

MGM INSTITUTE OF HEALTH SCIENCES

Accredited by NAAC with 'A' Grade

(Deemed University u/s 3 of UGC Act, 1956) Sector-01, Kamothe, Navi Mumbai - 410 209 Tel 022-27432471, 022-27432994, Fax 022 - 27431094

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Curriculum for M.Sc. Nursing Nurse Practitioner in Critical Care (NPCC)

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PROGRAM DESCRIPTION

The Nurse Practitioner (NP) program is a Nursing residency program with a main focus on Competency based training. The duration is of two years with the curriculum consisting of theory that includes core courses, advanced practice courses and clinical courses besides clinical practicum which is a major component (Refer Curricular framework).

AIM

The critical care NP program prepares registered B.Sc nurses for advanced practice roles as clinical experts, managers, educators and consultants leading to M.Sc degree in critical care NP

OBJECTIVES

On completion of the program, the NP will be able to;

- 1. assume responsibility and accountability to provide competent care to critically ill patients and appropriate family care in tertiary care centre
- 2. demonstrate clinical competence / expertise in providing critical care which includes diagnostic reasoning, complex monitoring and therapies
- 3. apply theoretical, patho-physiological and pharmacological principles and evidence base in implementing therapies / interventions in critical care
- 4. identify the critical conditions using differential diagnosis and carry out treatment/interventions to stabilize and restore patient's health and minimize or manage complications independently or collaboratively as a part of critical care team
- 5. collaborate with other health care professionals in the critical care team, across the continuum of critical care



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EXAMINATION REGULATIONS –

- Attendance minimum is 80% in theory and practical before appearing for final university examination but must complete 100% in practical before the award of degree.
- OSCE type of examination will be followed alongside viva (oral examination)
- The team of practical examiners will include one internal examiner (M.Sc. faculty with two years of experience in teaching the NPCC program/M.Sc. faculty (Medical Surgical Nursing preferable) with 5 years of Post PG experience], one external examiner (same as above) and one medical internal examiner who should be preceptor for NPCC program.
- Maximum period to complete the programme is 4 years. Number of attempts is not regulated.
- Pass marks are 60% in aggregate of internal and external both in theory and practical in every course/ subject.
- If a candidate fails in theory or practical, he/she has to appear for the paper in which he/she has failed be it theory or practical.
- Declaration of pass 60% and above is pass in all courses and < 60% is fail. For calculating the rank, the aggregate of the two years marks will be considered.

DISSERTATION

- Research guides: Main guide M.Sc Nursing faculty with 3 years post PG experience teaching NPCC program
- Co guide: Shall be Medical preceptor (Medical PG / Intensivist)
- Guide student ratio- 1:5
- Ethical clearance should be obtained by the hospital ethics committee
- There should be a separate research committee in the college/hospital to guide and oversee the progress of the research (minimum of 5 members with Principal or CNO-M.Sc).
- Topic Selection The topic should be relevant to critical care nursing that will add knowledge or evidence for nursing intervention. The research should be conducted in any of the critical care settings.
- Submission of research proposal between 6 to 9 months after the date of admission in the first year.
- Data collection 7 weeks are allotted for data collection, which can be integrated during clinical experience after 6 months in first year and before 6 months in second year.
- Writing the research report -6-9 months in second year.
- Submission of dissertation final 9 months before completion of second year.
- Dissertation Examination Internal assessment Viva & dissertation report 50 marks
 - University Examination Viva & dissertation report 50 marks



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ASSESSMENT (FORMATIVE AND SUMMATIVE)

- Seminar
- Written assignments/Term papers
- Case/Clinical presentation
- Nursing process report/Care study report
- Clinical performance evaluation
- Log book-(Competency list and clinical requirements) counter signed by the medical/nursing faculty preceptor
- Objective Structured Clinical Examination (OSCE)/OSPE
- Test papers
- Final examination

TEACHING METHODS

Teaching theoretical, skill lab & Clinical can be done in the following methods and integrated during clinical posting

- Clinical conference
- Case/clinical presentation
- In depth drug study, presentation and report
- Nursing rounds
- Clinical seminars
- Journal clubs
- Case study/Nursing process
- Advanced health assessment
- Faculty lecture in the clinical area
- Directed reading
- Assignments
- Case study analysis
- Workshops

PROCEDURES/LOG BOOK

At the end of each clinical posting, clinical log book (Specific competencies/Clinical skills & clinical requirements) has to be signed by the preceptor every fortnight.



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MSc NURSING (NPCC) PROGRAMME

Scheme of Examination

Title	Theory %			Practical %		actical %
First Year	Hours	Internal	External	Hours	Internal	External
Core Courses						
Theoretical Basis for Advanced Practice Nursing	3 hrs	50				
2 Passage Application and	3 hrs	30	70			
2. Research Application and Evidence Based Practice in Critical Care						
3. Advanced skills in Leadership	3 hrs	30	70			
Advanced Practice Courses 4. Advanced Pathophysiology & Advanced Pharmacology relevant to Critical Care	3 hrs	30	70			
Advanced Health/physical Assessment	3 hrs	30	70		50	50

Title	Theory %			Practical %		
Second Year	Hours	Internal	External	Hours	Internal	External
Speciality Courses						
1. Foundation of Critical Care	3 hrs	30	70		100	100
Nursing Practice						
2. Critical Care Nursing I	3 hrs	30	70		100	100
3. Critical Care Nursing II	3 hrs	30	70		100	100
4. Dissertation and Viva	3 hrs				50	50



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MSc NURSING (NPCC) PROGRAMME

Courses of Instruction

First Year

Sl. No		Hours			
I	Core Courses	Theory	Lab/ Skill Lab	Clinical	
1	Theoretical Basis for Advanced Practice Nursing	40			
2	Research Application and Evidence Based Practice in Critical Care	56	24	336 (7weeks)	
3	Advanced skills in Leadership, Management and Teaching Skills	56	24	192 (4weeks)	
II	Advanced Practice Courses				
1	Advanced Pathophysiology applied to Critical Care.	60		336 (7weeks)	
2	Advanced Pharmacology applied to Critical Care.	54		336 (7weeks)	
3	Advanced Health/physical Assessment	70	48	576 (12weeks)	
	Total – 2208 Hours	336 (7weeks)	96 (2weeks)	1776 (37weeks)	

Second Year

Sl. No		Hours			
III	Speciality Courses	Theory	Lab/ Skill Lab	Clinical	
1	Foundation of Critical Care Practice	96	48	576 (12 weeks)	
2	Critical Care Nursing I	96	48	576 (12 weeks)	
3	Critical Care Nursing II	96	48	624 (13 weeks)	
	Total Hours - 2208	288 (6weeks)	144 (4weeks)	1776 (37 weeks)	



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MASTER PLAN

(As per Indian Nursing Council norms)

CLINICAL PRACTICE

- A. Clinical Residency experience Minimum of 48 hrs/ week, however, it is flexible with different shifts and off followed by on call duty.
- B. 8 hours duty with one day off in a week and on call duty one per week

CLINICAL PLACEMENTS

Sl. No.	Area	Placement in Weeks		
		First Year	Second Year	
1	Medical ICU	12	12	
2	Surgical ICU	12	12	
3	Cardio / Cardiothoracic (CT) ICU	8	8	
4	Emergency Department	6	8	
5	Other: Neurology, Burns, Dialysis unit	6	5	
	Total weeks	42	45	

Sr. No.	Particulars	Weeks/hours
1.	Total available weeks in a year	52 weeks
2.	Annual Leave, Casual Leave, Sick leave	06 weeks
3.	Available weeks	46 weeks
4.	Hours per week	48 hours
5.	Instructional hours (theory)	624 hours
6.	Skill Lab	240 hours
7.	Clinical	3552 hours
8.	Total hours in two years	4416 hours



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Critical Care Competencies (Adapted from ICN, 2005)

- 1. Uses advanced comprehensive assessment, diagnostic, treatment planning, implementation and evaluation skills
- 2. Applies and adapts advanced skills in complex and / or unstable environments
- 3. Applies sound advanced clinical reasoning and decision making to inform, guide and teach in practice
- 4. Documents assessment, diagnosis, management and monitors treatment and follow-up care in partnership with the patient
- 5. Administer drugs and treatments according to institutional protocols
- 6. Uses applicable communication, counseling, advocacy and interpersonal skills to initiate, develop and discontinue therapeutic relationships
- 7. Refers to and accepts referrals from other health care professionals to maintain continuity of care
- 8. Practices independently where authorizes and the regulatory framework allows in the interest of the patients, families and communities
- 9. Consults with and is consulted by other health care professionals and others
- 10. Works in collaboration with health team members in the interest of the patient
- 11. Develops a practice that is based on current scientific evidence and incorporated into the health management of patients, families and communities
- 12. Introduces, tests, evaluates and manages evidence based practice
- 13. Uses research to produce evidence based practice to improve the safety, efficiency and effectiveness of care through independent and inter-professional research
- 14. Engages in ethical practice in all aspects of the APN role responsibility
- 15. Accepts accountability and responsibility for own advanced professional judgment, actions, and continued competence
- 16. Creates and maintains a safe therapeutic environment through the use of risk management strategies and quality improvement
- 17. Assumes leadership and management responsibilities in the delivery of efficient advanced practice nursing services in a changing health care system
- 18. Acts as an advocate for patients in the health care systems and the development of health policies that promote and protect the individual patient, family and community
- 19. Adapts practice to the contextual and cultural milieu



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FIRST YEAR

Sl. No.	Courses	Prescribe d hours (Theory + Skill Lab)	Introductory Classes	Workshop	Theory integrated in clinical practicum	Methods of teaching
1	Theoretical Basis for Advanced Practice Nursing	40	8 hrs	-	1 x 32 = 32 hrs	Seminar/ Theory applicationLecture (by faculty)
2	Research Application and Evidence Based Practice in Critical Care	56 +24	8 hrs	46 hrs (5days x 8hrs 1 day x 6 hrs)	1 x 26 = 26hrs.	 Research Study analysis Exercise/ Assignment (lab)
3	Advanced skills in Leadership, Management and Teaching Skills	56 +24	12hrs	2 hrs (Block classes)	1x 26 = 26 hrs 2.5x 16 = 40 hrs	Clinical conferenceSeminarExercise /Assignments (Lab)
4	Advanced pathophysiology applied to Critical Care	60	04		1.5x 37 = 56 hrs	Case PresentationSeminarClinical ConferenceLecture (by faculty)
5	Advanced Pharmacology applied to Critical Care	54	10		1 x 44 = 44 hrs	 Nursing Rounds Drug Study Presentation Standing orders/ presentations Lecture (by faculty)
6	Advanced Health/physical Assessment	70 +48	9 hrs		2x26 = 52 hrs. 1.5 x 18 = 27 hrs 1.0 x 12 = 12 hrs 2.0 x 7 = 14 hrs 2.0 x 2 = 4 hrs	 Clinical Demonstration (by faculty) Return Demonstration Nursing Rounds Physical Assessment (All systems) Case Study Lecture (by faculty)
	TOTAL	432 hrs	51 hrs	48 hrs	333 hrs	zectare (of faculty)

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	Introductory	L Taccec —	I week
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□ Workshop - 1 week

 \Box Total 44 weeks = 7.5 hrs/week



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SECOND YEAR

Sl. No.	Courses	Prescribed hours (Theory + Skill Lab)	Theory integrated in clinical practicum	Methods of teaching
1	Foundation of Critical Care Practice	96+48 =144 Hrs.	9 hrs x11 weeks = 99 hrs	 Demonstration (Lab) Return demonstration (Lab) Clinical Teaching Case Study Seminar Clinical Conference Lecture by faculty
2	Critical Care Nursing -I	96+48=144 Hrs.	9 hrs x16 weeks = 144 hrs	 Demonstration (Lab) Return demonstration (Lab) Clinical conference/ Journal Club Seminar Case Presentation Drug Study (including drug interactions) Nursing Rounds Lecture by faculty
3	Critical Care Nursing II	96+48=144 Hrs.	9 hrs x16 weeks = 144 hrs	 Demonstration (Lab) Return demonstration Nursing Rounds Clinical conference/ Journal Club Seminar Lecture by faculty

Total 45 weeks = 8.5/9 hrs/week

Block classes-1wk, 45 wks – 8.5/9hrs/wk



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COURSE PLANNING

MSc NURSING (NPCC) PROGRAMME

First Year



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CORE COURSES

Theoretical Basis for Advanced Practice Nursing

Placement: First Year Theory: 40 hours

Course Description: This course provides the student with theoretical foundation for advanced nursing. The focus of the course is on the critical components of contemporary nursing knowledge; exploration of the nature of theory development in nursing; examination of relevance of concepts from basic and applied sciences; analysis and evaluation of nursing & related theories; and relevance of theory in terms of impact on professional nursing practice, and individuals, families, groups as clients in health care system.

COMPETENCIES

- 1. Analyses the global healthcare trends and challenges
- 2. Analyses the impact of Healthcare and Education policies in India on nursing consulting the documents available.
- 3. Develops in depth understanding of the healthcare delivery system in India, and its challenges.
- 4. Applies economic principles relevant to delivery of healthcare services in critical care.
- 5. Manages and transforms health information to affect health outcomes such as cost, quality and satisfaction.
- 6. Accepts the accountability and responsibility in practicing the Nurse practitioner's roles and competencies.
- 7. Actively participates in collaborative practice involving all healthcare team members in critical care and performs the prescriptive roles within the authorized scope.
- 8. Engages in ethical practice having a sound knowledge of law, ethics and regulation of advanced nursing practice.
- 9. Uses the training opportunities provided through well planned preceptor ship and performs safe and competent Care applying to Nursing process.
- 10. Applies the knowledge of nursing theories in providing competent care to critically ill patients.
- 11. Predicts future challenges of nurse practitioner's roles in variety of healthcare settings Particularly in India



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Theoretical Basis for Advanced Practice Nursing

Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
1	2	Global Health Care Challenges Trends (Competency -1)		Lecture	Written test
2	2	Health System in India Health Care Delivery System in India Changing Scenario (Competency-3)	2	Lecture Cum Discussion	Assignment - Identify Health Care and Education policies and analyze its impact on Nursing
3	2	National Health Planning- 5 year plans & National Health Policy (Competency-2)		Seminar	Seminar Evaluation
4	4	Health Economics & Health Care financing (Competency-4)		Symposium	Symposium evaluation
5	2	Health Information system including Nursing Informatics (Use of computers) (Competency-5)	1	Lecture Cum Demonstration	Return demonstration
Adv	anced Nu	ursing Practice (ANP)			
6	3	ANP-Definition, Scope, Philosophy, Accountability, Roles & Responsibilities (Collaborative practice and Nurse prescribing roles) (Competency 6&7)		Seminar/ Presentation	Seminar Evaluation
7	3	Regulation (accreditation of training Institutions and Credentialing)& Ethical dimension of advanced nursing practice role (Competence-8)	2	Symposium- Describe the Legal position in India for NP Practice. Discuss the future of nurse Prescribing Policies in India with relevance to these policies	Symposium Evaluation
8	3	Nurse Practitioner- Roles, Types, Competencies, Clinical Settings for practice, cultural competence (Competence-6)	2	Critiquing- Examine the Nursing protocols relevant to NP Practice found in various ICUS in your Tertiary centre	Assignment Evaluation



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Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
9	2	Training for NP's – Preceptorship(Competency-9)		Seminar	Seminar evaluation
10	4	Future Challenges of NP practice (Competence-11)		Individual & Group Discussion- Describe specific challenges and provide strategies to improve advanced practice nursing clinical education	Assignment evaluation
11	4	Theories of Nursing applied to APN (Competence-10)		Presentation of Nursing Theories	Assignment - Evaluate the application of nursing model and theories in the current health care delivery system
12	2	Nursing process applied to APN (Competence-10)		Preparation of Care plan with application of Nursing Theories	Care plan Evaluation- Apply theories from nursing and other disciplines to the advanced practice care of individuals and families
	33 hrs		7hrs		

Bibliography:

- 1. Barkers, A.M.(2009), Advanced Practice Nursing. Massachussets: Jones & Barlett Publishers
- 2. Hickey, J.V, Quimette, R.M,& Venegoni, S.L.(1996). Advanced Practice nursing: Chnaging roles and
- 3. Clinical applications. Philadelphia: Lippincott Williams and Wilkins.
- 4. Schober, M, & Affara, F.A. (2006). Advanced nursing practice. Oxford: Blackwell publishing.
- 5. Stewart. G.J, & Denisco, S.M.(2015). Role Development for the Nurse practitioner.USA: Springer Publishing Company



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FIRST YEAR MSc NURSING (NPCC)

Theoretical Basis for Advanced Practice Nursing

INTERNAL ASSESSMENT (THEORY)

Total Marks 50

Sl. No	Item	Total Marks	Weightage in %	Marks
1	First term Examination	25 marks	50	25
2	Second term Examination	25 marks		23
3	Written assignment /Term Paper (Global and national health Care trends & Policies)	50 marks		
4	Clinical Seminar (Clinical /Care Pathway in specific Clinical condition /application of specific Nursing theory)	30 marks	50	25
	Total	130	100	50



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FIRST YEAR MSc NURSING (NPCC)

