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# Curriculum for Master of Science Nurse Practitioner in Critical Care (NPCC)

#### **Amended History**

- 1. Approved as per BOM 48/2017 Resolution No. 5.13(C), dated 24/01/2017.
- 2. Amended upto BOM-57/2019, dated 26/04/2019.
- 3. Amended upto Resolution No. 4.3.3.2 of BOM 63/2021, dated 17/02/2021.
- 4. Amended upto Resolution No. 3.14 of AC-41/2021, dated 27/08/2021.
- 5. Amended upto Resolution No. 6.17 of AC-44/2022, dated 09/12/2022
- 6. Amended as per AC-49/2024 [Resolution No. 3.20], dated 25/04/2024
- 7. Amended as per AC-50/2024 [Resolution No. 3.20], dated 27/11/2024



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Nursing is an art; and if it is to be made an art, requires as exclusive a devotion, as hard a preparation as any painter's or sculptor's work; for what is the having to do with dead canvas or cold marble, compared with having to do with the living body......the temple of God's spirit........ it is one of the fine arts. I have almost said the finest of fine arts.

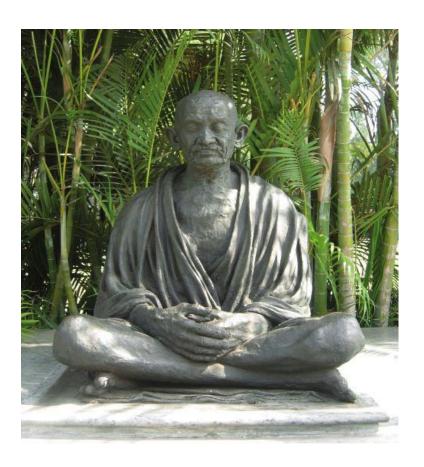
Florence Nightingale



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#### THE VISION

To emerge as a "Centre for excellence" offering nursing education and research of a very high standard to develop professionally competent nurses, recognized for excellence, leadership and compassionate care, in transforming the health locally and globally, by maintaining highest ethical standards.

#### **MISSION**

- Provide quality patient care through excellence in nursing education, practice and research
- Academic excellence in nursing through dedication in patient care, commitment to research, innovation in learning and trust in human values.
- Enable the students to develop into outstanding professionals with high ethical standards capable of transforming the health in the global society.
- Achieve these through team efforts making the institution socially diligent trend setter in nursing education.



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#### PHILOSOPHY OF THE PROGRAM

Mahatma Gandhi Mission Institute of Health Sciences was established in 2006 for Medical Education and Health care of the community. MGM New Bombay College of Nursing is a constituent unit of MGM Institute of Health Sciences is established to impart Graduate and Postgraduate education in Nursing. The Institute functions along with the philosophy and objectives of the University as well as that of the Indian Nursing Council.

#### We believe that .....

- Excellency in health care can be achieved through innovative research and through excellence in education of the health care professionals.
- Post graduate programme is essential to prepare nurses to improve the quality of nursing education and practice in India.
- Post graduate programme in nursing builds upon and extends competence acquired at the graduate levels, emphasizes application of relevant theories into Nursing practice, education, administration and development of research skills.
- The programme prepares nurses for leadership position in nursing and health fields who can function as nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the National priorities and the changing needs of the society.
- o This programme provides the basis for the post masteral programme in Nursing.

Further the programme encourages accountability and commitment to lifelong learning which fosters improvement of quality care.



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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 -**

#### Eligibility for appearing for the examination

- 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.
- There is no minimum cut off for Internal Assessment marks, as internal and external marks are added together for declaring results.

# Examining and degree awarding authority: Respective University Declaration of Results:

- The declaration of results will be done as pass (60%) or fail and with rank.
- Pass marks is 60% and above in the aggregate of both internal and external university examination in theory and practical in every course/ subject and less than 60% is fail.
- For calculating the rank, the aggregate of the two years marks will be considered.
- 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
- Rank will not be declared for candidates who fail in any subject.
- Maximum period to complete the programme is 4 years.

