotomy</p>	6%	10
	Problems associated with neurological disorders: Thermo regulation, Unconsciousness, Herniation syndrome		
9	<p><b>Endocrine System:</b></p> <p>Causes, Pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: Medical, Surgical and Nursing Management of :-Hypoglycemia, Diabetic Ketoacidosis, Thyroid crisis, Myxoedema, Adrenal crisis, Syndrome of Inappropriate/ hypersecretion of Antidiuretic Hormone (SIADH)</p>	3%	5



10	<p><b>Management of other Emergency Conditions:</b></p> <p>Mechanism of injury, Thoracic injuries, Abdominal injuries, pelvic fractures, complications of trauma, Head injuries Shock: Shock syndrome, Hypovolemic, Cardiogenic, Anaphylactic, Neurogenic and Septic shock</p> <p>Systemic inflammatory Response: The inflammatory response, Multiple organ dysfunction syndrome</p> <p>Disseminated Intravascular Coagulation</p> <p>Drug Overdose and Poisoning,</p> <p>Acquired Immunodeficiency Syndrome (AIDS) Ophthalmic: Eye injuries, Glaucoma, retinal detachment Ear Nose Throat: Foreign bodies, stridor, bleeding, quincy, acute allergic conditions</p> <p>Psychiatric emergencies;, suicide, crisis intervention</p>	10%	15
11	<p><b>Cardiovascular emergencies:</b></p> <p>Principles of Nursing in caring for patient¶s with Cardiovascular disorders</p> <p>Assessment: Cardiovascular system: Heart sounds, Diagnostic studies:- Cardiac enzymes studies, Electrocardiographic monitoring, Holter monitoring, Stress test. Echo cardiography, Coronary angiography, Nuclear medicine studies</p> <p>Causes, Pathophysiology, Clinical types, Clinical features, Diagnostic Prognosis, Management : Medical, Surgical &amp; Nurisng management of:-Hypertensive crisis, Coronary artery disease, Acute Myocardial infarction, Cardiomyopathy, Deep vein thrombosis, Valvular diseases, Heart block, Cardiac arrhythmias &amp; conduction disturbances, Aneurysms, Endocarditis, Heart failure Cardio pulmonary resuscitation BCLS/ ACLS</p> <p>Management Modalities: Thrombolytic therapy, Pacemaker ± temporary &amp; permanent, Percutaneous transluminal coronary angioplasty, Cardioversion, Intra Aortic Balloon pump monitoring, Defibrillations, Cardiac surgeries,</p>	13%	20
	Coronary Artery Bypass Grafts (CABG/MICAS), Valvular surgeries, Heart Transplantation, Autologous blood transfusion, Radiofrequency Catheter Ablation		

12	<p><b>Respiratory System:</b>  Acid-base balance &amp; imbalance  Assesment : History &amp; Physical Examination Diagnostic Tests:Pulse Oximetry, End <math>\pm</math>Tidal Carbon Dioxide Monitoring, Arterial blood gas studies, chest radiography, pulmonary Angiography, Bronchoscopy, Pulmonary function Test, Ventilation perfusion scan, Lung ventilation scan</p> <p>Causes Pathophysiology, Clinical types, Clinical features, Prognosis, Management: Medical, Surgical and Nursing management of Common pulmonary disorders:-Pneumonia, Status asthmaticus, 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</p> <p>Management Modalities:-Airway Management  Ventilatory Management:-Invasive, non- invasive, long term mechanical ventilations</p> <p>Bronchial Hygiene:-Nebulization, deep breathing exercise, chest physiotherapy, postural drainage, Inter Costal Drainage, Thoracic surgeries</p>	10%	15
13	<p><b>Burns:</b></p> <p>Clinical types, classification, pathophysiology, clinical features, assesment, diagnosis, prognosis, Management: Medical, Surgical &amp; Nursing management of burns</p> <p>Fluid and electrolyte therapy <math>\pm</math> calculation of fluids and its administration</p> <p>Pain management  Wound care  Infection control  Prevention and management of burn complications Grafts and flaps  Reconstructive surgery  Rehabilitation</p>	5%	7
14	<p><b>Obstetrical Emergencies:</b></p> <p>Causes, Pathophysiology, Clinical types, clinical features, diagnostic Prognosis, Management: Medical, Surgical and Nursing management of :Antepartum haemorrhage, Preeclampsia, eclampsia, Obstructed labour and ruptured uterus, Post partum haemorrhage, Peurperal sepsis, Obstetrical shock</p>	3%	5

15	<p><b>Neonatal Paediatric emergencies:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Neonatal emergencies</li> </ul> <p>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:-</p> <ul style="list-style-type: none"> <li>• Cyanotic heart disease, tracheo oesophageal fistula, congenital hypertropic pyloric stenosis, imperforate anus</li> <li>• Pediatric emergencies</li> </ul> <p>Dehydration, Acute broncho pneumonia, Acute respiratory distress syndrome, Poisoning, Foreign bodies, seizures, traumas, Status asthmaticus</p>	7%	10
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\*Continuous Evaluation:

16	<p><b>Legal and ethical issues in critical care-Nurse's role:</b></p> <p>Brain death Organ donation &amp; Counselling Do Not Resuscitate(DNR) Euthanasia Living will</p>	1%	2
17	<p><b>Quality assurance:</b></p> <p>Standards, Protocols, Policies, Procedures Infection control; Standard safety measures Nursing audit Staffing Design of ICU/CCU</p>	1%	2

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ)

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc. Nursing

### Medical Surgical Nursing Oncology Nursing (MSCN-202-C)

Type of Course: M.Sc. Nursing

**Course outcome:**

- Work as a Nurse Manager and Oncology Nurse Specialist in different areas of once-unit
- Collaborate with other agencies and utilize resources in caring for once patient
- Operate as nurse educator to teach and supervise nurses and allied health workers
- Work as researcher in contributing development in different field of oncology nursing