SEMINAR/PRESENTATION EVALUATION CRITERIA

Name of the Student

Signature of Preceptor

Fotal	Marks: 30 Date :_		
S.No	Presentation skills	Marks Allotted	Marl Obtain
1.	Coverage of content (Relevant and current knowledge)	10	
2.	Clarity and credibility in presentation	2	
3.	Well organized	2	
4.	Interesting and creative	1	
5.	Group involvement & effective handling of questions	2	
6.	Confidence and resourcefulness	1	
7.	Professional outlook-poise, emotional stability	1	
8.	Time management	1	
	WRITING SKILLS		
9	Content coverage (Relevant and current knowledge)	5	
10	Organization in presenting the content (Introduction, text and conclusion)	3	
11	Use of illustrations	1	
12	References	1	
	Grand Total	30	

Signature of Faculty



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TERM PAPER - EVALUTION CRITERIA

Name of the Student: -

Batch :-	Date:		
Topics:-	•		
Name of	f the Supervisor:		
Total M	(arks – 50	Marks obtaine	d:
Sr. No.	Criteria	Marks Assigned	Marks Obtained
1	Content (Adequacy, Appropriateness, Clarity)	20	
2	Organization	5	
3	Illustration	20	
4	Resources Used	5	
	Total Marks	50	
Remark	S:-		
Signa	ture of Preceptor	Signat	ure of Faculty



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FIRST YEAR MSc NURSING (NPCC)

QUESTION PAPER FORMAT (FIRST TERM EXAMINATION)

Theoretical Basis for Advanced Practice Nursing

		Marks: 50 Time: 2hours
Q 1. Write Short Answers on any 4 out of 5		(20 marks)
a)		
b)		
c)		
d)		
e)		
Q 2. Long Answer Questions any 2 out of 3		(30 marks)
a. i	(2)	
ii 	(5)	
iii	(8)	
b. i	(2)	
ii	(5)	
iii	(8)	
c. i	(2)	
ii	(5)	
iii	(8)	



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QUESTION PAPER FORMAT (UNIVI	ERSITY EXAMINATION
	Marks: 50
	Time: 2 hours
Q 1. Write Short Answers on any 4 out of 5	(20 marks)
a)	
b)	
c)	
d)	
e)	
Q 2. Long Answer Questions any 2 out of 3	(30 marks)
a. i	(2)
ii	(5)
iii	(8)
b. i	(2)
ii	(5)
iii	(8)
c. i	(2)
ii	(5)
iii	(8)



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai RESEARCH APPLICATION AND EVIDENCE BASED PRACTICE IN CRITICAL CARE

Theory: 56 Hrs

Practical : 24Hrs (Lab/Skill lab

Clinical (Hrs):336 (7wks)

Course Description – This course is designed to assist the students to acquire sound knowledge in research methodology and to use the research findings in evidenced based practice. It will further enable the students to participate in clinical research to improve quality patient care in critical care settings.

Competencies

- 1. Applies sound research knowledge and skills in conducting independent research in critical care setting.
- 2. Participates in collaborative research to improve patient care quality
- 3. Interprets and uses research findings in advanced practice to produce EBP
- 4. Tests/Evaluates current practice to develop best practices and health outcomes
- 5. Evaluate quality care in advanced practice
- 6. Analyses the evidence for nursing interventions carried out in critical care nursing practice to promote safety and effectiveness of care
- 7. Develops skills in writing scientific research reports



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RESEARCH APPLICATION AND EVIDENCE BASED PRACTICE IN CRITICAL CARE

nit	Theory Hours	Торіс	Practical Hours	Teaching Learning Activities	Method of Assessment
1	2	Research and advanced Practice Nursing • Significance of Research and enquiry related to Advanced nursing role	2	Lecture-cum discussionIdentifying research priorities	
II	5	Research for APN Practice Testing current practice to develop best practice Health outcome and Indicators of quality care in advanced practice Promoting research culture	2	Journal club Lecture-cum discussion	Research article presentation
III	40 (5 days workshop)	Research Knowledge and skills: Research competencies essential for APNs (interpretation and use of research, evaluation of practice, participation in collaborative research) Research Methodology Phases / steps (Research question, Review of literature, conceptual framework, research designs, sampling, data collection, methods & tools, Analysis and Reporting) Writing research proposal and research report	13	 Research studies analysis Workshop Preparation of tool Developing and presenting research proposal Designing proposals for funding 	 Critiquing of research studies Assignment: Writing systematic review (Analyse the evidence for a given nursing intervention in ICU)
IV	5	Writing for publication workshop — Manuscript preparation and finding funding sources)	5	 Workshop/ seminar Preparation of manuscript for publication 	• Seminar



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Unit	Theory Hours	Торіс	Practical Hours	Teaching Learning Activities	Method of Assessment
V	4	 Evidence based practice Concepts, principles, importance and steps Integrating EBP to ICU environment Areas of evidence in critical care Barriers to implement EBP - Strategies to promote 	2	SeminarSeminar	• Seminar

CLINICAL PLACEMENT

S.No	Area	Duration
1	Medical ICU	2 weeks
2	Surgical ICU	2 weeks
3	Cardio /cardiothoracic ICU	2 weeks
4	Dialysis	1 week
	Total	7 weeks

Clinical Practicum: Research practicum: Dissertation (336 hrs=7weeks)

Assessment

Year	Theory Marks			Practical Dissertation	Marks n)	
	Hours	Internal	External	Hours	Internal	External
First	3	30	70	-	-	-
Second	-	-	-	3	50	50



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Dissertation:

- Ethical clearance should be obtained by the hospital ethics committee
- Topic Selection The topic should be relevant to critical care nursing that will add knowledge or evidence for nursing intervention. The research should be conducted in any of the critical care settings.
- Submission of research proposal between 6 to 9 months after the date of admission in the first year.
- Data collection 7 weeks are allotted for data collection, which can be integrated during clinical experience after 6 months in first year and before 6 months in second year.
- Writing the research report -6-9 months in second year.
- Submission of dissertation final 9 months before completion of second year.
- Dissertation Examination -

Internal assessment - Viva & dissertation report -50 marks University Examination - Viva & dissertation report -50 marks

Internal Assessment: Theory

Sl. No	Items	Marks	Weightage in %	Marks out of 30
1.	Test Papers			
	First term Examination	50	50	15
	Second term Examination	70	50	15
2.	Assignments			
	a) Preparation of Research instrument	50		
	b) Writing systematic review	50	50	15
	c) Journal club – analysis of	20×2=40		
	Research Evidence for ICU			
	Nursing competencies (2)			
	Total	260	100%	30

Bibliography:

- Burns, N., & Grove, S. K. (2011). Understanding nursing research: Building an evidence-based practice (5th ed.). Ist Indian reprint 2012, New Delhi: Elsevier.
- Polit, D. F., & Beck, C. T. (2012). Nursing research: Generating and assessing evidence for nursing practice (9th ed.). Philadelphia: Lippincott Williams & Wilkins.
- Schmidt, N. A., & Brown, J. M. (2009). Evidence based practice for nurses appraisal and application of research. Sd: Jones and Bartlet Publishers



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FIRST YEAR MSc NURSING (NPCC)

RESEARCH APPLICATION AND EVIDENCE BASED PRACTICE IN CRITICAL CARE

QUESTION PAPER FORMAT (FIRST TERM EXAMINATION)

	,
	Marks: 50 Time: 2hours
Q 1. Write Short Answers on any 4 out of 5	(20 marks)
a)	
b)	
c)	
d)	
e)	
Q 2. Long Answer Questions any 2 out of 3	(30 marks)
a. i	(2)
ii 	(5)
iii	(8)
b. i	(2)
ii 	(5)
iii	(8)
c. i	(2)
ii iii	(5) (8)
111	



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FIRST YEAR MSc NURSING (NPCC)

RESEARCH APPLICATION AND EVIDENCE BASED PRACTICE IN CRITICAL CARE

QUESTION PAPER FORMAT (UNIVERSITY EXAMINATION)

		Marks: 70
		Time: 3 hours
Q 1. Write Short Answers on any 5 out of 6		(25 marks)
a)		
b)		
c)		
d)		
e)		
f)		
Q 2. Long Answer Questions any 3 out of 4		(45 marks)
a. i		(2)
ii		(5)
iii		(8)
b. i		(2)
ii		(5)
iii		(8)
c. i		(2)
ii		(5)
iii		(8)
d. i	(2)	
ii	` '	(5)
iii		(8)



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EVALUATION CRITERIA FOR CRITIQUING RESEARCH STUDY

S. No.	Criteria	Max. Marks	Marks Obtained
1.	Title	1	
2.	Abstract	1	
	Introduction		
	Statement of the problem	2	
3.	 Hypothesis or research questions 	2	
	Literature review	2	
	Conceptual / theoretical framework	2	
	Methodology		
	Following ethical principles	1	
4.	Research design	2	
	Population and sampling	1	
	Data collection and measurement Procedures	1	
	Validity, reliability and pilot study	2	
	Results		
5.	Data analysis	2	
	Findings	2	
	Discussion		
6.	 Appropriate discussion of the findings 	1	
0.	Strength and weaknesses of the review	1	
	Any implications	1	
7.	References	1	
	Total Marks	25	



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EVALUATION CRITERIA FOR PRESENTATION

Sl. No.	Criteria	Marks	Marks
т	Contont	Assigned	Obtained
I.	Content	5	
	Organization	1	
	Coverage	2	
	 Use of current literature and research 	1	
	evidence		
	 Appropriateness 	1	
II.	Presentation	10	
	Introduction	1	
	 Coverage of subject content 	2	
	Sequencing	1	
	 Depth of knowledge 	2	
	 Integration of subject matter 	1	
	 Explanation and clarification 	2	
	Time management	1	
III.	AV Aids	3	
	Relevant, clear and visible	1	
	Creativity	1	
	 Used effectively at the right time 	1	
IV.	Speaker's quality	3	
	Grooming	1	
	 Modulation 	1	
	 Gestures and mannerism 	1	
V.	Group participation	2	
VI.	 Encourages participation 	1	
VII.	 Rewards people for their efforts 	1	
VIII.	References	2	
	Total Marks	25	

Remarks

Date & Signature of the Students

Date & Signature of the Preceptor



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

EVALUATION CRITERIA FOR DISSERTATION

Name	s of the Student:					
Subjec	ct:					
Topic	of presentation:	Date:				
S.N.	Criteria	1	2	3	4	5
	Statement of the problem					
I.	Significance of the problem selected					
	 Framing of title and objectives 					
	Organization					
II.	 Inclusion of related studies on the topic, and its relevance 					
	Operational definition					
	Research Design					
	Use of appropriate research design					
III.	 Usefulness of the research design to draw the inferences among study 					
	variables / conclusion					
	Sampling Design					
IV.	 Identification and description of the target population 					
	Specification of the inclusion and exclusion criteria					
	 Adequate sample size justifying study design to draw conclusions. 					
	Data Collection Procedure					
	Preparation of appropriate tool					
V.	Pilot study including validity and reliability of tool					
	 Use of appropriate procedure / method for data collection 					
	Clear and logical organization of the findings					
VI.	Analysis of data and interpretation					
	 Clear presentation of the tables (title, table & column heading) 					
	Selection of appropriate statistical tests					
VII.	Ethical Aspects					
	Use of appropriate consent process					
	 Use of appropriate steps to maintain ethical aspects and principles 					
	(Physical harm etc.)					
VIII.	Interpretation of the findings					
	 Consistent and appropriate discussion of the findings Conclusion 				-	
IX.	Summary & recommendations for Nursing practice / Education /					
1/1.	Administration					
	Presentation / Report writing					
Χ.	 Organization of project work including language & style of presentation 					
	Total Marks (100)		Į.	L		



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

FIRST YEAR MSc NURSING (NPCC)

EVALUATION CRITERIA FOR SYSTEMATIC REVIEW

Names of the Student:

Topic	:						
Total	Marks: 50	Date : _					
S.N.	Criteria		1	2	3	4	5
1.	Title Reflects the topic of the review						
2.	Abstract						
3.	Review of literatureAdequate Literature reviewsUse of relevant studies						
	Methodology						
4.	 Use of appropriate research design 						
4.	Data collection and measurement Procedures						
	Validity, reliability						
	Clear and logical presentation of data analysis						
	Discussion						
	 Appropriate discussion of the findings 						
5.	Limitation of the studies						
	Strength and weaknesses of the review						
	 Any implications 						
	Total Marks						
Remai	·k:						



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

FIRST YEAR MSc NURSING (NPCC)

Journal club outline

- 1. Introduction-Background knowledge
- 2. Overview of article-selection and its significance
- 3. Content review and critical appraisal of content (Research paper-problem, objectives, methods, results, discussion and future implications for critical care nursing practice and relevant research
- 4. Conclusion

Outline for Journal Club Presentation-Research paper

I. Introduction

- A. Study objective/purpose
 - Is the purpose of the study clearly stated?
- B. Hypotheses
 - Is the research question or hypothesis clearly stated?

II. Methodology/Study Design

- A. Design of the experiment/trial
 - Is it a clinical trial, cohort, case-control, cross-sectional, or case-series?
- B. Population/sample
 - 1. What are the criteria for inclusion and exclusion of subjects?
 - 2. What limitations result?
- C. Treatment allocation
 - 1. How are subjects chosen or recruited? Randomly?
 - 2. If not:
 - a. Are they representative of the population?
 - b. How were patients selected for the study to avoid bias?
 - c. If historical controls were used, were methods and criteria the same for the experimental group, and were cases and controls compared on prognostic factors?
 - 3. If there is a control group, how is it chosen?
 - 4. How are patients followed up? Who are the dropouts, and how many are there? Were the circumstances for patients dropping out explained by the authors?
 - 5. Do the authors explain or give a reference to any unusual method used in the study?

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D. Outcome measures

- 1. Are there multiple endpoints?
- 2. Are subgroup analyses performed and, if so, reported appropriately?

E. Statistical analysis

- 1. Are the statistical methods used in the study specified in sufficient detail?
- 2. Is there a statement about the sample size or power? (Statements on power are especially critical in a negative study).
- 3. Do the statistical tests answer the research questions? Are all relevant outcomes reported?
- 4. Were repeated measures made over time, and if so, were they analyzed appropriately?

III. Results

- A. Do the results relate to research questions proposed in the study objectives?
- B. Are actual values reported (e.g., means, standard deviations, proportions), not just the results of statistical tests?
- C. In paired designs, is the magnitude and range of the differences reported?
- D. Are group similar on baseline measures? If not, were appropriated analyses done to take differences into consideration?
- E. Are appropriate graphics used to present results clearly?

IV. Study Discussion/Students' Conclusions

- A. Interpretation of results
 - 1. Are the questions posed in the study adequately addressed?
 - 2. Are the conclusions justified from the data?
 - 3. Does the student reflect on the clinical and statistical significance of results from the study?
- B. Does the student compare results from the study to those of similar studies performed?
- C. Discuss study limitations
 - 1. Are shortcomings of the study addressed and constructive suggestions given for the future research?
- D. Applicability of results
 - 1. Do the authors extrapolate beyond the data?



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

FIRST YEAR MSc NURSING (NPCC)

JOURNAL CLUB EVALUATION

JRSE:	YEAR I/II:		
PIC:	DATE:.		
S.No.	Paper selection and Presentation skills	Marks allotted	Marks obtaine
1.	Paper selection (From peer reviewed journal and current knowledge relevant to critical care nursing practice)	4	
2.	Quality of research (Research question, objectives, methods, results & discussion) / content reviewed	4	
3.	Critical appraisal of the content/results of research	4	
4.	Interesting and creative, Use of AV aids-organization and clarity	2	
5.	Group involvement & effective handling of questions	2	
6.	Organization, clarity and credibility in presentation	2	
7.	Professional outlook-poise, emotional stability	1	
8.	Time management	1	
	TOTAL	20 Marks	

Remarks:-

Signature of preceptor

Signature of faculty



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

FIRST YEAR MSc NURSING (NPCC)

EVALUATION CRITERIA-RESEARCH INSTRUMENT

Batch :- _____ Date:- _____

Topics:-_____

Name of the Supervisor:							
Total M	Marks – 50	Marks obtained:					
Sr.No.	Criteria	Marks Assigned	Marks Obtained				
1	Content						
	Adequacy	5					
	Appropriateness to objectives	5					
	Appropriateness to design	5					
	Relevance	5					
	Clarity	5					
	Comprehensiveness	5					
	Construction of Item	5					
2	Organization	5					
3	Illustration	5					
4	Resources Used-Literature Review	5					
	Total Marks	50					

Remarks:

Name of the Student: -



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

Advanced skills in Leadership, Management and Teaching

Placement - First Year

Theory: 56 Hrs

Practical: 24Hrs (Lab/Skill lab Clinical: 192 Hrs (4 weeks)

Course Description

This course is designed to assist the students to develop a broad understanding of Principles, concepts, trends and issues related to leadership and management in critical care units. It would also provide opportunity to students to understand, appreciate and acquire skills in budgetary planning, supervision and management of manpower and supplies in critical care units. Further it would enable the students to understand the basic principles of education, and acquire skill in teaching.