#### **Practical Examination:**

- OSCE type of examination will be followed alongside viva (oral examination)
- Maximum Number of students per day = 10 students.
- Examination should be held in clinical area only.
- The team of three 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



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#### DISSERTATION

- Research guides: Main guide M.Sc Nursing faculty with 3years 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 hospitalethics 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 secondyear.
- Submission of dissertation final 3 months before completion of second year.
- Dissertation Examination Internal assessment Viva & dissertation report 50 marks



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#### ASSESSMENT (FORMATIVE AND SUMMATIVE)

- Seminar
- Written assignments/Term papers
- Case/Clinical presentation
- Clinical & Care pathway/Case 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 Procedural competencies/Clinical skills & clinical requirements) have to be signed by the preceptor every fortnight.



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# MSc NURSING (NPCC) PROGRAMME

#### **Scheme of Examination**

	Title		Theory %			Practical %		
Fi	rst Year	Hours	Internal	External	Hours	Internal	External	
Co	ore Courses							
1.	Theoretical Basis for Advanced Practice Nursing	3 hrs	50					
2.	Research Application and Evidence Based Practice in Critical	3 hrs	30	70				
	Care							
3.	Advanced skills in Leadership	3 hrs	30	70				
Ac	Ivanced Practice Courses							
6.	Advanced Pathophysiology &							
	Advanced Pharmacology relevant to Critical Care	3 hrs	30	70				
7.	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	3 hrs	30	70		100	100
2. Critical Care Nursing I	5 III'S	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	<b>Advanced Practice Courses</b>				
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	<b>Speciality Courses</b>	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**

First Year: 44 Weeks (excludes 2 weeks of Introductory block classes and Workshop)

Sl. No.	Area	Weeks
1	Medical ICU (including Hematology Posting)	12
2	Surgical ICU (Includes OT Posting)	12
3	Cardio / Cardiothoracic (CT) ICU	8
4	Emergency Department (Includes Trauma)	6
5	Other: Neurology (2), Burn & Dialysis (1) Neonatal & Pediatric ICU (2), OBG & Gynaec (1)	6
	Total weeks	44

**Second Year:** 45 Weeks (excludes one weeks of Introductory block classes)

Sl. No.	Area	Weeks
1	Medical ICU (including Hematology & Dialysis)	12
2	Surgical ICU (Includes OT & Burns)	12
3	Cardio / Cardiothoracic (CT) ICU	8
4	Emergency Department (Includes Trauma & Disaster)	8
5	Other: Neurology (2), Neonatal & Pediatric ICU (2), OBG & Gynaec (1)	5
	Total weeks	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	<ul><li>Seminar/ Theory application</li><li>Lecture (by faculty)</li></ul>
2	Research Application and Evidence Based Practice in Critical Care	56 +24	8 hrs	40 hrs (5days) + 8hrs	1 x 24 = 24hrs.	<ul> <li>Research Study analysis</li> <li>Exercise/ Assignment (lab)</li> </ul>
3	Advanced skills in Leadership, Management and Teaching Skills	56 +24	12+2 hrs	2 hrs (Block classes)	1x 26 = 26 hrs 2.5x 16 = 40 hrs	<ul> <li>Clinical conference</li> <li>Seminar</li> <li>Exercise         /Assignments (Lab)     </li> </ul>
4	Advanced pathophysiology applied to Critical Care	60			1.5x 40 = 60 hrs	<ul><li>Case Presentation</li><li>Seminar</li><li>Clinical Conference</li><li>Lecture (by faculty)</li></ul>
5	Advanced Pharmacology applied to Critical Care	54	10		1 x 44 = 44 hrs	<ul> <li>Nursing Rounds</li> <li>Drug Study Presentation</li> <li>Standing orders/ presentations</li> <li>Lecture (by faculty)</li> </ul>
6	Advanced Health/physical Assessment	70 +48	8 hrs		2x26 = 52 hrs. 1.5 x 18 = 27 hrs 1.0 x 15 = 15 hrs 2.0 x 6 = 12 hrs 2.0 x 2 = 4 hrs	<ul> <li>Clinical Demonstration (by faculty)</li> <li>Return Demonstration</li> <li>Nursing Rounds</li> <li>Physical Assessment (All systems)</li> <li>Case Study</li> <li>Lecture (by faculty)</li> </ul>
	TOTAL	432 hrs	51 hrs	48 hrs	336 hrs	