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/	Lab Hrs / Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	950	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Sr.	Topic	Weight age	Teaching Hrs.
1	<b>Introduction</b> <input type="checkbox"/> <input type="checkbox"/> Epidemiology-Incidence, Prevalence – Global, National, State and Local <input type="checkbox"/> <input type="checkbox"/> Disease burden, concept of cancer, risk factors <input type="checkbox"/> <input type="checkbox"/> Historical perspectives <input type="checkbox"/> <input type="checkbox"/> Trends and issues <input type="checkbox"/> <input type="checkbox"/> Principles of cancer management <input type="checkbox"/> <input type="checkbox"/> Roles and responsibilities of oncology nurse	2%	4
2	<b>The Nature of Cancer</b> Biology of tumor growth	3%	5

3	<b>Etiology of Cancer</b> <input type="checkbox"/> Carcinogenesis, <input type="checkbox"/> Theories of cancer causation <input type="checkbox"/> Risk factors <input type="checkbox"/> Carcinogens – genetic factors, chemical carcinogens, radiation, viruses, Immune system failure, rapid tissue proliferation <input type="checkbox"/> Hormone changes, diet, emotional factors.	2%	4
4	<b>Diagnostic Evaluation</b> <input type="checkbox"/> Health assessment: History taking, physical examination, <input type="checkbox"/> Staging and grading of tumors, <input type="checkbox"/> TNM Classification <input type="checkbox"/> Common diagnostic tests <input type="checkbox"/> Blood investigation: Haemetological, Bio-chemical, Tumor markers, Hormonal assay <input type="checkbox"/> Cytology: Fine needle aspiration cytology(FNAC) <input type="checkbox"/> Histopathology: Biopsy <input type="checkbox"/> Radiological assessment: MRI, Ultrasound, Computed tomography, Mammography, Positron emission tomography(PET), Radio nuclide imaging, Functional metabolism imaging <input type="checkbox"/> Endoscopies  Nurses responsibilities in diagnostic measures	6%	10
5	<b>Levels of prevention and care</b> <input type="checkbox"/> Primary prevention – Guidelines for cancer detection, general measures, Warning signs of cancer, <input type="checkbox"/> Self examination-Oral, Breast, Testicular <input type="checkbox"/> Secondary prevention – early diagnosis. <input type="checkbox"/> Screening <input type="checkbox"/> Tertiary prevention – disability limitation, <input type="checkbox"/> Rehabilitation :Mobility , Speech, Bowel and bladder, Ostomies etc <input type="checkbox"/> Patient and family education, <input type="checkbox"/> Discharge instruction,	6%	10
6	<b>Cancer Treatment Modalities and Nurse’s Role</b> <input type="checkbox"/> Surgery <input type="checkbox"/> Principles of surgical oncology <input type="checkbox"/> Current surgical strategy, <input type="checkbox"/> Determining surgical risk <input type="checkbox"/> Special surgical techniques <input type="checkbox"/> Pre-intra-postoperative nursing care <input type="checkbox"/> Acute and chronic surgical complications <input type="checkbox"/> Future directions and advances  <input type="checkbox"/> Chemotherapy <input type="checkbox"/> Principles and classification of chemotherapeutics <input type="checkbox"/> Pharmacology of antineoplastic drugs- Mechanism of action, Absorption, protein binding, Bio-transformation, excretion, common side effects, drug toxicity	15%	25

	<ul style="list-style-type: none"> <li><input type="checkbox"/> Calculating drug doses,</li> <li>- <b>Tumor variables:</b> response to chemotherapy drug resistance,</li> <li><input type="checkbox"/> Safety precautions</li>   <li><input type="checkbox"/> <b>Radiation Therapy</b></li> <li><input type="checkbox"/> Physics of radiotherapy</li> <li>cobalt, types of ionizing rays</li> <li>Implementation of equipments: Linear accelerator, selectron therapy</li>   <li>- cell damage hypoxic cells, alteration of <b>Radiation biology</b></li> <li>therapy -- unsealed,</li> <li><input type="checkbox"/> Approaches to radiation t</li> <li>- <b>Radiosensitivity, the impact</b></li> <li>effects of external radiotherapy</li> <li><input type="checkbox"/> <b>Scenarios of radiotherapy</b></li> <li><input type="checkbox"/> <b>Effectiveness of radiotherapy</b> of Bhaba Atomic Research Centre(BARC)</li>   <li><b>Bone Marrow Transplantation /Stem Cell Transplantation</b></li> <li><input type="checkbox"/> Types, indications, transplantation procedure, complications and nursing management</li> <li><input type="checkbox"/> Types and donor sources</li> <li><input type="checkbox"/> Preparation and care of donor and recipient</li> <li><input type="checkbox"/> Bone marrow bank ethical issues</li>   <li><b>Immunotherapy (Biotherapy)</b></li> <li><input type="checkbox"/> Legal and e</li> <li><b>Gene Therapy</b></li> <li><b>Alternative and Complementary Therapies</b></li> </ul>		
7	<ul style="list-style-type: none"> <li><input type="checkbox"/> Concepts and principles</li> <li><input type="checkbox"/> Classification of agents</li> <li><input type="checkbox"/> Treatment and applications</li> <li><b>Assessment of pain</b></li> <li>- opioid analgesic therapy (PCA)</li> <li><input type="checkbox"/> Current Concepts and practices</li>   <li><input type="checkbox"/></li> <li><input type="checkbox"/> Current practices</li> </ul>	6%	10

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- Principles of cancer pain control
- Pharmacological: Opioid and non
- Patient controlled ana