Competencies

- 1. Applies principles of leadership and management in critical care units
- 2. Manages stress and conflicts effectively in a critical care setting using sound knowledge of principles.
- 3. Applies problem solving and decision making skills effectively.
- 4. Uses critical thinking and communication skills in providing leadership and managing patient care in ICU.
- 5. Builds teams and motivates others in ICU setting.
- 6. Develops unit budget, manages supplies and staffing effectively.
- 7. Participates appropriately in times of innovation and change.
- 8. Uses effective teaching methods, media and evaluation based on sound principles of teaching.
- 9. Develops advocacy role in patient care, maintaining quality and ethics in ICU environment.
- 10. Provides counseling to families and patients in crisis situations particularly end of life care



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

Course Content

Unit	Theory Hours	Торіс	Practical Hours	Teaching Learning Activities	Method of Assessment
1	2	Theories, styles of leadership and current trends			
2	2	Theories, styles of management and current trends			
3	4	Principles of leadership and management applied to critical care settings			
4	4	Stress management and conflict management - principles and application to critical care		Seminar	
5	4	Quality improvement and audit	2	Patient care audit	
			2	Preparation of nursing care standards and protocols	
6	5	Problem solving, critical thinking and decision making, communication skills applied to critical care nursing practice	2	Monitoring, evaluation, and writing report of infection control practices	Term Paper ICU work place violence
7	2	Team building, motivating and mentoring within ICU set up		Seminar	
8	5	Budgeting and management of resources including human	1	Preparation of staff patient assignment	
		resources - ICU budget, material management, staffing, assignments	1	Preparation of staff duty roster	
			2	Preparation of unit budget	
			2	Management of equipment and supplies	
9	2	Change and innovation		Seminar	
10	6	Staff performance, and evaluation (performance appraisals)		Assignment	
11	2	Teaching - Learning theories and principles applied to Critical Care Nursing	2	Exercise Development of teaching plan	



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Unit	Theory Hours	Торіс	Practical Hours	Teaching Learning Activities	Method of Assessment
12	2	Competency based education and outcome based education	2		
			2		
			2		
13	8	Teaching methods / strategies, media: educating patients and staff in Critical Care settings		Preparation of teaching method and media for patients and staff	
14	4	Staff education and use of tools in evaluation	4	Micro teaching / patient education sessions Planning and conducting OSCE/OSPE Construction of tests	Micro teaching for staff Construction of Test
15	2	APN - Roles as a teacher		Clinical Conference	
16	2	Advocacy roles in critical care environment		Clinical Conference	
Total	56 hrs.		24 hrs		

CLINICAL PLACEMENT

S. No	Area	Duration
1	Medical ICU	1 week
2	Surgical ICU	1 week
3	Cardio /cardiothoracic ICU	1 week
4	Emergency ICU	1 week
	Total	4 weeks



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INTERNAL ASSESSMENT

Sl. No	Items	Marks	Weightage in %	Marks out of 30
1.	Examination			
	First term Examination	50	50	15
	Second term Examination	70		
2.	Assignments			
	Journal Club (Trends in Leadership	20x2=40		5
	,Management and Teaching)-2			
	Term Paper - ICU work place violence	50	50	5
	Microteaching for Staff (1)	20		5
	Total	230	100	30

UNIVERSITY EXAMINATION

Theory Marks			Practical Marks		
Duration (Hours)	Internal	External	Hours	Internal	External
3	30	70	NIL		

Bibliography:

Bastable, S. B. (2010). Nurse as educator: Principles of teaching and learning for nursing practice (3rd ed.). New Delhi: Jones & Bartlett Publishers

Billings, D. M., & Halstead, J. A. (2009). Teaching in nursing: A guide for faculty (3rd ed.). St.Louis, Missouri: Saunders Elsevier.

Clark, C. C. (2010). Creative nursing leadership and management. New Delhi: Jones and Bartlet Publishers.

McConnel.(2008). Management principles for health professionals. Sudbury, M. A: Jones and Bartlet Publishers.

Roussel, L., &Swansburg, R. C. (2010). Management and leadership for nurse administrators (5th ed.). New Delhi: Jones and Bartlet Publishers.



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

FIRST YEAR MSc NURSING (NPCC)

Advanced skills in Leadership, Management and Teaching

QUESTION PAPER FORMAT (FIRST TERM EXAMINATION)

	Marks: 50
	Time: 2hours
Q 1. Write Short Answers on any 4 out of 5	(20 marks)
a)	
b)	
c)	
d)	
e)	
Q 2. Long Answer Questions: Any 2 out of 3	(30 marks)
a. i	(2)
ii	(5)
iii	(8)
b. i	(2)
ii	(5)
iii	(8)
c. i	(2)
ii	(5)
iii	(8)



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

FIRST YEAR MSc NURSING (NPCC)

Advanced skills in Leadership, Management and Teaching

QUESTION PAPER FORMAT (UNIVERSITY EXAMINATION)

		Marks: 70
		Time: 3 hours
Q 1. W	Vrite Short Answers on any 5 out of 6	(25 marks)
	a)	
	b)	
	c)	
	d)	
	e)	
	f)	
Q 2. Lon	g Answer Questions: Any 3 out of 4	(45 marks)
a. i		(2)
	ii iii	(5) (8)
	111	
b. i	::	(2)
	ii iii	(5) (8)
		` ,
c. i		(2)
	ii	(5)
	iii	(8)
d. i		(2)
	ii	(5)
	iii	(8)



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai FIRST YEAR MSc NURSING (NPCC)

Guidelines for Construction of Test

Steps:

- 1. Planning for the test
 - Subject
 - Marks
 - Time
 - Type of Examination
 - Topics
 - Difficulty level
- 2. Designing the test
 - Weightage to the content
 - Weightage to the objectives
 - Weightage to the form of objectives
 - Weightage to the difficulty level
 - Scheme of options
- 3. Preparation of blue print
- 4. Writing of items
- 5. Question wise analysis
- 6. Editing of question paper
- 7. Answer Key



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai FIRST YEAR MSc NURSING (NPCC)

TEACHING / MICRO TEACHING EVALUATION (Family/student education)

		Marks	Marks
AUDIENC	EDURATION		
TOPIC:	DATE		
COURSE:	YEAR I/II:		
NAME OF	THE STUDENT:		

S.No.	Particulars	Marks allotted	Marks obtained
I.	PREPARATION OF TEACHING PLAN	3	
	Objectives		
	Content (appropriate, adequate, organization, recent updates)		
	References		
II.	PREPARATION OF SETTING	2	
	Seating, lighting, ventilation, cleanliness, availability of resources		
III.	PRESENTATION	10	
	Learning outcomes/objectives made clear to the audience		
	Clarity in presentation		
	Organization of content		
	Confidence in presentation		
	Appropriate eye contact, posture, Language, manners and discipline		
	Group involvement & Sustaining the interest of the group		
	Keeping the interest of the group		
	Clarifying doubts and leading discussions		
	Use of appropriate illustrations		
	Time management		
V	TEACHING AID	3	
	Appropriate and effective use		
	Creativity & clarity		
	ASSIGNMENT/PLAN FOR FOLLOW UP	2	
	Relevant & Achievable		
	Total	20	

Remarks:

Signature of preceptor

Signature of faculty



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

ADVANCED PRACTICE COURSES

ADVANCED PATHOPHYSIOLOGY APPLIED TO CRITICAL CARE NURSING

Placement: First Year

Theory – 60 hours Practical – 336 hours

Course description:

The course is designed to enhance advanced knowledge on pathophysiology and the adaptive responses that will support clinical decision making about the diagnosis and treatment of acute and chronic disease conditions.

Competencies:

- 1. Integrates the knowledge of pathopysiological process in critical conditions in developing diagnosis and plan of care
- 2. Applies the pathophysiogical principles in symptom management and secondary prevention of critical Illnesses
- 3. Analyzes the pathophysiological changes relevant to each critical illness recognizing the value of diagnosis, treatment, care and prognosis

Unit	Theory Hours	Content	Practical /lab hours	Teaching Learning Activities	Method of Assessment
1.	8	Advanced pathophysiological process of cardiovascular condition Hypertensive disorder Peripheral artery disorder Venous disorders Coronary artery diseases Valvular heart disease Cardiomyopathy and heart failure Cardiac Tamponade Arrhythmias Corpumonale Heart block and conduction Disturbances		 Lecture cum discussion Problem based learning, Nursing rounds Clinical conference One minute preceptorship 	 Case presentation Seminar, Case studies Journal writing



Unit	Theory Hours	Content	Practical /lab hours	Teaching Learning Activities	Method of Assessment
П	4	Pulmonary function Advanced Pathophysiological process of pulmonary conditions Chronic obstructive pulmonary disease • Disorders of the pulmonary vasculature • Infectious diseases • Respiratory failure • Chest trauma		 Lecture cum discussion Problem based learning , Nursing rounds Clinical conference One minute preceptors 	 Case presentation Seminar, Case studies Journal writing
III	6	Neurological functions Advanced Pathophysiological process of Neurological function Seizure disorder • Cerebrovascular disease • Infections • Spinal cord disorder • Degenerative neurological diseases • Neurological trauma • Coma, unconsciousness		 Lecture cum discussion Problem based learning , Nursing rounds Clinical conference One minute preceptors 	 Case presentation Seminar, Case studies Journal writing
IV	4	Renal function Advanced Pathophysiological process of Renal function • Acute renal failure • Chronic renal failure • Bladder trauma • Infections (Glomerulonephritis) • Nephrotic syndrome		 Lecture cum discussion Problem based learning , Clinical conference One minute preceptors 	 Case presentation Seminar, Case studies Journal writing
V	4	Gastrointestinal and hepatobiliary Function Advanced Pathophysiological process of hepatobiliary conditions Gastrointestinal bleeding Intestinal obstruction Pancreatitis, Hepatic failure Gastrointestinal perforation		 Lecture cum discussion Problem based learning , Clinical conference One minute preceptors 	 Case presentation Seminar, Case studies Journal writing



Unit	Theory Hours	Content	Practical /lab hours	Teaching Learning Activities	Method of Assessment
VI	4	Endocrine function Advanced Pathophysiological process of endocrine function • Diabetic keto acidosis • Hyperosmolar non ketotic coma • Hypoglycemia • Thyroid storm • Myxedema coma • Adrenal crisis • Syndrome of inappropriate antidiuretic hormone secretion		 Lecture cum discussion Problem based learning , Nursing rounds Clinical conference One minute preceptors 	 Case presentation Seminar, Case studies Journal writing
VII	8	Hematological function Advanced Pathophysiological process of Hematological conditions • Disorders of Red blood cells - Polycythemia - Anemia - Sickle cell diseases • Disorders of white blood cells - Leucopenia - Neoplastic disorders • Disorders of hemostasis - Platelet disorders - Coagulation disorders - Disseminated intravascular coagulation		 Lecture cum discussion Problem based learning, Nursing rounds Clinical conference One minute preceptors 	Case presentation Seminar, Case studies Journal writing
VIII	2	Integumentary function Advanced Pathophysiological process of integumentary conditions Wound healing • Burns • Steven Johnson Syndrome		 Lecture cum discussion Problem based learning , One minute preceptorship 	Case presentation Seminar, Case studies Journal writing



Unit	Theory Hours	Content	Practical/ Lab Hours	Teaching Learning	Method of Assessment
	Hours			Activities	Assessment
IX	8	Multisystem dysfunction Advanced Pathophysiological process of Multi systeml conditions Shock - Hypovolemic - Cardiogenic - Distributive • Systemic inflammatory syndrome • Multiple organ dysfunction syndrome • Trauma - Thoracic ,Abdominal - Musculoskeletal , maxillofacial • Drug overdose and poisoning • Envenomation		 Lecture cum discussion Problem based learning, Nursing rounds Clinical conference One minute preceptorship 	Case presentation Seminar, Case studies Journal writing
X	6	Specific infections Advanced Pathophysiological process of specific infections • HIV ,Tetanus ,SARS • Rickettsisosis, Leptospirosis • Dengue, Malaria, Chickungunya • Rabies • Avian flu ,Swine flu		Lecture cum discussion Problem based learning , Nursing rounds Clinical conference One minute preceptorship	Case presentation Seminar, Case studies Journal writing
XI	6	Reproductive function Advanced Pathophysiological process of Reproductive conditions Ante partum hemorrhage • Pregnancy induced hypertension • Obstructed labour, Ruptured uterus • Postpartum hemorrhage, Puerperal sepsis • Amniotic fluid embolism HELLP (hemolysis, Elevated Liver Enzymes, low platelet count), Trauma		 Lecture cum discussion Problem based learning , Nursing rounds Clinical conference One minute preceptorship 	Case presentation Seminar, Case studies Journal writing



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

Bibiliography

Huether, S. E., &McCance, K. L. (2012). Understanding pathophysiology (5th ed.). St. Louis, Missouri: Elsevier

John, G., Subramani, K., Peter, J. V., Pitchamuthu, K., &Chacko, B. (2011). Essentials of critical care (8th ed.). Christian Medical College: Vellore.

Porth, C. M. (2007). Essentials of pathophysiology: Concepts of altered health states (2nded.). Philadelphia: Lippincott Williams and Wilkins.

Urden, L. D., Stacy, K. M., & Lough, M. E. (2014). Critical Care Nursing- Diagnosis and management (7th ed.). Elsevier: Missouri



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

ADVANCED PHARMACOLOGY RELEVANT TO CRITICAL CARE NURSING

Placement: First Year

Theory – 54 hours Practical – 336 hours

Course description:

This course is designed to enhance the advanced knowledge and clinical application of drug therapy with emphasis on mechanisms of drug actions, therapeutic effects, adverse effects, drug interactions with an integrated approach to pathophysiology and relevant considerations for illness management

Competencies:

- Applies the pharmacological principles in providing care to critically ill patients and families
- Analyzes pharmacotherapeutics and pharmacodynamics relevant to drugs used in treatment of critical care conditions
- Perform safe drug administration based on principles and institutional protocols
- Documents accurately and provides follow up care
- Applies sound knowledge of drug interactions in administration of drugs to critically ill patients in the critical care setting and guiding their families in self care management.



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

ADVANCED PHARMACOLOGY RELEVANT TO CRITICAL CARE NURSING

Content

Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
I	2	Introduction to pharmacology in critical care :		Lecture	Written test
		- History		Group	
		- Classification of drugs and		discussion	
		schedules			
II	4	Pharmacokinetics &		Lecture	Written test
		pharmacodynamics		Seminar	
		• Introduction			
		Absorption , Distribution, Metabolism, Distribution and			
		Excretion in critical care area.			
		Plasma concentration ,half life			
		Loading and maintenance Dose			
		• Therapeutic index and drug safety			
		Potency and efficacy Principles of drug administration			
		 Principles of drug administration The rights of drug administration 			
		Systems of measurement			
		 Enteral drug administration 			
		o Topical drug administration			
III		 Parenteral drug administration Pharmacology and Cardiovascular 		Lecture,	Drug
		alterations in critical care		,	presentation\
				Group	
		Vasoactive medications		discussion	Patient
		 Vasodilator Vasopressor		Clinical	Rounds,
		o <u>Inotropes</u>		conferences,	Clinical
		- Cardiac glycosides- digoxin		5 11 1 1	Patient Log,
		- Sympathomimetics- dopamine,		Problem based	Woodsals
		Dobutamine, Epinephrine, isoproterenol, norepinephrine,		Learning,	Worksheets
		pehenylephrine			on case scenarios
		- Phosphodiesterase inhibitors — amrinone, milrinone			Scenarios



Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
III	5	 Antiarrhythmic Medications Cardiac critical care condition Medications to improve cardiac contractibility Medications in the management of hypertension in critical care Medications in the management of heart failure. Medications in the management of angina pectoris and myocardial infarction Medications in the management of dysrhythmias, heart block and conduction disturbances Medications in the management of pulmonary hypertension, valvular heart disease, cardiomyopathy. Medications in the management of Atherosclerotic disease of aorta and peripheral artery. Medications in the management of Deep vein thrombosis Institutional protocols /standing orders for cardiac critical care emergencies 			
IV	4	Pharmacology and pulmonary alterations in critical care • Mechanical ventilation ○ Introduction ○ Medications used on patients with mechanical ventilator ○ Mechanical ventilation impact on pharmacotherapy- sedation and analgesia, Neuromuscular blockade, Nutrition • Pulmonary critical care conditions ○ Medications in management of status asthmaticus ○ Medications in management of pulmonary edema ○ Medications in management of Pulmonary embolism		Lecture, Group discussion Case presentation, Clinical conferences,	Drug presentation, Patient Rounds, Clinical Patient Log, Worksheets on case scenarios