	Introd	uctory	Classes –	I	wee	K
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<sup>□</sup> Workshop - 1 week

 $<sup>\</sup>Box$  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	<ul> <li>Demonstration (Lab)</li> <li>Return demonstration (Lab)</li> <li>Clinical Teaching</li> <li>Case Study</li> <li>Seminar</li> <li>Clinical Conference</li> <li>Lecture by faculty</li> </ul>
2	Critical Care Nursing -I	96+48=144 Hrs.	9 hrs x16 weeks = 144 hrs	<ul> <li>Demonstration (Lab)</li> <li>Return demonstration (Lab)</li> <li>Clinical conference/         Journal Club</li> <li>Seminar</li> <li>Case Presentation</li> <li>Drug Study (including drug interactions)</li> <li>Nursing Rounds</li> <li>Lecture by faculty</li> </ul>
3	Critical Care Nursing II	96+48=144 Hrs.	9 hrs x16 weeks = 144 hrs	<ul> <li>Demonstration (Lab)</li> <li>Return demonstration</li> <li>Nursing Rounds</li> <li>Clinical conference/ Journal Club</li> <li>Seminar</li> <li>Lecture by faculty</li> </ul>
		T32		

Total 45 weeks = 8.5/9 hrs/week Block classes-1wk, 45 wks - 8.5/9hrs/wk



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#### M.Sc. NURSING (NURSE PRACTITIONER IN CRITICAL CARE)

#### PROGRAMME OUTCOME

After completing M.Sc Nursing (Nurse Practitioner in Critical Care)

Programme, the graduate will be able to;

- **PO1**: Demonstrate competency in providing holistic care to critically ill patients
- **PO2**: Develops clinical competency in diagnostic reasoning, complex monitoring and treatment therapies in collaboration with treating doctor.
- **PO3**: Apply theoretical, patho-physiological and pharmacological principles and evidence base knowledge in implementing therapies / interventions in critical care.
- **PO4**: Appraise critical conditions for providing emergent treatment to stabilize and restore patients' health.
- **PO5**: Manage complications independently or collaboratively as a part of critical care team.
- **PO6**: Collaborate with family members and other health care professionals in the critical care team, across the continuum of critical care.



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#### Annexure-17B of AC-49/2024

#### **COURSE OUTCOME**

#### First Year M.Sc. (Nurse Practitioner in Critical Care)

#### At the end of the course the student;

#### **Theoretical Basis for Advanced Practice Nursing**

**CO1** : Explains the global health care challenges & health care delivery system in India.

**CO2** : Describes the scope & regulations related to advanced nursing practice.

**CO3** : Explains the competencies & trainings related to nurse practitioner.

**CO4** : Identifies the future challenges of nurse practitioners

#### Research Application and Evidence Based Practice in Emergency and Trauma Care

**CO5** : Explains the research process.

**CO6** : Conducts independent research projects.

**CO7** : Reports research findings through Scientific paper presentation and publications.

**CO8** : Computes the data and interprets the results.

#### Advanced skills in Leadership, Management and Teaching

**CO9** : Applies theories and principles of leadership.

CO10: Practices quality improvement strategies for managing patients in Emergency and Trauma units.

**CO11**: Applies principles of management for effective management of Emergency and Trauma units.

**CO12**: Develops teaching plan for educating nursing staff, patients and their relatives.



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#### Advanced Pathophysiology & Pharmacology applied to Critical Care Nursing

**CO13**: Integrates the knowledge of pathophysiology process in developing diagnosis and plan of care for Emergency and Trauma patients.

**CO14**: Applies the patho physiogical principles in symptom management and secondary prevention among seriously ill trauma patients.

CO15 : Administer medications to patients following pharmachial principles.

**CO16**: Applies sound knowledge of drug interactions in administration of medication to Emergency and Trauma patients.

#### Advanced Health / Physical Assessment in Critical Care Nursing-Theory

**CO17** : Describes the system wise focused physical examination.

**CO18**: Explains the assessment of children, pregnant women & psychiatric patients.

**CO19** : Identifies the screening and diagnostic tests relevant to the physical examination findings.

**CO20** : Describes system wise clinical monitoring parameters.

#### Advanced Health / Physical Assessment in Critical Care Nursing-Practical

CO21 : Demonstrate competency in general and focused physical assessment of critically ill patients.