	<input type="checkbox"/> Other invasive techniques of pain control <input type="checkbox"/> Recent developments in Cancer pain  <input type="checkbox"/> <input type="checkbox"/> <b>Non- Pharmacological pain relief technique-</b> <input type="checkbox"/> Complementary therapies(Music, massage, meditation, relaxation techniques, biofeedback etc) <input type="checkbox"/> Psychological intervention in pain control <input type="checkbox"/> Alternative system of medicines  Role of nurse		
<b>8</b>	<b>Palliative care</b> <input type="checkbox"/> <input type="checkbox"/> Definition and scope, philosophy <input type="checkbox"/> <input type="checkbox"/> Concept and elements of palliative care <input type="checkbox"/> <input type="checkbox"/> Global and Indian perspective of palliative care <input type="checkbox"/> <input type="checkbox"/> Quality of life issues <input type="checkbox"/> <input type="checkbox"/> Communication skill <input type="checkbox"/> <input type="checkbox"/> Nursing perspective of palliative care and its elements <input type="checkbox"/> <input type="checkbox"/> Home care <input type="checkbox"/> <input type="checkbox"/> Hospice care  Role of nurse in palliative care	3%	5
<b>9</b>	<b>Infection control:</b> <input type="checkbox"/> Process of infection, risk of hospitalization, nosocomial infections- prevention and control of infection in acute, long term care facility and community based care <input type="checkbox"/> Standard safety measures	2%	2
<b>10</b>	<b>Nursing Care of Patients With Specific Malignant Disorders</b> <input type="checkbox"/> <input type="checkbox"/> Malignancies of G.I. system-oral, oesophagus, stomach, rectal, liver & pancreas, care of ostomies/stoma <input type="checkbox"/> <input type="checkbox"/> Respiratory malignancies <input type="checkbox"/> <input type="checkbox"/> Genito urinary system malignancies- prostate Bladder, renal testicular malignancies, <input type="checkbox"/> <input type="checkbox"/> Gynecological malignancies-cervix, uterus, ovary <input type="checkbox"/> <input type="checkbox"/> Hematological malignancies-Lymphomas, Leukemias. <input type="checkbox"/> <input type="checkbox"/> Malignancies of musculoskeletal system <input type="checkbox"/> <input type="checkbox"/> Endocrine malignancies <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Head and Neck -brain tumors <input type="checkbox"/> <input type="checkbox"/> Other malignancies – Breast cancer, AIDS related Malignancies (Kaposi's Sarcoma)	15%	30
<b>11</b>	<b>Paediatric malignancies</b> <input type="checkbox"/> <input type="checkbox"/> Leukemia, Lymphoma, Neuro- blastoma <input type="checkbox"/> <input type="checkbox"/> Wilm's tumor, Soft tissue sarcoma, Retinoblastoma <input type="checkbox"/> <input type="checkbox"/> Nursing Management of children with Paediatric Malignancies		10

12	<p><b>Nursing Management of Physiological Conditions and Symptoms Of Cancer Patient</b></p> <p><input type="checkbox"/> <input type="checkbox"/> Nutrition: - effects of cancer on nutritional Status and its consequences:-Anemia, Cachexia, Xerostomia, mucositis, Dysphagia , nausea and vomiting, constipation, diarrhoea, electrolyte imbalances, taste alterations</p> <p><input type="checkbox"/> <input type="checkbox"/> Impaired mobility: Decubitus ulcer, pathologic fractures, thrombophlebitis, pulmonary embolism, contractures, footdrop</p> <p><b>Other symptoms</b></p> <p><input type="checkbox"/> <input type="checkbox"/> Dyspepsia &amp; hiccup, dyspnoea</p> <p><input type="checkbox"/> <input type="checkbox"/> intestinal obstruction,</p> <p><input type="checkbox"/> <input type="checkbox"/> Fungating wounds</p> <p><input type="checkbox"/> <input type="checkbox"/> Anxiety &amp; depression, insomnia</p> <p><input type="checkbox"/> <input type="checkbox"/> Lymph edema</p> <p><b>Impact of cancer on sexuality:</b></p> <p><input type="checkbox"/> <input type="checkbox"/> Effects of radiotherapy/ chemotherapy/surgery on sexuality of the cancer patient</p> <p><input type="checkbox"/> <input type="checkbox"/> Nursing management of cancer patients experiencing sexual dysfunction</p> <p><input type="checkbox"/> <input type="checkbox"/> Sexual counseling</p>	10%	1 5
13	<p><b>Cancer Emergencies</b></p> <p><input type="checkbox"/> <input type="checkbox"/> Disseminated intravascular coagulation(DIC),</p> <p><input type="checkbox"/> <input type="checkbox"/> Malignant pleural effusion</p> <p><input type="checkbox"/> <input type="checkbox"/> Neoplastic cardiac tamponade and septic shock spinal cord compression</p> <p><input type="checkbox"/> <input type="checkbox"/> Superior venacava syndrome</p> <p><input type="checkbox"/> <input type="checkbox"/> Metabolic emergency: hyper and hypo calcemia</p> <p><input type="checkbox"/> <input type="checkbox"/> Surgical emergency</p> <p><input type="checkbox"/> Urological emergency</p> <p><input type="checkbox"/> Hemorrhage</p> <p><input type="checkbox"/> <input type="checkbox"/> Organ obstruction</p> <p><input type="checkbox"/> <input type="checkbox"/> Brain metastasis</p> <p><input type="checkbox"/> <input type="checkbox"/> Nurses role in managing oncologic emergencies</p>	6%	1 0
14	<p><b>Psycho-Social Aspects of Nursing Care</b></p> <p><input type="checkbox"/> <input type="checkbox"/> Psychological responses of patients with cancer</p> <p><input type="checkbox"/> Psychosocial assessment –</p> <p><input type="checkbox"/> Crisis intervention, coping mechanisms</p> <p><input type="checkbox"/> Stress management, spiritual/cultural care and needs</p> <p><input type="checkbox"/> Counseling: individual and family</p> <p><input type="checkbox"/> Maximizing quality of life of patient and family</p> <p><b>Ethical, moral and legal issues-</b></p> <p><input type="checkbox"/> <input type="checkbox"/> End of life care</p> <p><input type="checkbox"/> <input type="checkbox"/> Grief and grieving process</p> <p><input type="checkbox"/> <input type="checkbox"/> Bereavement support</p> <p><input type="checkbox"/> <input type="checkbox"/> Care of Nurses who care for the dying.</p>	4%	8



<b>15</b>	<p><b>Layout and Design of an oncology institution/ ward, OPD, chemotherapy unit, Bone marrow transplantation unit, Pain clinic etc</b></p> <p><input type="checkbox"/> <input type="checkbox"/> Practice Standards of oncology nursing</p> <p><input type="checkbox"/> Policies and Procedures</p> <p><input type="checkbox"/> <input type="checkbox"/> Establishing Standing orders and Protocols</p> <p><b>Quality Assurance Programme in oncology units</b></p> <p><input type="checkbox"/> <input type="checkbox"/> Nursing audit</p>	2%	2

\*Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc. Nursing PROGRAMME

### Medical Surgical Nursing - Neurosciences Nursing (MSCN-202-D)

**Type of Course:** M.Sc. Nursing

Course Outcome:

- Demonstrate skills in managing patients effectively using nursing process approaches
- Assume various responsibilities in neurology unit in rendering patient care
- Develop and evaluate quality assurance programme as auditors and managers in neurology department

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	950	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Sr.	Topic	Weightage	Teaching Hrs.
1	<p style="text-align: center;"><b>Introduction:</b></p> <p style="text-align: center;">Introduction to neuroscience(neurological and neurosurgical) nursing</p> <ul style="list-style-type: none"> <li>• History-Development in neurological and neurosurgical nursing, Service &amp; education</li> <li>• Emerging trends and issues in neurology and neuro surgery and its implication to nursing.</li> <li>• neurological and neurosurgical problems ±</li> <li>• Concepts, principles and nursing perspectives</li> <li>• Ethical and legal issues</li> <li>• Evidence based nursing and its application in neurological and neurosurgical nursing</li> </ul>	3%	5
2	<p style="text-align: center;"><b>Epidemiology:</b></p> <p style="text-align: center;">Major health problems- Risk factors associated with neurological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations, occupational and infections. Health promotion, disease prevention, life style modification and its implications to nursing Alternate system of medicine/complementary therapies</p>	3%	5
3	<p style="text-align: center;"><b>Review of Anatomy and physiology:</b></p> <p style="text-align: center;">Embryology Structure and functions of Nervous system- CNS, ANS, cereberal circulation , cranial and spinal nerves and reflexes, motor and sensory functions Sensory organs</p>	6%	10

4	<p style="text-align: center;"><b>Assessment and diagnostic measures:</b></p> <p style="text-align: center;">Assessment</p> <ul style="list-style-type: none"> <li>• History taking</li> <li>• Physical assessment, psychosocial assessment</li> <li>• Neurological assessments, Glasgow coma scale interpretation &amp; its relevance to nursing.</li> <li>• Common assessment abnormalities</li> </ul> <p style="text-align: center;">Diagnostic measures</p> <ul style="list-style-type: none"> <li>• Cerebro spinal fluid analysis</li> <li>• Radiological studies-Skull and spine X-ray Cerebral Angiography, CT Scan, Single Photon Emission Computer Tomography(SPECT), MRI (Magnetic Resonance Imaging), MRA, MRS, Functional MRI, Myelography, PET (Positron Emission Test), Interventional radiology.</li> <li>• Electorgraphic studies- Electro encephalo graphy, MEG, EMG, video EEG,</li> <li>• Nerve conduction studies-Evoked potentials, visual evoked potentials, brain stem auditory evoked potentials, somatosensory evoked potentials</li> <li>• Ultrasound studies-Carotid duplex, transcranial Doppler sonography,</li> <li>• Immunological studies</li> <li>• Biopsies ± muscle, nerve and Brain. Interpretation of diagnostic measures Nurse's role in diagnostic tests</li> </ul>	10%	1 5
5	<p style="text-align: center;"><b>Meeting Nutritional needs of neurological patients:</b></p> <p style="text-align: center;">Basic nutritional requirements Metabolic changes following injury and starvation Nutritional assessment</p> <p style="text-align: center;">Common neurological problems that interfere with nutrition and strategies for meeting their nutritional needs Special metabolic and electrolyte imbalances Chronic fatigue syndrome</p>	3%	5
6	<p style="text-align: center;"><b>Drugs used in neurological and neurosurgical disorders:</b></p> <p style="text-align: center;">Classification</p> <p style="text-align: center;">Indications, contraindications, actions and effects, toxic effects Role of nurse</p>	3%	5
7	<p><b>Traumatic conditions.:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis, Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Cranio cerebral injuries.</li> <li>• Spinal &amp; Spinal cord injuries.</li> <li>• Peripheral nerve injuries.</li> <li>• Unconsciousness</li> </ul>	6%	1 0

8	<p><b>Cerebro vascular disorders.:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Stroke &amp; arterio venous thrombosis.</li> <li>• Haemorrhagic embolus.</li> <li>• Cerebro vascular accidents.</li> <li>• Intracranial aneurysm.</li> <li>• Subarchnoid Haemorrhage.</li> <li>• Arterio venous fistula.</li> <li>• Brain tumours</li> </ul> <p>Diseases of cranial nerves;Trigiminal neuralgia, Facial palsy, Bulbar palsy.</p>	6%	1 0
9	<p><b>Degenerating and demyelinating disorders:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Motor neuron diseases.</li> <li>• Movement disorders- Tics, dystonia, chorea, wilson's disease, essential tremors</li> <li>• Dementia.</li> <li>• Parkinson's disease.</li> <li>• Multiple sclerosis.</li> <li>• Alzemi'er's</li> </ul>	6%	1 0
10	<p><b>Neuro infections:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of Neuro infections</p> <ul style="list-style-type: none"> <li>• Meningitis-types</li> <li>• Encephalitis.</li> <li>• Poliomyelitis.</li> <li>• Parasitic infections.</li> <li>• Bacterial infections</li> <li>• Neurosyphilis.</li> <li>• HIV &amp; AIDS.</li> <li>• Brain abscess.</li> </ul>	6%	1 0
11	<p><b>Paroxysmal disorders.:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnosis, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Epilepsy and seizures.</li> <li>• Status epilepticus.</li> <li>• Syncope.</li> <li>• Menier's syndrome.</li> <li>• Cephalgia.</li> </ul>	3%	1 0

12	<p><b>Developmental disorders.:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Hydrocephalus.</li> <li>• Craniosynostosis.</li> <li>• spina bifida- Meningocele, Meningomyelocele encephalocele</li> <li>• syringomyelia.</li> <li>• Cerebro vascular system anomalies.</li> <li>• Cerebral palsies.</li> <li>• Down's syndrome</li> </ul>	6%	10
13	<p><b>Neuro muscular disorders.:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Polyneuritis ± G B Syndrome.</li> <li>• Muscular dystrophy.</li> <li>• Myasthenia gravis.</li> <li>• Trigeminal neuralgia.</li> <li>• Bell's palsy.</li> <li>• Menier's disease</li> <li>• Carpal tunnel syndrome</li> <li>• Peripheral neuropathies</li> </ul>	6%	10
14	<p><b>Neoplasms ± surgical conditions:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Space occupying lesions -types</li> <li>• Common tumors of CNS,</li> </ul>	3%	5
15	<p><b>Other disorders:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <p style="padding-left: 40px;">Metabolic disorders- diabetes, insipidus, metabolic encephalopathy Sleep disorders</p> <p style="padding-left: 40px;">Auto immune disorders- multiple sclerosis, inflammatory myopathies</p>	3%	5