Medications in management of Acute Respiratory failure & Acute Respiratory distress syndrome Medications in management of Chest trauma. Medications in management of Chronic Obstructive Pulmonary disease. Medications in management of Pneumonia. Medications in management of Pleural effusion. Medications in management of Pleural effusion. Medications in management of Atelactasis Standing orders for pulmonary critical care emergencies V 6 Pharmacology and Neurological alterations in Critical care Pain NSAID Opioids analgesia Sedation Gamma amnio butyric acid stimulants Dexmeditomidine Analgosedation Delirium Haloperidol Atypical anti psychotics Medications used for local and general anesthesia Local- amides, esters and miscellaneous agents	Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
 General- Gases, Volatile liquids, IV anesthetics Non anesthethtic drugs adjuncts to surgery Paralytic Medications Non depolarizing and depolarizing agents 	V	6	Acute Respiratory failure & Acute Respiratory distress syndrome Medications in management of Chest trauma. Medications in management of Chronic Obstructive Pulmonary disease. Medications in management of Pneumonia. Medications in management of Pleural effusion. Medications in management of Pleural effusion. Medications in management of Atelactasis Standing orders for pulmonary critical care emergencies Pharmacology and Neurological alterations in Critical care Pain NSAID Opioids analgesia Sedation Gamma amnio butyric acid stimulants Dexmeditomidine Analgosedation Delirium Haloperidol Atypical anti psychotics Medications used for local and general anesthesia Local- amides, esters and miscellaneous agents General- Gases, Volatile liquids, IV anesthetics Non anesthethtic drugs adjuncts to surgery Paralytic Medications Non depolarizing and		Activities	



Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
	6	Autonomic drugs			
		 Adrenergic agents 			_
		/Sympathomimetics		Clinical	Drug
		 Adrenergic blocking agents 		conferences,	presentation,
		 Cholinergic agents 		Problem based	Patient
		 Anticholinergic agents 		Learning,	Rounds,
		Medications in the management of		Learning,	rtounus,
		- Anviety and Incompie		One minute	Clinical
		 Anxiety and Insomnia Antidepressants		preceptorship	Patient Log,
		Benzodiazepines			*** 1 1
		o Barbiturates			Worksheets on
		Neurological critical care			case scenarios
		conditions			
		 Medications in the management 			
		of Psychoses			
		Medications in the management			
		of acute head injury and spinal cord injury with elevated			
		intracranial pressure			
		 Medications in the management 			
		of muscle spasm			
		 Medications in the management 			
		of spasticity			
		Medications in the management			
		of cerebrovascular disease and cerebrovascular accident			
		 Medications in the management 			
		of Encephalopathy			
		Medications in the management			
		of Gillian bare syndrome and			
		myasthenia gravis			
		 Medications in the management 			
		of Brain herniation syndrome			
		o Medications in the management			
		of Seizure disorderMedications in the management			
		of Coma, unconsciousness and			
		persistent Vegetative State			
		 Appropriate Nursing care to safe 			
		guard patient			
		Standing orders for neurology			
		critical care emergencies			



Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
VI	5	Pharmacology and Nephrology alterations in critical care • Diuretics		Problem based Learning,	Drug presentation,
		Fluid replacementCrystalloids		One minute preceptorship	Patient Rounds, Clinical Patient
		o Colloids			Log,
		 Electrolytes Sodium Potassium Calcium Magnesium Phosphorous Nephrology critical care conditions 			Worksheets on case scenarios
		 Medication in the management of Acute /chronic renal failure 			
		 Medication in the management of Acute tubular necrosis 			
		 Medication in the management of Bladder trauma 			
		 Medication in the management of Electrolyte imbalances 			
		 Medication in the management of Acid base balances 			
		 Medication in the management of Dialysis Standing orders for nephrology critical care emergencies 			
VII	5	Pharmacology and gastrointestinal alterations in critical care • Antiulcer drugs • Antidiarrheals • Antiemetic • Pancreatic enzymes • Nutritional supplements, vitamins and minerals			



Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
		 Gastrointestinal critical care conditions Acute GI bleeding, Hepatic failure, acute pancreatitis Abdominal injury hepatic encephalopathy acute intestinal obstruction Perforative peritonitis Gastro intestinal surgeries and Liver transplant Standing orders for gastrointestinal critical care emergencies. 		Lecture, Group discussion Case presentation, Clinical conferences,	Drug presentation, Worksheets on case scenarios
VIII	4	Pharmacology and endocrine alterations in critical care • Hormonal therapy • Insulin and other hypoglycemic agents • Endocrine critical care Conditions • Medications in the management of Diabetic keto acidosis, Hyperosmolar non ketotic coma • Medications in the management of Hypoglycemia • Medications in the management of Thyroid storm • Medications in the management of Myxedema Coma • Medications in the management of Adrenal crisis • Medications in the management of SIADH • Standing orders for endocrine critical care emergencies		 Problem based Learning , One minute preceptorsh ip 	Drug presentation, Patient Rounds,
IX		Pharmacology and hematology alterations in critical care • Anticoagulants • Antiplatelets drugs • Thrombolytics • Hemostatics/ antifibrinolytics		Lecture, Group discussion Case presentation, Problem based Learning, Visit to blood bank	Drug presentation, Patient Rounds, Worksheets on case scenarios



Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
	5	Hemopoietic growth factors Erythropoietin Colony stimulating factors Platelet enhancers Blood and blood products Whole blood, packed red blood cells, leukocyte –reduced red cells, washed red blood cells, fresh frozen plasma, cryoprecipitate Albumin Transfusion reactions, transfusion administration process Vaccines Immuno stimulants Immunosuppressants Chemotherapeutic drugs-Alkylating agents, antimetabolites, antitumor antibiotics, alkaloids, hormones and hormone antagonist, corticosteroids, gonadal hormones, antiestrogens, androgen anatagonists, biologic response modifiers Hematology critical care conditions Medications in the management of Anemia in critical illness. Medications in the management of Thrombocytopenia and acute leukemia Medications in the management of Heparin induced thrombocytopenia Medications in the management of Sickle cell anemia Medications in the management of Tumor lysis syndrome Standing orders for hematology critical care emergencies		Acuvitues	



Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
X	3	Pharmacology and skin alterations in critical care Medications in the management of Medications in the management of Burn management Medications in the management of Wound management Standing orders for skin critical care emergencies		Case presentation, Clinical conferences,	Drug presentation, Patient Rounds, Clinical Patient Log Worksheets on case scenarios
XI	5	Pharmacology and multisystem alterations in critical care Medications in the management of Shock, sepsis, multiple organ dysfunction, systemic inflammatory response syndrome, anaphylaxis. Medications in the management of Trauma, injuries (heat, electrical, near hanging, near drowning). Medications in the management of bites, drug overdose and poisoning Management of Fever Antipyretics NSAIDS Corticosteroids Standing orders for multisystem critical care emergencies		Lecture, Group discussion Case presentation, Clinical conferences,	Drug presentation, Patient Rounds, Worksheets on case scenarios
XII	6	Pharmacology and infections in critical care Antibacterial drugs Introduction Beta lactams- pencillins, cephalosporins, monobactams, carbapenams Aminoglycosides Anti MRSA Quinolones		Lecture, Group discussion Clinical conferences, Problem based Learning,	Drug presentation, Patient Rounds, Worksheets on case scenarios



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
		 Miscellaneous- Lincosamide group nitromidazole, tetracycline and chloramphenicol, polymyxins, antimalarials, anti fungals, antivirals Anti fungal drugs Anti protozoal drugs Anti viral drugs Choice of antimicrobials Infectious critical Care conditions Medications in the management of HIV, tetanus, SARS, Rickettsisosis, Leptospirosis, Dengue, Malaria, chickungunya, rabies, Avian flu and Swine Flu Standing orders for infectious critical care emergencies 			

CLINICAL PLACEMENT

Advanced Pathophysiology – 7 weeks

Advanced Pharmacology - 7 weeks

S. No	Area	Duration
1	Medical ICU	4 weeks
2	Surgical ICU	4 weeks
3	Cardio /cardiothoracic ICU	2 weeks
4	Emergency ICU	1 week
5	Casuality	1 week
6	Burns	1 week
7	Dialysis	1 week
	Total	14 weeks



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

ADVANCED PHARMACOLOGY AND PATHOPHYSIOLOGY RELEVANT TO CRITICAL CARE NURSING

Internal Assessment - Theory

S.No	Item	Marks allotted	Weightage	Out of 30 Marks
1.	Examination			
	First term Examination	50	50%	15
	Pre final Examination	70	3070	13
2.	Assignments			
	Drug study Presentation	20	25%	7.5
	Drug Study Report	20		
	Case Study	20	25%	7.5
	Case presentation	20		
	Total	200	100	30

UNIVERSITY EXAMINATION:

Theory Marks			Practical Marks		
Duration (Hours)	Internal	External	Hours Internal External		External
3	30	70	Nil		



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

FIRST YEAR MSc NURSING (NPCC)

DRUG STUDY PRESENTATION

COURSI	E: YEAR I/I	I:	
TOPIC:_			
DATE:_			
S.No.	Presentation skills	Marks allotted	Marks obtained
1.	Coverage of content -12		
1.1	Drug name –generic with dosage, therapeutic ranges & route of		
	administration	3	
1.2	Mechanism of Action, metabolism and excretion	2	
	Side effects, adverse reactions, drug interactions and		
1.3	management incl. anaphylaxis management	3	
1.4	Precautions and monitoring	1	
1.5	Patient's response to drug treatment	1	
1.6	Overdose-symptoms & treatment	2	
2.	Clarity and credibility in presentation	1	
3.	Well organized	1	
4.	Interesting and creative, use of illustrations	2	
5.	Group involvement & effective handling of questions	1	
6.	Confidence and resourcefulness	1	
7.	Professional outlook-poise, emotional stability	1	
8	Time management	1	

TOTAL

REMARKS:

NAME OF THE STUDENT:_

20



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

FIRST YEAR MSc NURSING (NPCC)

DRUG STUDY REPORT

S.No.	Particulars	Marks allotted	Marks obtained
1.	Drug name –generic with dosage, therapeutic ranges & route of administration	3	
2	Mechanism of Action, metabolism and excretion	2	
3	Side effects, adverse reactions, drug interactions and management incl. anaphylaxis management	3	
4	Precautions and monitoring	1	
5	Patient's response to drug treatment	1	
6	Overdose-symptoms & treatment	2	
7	Discussion and conclusion	2	
8	Organization in presenting the written content	2	
9	Use of illustrations	2	
10	References	2	
	Total	20	

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Signature of preceptor

Signature of faculty



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

FIRST YEAR MSc NURSING (NPCC)

CLINICAL PRESENTATION EVALUATION

(PATHOPHYSIOLOGY)

NAME OF THE STUDENT:	
COURSE:	YEAR I/II:
TOPIC:	
DATE:	

S. No.	Presentation skills	Marks allotted	Marks obtained
1.	Coverage of content -12		
1.1	Brief patient presentation	4	
1.2	Relevant normal physiology and abnormal physiological changes/processes related to critical condition	8	
2.	Clarity and credibility in presentation	1	
3.	Well organized	1	
4.	Interesting and creative, use of illustrations	2	
5.	Group involvement & effective handling of questions	1	
6.	Confidence and resourcefulness	1	
7.	Professional outlook-poise, emotional stability	1	
8.	Time management	1	
	TOTAL	20	

REMARKS:-



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FIRST YEAR MSc NURSING (NPCC)

CASE STUDY

PATHOPHYSIOLOGY

NAME OF THE STUDENT:	
COURSE:	YEAR I/II:
TOPIC:	
DATE:	

S.No.	Particulars	Marks allotted	Marks obtained
1.	Introduction of patient, history & physical examination, and Diagnostic tests – significant findings	5	
2.	Diagnosis and relevant pathophysiology	1	
3.	Management plan (Identification of outcomes & Development of plan for care/care pathway)	2	
4.	Management (Treatment and nursing interventions including family education and counseling) & Achievement of outcomes(Patients responses to treatment and interventions)	4	
5	Discussion and conclusion	2	
6	Organization in presenting the written content	2	
7	Use of illustrations	2	
8	References	2	
	Total	20	

REMARKS:-



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FIRST YEAR MSc NURSING (NPCC)

QUESTION PAPER FORMAT (FIRST TERM EXAMINATION)

Marks: 50 Time: 2 hours

SECTION A

ADVANCED PATHOPHYSIOLOGY APPLIED TO CRITICAL CARE NURSING

Marks = 25

Q1. Write short Notes on any 2 out of 3	2 x5 = 10 marks			
a. 1.				
b. c.				
Q 2 Long answer questions on any 1 out of 2	$1x \ 15 = 15 \text{ marks}$			
a. i	(2)			
ii	(5)			
iii	(8)			
b. i	(2)			
ii	(5)			
iii	(8)			
	,			
SECTION B				
ADVANCED PHARMACOLOGY APPLIED TO CRITICAL CARE NURSING				
ADVANCED PHARMACOLOGY APPLIED T	TO CRITICAL CARE NURSING			
ADVANCED PHARMACOLOGY APPLIED T	TO CRITICAL CARE NURSING Marks 25			
ADVANCED PHARMACOLOGY APPLIED TO Q3. Write short Notes on any 2 out of 3				
Q3. Write short Notes on any 2 out of 3 a.	Marks 25			
Q3. Write short Notes on any 2 out of 3 a. b.	Marks 25			
Q3. Write short Notes on any 2 out of 3 a. b. c.	Marks 25 $2 x5 = 10 \text{ marks}$			
Q3. Write short Notes on any 2 out of 3 a. b. c. Q4 Long answer questions on any 1out of 2	Marks 25 $2 x5 = 10 \text{ marks}$ $1x 15 = 15 \text{ marks}$			
Q3. Write short Notes on any 2 out of 3 a. b. c. Q4 Long answer questions on any 1 out of 2 a. i	Marks 25 $2 x5 = 10 \text{ marks}$ $1x 15 = 15 \text{ marks}$ (2)			
Q3. Write short Notes on any 2 out of 3 a. b. c. Q4 Long answer questions on any 1out of 2 a. i ii	Marks 25 $2 \times 5 = 10 \text{ marks}$ $1 \times 15 = 15 \text{ marks}$ (2) (5)			
Q3. Write short Notes on any 2 out of 3 a. b. c. Q4 Long answer questions on any 1 out of 2 a. i	Marks 25 $2 x5 = 10 \text{ marks}$ $1x 15 = 15 \text{ marks}$ (2)			
Q3. Write short Notes on any 2 out of 3 a. b. c. Q4 Long answer questions on any 1out of 2 a. i ii	Marks 25 $2 \times 5 = 10 \text{ marks}$ $1 \times 15 = 15 \text{ marks}$ (2) (5)			
Q3. Write short Notes on any 2 out of 3 a. b. c. Q4 Long answer questions on any 1 out of 2 a. i ii iii	Marks 25 2 x5 = 10 marks 1x 15 = 15 marks (2) (5) (8)			



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

FIRST YEAR MSc NURSING (NPCC)

QUESTION PAPER FORMAT (UNIVERSITY EXAMINATION)

ADVANCED PATHOPHYSIOLOGY & ADVANCED PHARMACOLOGY APPLIED TO CRITICAL CARE NURSING

Marks: 70 Time: 3 hours

SECTION A

ADVANCED PATHOPHYSIOLOGY APPLIED TO CRITICAL CARE NURSING Marks = 35 $4 \times 5 = 20 \text{ marks}$ Q1. Write short Notes on any 4 out of 5 a. b. c. d. Q . 2 Long answer questions on any 1 out of 2 1x 15 = 15 marksa. i (2) ii (5) iii (8) b. i (2) ii (5) iii (8)

SECTION B

ADVANCED PHARMACOLOGY APPLIED TO CRITICAL CARE NURSING

	Marks 35
Q3. Write short Notes on any 4 out of 5	4 x5 = 20 marks
a.	
b.	
c.	
d.	
e.	
Q . 4 Long answer questions on any 1out of 2	$1x \ 15 = 15 \ marks$
a. i	(2)
ii	(5)
iii	(8)
b. i	(2)
ii	(5)
iii	(8)



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

ADVANCED HEALTH / PHYSICAL ASSESSMENT IN CRITICAL CARE NURSING

Placement: First YearTheory: 70 HoursPractical/ Lab Hrs: 48 Hours

Clinical : 576 Hrs

Course Description -The course is designed to develop advanced health assessment skills to identify critical conditions and carry out treatment /intervention to stabilize and restore patient's health.

Competencies:

- Applies the physical assessment principles in developing appropriate system wise examination skills
- Uses advanced health assessment skills to differentiate between variations of normal and abnormal findings
- Orders screening and diagnostic tests based on the examination findings
- Analyzes the results of various investigations and works collaboratively for development of diagnoses
- Documents assessment, diagnosis, and management and monitors follow up care in partnership with health care team members, patients, and families



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

Placement: First YearTheory: 70 HoursPractical/ Lab Hrs: 48 Hours

CONTENT

Unit	Theory Hrs	Theory	Practical/ Lab Hrs	Teaching learning activities	Method of Assessment
I	4	IntroductionHistory takingPhysical examination	3	•Faculty demonstration (clinical) Comprehensive Heath history Physical assessment (General)	Return demonstration
II	6	Cardiac history Physical examination Cardiac laboratory studies - biochemical markers, hematological studies Cardiac diagnostic studies - Electrocardiogram, echocardiography, stress testing, radiological imaging	5	Faculty demonstration (clinical) Focused Heath history Cardiovascular system assessment Demonstrations on	Return demonstration
III	6	 Respiratory system History Physical examination Respiratory monitoring - Arterial blood gases, pulse oximetry, end-tidal carbon dioxide monitoring 		Faculty demonstration (clinical) Focused Heath history Respiratory system assessment	Return demonstration



Unit	Theory Hrs	Theory	Practical/ Lab Hrs	Teaching learning activities	Method of Assessment
		Respiratory Diagnostic tests - Chest radiography, ventilation perfusion scanning, pulmonary angiography, bronchoscopy, thoracentesis, sputum culture, pulmonary function test	5	Demonstrations on Collection of blood sample Collection of sputum for culture Assisting Procedures Bronchoscopy Pulmonary angiography Thoracentesis Witnessing Procedures Chest X-ray Ventilation perfusion scanning Interpretation of ABG pulse oximetry, End-tidal carbon dioxide monitoring Ventilation perfusion scanning Ventilation perfusion scanning Ventilation perfusion scanning	
IV	6	Nervous system Neurological history General physical examination Assessment of cognitive function Assessment of cranial nerve function Motor assessment - muscle strength, power, and reflexes Sensory assessment - dermatome assessment Neuro diagnostic studies - CT scan, MRI, PET	5	Faculty demonstration (clinical) Focused Heath history Nervous system assessment Demonstrations on Glasgow coma scale Motor assessment Sensory assessment Cranial Nerve Assessment Pain and sedation score Assisting Procedures Lumbar puncture PET scan ICP monitoring Interpretation of CT scan, MRI, PET	Return demonstration



Unit	Theory Hrs	Theory	Practical/ Lab Hrs	Teaching learning activities	Method of Assessment
V	6	 Renal system History Physical examination Assessment of renal function Assessment of electrolytes and acid base balance Assessment of fluid balance 	4	 Faculty demonstration (clinical) Focused Heath history Renal system assessment Assisting Procedures Renal Biopsy Interpretation of Renal Function test Interpretation of fluid and electrolyte balance Acid base abnormalities 	Return demonstration
VI	4	 Gastrointestinal system History Physical examination Nutritional assessment Laboratory studies – Liver function studies, blood parameters, stool test Diagnostic studies – radiological and imaging studie endoscopic studies 	3	 Faculty demonstration Focused Heath history Gastrointestinal system assessment Demonstrations on Collection of blood samples Assisting Procedures Liver Biopsy Witnessing Procedures ERCP Endoscopy CT Scan, Ultrasound Interpretation of Bowel Sounds Abdominal pressure, Residual gastric volume, Liver function test 	Return demonstration
VII	4	 Endocrine system History, physical examination, laboratory studies, and diagnos studies of Hypothalamus and pituitary gla Thyroid gland Parathyroid gland Endocrine gland Adrenal gland 		 Faculty demonstration Focused Heath history Endocrine system assessment Interpretation of Laboratory studies, and diagnostic studies of Hypothalamus and pituir Thyroid gland Parathyroid gland Endocrine gland Adrenal gland 	Return demonstration



Unit	Theory Hrs	Theory	Practical/ Lab Hrs	Teaching learning activities	Method of Assessment
VIII	4	 Hematological system History Physical examination Laboratory studies - blood parameters Diagnostic studies - bone marrow aspiration 	2	 Faculty demonstration Focused Heath history Hematologic system assessments Assisting Procedures Bone marrow aspiration Interpretation of Laboratory studies blood parameters 	Return demonstration
IX	3	Integumentary system History Physical examination Pathological examination - tissue examination	2	Faculty demonstration • Focused Heath history • Integumentary system assessment Demonstrations on -Collection of blood samples Assisting Procedures - Pathological examination - tissue examination	Return demonstration
X	6	 Musculoskeletal system History Physical examination - gait assessment, joint assessment, Laboratory studies – blood parameters (inflammatory enzymes, uric acid) Diagnostic studies - Radiological and imaging studies, endoscopic studies 	2	 Faculty demonstration Focused Heath history Musculoskeletal system assessment Demonstrations on Collection of blood samples Witnessing Procedures EMG Interpretation of Laboratory studies Diagnostic studies 	Return demonstration
XI	5	Reproductive system (Male & Female) • History • Physical examination • Laboratory studies • Diagnostic studies	2	Faculty demonstration Focused Heath history Reproductive system assessment Interpretation of Laboratory studies Diagnostic studies •	Return demonstration



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Unit	Theory Hrs	Theory	Practical/ Lab Hrs	Teaching learning activities	Method of Assessment
XII	4	 Sensory Organs History Physical examination Laboratory studies Diagnostic studies - Radiological and imaging studies, endoscopic studies 	3	Faculty demonstration Focused Heath history Sensory organ assessment Interpretation of Laboratory studies Diagnostic studies	Return demonstration
XIII	6	Assessment of children	4	Faculty demonstration Focused Heath history Assessment of children Growth and development of each age group Specific system assessment	Return demonstration Group discussion
XIV	6	Assessment of older adults • History • Physical assessment • Psychological assessment Assessment of pregnant women	3	Faculty demonstration • Focused Heath history • older adult's assessment	Return demonstration • Seminar

CLINICAL PLACEMENT

S.No	Area	Duration
1	Medical ICU	3 weeks
2	Surgical ICU	3 weeks
3	Cardio /cardiothoracic ICU	2 weeks
4	Emergency ICU	1 week
5	Casuality	1 week
6	Burns	1 week
7	Dialysis	1 week
	Total	12 weeks



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

SCHEME OF EVALUATION

ADVANCED HEALTH / PHYSICAL ASSESSMENT IN CRITICAL CARE NURSING

INTERNAL ASSESSMENT

THEORY:

SR	ITEM	TOTAL	WEIGHTAGE	MARKS	
NO		MARKS	(%)	OUT OF 30	
1	Examination				
	First term	50	50	15	
	Pre Final	70			
2.	Written Assignment –	50	50	15	
	(Diagnostic and Investigatory				
	Reports –Interpretation and				
	analysis of findings)				
	GRAND TOTAL		100	30	

PRACTICAL

SR NO	ITEM	TOTAL MARKS	WEIGHTAGE (%)	MARKS
1	Clinical Performance Evaluation	100x4=400	20	10
2.	2. Assignment			
	Case Presentation	20	10	5
	Case Study report	20		
3	End of Posting OSCE	25x 2=50	20	10
4	Internal Practical Exam -OSCE	50	50	25
	GRAND TOTAL	540	100	50

UNIVERSITY EXAMINATION

Time – 3 Hours

Theory Marks			Pract		
Hours	Internal	External	Hours	Internal	External
3	30	70		50	50



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

First Year M.Sc Nursing (NPCC)

CLINICAL PRESENTATION

(HEALTH ASSESSMENT)

NAME OF THE STUDENT:	
COURSE:	.YEAR I/II:
TOPIC:	
DATE:	

		Marks	Marks	
S.No.	Presentation skills	allotted	obtained	
1.	Coverage of content -12			
1.1	ABCDE initial assessment of critically ill	3		
1.2	Focused History	3		
1.3	Focused physical examination	3		
1.4	Diagnostic /lab tests and interpretation & probable diagnosis	3		
2.	Clarity and credibility in presentation	1		
3.	Well organized	1		
4.	Interesting and creative, use of illustrations	2		
5.	Group involvement & effective handling of questions	1		
6.	Confidence and resourcefulness	1		
7.	Professional outlook-poise, emotional stability	1		
8.	Time management	1		
	TOTAL	20		

Remarks:



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

First Year M.Sc Nursing (NPCC)

CASE STUDY REPORT (HEALTH ASSESSMENT)

NAME OF THE STUDENT:

C	OURSE: .	YEAR I/II:		
T	OPIC:			
D.	ATE:			
	S.No.	Particulars	Marks allotted	Marks obtained
	1.	Patient history & significant findings (includes ABCDE initial assessment)	6	
	2.	Physical examination & significant findings	3	
	3.	Diagnostic /lab tests and interpretation	3	
	4.	Discussion and conclusion of findings with probable diagnosis	2	
	5	Organization in presenting the written content	2	
	6	Use of illustrations	2	
	7	References	2	
		Total	20	

Remarks:

Signature of preceptor with date

Signature of faculty with date



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

First Year M.Sc Nursing (NPCC)

End of posting practical examination (Medical ICU/Surgical ICU)

Marks allotted-10 marks

	C	ins (Duration &Marks)		
Station	Health assessment	Interpretation of	Plan of care /therapeutic	Family
(5)	(Focused History and Physical	· ·	management (interventions –	education & counseling
	Examination)	Lab results &	procedural competencies	
	Adult	Identification of health diagnosis/monitoring skills	including drug administration)	
I	10 minutes			
	(4 marks)			
II		10 minutes		
		(2 marks)		
III			10 minutes	
			(4 marks)	
IV				10 minutes
				(2 marks)
V	Rest station (5/10 minutes)			

OSCE – 16 marks

ORAL EXAMINATION - 04 marks

Total 20/2 = 10 marks



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

First Year M.Sc Nursing (NPCC)

HEALTH ASSESSMENT

a. INTERNAL PRACTICAL exam- OSCE (Marks allotted- 25 marks)

Core competency Domains (Duration &Marks) Stations Health assessment Health assessment Interpretation of Monitoring (Focused History and (Focused History and History /physical clinical parameters (5) Physical Examination) Physical Examination) exam findings and (competencies) Lab results & Adult **Pediatric** Identification of health diagnosis Ι 10 minutes (5 marks) II 10 minutes (5 marks) Ш 10 minutes (5 marks) IV 10 minutes (5 marks) Rest station V (5/10 minutes)

OSCE – 20 marks (4x5) ORAL EXAMINATION – 5 marks

TOTAL – 25 marks

{End of posting can follow the same as above having 5 stations with 5 minute duration each station (marks-4x4=16, oral exam-4 marks, total=20/2=10 marks)}



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

First Year M.Sc Nursing (NPCC)

EXTERNAL PRACTICAL EXAM- OSCE (Marks allotted- 50 marks)

Station (10)		Core con	npetency Dom	nains (Time D	uration in	minutes &N	Marks)	•
(10)	Health assessment (History Taking)		Health assessment (Physical Examination)		Interpretation findings and diagnosis		Monitoring clinical parameters (Procedural competencies)	
	Focused History (Adult)	Focused History (Pediatric)	Physical Examination (Adult)	Physical Examination (Pediatric)	History &Physical Exam	Diagnostic tests	1	2
I	10 min (5 marks)							
II		10 min (5 marks)						
III			10 min (5 marks)					
IV				10 min (5 marks)				
V	Rest station	1 (5/10 minus	tes)	l		l		
VI					10 min (5 marks)			
VII						10 min (5 marks)		
VIII							10 min (5 marks)	
IX								10 min (5 marks)
X	Rest Station	2 (5/10 minute	es)	<u> </u>	1	<u> </u>	1	1

On completion of procedural competencies in log book and clinical requirements, the NP student is qualified to appear for final practical examination

OSCE-40 ORAL EXAMINATION – 10 marks TOTAL – 50 marks



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

First Year M.Sc Nursing (NPCC)

COMPETENCY BASED CLINICAL PERFORMANCE EVALUTION

NAME OF THE	E STUDENT:	
ICU /UNIT		YEAR I/II:
DATE:	FROM	то

Sl.	COMPETENCIES	1	2	3	4	Rating	Score
	CLINICAL PRACTICE COMPETENCIES						
1.	Performs initial assessment of the critically ill patient (ABCDE					1.0	
1.	approach) to identify need for emergency action					1.0	
2	Obtains comprehensive and focused age specific history of critically ill patient from patient/family members					1.0	
3.	Performs appropriate clinical/physical examination using correct techniques					1.0	
4.	Accurately interprets findings of history, physical examination and investigations					0.5	
5.	Works collaboratively with Intensivist for development of diagnosis for the presenting problem while prioritizing the care					0.5	
6.	Documents initial assessment and plan of care accurately					1.0	
7.	Applies the pathophysiological principles in developing diagnosis, plan of care, symptom management and secondary prevention of critical illnesses					0.5	
8	Uses invasive and noninvasive technology and advanced skills to assess, monitor and promote physiologic stability in the management of emergency situations as per institutional protocols					2.0	
9	Demonstrates critical thinking in clinical decision-making and selects appropriate interventions.					1.0	
10	Provides culturally safe and competent care applying nursing process/care pathways.					2.0	
11.	Performs safe drug administration based on pharmacological principles, sound knowledge of drug interactions and as per institutional standing orders					2.0	
12.	Documents drugs administered accurately and provides follow up care					0.5	
13.	Seeks appropriate assistance from preceptor to maintain patient and environment safety					0.5	
14.	Evaluates and documents patients' responses to care provided and the effectiveness of care.					0.5	
15	Provides anticipatory guidance and counseling to families and patients in crisis situations particularly end of life care					1.0	



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

Sl.	COMPETENCIES	1	2	3	4	Rating	Score
II.	MANAGEMENT, TEACHING & RESEARCH COMPETENCIES:						
16.	Manages and transforms health information to effect health outcomes such as cost, quality and satisfaction					1.0	
17.	Applies problem solving, critical thinking and decision making skills effectively in managing patient care in ICU					1.0	
18	Creates and maintains a safe therapeutic environment using risk management strategies and quality improvement					1.0	
19	Provides education appropriate to age and needs of patients using effective teaching methods, media and evaluation					1.0	
20	Analyzes the evidence for nursing interventions carried out in critical care nursing practice to promote safety and effectiveness of care					1.0	
III	PERSONAL AND PROFESSIONAL COMPETENCIES:						
21	Assumes personal accountability and responsibility in practicing the Nurse practitioner's roles and competencies and articulates role to public and other health care professionals					1.0	
22	Engages in ethical practice having a sound knowledge of law, ethics and regulation of advanced nursing practice					1.0	
23	Actively participates in collaborative practice involving all critical care team members and performs the NP roles within the authorized scope					1.0	
24	Builds effective interpersonal relationship and communication with patients, families and critical care team based on trust and respect and integrity					1.0	
25	Assumes personal responsibility for professional development					1.0	
	TOTAL SCORE					25	100

<u>Key</u>: **4**.Outstanding/excellent (90-100%) **3.** Proficient/competent (75 to <90%) **2**.Needs improvement (50 to <75%) **1**.Unsatisfactory/unacceptable (25 to <50%)

(Include general impressions, unusual incidents and justify scores 1 and 4)				
Remarks by Faculty				
Signature of Preceptor with Date	Signature of faculty with Date			
Remarks by Student				
	Signature of student with date			



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

First Year M.Sc Nursing (NPCC)

QUESTION PAPER FORMAT (FIRST TERM EXAMINATION)

Marks: 50 Time: 2hours

Q 1. Write Short Answers on any 4 out of 5	(20 marks)
a)	
b)	
c)	
d)	
e)	
Q 2. Long Answer Questions any 2 out of 3	(30 marks)
a. i	(2)
ii	(5)
iii	(8)
b. i	(2)
ii	(5)
iii	(8)
c. i	(2)
C. 1	
ii	(5)



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

First Year M.Sc Nursing (NPCC)

QUESTION PAPER FORMAT (UNIVERSITY EXAMINATION)

Marks: 70 Time: 3 hours

Q 1. Write Short Answers on any 5 out of 6	(25 marks)
a)	
b)	
c)	
d)	
e)	
f)	
Q 2. Long Answer Questions any 3 out of 4	(45 marks)
a. i	(2)
ii	(5)
iii	(8)
b. i	(2)
ii	(5)
iii	(8)
c. i	(2)
ii	(5)
iii	(8)
d. i	(2)
ii	(5)
iii	(8)
111	(0)



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

COURSE PLANNING Second Year M.Sc Nursing (NPCC)



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

CRITICAL CARE SPECIALTY COURSES

(Foundations of Critical Care Nursing Practice, Critical Care Nursing I and Critical Care Nursing II)

Course Description: This course provides the student

This course is designed to assist students to appraise the diagnostic and monitoring requirements and management necessary to maintain homeostasis of critically ill patients and communicate their significance and possible consequences to relevant members of the multidisciplinary team and demonstrate skilled, safe, effective and sensitive practice in the care of critically ill patients

COMPETENCIES

- Applies advanced concepts of critical care nursing based on sound knowledge of these concepts
- Uses invasive and noninvasive technology and interventions to assess, monitor and promote physiologic stability
- Works in collaboration with other healthcare team members
- Consults with and is consulted by other health care professionals
- Provides nursing care related to health protection, disease prevention, anticipatory guidance, Counseling, management of critical illness, palliative care and end of life care
- Uses advanced skills in complex and unstable environments
- Applies ethically sound solutions to complex issues related to individuals, populations and systems of Care
- Practices principles of infection control relevant to critical care
- Practices independently within the legal framework of the country towards the interest of patients, Families and communities
- Develops practice that is based on scientific evidence
- Uses applicable communication, counseling, advocacy and interpersonal skills to initiate, develop and discontinue therapeutic relationships
- Creates and maintains a safe therapeutic environment using risk management strategies and quality improvement
- Adapts practice to the social, cultural and contextual milieu