16	<p><b>Neuro emergencies:</b></p> <p>Causes, pathophysiology, Clinical types, Clinical features, diagnostic, Prognosis , Management: medical, surgical and Nursing management of</p> <ul style="list-style-type: none"> <li>• Increased intracranial pressure</li> <li>• Unconscious</li> <li>• Herniation syndrome</li> <li>• Seizures</li> <li>• Severe head injuries</li> <li>• Spinal injuries</li> <li>• Cerebro vascular accidents</li> </ul>	6%	10
17	<p><b>Rehabilitation.:</b></p> <p>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</p> <p>Physiotherapy. Counselling Care giver's role Speech &amp; Language.-Neurogenic communication disorders, Speech therapy</p>	3%	5
18	<p><b>Ethical and legal issues in neuroscience nursing:</b></p> <p>Brain death and organ transplantation Euthanasia Negligence and malpractice Nosocomial infections</p>	3%	5
19	<p><b>Quality assurance:</b></p> <p>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</p> <ul style="list-style-type: none"> <li>• Philosophy, aims and objectives</li> <li>• Policies, staffing pattern, design and physical plan of neuro ICU</li> <li>• Team approach, functions</li> <li>• Psychosocial aspects in relation to staff and clients of neuro ICU,</li> <li>• In-service education</li> </ul>	3%	5

\*Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc. Nursing PROGRAMME

### Medical Surgical Nursing - Nephro- Urology Nursing (MSCN-202-E)

**Type of Course:** M.Sc.Nursing

Course outcome:

- Demonstrate skill in handling equipment's in multispecialty hospitals
- Function in collaboration with health care team members
- Assume various responsibilities of renal unit in rendering patient care

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/Year	Lab Hrs/Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	950	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<b>Introduction:</b> 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)	3%	5



2	<p><b>Epidemiology:</b></p> <p>Major health problems- urinary dysfunction, urinary tract infections, Glomerular disorders, obstructive disorders and other urinary disorders</p> <p>Risk factors associated with nephro and urological conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations</p> <p>Health promotion, disease prevention, life style modification and its implications to nursing Alternate system of medicine/complementary therapies</p>	3%	5
3	<p><b>Review of anatomy and physiology of urinary system:</b></p> <p>Embryology</p> <p>Structure and functions</p> <p>Renal circulation</p> <p>Physiology of urine formation</p> <p>Fluid and electrolyte balance</p> <p>Acid base balance</p> <p>Immunology specific to kidney</p>	3%	5
4	<p><b>Assessment and diagnostic measures:</b></p> <p>History taking</p> <p>Physical assessment, psychosocial assessment</p> <p>Common assessment abnormalities-dysurea, frequency, enuresis, urgency, hesitancy, hematuria, pain, retention, burning on urination, pneumaturia, incontinence, nocturia, polyurea, anuria, oliguria,</p> <p>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</p> <p>Interpretation of diagnostic measures Nurse's role in diagnostic tests</p>	13%	20
5	<p><b>Renal immunopathy/Immunopathology:</b></p> <p>General Concept of immunopathology</p> <p>Immune mechanism of glomerular vascular disease</p> <p>Role of mediator systems in glomerular vascular disease</p>	3%	5

6	<p><b>Urological Disorders and Nursing Management:</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of</p> <p>Urinary tract infections- pyelonephritis, lower urinary tract infections,</p> <p>Disorders for ureters, bladder and urethra</p> <p>Urinary tract infections-</p> <p>Urinary dysfunctions- urinary retention, urinary incontinence, urinary reflux,</p> <p>Bladder disorders- neoplasms, calculi, neurogenic bladder, trama, congenital abnormalities</p> <p>Benign prostrate hypertrophy(BPH)</p> <p>Ureteral disorders: ureteritis, ureteral trauma, congenital anomalies of ureters</p> <p>Urethral disorders- tumours, trauma, congenial anomalies of ureters,</p>	10%	15
7	<p><b>Glomerular disorders and nursing management:</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of</p> <p>Glomerular nephritis- chronic, acute , nephritic syndrome</p> <p>Acute Renal failure and chronic renal failure.</p> <p>Renal calculi</p> <p>Renal tumours-benign and malignant</p> <p>Renal trauma</p> <p>Renal abscess</p> <p>Diabetic nephropathy</p> <p>Vascular disorders</p> <p>Renal tuberculosis</p> <p>Polycystic</p> <p>Congenital disorders</p> <p>Hereditary renal disorders</p>	17%	25
8	<p><b>Management of Renal emergencies:</b></p> <p>Management of Renal emergencies</p> <p>Anuria</p> <p>Acute Renal failure</p> <p>Poisoning</p> <p>Trauma</p> <p>Urine retention</p> <p>Acute graft rejection</p> <p>Hematuria</p> <p>Nurses role</p>	6%	10

9	<p><b>Dialysis:</b></p> <p>Dialysis- Historical, types, Principles, goals</p> <ul style="list-style-type: none"> <li>• Hemodialysis- vascular access sites- temporary and permanent</li> <li>• Peritoneal dialysis</li> </ul> <p>Dialysis Procedures- steps, equipments, maintenance,</p> <p>Role of nurse- pre dialysis, intra and post dialysis</p> <p>Complications-</p> <p>Counseling</p> <p>patient education</p> <p>Records and reports</p>	6%	10
10	<p><b>Kidney transplantation:</b></p> <p>Kidney transplantation</p> <p>Nursing management of a patient with Kidney transplantation</p> <p>Kidney transplantations- a historical review</p> <p>Immunology of graft rejections</p> <p>The recipient of a renal transplant</p> <p>Renal preservations</p> <p>Human Leucocytic Antigen(HLA) typing matching and cross matching in renal transplantation</p> <p>Surgical techniques of renal transplantations</p> <p>Chronic renal transplant rejection</p> <p>Complication after KTP: Vascular and lymphatic, Urological, cardiovascular, liver and neurological, infectious complication</p> <p>KTP in children and management of pediatric patient with KTP</p> <p>KTP in developing countries</p> <p>Results of KTP</p> <p>Work up of donor and recipient for renal transplant</p> <p>Psychological aspect of KTP and organ donations</p> <p>Ethics in transplants</p> <p>Cadaveric transplantation</p>	6%	10
11	<p><b>Rehabilitation of patient with nephrological problems:</b></p> <p>Rehabilitation of patient with nephrological problems</p> <p>Risk factors and prevention</p> <p>Rehabilitation of patients on dialysis and after kidney transplant</p> <p>Rehabilitation of patients after urinary diversions</p> <p>Family and patient teaching</p>	3%	5
12	<p><b>Pediatric urinary disorders:</b></p> <p>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,</p>	6%	10
	<p>Haemolytic uraemicsyndrome. Benign recurrent haemturia, nephropathy, wilms, tu m o u r</p> <p><b>Critical care units, dialysis ,KTP unit:</b></p>		