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

Foundations of Critical Care Nursing Practice

Placement – Second year

Theory : 96 hours, Practical/skill lab : 48 hours

Clinical: 576 hrs

COURSE CONTENT

Unit	Theory	Topic	Practical /Lab Lab	Teaching Learning	Method of
	Hours	_		activity	Assessment
I	10	Introduction to Critical Care		Lecture,	Written test
		Nursing	ventilation	Discussion,	Seminar
		• Introduction to the course	• Low flow variable	Problem based	Return
		• Review of anatomy and	performance devices:	learning	demonstra-
		physiology of vital organs	nasal	Clinical	tion
		(Brain, Spinal Cord, Lungs,	catheters/cannulae /double nasal prongs,	conference,	
		Heart, Kidney, Liver, Pancreas,	face mask, face mask	Demonstration	
		Thyroid, Adrenal and Pituitary gland)	with reservoir bags	2 cmonstration	
		• Historical review- Progressive	• High flow fixed		
		patient care(PPC)	performance devices		
		• Concepts of critical care nursing	: Entrainment		
		• Principles of critical care nursing	(Venturi) devices,		
		• Scope of critical care nursing	NIV/CPAP/Anestheti		
		• Critical care unit set up (including	c masks, T pieces,		
		types of ICU, equipment,	breathing circuits		
		supplies, beds and accessories,	Postural drainage		
		use and care of various type of	Ventilation and		
		monitors & ventilators, Flow	ventilator support		
		sheets, supply lines and the	Connecting to ventilator		
		environment)	Weaning from		
		• Personnel in ICU	ventilator		
		• Nursing staff	Extubation		
		DoctorsCritical care technicians	Humidifiers		
		Ancillary staffTechnology in critical care	Nebulizers - jet,		
		Healthy work environment	ultrasonic		
		• Future challenges in critical care	Inhalation therapy -		
		nursing	metered dose inhalers		
		nursing	(MDI), dry powder		
			inhalers (DPI)		



Unit	Theory Hours	Topic	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
II	5	Concept of Holistic care applied to critical care nursing practice • Application of nursing process in the care of critically ill • Admission and progress in ICU-an overall view Overview of ICU Management • Ensure adequate tissue oxygenation • Maintain chemical environment • Maintain temperature • Organ protection • Nutritional support • Infection control • Physiotherapy and rehabilitation • Family visiting hours • Restraints in critical care - physical, chemical and alternatives to restraints • Death in critical care unit: End of life care/Care of dying, care of family, organ donation • Transport of the critically ill - By air ambulance and surface ambulance • Stress and burnout syndrome among health team members	Devices to measure oxygen/oxygenation Fuel cell Paramagnetic oxygen analyzer PO2 electrodes-Clark electrodes Transcutaneous oxygen electrodes Oximetry - Pulse oximetry, Venous oximetry Capnography	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration
III	10	Appraisal of the critically ill Triaging concept, process and principles Assessment of the critically ill • General assessment			



Unit	Theory Hours	Topic	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
	10	 Respiratory assessment Cardiac assessment Renal assessment Neurological assessment Gastrointestinal assessment Endocrine assessment Musculoskeletal assessment Integumentary assessment Monitoring of the critically ill Arterial blood gas (ABG) Capnography Hemodynamic Electrocardiography (ECG) Glasgow Coma Scale (GCS) Richmond agitation sedation scale (RASS) Pain score Braden score Evaluation of the critically ill Evaluation of pre critical illness Outcome and scoring systems Acute Physiology and Chronic Health Evaluation (APACHE I-IV) Mortality probability model (MPM I, II) Simplified acute physiology score (SAPS I, II) Organ system failure Full outline of unresponsiveness (FOUR) Model for end-stage liver disease (MELD) 	Circulation and perfusion (including hemodynamic evaluation and waveform graphics) Invasive blood pressure monitoring Non-invasive BP monitoring Venous pressure (Peripheral, Central and Pulmonary artery occlusion pressure) Insertion and removal of arterial line Insertion and removal of central line Pulse index Continuous Cardiac output (PiCCO) Electrocardiography (ECG) -Waveforms	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstrati on



	heory Iours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
I H	14	Advanced Concepts and Principles of Critical Care Principles of cardio-pulmonary-brain resuscitation Emergencies in critical care : CPR BLS ACLS Airway management Oxygenation and oximetry, care of patient with oxygen delivery devices Ventilation and ventilator support (including humidification and inhaled drug therapy), care of patient with invasive and non invasive ventilation Circulation and perfusion (including hemodynamic evaluation and waveform graphics) Fluids and electrolytes (review), care of patient with imbalances of fluid and electrolytes Evaluation of acid base status Thermoregulation, care of patient with hyper/hypo-thermia Liberation from life support (Weaning) Glycemic control, care of patient with glycemic imbalances	 CPR (BLS and ACLS) Airway Management Laryngeal mask airway Cuff inflation and anchoring the tube Care of ET tube Tracheostomy care Suctioning - open/closed Chest physiotherapy Oxygenation and oximetry, care of patient with oxygen delivery devices Fluids and electrolytes Fluid calculation and administration(crystal loids and colloids) Administration of blood and blood products Inotrope calculation, titration and administration Cardiac glycosides – Digoxin Sympathomimetics - Dopamine, dobutamine, epinephrine, isoproterenol, norepinephrine, phenylephrine Phosphodiesterase inhibitors - amrinone, milrinone 	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Assessment Written test Seminar Return demonstration



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
			Electrolyte correction (Sodium, potassium, calcium, phosphrous, magnesium) Use of fluid dispenser and infusion pumps Evaluation of acid base status - Arterial blood gas (ABG) Thermoregulation, care of patient with hyper/hypothermia Temperature probes Glycemic control, care of patient with glycemic imbalances Monitoring GRBS Insulin therapy (sliding scale and infusion) ,potassium supplementation Dextrose IV		
V	8	 Pain and Management Pain in Critically ill patients Pain - Types, Theories Physiology, Systemic responses to pain and psychology of pain Acute pain services Pain assessment - Pain scales, behavior and verbalization Pain management-pharmacological (Opioids, benzodiazepines, propofol, Alpha agonist, Tranquilizers, Neuromuscular blocking agents) Nonpharmacological management Transcutaneous electrical nerve stimulation(TENS) 	Calculation, loading and infusion of - Morphine, Fentanyl, Midazolam, Lorazepam, Diazepam, Propofol, Clonidine, Desmedetomidine, Haloperidol	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstrati on



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
			Epidural analgesia- sensory and motor block assessment, removal of epidural catheter after discontinuing therapy, change of epidural catheter site dressing, insertion and removal of subcutaneous port for analgesic administration, intermittent catheterization for urinary retention for patients on epidural analgesia / PCA, dose titration for epidural infusion, epidural catheter adjustment, purging epidural drugs to check patency of catheter and also for		
VI	8	Psychosocial & spiritual alterations: Assessment and management • Stress and Psychoneuroimmunology • Post traumatic stress reaction • ICU Psychosis, Anxiety, Agitation, Delirium • Alcohol withdrawal syndrome and delirium tremens • Collaborative management • Sedation and Relaxants • Spiritual challenges in critical care • Coping with stress and illness • Care of family of the critically ill • Counseling and communication	Counseling		



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
VII	4	Patient and family education and counseling Challenges of patient and family education Process of adult learning Factors affecting teaching learning process Informational needs of families in critical care Counseling needs of patient and family Counseling techniques	Family education	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstrati on
VIII	5	Nutrition Alterations and Management in critical care Nutrient metabolism and alterations Assessing nutritional status Nutrition support Nutrition and systemic alterations Care of patient on enteral and parentral nutrition		Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration
IX	4	Sleep alterations and management Normal human sleep Sleep pattern disturbance Sleep apnea syndrome		Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstra- tion
X	5	 Infection control in critical care Nosocomial infection in intensive care unit; methylresistant staphylococcus aureus (MRSA) and other recently identified strains Disinfection, Sterilization, Standard safety measures, Prophylaxis for staff Antimicrobial therapy- review 		Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstra- tion



XI 6 Legal and ethical issues in critical care-Nurse's role Legal issues Issues giving raise to civil litigation Related laws in India Medical futility Administrative law: Professional Regulation Tort law: Negligence, professional Interioral Interioral Law: Patient decision making Ethical Issues Difference between morals and ethics Ethical principles, ethical decision making Lecture, Discussion, Problem based learning Clinical Clinical Construction Conference, Demonstration Lecture, Discussion, Problem based learning Clinical conference, Demonstration Lecture, Discussion, Problem based learning Clinical conference, Demonstration
 Ethical issues relevant to critical care: withholding and withdrawing treatment, Managing Scarce resource in critical care Brain death, Organ donation & Counseling, Do Not Resuscitate(DNR), Euthanasia, Living will Nurses' Role



Unit	Theory	Торіс	Practical /Lab Lab	Teaching Learning	Method of
	Hours			activity	Assessment
XII	8	Quality assurance		Lecture,	Written test Seminar
		Design of ICU/CCUQuality assurance models applicable to ICUs		Discussion, Problem based learning Clinical	Return demonstra- tion
		 Standards, Protocols, Policies, Procedures Infection control policies and protocols Standard safety measures Nursing audit relevant to critical care Staffing 		conference, Demonstration	tion
XIII	3	 Evidence based practice in critical care nursing Evidence based practice in critical care Barriers to implementation Strategies to promote implementation 		Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstra- tion
	5	Class tests	_		
Total	96				



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

Foundations of Critical Care Nursing Practice

Placement – Second year

Theory : 96 hours, Practical/skill lab : 48 hours Clinical: 576 hrs

List of skills to be practiced in the skill lab (46 hours include demonstration by the faculty and practice by the students)

- CPR (BLS and ACLS)
- Airway Management
 - o Laryngeal mask airway
 - o Cuff inflation and anchoring the tube
 - o Care of ET tube
 - o Tracheostomy care
 - o Suctioning open/closed
 - Chest physiotherapy
- Oxygenation and oximetry, care of patient with oxygen delivery devices
 - Devices to measure oxygen/oxygenation
 - ✓ Fuel cell
 - ✓ Para magnetic oxygen analyzer
 - ✓ PO2 electrodes-Clark electrodes
 - ✓ Transcutaneous oxygen electrodes
 - ✓ Oximetry Pulse oximetry, Venous oximetry
 - o Capnography
 - o Non invasive ventilation
 - ✓ Low flow variable performance devices: nasal catheters/cannulae/double nasal prongs, face mask, face mask with reservoir bags
 - ✓ High flow fixed performance devices: Entrainment (Venturi) devices, NIV/CPAP/Anesthetic masks, T pieces, breathing circuits
 - Postural drainage



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

Foundations of Critical Care Nursing Practice

Placement – Second year

List of skills to be practiced in the skill lab (46 hours include demonstration by the faculty and practice by the students)

- Ventilation and ventilator support
 - o Connecting to ventilator
 - Weaning from ventilator
 - Extubation
 - Humidifiers
 - o Nebulizers jet, ultrasonic
 - o Inhalation therapy metered dose inhalers (MDI), dry powder inhalers (DPI)
- Circulation and perfusion (including hemodynamic evaluation and waveform graphics)
 Invasive blood pressure monitoring
 - o Non-invasive BP monitoring
 - o Venous pressure (Peripheral, Central and Pulmonary artery occlusion pressure)
 - o Insertion and removal of arterial line
 - o Insertion and removal of central line
 - o Pulse index Continuous Cardiac output (PiCCO)
 - Electrocardiography (ECG)
 - Waveforms
- Fluids and electrolytes
 - o Fluid calculation and administration (crystalloids and colloids)
 - o Administration of blood and blood products
 - o Inotrope calculation, titration and administration
 - ✓ Cardiac glycosides Digoxin
 - ✓ Sympathomimetics Dopamine, dobutamine, epinephrine, isoproterenol, norepinephrine, phenylephrine
 - ✓ Phosphodiesterase inhibitors amrinone, milrinone
 - o Electrolyte correction (Sodium, potassium, calcium, phosphrous, magnesium)
 - Use of fluid dispenser and infusion pumps



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Evaluation of acid base status - Arterial blood gas (ABG)

- Thermoregulation, care of patient with hyper/hypothermia
 - o Temperature probes
 - o Critical care management of hyper and hypothermia
- Glycemic control, care of patient with glycemic imbalances Monitoring GRBS
 - o Insulin therapy (sliding scale and infusion)
 - o Management of Hyperglycemia IV fluids, insulin therapy, potassium supplementation
 - o Management of hypoglycemia Dextrose IV

• Pharmacological management of pain, sedation, agitation, and delirium

- o Calculation, loading and infusion of Morphine, Fentanyl, Midazolam, Lorazepam, Diazepam, Propofol, Clonidine, Desmedetomidine, Haloperidol
- o Epidural analgesia- sensory and motor block assessment, removal of epidural catheter after discontinuing therapy, change of epidural catheter site dressing, insertion and removal of subcutaneous port for analgesic administration, intermittent catheterization for urinary retention for patients on epidural analgesia / PCA, dose titration for epidural infusion, epidural catheter adjustment, purging epidural drugs to check patency of catheter and also for analgesia
- Counseling
- Family education

CLINICAL PLACEMENT

S.No	Area	Duration
1	Medical ICU	3 weeks
2	Surgical ICU	3weeks
3	Cardio /cardiothoracic ICU	3 weeks
4	Emergency ICU	3 week
	Total	12 weeks



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

INTERNAL ASSESSMENT

Foundations of Critical Care Nursing Practice

THEORY

SR	ITEM	TOTAL	WEIGHTAGE	MARKS
NO		MARKS	(%)	OUT OF 30
1	Examination			
	First term	50	50	15
	Prefinal	70		
2	Assignments			
	Written Assignments (Protocols)	50	50	15
	GRAND TOTAL	170	100	30

PRACTICAL

SR	ITEM	TOTAL	WEIGHTAGE	MARKS
NO		MARKS	(%)	
1	Drug study Presentation	20	10%	10
2	Drug Study Report	20		
3	Case presentation & case Study	20		5
	Report (Family education			
	/counseling)		5%	
4	Case presentation (Application of	20	5%	5
	clinical /Care Path way)			
5	Clinical Performance Evaluation	6x100=600	20%	20
6	End of Posting OSCE	25x2=50	10%	10
7	Internal Practical Exam -OSCE	50	50%	50
	GRAND TOTAL	350	100%	100

UNIVERSITY EXAMINATION

Duration	Theory Marks		Practical Marks		
	Internal	External	Hours	Internal	External
3 Hours	30	70		100	100



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

SECOND YEAR M.Sc NURSING (NPCC)

FOUNDATIONS OF CRITICAL CARE NURSING

INTERNAL PRACTICAL EXAM- OSCE

(Marks allotted- 50 marks)

	Core	e competency Domain	s (Duration &Mark	s)
Stations (5)	Health assessment (Focused History and Physical Examination) and interpretation	Monitoring competencies (invasive and Non invasive)	Therapeutic interventions - (emergency procedural competencies) including drug administration	Family Education and counseling
I	10 minutes (10marks)			
II	,	10 minutes (10marks)		
III			10 minutes (10marks)	
IV				10 minutes (10marks)
V	Rest station (5/10 minutes)			

OSCE - 40 marks (4x10)

ORAL Examination – 10 marks

TOTAL – 50 marks

{End of posting can follow the same as above having 5 stations with 5 minute duration each station (marks- 4x4=16, oral exam-4 marks, total=20/2=10 marks)}



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

SECOND YEAR M.Sc NURSING (NPCC)

FOUNDATIONS OF CRITICAL CARE NURSING

EXTERNAL PRACTICAL EXAM- OSCE

Marks allotted- 100 marks

		Core competency Domains (Time Duration in minutes & Marks)						
Station (10)	Health asse (Focused H Physical Examination and interpr	History and on)	Monitoring competencie & Non inva		Developmen t of plan of care	Family Education & counselin	g (Emerg procedur compete Includin	cions ency ral ncies)
	Adult	Pediatric	I	II			1	II
I	10 min (10 marks)							
II		10 min (10 marks)						
III			10 min (10 marks)					
IV				10 min (10 marks)				
V	Rest station	n 1 (5/10 m	inutes)					
VI					10 min (10 marks)			
VII						10 min (10 marks)		
VIII							10 min (10 marks)	
IX								10 min (10 marks)
X				Rest Station 2	(5/10 minutes)			

On completion of procedural competencies in log book and clinical requirements, the NP student is qualified to appear for final practical examination

OSCE-80 ORAL EXAMINATION – 20 marks **TOTAL – 100 marks**



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

SECOND YEAR M.Sc NURSING (NPCC)

ASSIGNMENT ON PROTOCOLS - EVALUTION CRITERIA

Name of the Student: -

Batch:	Date:		_
Topics:-			
	visor:		_
Total Marks – 50		Marks obtained:	
Sr.No.	Criteria	Marks Assigned	Marks

Sr.No.	Criteria	Marks Assigned	Marks Obtained
1	Content (Adequacy, Appropriateness, Clarity)	20	
2	Organization	5	
3	Illustration	20	
4	Resources Used	5	
	Total Marks	50	

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Signature of preceptor with date

Signature of faculty with date



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

SECOND YEAR M.Sc. NURSING (NPCC)

DRUG STUDY PRESENTATION

NAME OF THE STUDENT:	
COURSE:	YEAR I/II:
TOPIC:	
DATE:	

		Marks	Marks
S.No.	Presentation skills	allotted	obtained
1.	Coverage of content -12		
1.1	Drug name –generic with dosage, therapeutic ranges & route of administration	3	
1.2	Mechanism of Action, metabolism and excretion	2	
1.3	Side effects, adverse reactions, drug interactions and management incl. anaphylaxis management	3	
1.4	Precautions and monitoring	1	
1.5	Patient's response to drug treatment	1	
1.6	Overdose-symptoms & treatment	2	
2.	Clarity and credibility in presentation	1	
3.	Well organized	1	
4.	Interesting and creative, use of illustrations	2	
5.	Group involvement & effective handling of questions	1	
6.	Confidence and resourcefulness	1	
7.	Professional outlook-poise, emotional stability	1	
8.	Time management	1	
	TOTAL	20	

REMARKS:



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

SECOND YEAR M.Sc. NURSING (NPCC)

DRUG STUDY REPORT

S. No.	Particulars	Marks allotted	Marks obtained
1.	Drug name –generic with dosage, therapeutic ranges & route of administration	3	
2	Mechanism of Action, metabolism and excretion	2	
3	Side effects, adverse reactions, drug interactions and management incl. anaphylaxis management	3	
4	Precautions and monitoring	1	
5	Patient's response to drug treatment	1	
6	Overdose-symptoms & treatment	2	
7	Discussion and conclusion	2	
8	Organization in presenting the written content	2	
9	Use of illustrations	2	
10	References	2	
	Total	20	

REMARKS:-



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

SECOND YEAR M.Sc. NURSING (NPCC)

CLINICAL PRESENTATION EVALUATION

NAME OF THE STUDENT:	
COURSE:	YEAR I/II
TOPIC:	
DATE:	

S.No.	Presentation skills	Marks allotted	Marks obtained
1.	Coverage of content -12		
1.1	Brief patient presentation	4	
1.2	Relevant normal physiology and abnormal physiological	8	
1.3	Changes/processes related to critical condition		
2.	Clarity and credibility in presentation	1	
3.	Well organized	1	
4.	Interesting and creative, use of illustrations	2	
5.	Group involvement & effective handling of questions	1	
6.	Confidence and resourcefulness	1	
7.	Professional outlook-poise, emotional stability	1	
8.	Time management	1	
	TOTAL	20	

REMARKS:



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SECOND YEAR M.Sc. NURSING (NPCC)

CASE STUDY

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ATE:			
			T
S.No.	Particulars	Marks allotted	Marks obtaine
1.	Introduction of patient, history & physical examination, and	5	ODIAIIIC
1.	Diagnostic tests – significant findings		
2.	Diagnosis and relevant pathophysiology	1	
3.	Management plan (Identification of outcomes & Development of plan for care/care pathway)	2	
4.	Management (Treatment and nursing interventions including family education and counseling) & Achievement of outcomes(Patients responses to treatment and interventions)	4	
5	Discussion and conclusion	2	
6	Organization in presenting the written content	2	
7	Use of illustrations	2	
8	References	2	
	Total Marks	20	
	Total Marks	20	



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

SECOND YEAR M.Sc. NURSING (NPCC)

Critical Care Nursing I

Placement - Second year

Hours of instruction: Theory: 96 hours,

Practical: 48hours Clinical : 552 hours

Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
I	6	 Introduction Review of anatomy and physiology of vital organs Review of assessment and monitoring of the critically ill 		Discussion	Written Test
II	16	 Cardiovascular alterations Review of Clinical assessment, pathophysiology, and pharmacology Special diagnostic studies Cardiovascular conditions requiring critical care management- ✓ Hypertensive Crisis ✓ Cardiac Arrhythmias ✓ Heart block and conduction disturbances ✓ Coronary heart disease ✓ Myocardial infarction ✓ Pulmonary hypertension ✓ Valvular heart disease ✓ Atherosclerotic disease of aorta 	 Thrombolytic therapy, Use of equipment and their settings Defibrillator, PiCCO), Pacemakers, Intra aortic balloon pump (IABP) 	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
		 ✓ Peripheral artery disease ✓ Cardiomyopathy ✓ Heart failure ✓ Deep vein thrombosis ✓ Congenital heart disease(cyanotic and acyanotic) Cardiovascular therapeutic management ✓ Cardiac transplant ✓ Pacemakers ✓ Cardioversion ✓ Defibrillation ✓ Implantable cardiovert defibrillators, ✓ Thrombolytic therapy ✓ Radiofrequency catheter Ablation ✓ Percutaneous Transluminal Coronary Angioplasty(PTCA) ✓ Cardiac surgery - Coronary artery bypass grafting (CABG)/ Minimally invasive coronary artery surgery) MICAS, Valvular surgery, vascular surgery ✓ Mechanical circulatory assistive devices - Intra aortic balloon pump ✓ Effects of cardiovascular medications ✓ Ventricular assist devices (VAD) ✓ Extra corporeal membrane oxygenation(ECMO) CRecent advances and development 		activity	
		Recent advances and development			



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
III	15	Pulmonary alterations Review of Clinical assessment, pathophysiology, and pharmacology Special diagnostic studies Pulmonary conditions requiring critical care management Status asthmaticus Pulmonary edema Pulmonary embolism Acute respiratory failure Acute respiratory distress Syndrome Chest trauma Chronic obstructive pulmonary disease Pneumonia Pleural effusion Atelactasis Long term mechanical ventilator dependence Pulmonary therapeutic management Thoracic surgery Lung transplant Bronchial hygiene: Nebulization, deep breathing and coughing « exercise, chest physiotherapy and postural drainage Chest tube insertion and care of patient with chest drainage Recent advances and development	 Tracheostomy Care Nebulization Chest physiotherapy Chest tube insertion Chest drainage 	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
IV	15	Neurological alterations Review of Clinical assessment, pathophysiology, and pharmacology Special diagnostic studies Neurological conditions requiring critical care management Cerebro vascular disease and cerebro vascular accident Encephalopathy Gillian Bare syndrome and Myasthenia gravis Brain herniation syndrome Assessment vegetative state Head injury Spinal cord injury Thermoregulation Neurologic therapeutic management Intracranial pressure Assessment and management of intracranial hypertension Craniotomy Recent advances and development	 ○ Monitoring GCS ○ Conscious and coma monitoring ○ Monitoring ICP ○ Sedation score ○ Brain Death Evaluation 	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
V	15	 Nephrology alterations Review of Clinical assessment, pathophysiology, and pharmacology Special diagnostic studies Nephrology conditions requiring critical care management ✓ Acute renal failure ✓ Chronic renal failure ✓ Acute tubular necrosis ✓ Bladder trauma Nephrology therapeutic management Renal Replacement therapy: Dialysis Renal transplant Recent advances and development 	 Priming of dialysis machine Preparing patient for dialysis, Cannulating for dialysis Starting and closing dialysis 	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration
VI	12	Gastrointestinal alterations Review of Clinical assessment, pathophysiology, and pharmacology Special diagnostic studies Gastrointestinal conditions requiring critical care management Acute GI bleeding Hepatic failure Acute pancreatitis Abdominal injury Hepatic encephalopathy Acute intestinal obstruction Perforative peritonitis Gastrointestinal therapeutic management ✓ Gastrointestinal surgeries ✓ Liver transplant Recent advances & development	 Abdominal pressure Monitoring Calculation of calorie and protein requirements, Special diets - Sepsis, Respiratory failure, Renal failure, Hepatic failure, Cardiac failure, Weaning, Pancreatitis Enteral feeding NG / Gastrostomy / Pharyngeal/ Jejunostomy feeds Total parentral nutrition 	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
VII	12	 Endocrine alterations Review of Clinical assessment, pathophysiology, and pharmacology Special diagnostic studies Endocrine conditions requiring critical care management ✓ Neuroendocrinology of stress and critical illness ✓ Diabetic ketoacidosis, Hyperosmolar non ketotic coma ✓ hypoglycemia ✓ Thyroid storm ✓ Myxedema coma ✓ Adrenal crisis ✓ SIADH Endocrine therapeutic management Recent advances and development 	Collection of blood samples for cortisol levels, sugar levels, and thyroid hormone levels, Calculation and administration of corticosteroids, Calculation and administration of Insulin - Review	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration
Tota	5 96 Hours	Class tests			



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List of skills to be practiced in the skill lab (69 hour include demonstration by the faculty and practice by the students).

Cardiovascular alterations

- o Thrombolytic therapy
- Use of equipment and their settings Defibrillator, PiCCO), Pace makers, Intra aortic ballon pump (IABP)

Pulmonary alterations

- o Tracheostomy Care
- o Nebulization
- Chest physiotherapy
- Chest tube insertion
- Chest drainage

Neurological alterations

- Monitoring GCS
- o Conscious and coma monitoring
- Monitoring ICP
- Sedation score
- o Brain Death Evaluation

Nephrology alterations

- o Dialysis
 - ✓ Priming of dialysis machine
 - ✓ Preparing patient for dialysis
 - ✓ Cannulating for dialysis
 - ✓ Starting and closing dialysis

Gastrointestinal alterations

- o Abdominal pressure Monitoring
- o Calculation of calorie and protein requirements
- Special diets sepsis, respiratory failure, renal failure, hepatic failure, cardiac failure, weaning, pancreatitis
- o Enteral feeding NG/Gastrostomy/ Pharyngeal/Jejunostomy feeds
- Total parenteral nutrition

Endocrine alterations

- o Collection of blood samples for cortisol levels, sugar levels, and thyroid hormone levels
- Calculation and administration of corticosteroids
- o Calculation and administration of Insulin Review



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CLINICAL PLACEMENT

S.No	Area	Duration
1	Catherization Laboratory /CCU	4 weeks
2	Casualty	4 weeks
3	Dialysis	4 weeks
	Total	12 weeks

SCHEME OF EVALUATION

THEORY

SR NO	ITEM	TOTAL MARKS	WEIGHTAGE (%)	MARKS OUT OF 30
1	Examination			
	First term	50	50	15
	Pre final	70		
2	Assignments			
	Clinical Seminar	7x10=70	50	15
	Journal club	2X 20=40	1	
	GRAND TOTAL	220	100	30

PRACTICAL

SR NO	ITEM	TOTAL MARKS	WEIGHTAGE (%)	MARKS
1	Clinical presentation	20 x 2	10%	10
2	Case study report	20	20%	10
3	Clinical Performance Evaluation	6x100=600	20%	20
4	End of Posting OSCE	25x2=50	10%	10
5	Internal Practical Exam -OSCE	50	50%	50
	GRAND TOTAL	350	100%	100

UNIVERSITY EXAMIATIONS

The	eory Marks		Practi	ical Marks	
Duration (Hours)	Internal	External	Hours	Internal	External
3	30	70		100	100



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CASE PRESENTATION/CASE STUDY OUTLINE

(CRITICAL CARE NURSING I & II)

- 1. Introduction (Introductory sentence about the patient)
- 2. Initial assessment-ABCDE approach
 - 2.1. Airways-Voice, breath sounds
 - 2.2. Breathing- Respiratory rate, chest wall movements, chest percussion, lung auscultation, pulse oximetry
 - 2.3. Circulation- skin color, sweating, capillary refill, palpable pulse rate, heart auscultation, BP, ECG
 - 2.4. Disability-Level of consciousness using AVPU (alert, voice responsive, pain responsive, unresponsive), limb movements, blood glucose, pupillary light reflexes
 - 2.5. Exposure-expose skin, temperature
- 3. History-Chief complaints/history of present illness
 - 3.1. Nature-location, intensity, associated symptoms
 - 3.2. Time of onset, circumstances, evolution of complaints
 - 3.3. Relieving and aggravating factors
 - 3.4. Treatment received for the present complaint
 - 3.5. Other past medical history-associated illnesses
 - 3.6. Medication, allergies, substance use
 - 3.7. Family history
 - 3.8. Relevant social history
- 4. Physical examination (Focused/system-wise))
 - 4.1. General appearance (description)
 - 4.2. Vital signs
 - 4.3. Skin
 - 4.4. Head, Eye, ENT
 - 4.5. Respiratory system
 - 4.6. Cardiovascular system
 - 4.7. Neurological
 - 4.8. GI
 - 4.9. Abdomen
 - 4.10. Genitourinary system
 - 4.11. Extremities
 - 4.12 Significant positive and negative findings

Continued							



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CASE PRESENTATION/CASE STUDY OUTLINE

- 5. Interpretation of lab and other diagnostic tests
- 6. Summary and probable health diagnosis
- 7. Management and Outcome
 - 7.1 Management plan-outcome identification
 - 7.2 Medical and Nursing/integrated plan
 - 7.3 Management provided-treatments-drugs, surgery, emergency procedures, Ventilator 7.4 support, nutritional and fluid support, nursing measures
 - 7.4 Patient's progress-objective measures
 - 7.5 Resolution of care-improvement or deterioration
- 8. Discussion-summarize the case and lessons learned
- 9. References



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CLINICAL CONFERENCE

OUTLINE:

- 1. Conceptualization (Pathophysiology/case study)
- 2. Assessment
- 3. Integration with treatment
- 4. Clinical data
- 5. Treatment of treatment progress
- 6. Application for the future
- 7. Ethical questions

CARE PATHWAY/INTEGRATED CLINICAL PATHWAY (For specific disease or symptom eg. Chest pain, heart failure, acute respiratory failure, poly trauma, CABG)

OUTLINE (On admission, Day 1, Day 2, Day 3, Day 4, Discharge/Referral)

ASSESSMENT

- 1. Initial assessment on admission-ABCDE assessment-Findings
- 2. Focused history and physical examination findings
- 3. Lab tests and other diagnostic tests-clinical data and significant findings
- 4. Baseline data

DIAGNOSIS

- 5. Differential/Final medical diagnosis
- 6. Nursing diagnoses

PLAN OF CARE/CARE PATHWAY

Therapeutic interventions with objective outcomes (measurable)

- 7. Lifesaving measures (eg. intubation)
- 8. Respiratory support
- 9. Nutritional/Circulatory support/Fluid challenge
- 10. Medication treatment
- 11. Surgery/invasive treatment procedures
- 12. Pain relief measures
- 13. Elimination
- 14. Pressure ulcer preventive measures
- 15. Risk prevention measures
- 16. Ongoing assessment/monitoring and documentation in flow sheets-ABG, Vital signs, SPO2, hemodynamic parameters
- 17. Patient/family education and counseling
- 18. Discharge plan
- 19. Referral/Transfer
- 20. End of life care in case of impending death



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OUTCOME EVALUATION (VARIANCE TRACKING) -FOLLOW UP

Name of the critical care team members and their signature against their activity/interventions

Essential records of the hospital can be substituted in places required (Eg. fall risk prevention format, pressure ulcer prevention, sedation score, pain score, medication record)

NB. The institution can follow their own pathways if available or others can make their own using the above guide based on institution's protocols/policies.



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CRITICAL CARE NURSING I

INTERNAL PRACTICAL EXAM -OSCE Marks allotted- 50 marks

	Core competency Domains (Duration &Marks)							
Station (5)	Health assessment (Focused History and Physical Examination) and interpretation	Monitoring competencies (invasive and Non invasive)	Development of care plan /Care path way	Therapeutic interventions - (emergency procedural competencies) including drug administration)				
I	10 minutes (10 marks)							
II		10 minutes (10 marks)						
III			10 minutes (10 marks)					
IV				10 minutes (10 marks)				
V	Rest station (5/10 minutes)							

OSCE - 40 marks (4x10) ORAL EXAMINATION - 10 marks

TOTAL - 50 marks

{End of posting can follow the same as above having 5 stations with 5 minute duration each station (marks- 4x4=16, oral exam-4 marks, total=20/2=10 marks)}



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SECOND YEAR M.Sc. NURSING (NPCC)

CRITICAL CARE NURSING I

EXTERNAL PRACTICAL EXAM- OSCE - Marks allotted- 100 marks

Statio n (10)		Core c	ompetency I	Domains (Time	Duration in	n minutes &	Marks)			
II (10)	Health asses (Focused Hi Physical Ex- and interpre	story and amination)	Monitoring competenci es- Invasive & Non invasive	Development of plan of care/ care pathway	Family Education & counseling	Including drug administration	Therapeutic intervention (Emergence procedural competencies	s cy		
ĺ	Adult	Pediatric					1	II		
I	10 min (10 marks)									
II		10 min (10 marks)								
III			10 min (10 marks)							
IV				10 min (10 marks)						
V	Rest station	n 1 (5/10 m	inutes)							
VI					10 min (10 marks)					
VII						10 min (10 marks)				
VIII							10 min (10 marks)			
IX								10 min (10 marks)		
X	Rest Station	n 2 (5/10 mi	nutes)							

On completion of procedural competencies in log book and clinical requirements, the NP student is qualified to appear for final practical examination

OSCE - 80

ORAL EXAMINATION - 20 marks

TOTAL - 100 marks



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SECOND YEAR M.Sc. NURSING (NPCC)

QUESTION PAPER FORMAT (FIRST TERM EXAMINATION)

Critical Care Nursing I

Marks: 50 Time: 2hours Q 1. Write Short Answers on any 4 out of 5 (20 marks) a) b) c) d) e) Q 2. Long Answer Questions: Any 2 out of 3 (**30** marks) a. i (2) ii (5) iii (8) b. i (2) (5) ii iii (8) c. i (2) ii (5) iii (8)



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SECOND YEAR M.Sc. NURSING (NPCC)

QUESTION PAPER FORMAT (UNIVERSITY EXAMINATION)