13	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	3%	5
14	<b>Quality assurance in nephrological nursing practice:</b>  Quality assurance in nephrological nursing practice Role of advance practioner in nephrological nursing Professional practice standards Quality control in nephrological nursing Nursing audit	3%	5
15	<b>Drugs used in urinary disorders:</b>  Classification Indications, contraindications, actions and effects, toxic effects Role of nurse	6%	10

\*Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summati

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc. Nursing PROGRAMME

### Medical Surgical Nursing - Orthopedic Nursing (MSCN-202-F)

Type of Course: M.Sc.Nursing

Course outcome:

- Recognize the role of orthopaedic nurse practitioner and work as a member Health care team
- Provide community based services to the patient along with rehabilitation services
- Involved in planning phase of setting up of orthopaedic unit

Teaching and Examination Scheme:

Teaching Scheme			Cred it	Examination Scheme					Total
Lect Hrs/ Yea r	Tut Hrs/ Yea r	Lab Hrs / Yea r		Extern al		Intern al			
				EXT TH	EXT PR	T	C E	P	
150	-	950	-	75	100	25	-	10 0	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Contents:

Sr.	Topic	Weightag e	Teachin g Hrs.
1	<b>Introduction:</b> 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	3%	5

2	<p><b>Assessment of Orthopedic Patient:</b></p> <p>Health Assessment: History, physical examination- Inspection, palpation, movement, Measurement, muscle strength Testing.</p> <p>Diagnostic studies ± Radiological studies, Muscle enzymes, serologic studies</p>	5%	8
3	<p><b>Care of patients with devices:</b></p> <p>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</p>	6%	10
4	<p><b>Injuries:</b></p> <p><b>Trauma &amp; Injuries</b></p> <p><b>Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of</b></p> <p>:</p> <ul style="list-style-type: none"> <li>• Early management of Trauma</li> <li>• Fractures</li> <li>• Injuries of the</li> </ul> <p>Shoulder and arm  Elbow, fore arm, wrist, hand Hip,  thigh, knee, leg, ankle, foot Spine  Head injury  Chest injury</p> <ul style="list-style-type: none"> <li>• Polytrauma</li> <li>• Nerve injuries</li> <li>• Vascular injuries</li> <li>• Soft tissue injuries</li> <li>• Sports injuries</li> <li>• Amputation</li> </ul>	10%	15
5	<p><b>Infections of Bones and Joints:</b></p> <p>Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of</p> <p>:</p> <ul style="list-style-type: none"> <li>• Tuberculosis</li> <li>• Osteomyelitis</li> <li>• Arthritis</li> <li>• Leprosy</li> </ul>	5%	8

6	<p><b>Bone Tumours:</b></p> <p>Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, management, medical surgical and nursing management of:</p> <ul style="list-style-type: none"> <li>• Bone tumors ± Benign, Malignant and metastatic</li> <li>• Different types of therapies for tumors</li> </ul>	3%	5
7	<p><b>Deformities:</b></p> <p>Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis ± medical surgical and nursing management of: Scoliosis, Kyphosis, Lordosis</p> <p>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>	6%	10
8	<p><b>Disorders of the spine:</b></p> <p>Intervertebral disc prolapse, Fracture of the spine</p> <p>Low back disorder ± Low back pain, PND, spinal stenosis, spondylosis</p>	3%	5
9	<p><b>Nutritional/Metabolic and Endocrine Disorders:</b></p> <p>Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of:</p> <ul style="list-style-type: none"> <li>• Rickets,</li> <li>• Scurvy,</li> <li>• Hyper vitaminosis A and D,</li> <li>• Osteomalacia, ‡ Osteoporosis</li> <li>• Paget¶s disease,</li> <li>• gout,</li> <li>• Gigantism,</li> <li>• Dwarfism,</li> <li>• Acromegaly.</li> <li>• Therapeutic diets for various orthopedic disorders</li> </ul>	3%	5

10	<p><b>Neuro-Muscular Disorders::</b></p> <p>Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis, medical surgical and nursing management of:</p> <ul style="list-style-type: none"> <li>• Poliomyelitis, Cerebral Palsy</li> <li>• Myasthenia gravis</li> <li>• Spina bifida.</li> <li>• Peripheral nerve lesion,</li> <li>• Paraplegia, Hemiplegia, Quadriplegia.</li> <li>• Muscular dystrophy</li> </ul>	5%	8
11	<p><b>Chronic/Degenerative Diseases of Joints and Autoimmune Disorders::</b></p> <p>Causes, pathophysiology, clinical types, clinical features, diagnosis, prognosis ± medical surgical and nursing management of:</p> <ul style="list-style-type: none"> <li>• Osteo Arthritis</li> <li>• Rheumatoid Arthritis</li> <li>• Ankylosing spondylitis.</li> <li>• Spinal disorders.</li> <li>• Systemic Lupus Erythematosus</li> </ul>	5%	8
12	<p><b>Orthopedic Disorders in Children::</b></p> <p>General and special consideration on pediatric orthopedics</p> <p>Genetic disorders</p> <p>Congenital anomalies</p> <p>Growth disorders</p> <p>Genetic counseling</p> <p>Nurses role in genetic counseling</p>	3%	5
13	<p><b>Geriatric Problems:</b></p> <p>Geriatric population, types of disabilities, causes, treatment and Management ± Hospitalization, rest, physiotherapy, involvement of family members, social opportunities.</p> <p>Care at home ± involvement of family and community, follow up care and rehabilitation</p>	3%	5
14	<p><b>Pharmacokinetics:</b></p> <p>Principles of drug administration Analgesics and anti inflammatory agents Antibiotics, Antiseptics,</p> <p>Drugs used in orthopedics and neuromuscular disorders Blood and blood components</p> <p>Care of drugs and nurses role</p>	4%	6