Critical Care Nursing I

Marks: 70

Time: 3 hours

Q 1. Write Short Answers on any 5 out of 6	(25 marks)
a)		
b)		
c)		
d)		
e)		
f)		
Q 2. Long Answer Questions: Any 3 out of 4	(4	45 marks)
a. i	((2)
ii	(5)
iii	((8)
b. i	((2)
ii		5)
iii		(8)
c. i	(2)
ii		5)
iii		(8)
d. i	(2)	
ii		(5)
iii		(8)



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

SECOND YEAR M.Sc. NURSING (NPCC)

Critical Care Nursing - II

Hours of instruction: Theory: 96 hours,

Practical: 48 hours Clinical: 624 hours

Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
I	12	Hematological alterations Review of Clinical assessment, pathophysiology, and pharmacology Special diagnostic studies Hematology conditions requiring critical care management DIC Thrombocytopenia Heparin induced thrombocytopenia Sickle cell anemia Tumor lysis syndrome Anemia in critical illness Hematology therapeutic management Autologus blood transfusion bone marrow transplantation Recent advances and development	 Blood transfusion Bone marrow transplantation Care of Catheter site Bone marrow aspiration 	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
II	8	 Skin alterations Review of Clinical assessment, pathophysiology, and pharmacology Special diagnostic studies Conditions requiring critical care management ✓ Burns ✓ Wounds Therapeutic management Reconstructive surgeries for burns Management of wounds Recent advances and development 	 Burn fluid resuscitation Burn feeds calculation Burn dressing Burns bath Wound dressing 	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration
III	12	Multi system alterations requiring critical care Trauma Sepsis Shock Multiple Organ Dysfunction Anaphylaxis DIC Other injuries (Heat, Electrical, Near Hanging, Near drowning) Envenomation Drug overdose Poisoning	 Triage Trauma team activation Administration of anti snake venom Antidotes 	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
IV	10	Specific infections in critical care • HIV • Tetanus • SARS • Rickettsisosis • Leptospirosis • Dengue • Malaria • Chickungunya • Rabies • Avian flu • Swine flu	 Isolation precautions Disinfection and disposal of equipment 	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration
V	9	 Physiological changes in pregnancy Conditions requiring critical care Antepartum hemorrhage PIH Obstructed labor Ruptured uterus PPH Puerperal Sepsis Obstetrical shock HELLP syndrome DIC Amniotic fluid embolism ADRS Trauma 	o partogram o equipments - incubators, warmers	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
VI	10	 Prominent anatomical and physiological differences and implications Conditions requiring critical care ✓ Asphyxia neonatarum ✓ Metabolic disorders ✓ Intracranial hemorrhage ✓ Neonatal sepsis ✓ Dehydration ✓ ARDS ✓ Poisoning ✓ Foreign bodies ✓ Seizures ✓ Cyanotic heart disease ✓ Congenital hypertrophic Pyloric stenosis Selected pediatric challenges ✓ Ventilator issue ✓ Medication administration ✓ Pain Management Interaction with children and families 		Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
VII	10	Critical Care in Older Adult Normal psycho biological characteristics of aging Biological issues Psychological issues Concepts and theories of ageing Stress & coping in older adults Common Health Problems & Nursing Management Physical challenges Auditory changes Visual changes Visual changes Cardiovascular changes Respiratory changes Respiratory changes Renal changes Renal changes Musculoskeletal changes Endocrine changes Endocrine changes Psychological challenges Cognitive changes Abuse of the older person Alcohol abuse		Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
		 Challenges in medication use ✓ Drug absorption ✓ Drug distribution ✓ Drug metabolism ✓ Drug excretion ✓ Hospital associated risk factors for older adults ✓ Long term complications of critical care ✓ Care transitions ✓ Palliative care and end of life in critical care 			
		Critical Care in Perianesthetic period Selection of anesthesia General anesthesia Anesthetic agents Perianesthesia assessment and care Post anesthesia problems and emergencies requiring critical care Respiratory-Airway obstruction, Laryngeal edema, Laryngospasm, Bronchospasm, Noncardiogenic pulmonary edema, Aspiration, Hypoxia, Hypoventilation	 Assisting with planned intubation Monitoring of patients under anesthesia Administration of nerve blocks Titration of drugs - Ephedrine, Atropine, Naloxone, Avil, Ondansetron Sensory and motor block assessment for patients on epidural analgesia. Technical troubleshooting of syringe / infusion pumps. 		



Unit	Theory Hours	Торіс	Practical /Lab Lab	Teaching Learning activity	Method of Assessment
VIII	10	 ✓ Cardiovascular - Effects of anesthesia on cardiac function, Myocardial dysfunction, Dysrhythmias, postoperative hypertension, post operative hypotension ✓ Thermoregulatory - Hypothermia, shivering, hyperthermia, malignant hyperthermia ✓ Neurology- Delayed emergence, emergence delirium, ✓ Nausea and vomiting 		Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration
IX	10	Other special situations in critical care ✓ Rapid response teams and transport of the critically ill ✓ Disaster management ✓ Ophthalmic emergencies - Eye injuries, glaucoma, retinal detachment ✓ ENT emergencies - Foreign bodies, stridor, bleeding, quinsy, acute allergic conditions ✓ Psychiatric emergencies - Suicide, crisis intervention	Disaster preparedness and protocols	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration
	5	Class tests			
Total	96 Hours				



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List of skills to be practiced in the skill lab (69 hours include demonstration by the faculty and practice by the students).

Hematological alterations

Blood transfusion

Bone marrow transplantation

Care of Catheter site

Bone marrow aspiration

Skin alterations

Burn fluid resuscitation

Burn feeds calculation

Burn dressing

Burns bath

Wound dressing

Multi system alterations requiring critical care

Triage

Trauma team activation

Administration of anti snake venom

Antidotes

Specific infections in critical care

Isolation precautions

Disinfection and disposal of equipment

Critical care in Obstetrics, children, and Older Adult

Partogram

Equipments - incubators, warmers

Critical Care in Perianesthetic period

Assisting with planned intubation

Monitoring of patients under anesthesia

Administration of nerve blocks

Titration of drugs - Ephedrine, Atropine, Naloxone, Avil, Ondansetron

Sensory and motor block assessment for patients on epidural analgesia.

Technical troubleshooting of syringe / infusion pumps.

Other special situations in critical care

Disaster preparedness and protocols



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CLINICAL PLACEMENT

S.No	Area	Duration
1	OT	6 week
2	PICU	2 weeks
3	Burns	2 weeks
4	Casuality	3 weeks
	Total	13 weeks

INTERNAL ASSESSMENT

THEORY

SR NO	ITEM	TOTAL MARKS	WEIGHTAGE (%)	MARKS OUT OF 30
1	Examination			
	First term	50	50	15
	Prefinal	70		
2	Assignment			
	Clinical Seminar	7x10=70	50	15
	GRAND TOTAL	220	100	30

PRACTICAL

SR NO	ITEM	TOTAL MARKS	WEIGHTAGE (%)	MARKS
1	Clinical presentation	20 x 2	10%	10
2	Case study report (Developed	20	20%	10
	Clinical /Care Pathway)			
3	Clinical Performance Evaluation	6x100=600	20%	20
4	End of Posting OSCE	25x2=50	10%	10
5	Internal Practical Exam -OSCE	50	50%	50
	GRAND TOTAL	350	100%	100

UNIVERSITY EXAMINATIONS

Theory Marks			Prac	tical Marks	
Duration (Hours)	Internal	External	Hours	Internal	External
3	30	70		100	100



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

SECOND YEAR NURSE PRACTITIONER (CRITICAL CARE NURSING I&II)

CUNICAL	DDESENTATION
DATE	
TOPIC:	
COURSE:	. YEAR I/II:
WINE OF THE STODENT.	
NAME OF THE STUDENT:	

CLINICAL PRESENTATION

S.No.	Presentation skills	Marks allotted	Marks obtained
1.	Coverage of content -12		
	1.1. Introduction or chief complaint	1	
	1.2. History of present illness	2	
	1.3. Physical examination	2	
	1.4. Diagnostic tests	1	
	1.5. Diagnosis & relevant pathophysiology	1	
	1.6. Management and outcomes	4	
	1.7. Summary	1	
2.	Clarity and credibility in presentation	1	
3.	Well organized	1	
4.	Interesting and creative, use of illustrations	2	
5.	Group involvement & effective handling of questions	1	
6.	Confidence and resourcefulness	1	
7.	Professional outlook-poise, emotional stability	1	
8.	Time management	1	
	TOTAL	20	

REMARKS:-



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SECOND YEAR NURSE PRACTITIONER (CRITICAL CARE NURSING I&II

CASE STUDY REPORT (CRITICAL CARE NURSING I & II)

NAME OF	THE STUDENT:		
COURSE:	YEAR I/II:		
TOPIC:	DATE		
S. No.	Particulars	Marks allotted	Marks obtained
	Introduction of patient, history & physical examination, and		
1.	Diagnostic tests – significant findings	5	
2.	Diagnosis and relevant pathophysiology	1	
3.	Management plan (Identification of outcomes & Development of plan for care/care pathway)	2	
4.	Management (Treatment and nursing interventions including family education and counseling) & Achievement of outcomes(Patients responses to treatment and interventions)	4	

REMARKS:-

5

6

7

8

Discussion and conclusion

Use of illustrations

References

Organization in presenting the written content

Total

2

2

2

2

20



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

SECOND YEAR NURSE PRACTITIONER (CRITICAL CARE NURSING I&I)

SEMINAR EVALUATION

	Marks	Marks	
DATE:			
TOPIC:			• • • • •
TODIC .			
YEAR I/II:			
	• • • • • • • • • • • • • • • • • • • •		••••
NAME OF THE STUDENT:			

		Marks	Marks
S.No	Presentation skills	allotted	obtained
1.	Coverage of content (Relevant and current knowledge)	10	
2.	Clarity and credibility in presentation	2	
3.	Well organized	2	
4.	Interesting and creative	1	
5.	Group involvement & effective handling of questions	2	
6.	Confidence and resourcefulness	1	
7.	Professional outlook-poise, emotional stability	1	
8.	Time management	1	
	TOTAL	20	
	WRITING SKILLS		
9	Content coverage (Relevant and current knowledge)	5	
	Organization in presenting the content (Introduction, text		
10	and conclusion)	3	
11	Use of illustrations	1	
12	References	1	
	TOTAL	10	

REMARKS:-



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CRITICAL CARE NURSING II

INTERNAL PRACTICAL EXAM -OSCE

Marks allotted- 50 marks

Core competency Domains (Duration &Marks) Health assessment Development of Monitoring Therapeutic (Focused History and competencies care plan /Care path interventions -Station Physical Examination) (emergency way (5) (invasive and Non procedural and interpretation invasive) competencies) including drug administration) Ι 10 minutes (10 marks) Π 10 minutes (10 marks) 10 minutes III(10 marks) IV 10 minutes (10 marks) Rest station (5/10 minutes)

OSCE - 40 marks (4x10)

ORAL EXAMINATION – 10 marks

TOTAL – 50 marks

{End of posting can follow the same as above having 5 stations with 5 minute duration each station (marks- 4x4=16, oral exam-4 marks, total=20/2=10 marks)}



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

CRITICAL CARE NURSING II EXTERNAL PRACTICAL EXAM- OSCE

Marks allotted- 100 marks

Stati	Core competency Domains (Time Duration in minutes & Marks)								
on	Health asses	ssment	Monitoring	Develop	Family	Drug	Therapeutic		
(10)	(Focused History and		competen-	ment of	Education &	administra	interventions		
	Physical Examination)		cies	plan of	counseling	-tion			
			Invasive &	care/ care			(Emergency		
	and interpretation		Non	pathway			procedural		
			invasive		competencie	competencies)-2			
	Adult	Pediatric					1	II	
I	10 min (10 marks)								
П		10 min (10 marks)							
III			10 min						
13.7			(10 marks)	10 '					
IV				10 min (10 marks)					
V	Rest station 1 (5/10 minutes)								
VI					10 min				
					(10 marks)				
VII						10 min			
VIII						(10 marks)	10 min		
VIII							(10 marks)		
IX							Í	10 min	
								(10 marks)	
X									
		Rest Station 2 (5/10 minutes)							
		· · ·							

On completion of procedural competencies in log book and clinical requirements, the NP student is qualified to appear for final practical examination

OSCE-80

ORAL EXAMINATION – 20 marks

TOTAL – 100 marks



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

QUESTION PAPER FORMAT (FIRST TERM EXAMINATION)

Critical Care Nursing II

Marks: 50

Time: 2hours Q 1. Write Short Answers on any 4 out of 5 **(20 marks)** a) b) c) d) e) Q 2. Long Answer Questions: Any 2 out of 3 (**30** marks) a. i (2) ii (5) iii (8) b. i (2) ii (5) iii (8) c. i (2) ii (5) iii (8)



MGM Educational Campus, Plot No. 1 and 2, Sector 1, Kamothe, Navi Mumbai

QUESTION PAPER FORMAT (UNIVERSITY EXAMINATION) Critical Care Nursing II

Marks: 70 Time: 3 hours

Q 1. Write Short Answers on any 5 out of 6	(25 marks)
a)	
b)	
c)	
d)	
e)	
f)	
,	
Q 2. Long Answer Questions: Any 3 out of 4	(45 marks)
a. i	(2)
ii	(5)
iii	(8)
b. i	(2)
ii	(5)
iii	(8)
c. i	(2)
ii	(5)
iii	(8)
d. i	(2)
ii	(5)
iii	(8)
	(0)

Resolution No. 4.13 of BOM-55/2018: Resolved as follows:-

- (i) Slow learners must be re-designated as potential learners.
- (ii) Students scoring less than 35% marks in a particular subjects/course in the 1st formative exam are to be listed as potential learners. These learners must be constantly encouraged to perform better with the help of various remedial measures.
- (iii) Students scoring more than 75% marks in a particular subjects/course in the 1st formative exam are to be listed as advanced learners. These learners must be constantly encouraged to participate in various scholarly activities.

Resolution No. 3.1.4.2 of BOM-57/2019:

- i. Resolved to include "Gender Sensitization" into UG (from new batch 2019-2020) and PG (from existing batches) curricula. [Annexure-21]
- **ii.** Resolved to align the module of "Gender Sensitization" with MCI CBME pattern for MBBS students.
- iii. Resolved that Dr. Swati Shiradkar, Prof., Dept. of OBGY., MGM Medical College, Aurangabad will coordinate this activity at both campuses.

Annexure - 21

Gender sensitization for UG (2nd, 3rd, 8th semesters) and PG (3 hours)

INCLUSION OF "GENDER SENSATIZATION" IN CURRICULUM

Introduction:

The health care provider should have a healthy gender attitude, so that discrimination, stigmatization, bias while providing health care will be avoided. The health care provider should also be aware of certain medico legal issues related with sex & gender.

Society particularly youth & adolescents need medically accurate, culturally & agewise appropriate knowledge about sex, gender & sexuality. So we can train the trainers for the same. It is need of the hour to prevent sexual harassment & abuse .

To fulfill these objectives, some suggestions are there for approval of BOS.

Outline

- 1)For undergraduates :- Three sessions of two hours each, one in 2nd term, one in 3rd term & one in 8th term.
- 2) For Faculties and postgraduates: One session of two hrs.
- 3) For those want to be trainers or interested for their ownself, value added course, which is optional about sex, gender, sexuality & related issues.

Responsibility

ICC of MGM, MCHA , with necessary support from IQAC & respective departments.

Details of undergraduate sessions

1)First session in 2nd term

Aim - To make Students aware about the concept of sexuality & gender.

To check accuracy of knowledge they have,

To make them comfortable with their own gender identify & related issues.

To make them aware about ICC & it is functioning.

Mode – Brain storming, Interactive power point presentation experience sharing.

Duration – Around two hours

Evaluation – Feedback from participants.

2)Second session in 3rd / 4th term

Aim – To ensure healthy gender attitude in these students as now they start interacting with patients.

To ensure that the maintain dignity privacy while interacting with patients and relatives, particularly gender related.

To make them aware about importance of confidentiality related with gender issues.

To encourage them to note gender related issues affecting health care & seek solutions.

Mode – focused group discussions on case studies, Role plays & discussion.

--3--

Duration – Around two hours.

Evaluation – Feedback from participants.

Third session in 8th term.

Aim – To understand effect of gender attitudes on health care in various subjects.

To develop healthy gender attitude while dealing with these issues.

Mode – Suggested PBL by departments individually. (In collaboration with ICC till faculty sensitization is complete)

Evaluation – Feedback

FOR POSTGRADUATES

Session of 2-3 hrs preferably in induction program.

Aim – To introduce medically accurate concept of gender, sex, gender role & sex role.

To ensure healthy gender attitude at workplace.

To understand gender associated concepts on health related issues & avoid such bias wile providing health care.

To make them aware about ICC & it's functioning.

Mode – Interactive PPT

Role plays & discussion

Duration – 2 to 3 hrs

Evaluation – Feedback.

FOR FACULTIES

Session of 2 hours may be during combined activities.

Aim – To ensure clarity of concept abut gender & sex.

To discuss effect of these concept on health related issues.

To identify such gender & sex related issues in indivual subject specialties.

To discuss methodology like PBL for under graduate students when whey are in 7^{th} - 8^{th} semester.

Mode – Role play

Focused group discussion

Case studies

Evaluation – Feed back.