15	<p><b>Nurses Role in Orthopedic Conditions:</b></p> <p>Gait analysis  Urodynamic studies  Prevention of physical deformities  Alteration of body temperature regulatory system and immune systems  Immobilization ± cast, splints, braces and tractions Prevention and care of problems related to immobility Altered sleep patterns  Impaired communication  Self care and activities of daily living  Bladder and bowel rehabilitation Sensory function rehabilitation  Psychological reaction related to disabilities and disorders.  Coping of individual and family with disabilities and disorders  Maintaining sexuality</p>	20%	30
	<p><b>Spirituality ± A rehabilitative prospective</b></p> <p>Orthopedic Reconstructive Surgeries Replacement surgeries ± Hip, Knee, Shoulder Spine surgeries  Grafts and flaps surgery Deformity correction.  Physiotherapy  Concepts, Principles, purpose,  • Mobilization ± Exercises: types, re-education in walking: Crutch walking, wheel chair, Transfer techniques,  • Types of gaits: Non-weight bearing, partial weight bearing, four point crutch, tripod, walking with sticks, calipers  • Forms of therapies: Hydrotherapy, electrotherapy, wax bath, heat therapy, ice, helio therapy, radiant heat,  • Chest physiotherapy</p>		
16	<p><b>Rehabilitation:</b></p> <p>Principles of rehabilitation, definition, philosophy, process, Various types of therapies  Special therapies and alternative therapies Rehabilitation counseling  Preventive and restorative measures.  Community based rehabilitation (CBR)  Challenges in rehabilitation.  Role of the nurse in rehabilitation,  Legal and ethical issues in rehabilitation nursing Occupational therapy</p>	5%	8

17	<p><b>National Policies and Programmes:</b></p> <p>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</p> <p>The persons with disabilities act 1995, Mental rehabilitation and Multiple disabilities act 1992, The National Trust Rules 1999 and 2000 Rehabilitation Council of India</p> <p>Legal and ethical aspects in orthopedic nursing Rehabilitation health team and different categories of team members.</p>	3%	5
18	<p><b>Quality assurance:</b></p> <p>Standards, Protocols, Policies, Procedures Nursing audit Staffing Design of orthopedic, physiotherapy and rehabilitation unit</p>	3%	4

\*Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) e

# Maganbhai Adenwala Mahagujarat University

## FACULTY OF NURSING

SYLLABUS FOR 2nd Year M.Sc. Nursing PROGRAMME

### Medical Surgical Nursing - Gastro Enterology Nursing (MSCN-202-G)

**Type of Course:** M.Sc.Nursing

**Course outcome:**

- Operate Alternate practitioner in context with allopathic practice
- Collaborate as teacher in educating and supervising nurses and allied health workers
- Practice in quality assurance programmes as a ICN/Manager/Auditor
- Develop and Outline layout of Gastro enterology intensive care unit (GEICU)

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Scheme					Total
Lect Hrs/Year	Tut Hrs/	Lab Hrs / Year		External		Internal			
				EXT TH	EXT PR	T	CE	P	
150	-	950	-	75	100	25	-	100	300

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **EXT TH** - External Theory, **EXT PR** - External Practical

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<p><b>Introduction:</b></p> <p>Historical development: trends and issues in the field of gastro enterology.</p> <p>Gastro enterological problems</p> <p>Concepts, principles and nursing perspectives</p> <p>Ethical and legal issues</p> <p>Evidence based nursing and its application in gastrointestinal nursing (to be incorporated in all the units)</p>	3%	5

2	<p><b>Epidemiology:</b></p> <p>Risk factors associated with GE conditions- Hereditary, Psychosocial factors, smoking, alcoholism, dietary habits, cultural and ethnic considerations</p> <p>Health promotion, disease prevention, life style modification and its implications to nursing</p> <p>National health programmes related to gastro enterology</p> <p>Alternate system of medicine/complementary therapies</p>	3%	5
3	<p><b>Review of anatomy and physiology of gastrointestinal system:</b></p> <p>Gastrointestinal system</p> <p>Liver, biliary and pancreas</p> <p>Gerontologic considerations</p> <p>Embryology of GI system</p> <p>Immunology specific to GI system</p>	3%	5

4	<p><b>Assessment and diagnostic measures:</b></p> <p>History taking</p> <p>Physical assessment, psychosocial assessment</p> <p>Diagnostic tests</p> <ul style="list-style-type: none"> <li>• Radiological studies: Upper GIT- barium swallow, lower GIT Barium enema,</li> <li>• Ultra sound:</li> <li>• Computed tomography</li> <li>• MRI</li> <li>• Cholangiography: Percutaneous transhepatic Cholangiogram(PTC)</li> <li>• Magnetic Resonance Cholangio pancreotography (MRCP)</li> <li>• Nuclear imaging scans(scintigraphy)</li> <li>• Endoscopy‡ Colonoscopy</li> <li>• Proctosigmoidoscopy</li> <li>• Endoscopic Retrograde Cholangio pancreotography (ERCP)</li> <li>• Endoscopic ultrasound</li> <li>• Peritonoscopy(Laproscopy)</li> <li>• Gastric emptying studies</li> <li>• Blood chemistries: Serum amylase, serum lipase</li> <li>• Liver biopsy</li> <li>• Miscellaneous tests: Gastric analysis, fecal analysis</li> <li>• 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</li> </ul> <p>Interpretation of diagnostic measures</p> <p>Nurses role in diagnostic tests</p>	10%	15
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5	<p><b>Gastro intestinal disorders and nursing management:</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of</p> <ul style="list-style-type: none"> <li>• Disorders of the mouth: Dental caries, Peridontal disease, Acute tooth infection, Stomatitis, Thrush (moniliasis), Gingivitis, Leukoplakia,</li> <li>Inflammation of the parotid gland,</li> <li>Obstruction to the flow of saliva, Fracture of the jaw</li> <li>• Disorders of the oesophagus: Reflux oesophagitis, Oesophageal achalasia, Oesophageal varices, Hiatus hernia, Diverticulum</li> <li>• Disorders of the stomach and duodenum: Gastritis, Peptic ulcer, Dumping of the stomach, Food poisoning, idiopathic gastroparesis, Aerophagia and belching syndrome, Ideopathic cyclic nausea and vomiting, Rumination syndrome, Functional dyspepsia, Chronic Non specific (functional) abdominal pain</li> <li>• Disorders of the small intestine <ul style="list-style-type: none"> <li>– Malabsorption syndrome ± tropical sprue</li> <li>– Gluten ± sensitive enteropathy (Coeliac disease)</li> <li>– Inflammatory diseases of intestines and abdomen, : appendicitis, Peritonities, Intestinal obstruction, Abdominal TB, Gastrointestinal polyposis syndrome</li> <li>– Chronic inflammatory bowel disease, Ulcerative colites, crohn's disease</li> <li>– Infestations and infections ± Worm infestations, Typhoid, Leptospirosis</li> <li>– Solitary rectal ulcer syndrome</li> <li>– Alteration in bowel elimination (diarrhoea, constipation, fecal impaction, fecal incontinence, Irritable bowel syndrome, Chronic idiopathic constipation, Functional diarrhoea</li> </ul> </li> <li>Anorectal Conditions: Hemorrhoids, Anal fissure, Anal fistula, Abscess, Strictures, Rectal prolapse, Pruritis ani, Pelonidal disease, Anal condylomas, Warts</li> </ul>	17%	25
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6	<p><b>Disorder of liver, pancreas gall bladder and nursing management:</b></p> <p>Disorders of liver biliary tract :  Viral Hepatitis ± A, B, C, D &amp; E  Toxic hepatitis</p> <ul style="list-style-type: none"> <li>• Cirrhosis of liver, liver failure, Liver transplantation</li> <li>• Non cirrhotic portal fibrosis</li> <li>• Liver abscess,;</li> <li>• Parasitic and other cysts of the liver</li> <li>• Disorders of the Gall Bladder and Bile Duct:  Cholecystitis  Cholelithiasis  Choledocholithiasis</li> <li>Disorders of the pancreas: Pancreatitis,  Benign tumors of islet cells</li> <li>Disorders of the Peritoneum</li> <li>• Infections of the peritoneum  Surgical peritonitis  Spontaneous bacterial peritonitis  Tuberculosis peritonitis</li> <li>Disorders of the Diaphragm</li> <li>• Diaphragmatic hernia</li> <li>• Congenital hernias</li> <li>• Paralysis of diaphragm</li> <li>• Tumors of the diaphragm</li> <li>Hiccups</li> </ul>	10%	15
7	<p><b>Gastro intestinal emergencies and nursing interventions:</b></p> <p>Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical and nursing management of:</p> <ul style="list-style-type: none"> <li>• Esophageal varices,</li> <li>• Ulcer perforation,</li> <li>• Acute cholecystitis</li> <li>• Diverticulitis</li> <li>• Fulminant hepatic failure</li> <li>• Biliary obstruction</li> <li>• Bowel obstruction</li> <li>• Gastroenteritis</li> <li>• Intussusception</li> <li>• Acute intestinal obstruction, perforation</li> <li>• Acute pancreatitis</li> <li>• Cirrhosis of liver complications</li> <li>• Liver , spleen, stomach pancreatic, mesenteric, bowel and greater vessel injuries</li> <li>• Acute appendicitis /peritonitis</li> <li>• Acute abdomen</li> <li>• Food poisoning</li> </ul>	10%	15

8	<p><b>Congenital Anomalies:</b></p> <p><b>Congenital Anomalies of Esophagus</b></p> <ul style="list-style-type: none"> <li>• Esophageal atresia</li> <li>• Tracheo esophageal fistula‡ Esophageal stenosis</li> <li>• Esophageal duplications</li> <li>• Dysphagia ± Lusoria ± aberrant right subclavian artery compressing esophagus</li> <li>• Esophageal rings ± schalzkiring</li> <li>• Esophageal webs</li> </ul> <p><b>Congenital Anomalies of Stomach</b></p> <ul style="list-style-type: none"> <li>• Gastric atresia</li> <li>• Micro gastia</li> <li>• Gastric diverticulum</li> <li>• Gastric duplication</li> <li>• Gastric teratoma</li> <li>• Gastric volvulus</li> <li>• Infantile hypertrophic pyloric stenosis</li> <li>• Adult hypertrophic pyloric stenosis</li> </ul> <p><b>Congenital Anomalies of Duodenal</b></p> <ul style="list-style-type: none"> <li>• Duodenal Atresia or stenosis</li> <li>• Annular pancreas</li> <li>• Duodenal duplication cysts</li> <li>• Malrotation and mid gut volvulus</li> </ul> <p><b>Developmental anomalies of the intestine:</b></p> <ul style="list-style-type: none"> <li>• Abdominal wall defects (omphalocele and Gastroschisis)</li> <li>• Meckel's diverticulum</li> <li>• Intestinal atresia</li> </ul> <p><b>Hirschsprung's disease</b></p>	10%	15
9	<p><b>Pharmo Kinetics:</b></p> <p>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  Corticosteroids  Immunomodulators  chemotherapy  Antibiotics  Antiemetics:  Anticholinergics  Antihistaminics  Anthelminthics  Vitamin Supplements</p>	10%	15

10	<b>Nutrition and nutritional problems related to GI system:</b> 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	6 %	1 0
11	<b>Malignant disorders of gastro intestinal system:</b> Etiology, clinical manifestations, diagnosis, prognosis, related pathophysiology, medical , surgical, other modalities and nursing management of: • 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	10 %	1 5
12	<b>Administration and management of GE unit:</b> Design & layout Staffing, Equipment, supplies, Infection control; Standard safety measures Quality Assurance:-Nursing audit ±records /reports, Norms, policies and protocols Practice standards	3 %	5
13	<b>Education and training in GE care:</b> Staff orientation, training and development, In-service education program, • Clinical teaching programs	3 %	5

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