CO22 : Analyses the results of appropriate screening and diagnostic tests based on the physical examination findings.

**CO23**: Prepares plan of care for Critically ill patients based on the clinical parameters

**CO24** : Documents assessment, diagnosis, management.



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#### **COURSE OUTCOME**

Second Year M.Sc. (Nurse Practitioner in Critical Care )

#### At the end of the course the student;

#### **Foundations of Critical Care Nursing - Theory**

CO25 : Describes holistic care applied to critical care Nursing practice.

**CO26** : Explains the principles & assessment relevant to critical care.

CO27 : Identifies the need for Psychosocial management, family education &

counselling in critical care units.

CO28 : Describes the infection control & quality assurance models relevant to

critical care.

#### **Foundations critical Care Nursing - Practical**

CO29 : Demonstrates skill in performing appropriate invasive and non-invasive

procedures required for critically ill patients.

**CO30** : Practice principles of Infection control relevant to critical care unit.

**CO31** : Provide care related to management of critically ill patients .

#### **Critical Care Nursing – I Theory**

**CO32** : Describes the concept of triage.

**CO33** : Explains the care of critically ill patients with cardiovascular, respiratory,

neurological, genitourinary & gastrointestinal disorders.

CO34 : Describes the care of critically ill patients with musculoskeletal, endocrine

& hematological disorders.



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#### **Critical care Nursing – I Practical**

CO35 : Develops skill in assessment of critically ill patients with cardiac, pulmonary, neurology, nephrology, endocrine and gastrointestinal disorders

CO36 : Demonstrates competency in providing comprehensive care to patients with alterations in cardiac, pulmonary and nephrology systems brought to critical care Unit.

CO37 : Demonstrates competency in providing comprehensive care to patients with alterations in neurology, endocrine and gastrointestinal systems brought to critical care Units.

#### **Critical Care Nursing – II - Theory**

**CO38** : Explains the care of critically ill patients with sense organ, multisystem, toxicology & specific infections.

CO39 : Describes the care to critically ill pregnant Women, children and psychiatric patients.

**CO40** : Explains trauma, disaster management & emergency medical services.

#### Critical Care Nursing - II- Practical

**CO41** : Demonstrates competency in providing comprehensive care to critically ill adult patients with alterations in hematological system, skin, multisystem organs and infectious diseases.

**CO42**: Demonstrates competency in providing comprehensive care to critically ill children, pregnant women and geriatric patients.



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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 illpatients.
- 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 N	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
	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



# KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956)

Grade 'A' Accredited by NAAC

# 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	40	10
2	Second term Examination	25 marks		10
3	Written assignment /Term Paper ( Global and national health Care trends & Policies)	50 marks	40	10
4	Clinical Seminar (Clinical /Care Pathway in specific Clinical condition /application of specific Nursing theory)	30 marks	20	5
	Total	130	100	50

#### Internal Assessment + Final Assessment: Theoretical Basis For Advanced Practice Nursing

Assessment	Marks
Internal Assessment	25
Final theory College Exam	25
Total	50



# **KAMOTHE, NAVI MUMBAI** (Deemed University u/s of UGC Act,1956)

# FIRST YEAR MSC NURSING (NPCC)

## SEMINAR/PRESENTATION EVALUATION CRITERIA

Total	Marks: 30 Date :_		
S.No	Presentation skills	Marks Allotted	Marks Obtaine
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	
narks	,	<u> </u>	



# KAMOTHE, NAVI MUMBAI

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## FIRST YEAR MSc NURSING (NPCC)

#### **TERM PAPER - EVALUTION CRITERIA**

Name of the Student: -

Batch :-	Date:		
Topics:-			
Name of	the Supervisor:		
Total M	arks – 50	Marks obtained	d:
Sr. No.	Criteria	Marks Assigned	Marks Obtained
		Ţ,	Obtained
1	Content (Adequacy, Appropriateness, Clarity)	20	
2	Organization	5	
3	Illustration	20	
4	Resources Used	5	
	Total Marks	50	
1	<u>'</u>		
Remark	s:-		
Signa	ture of Preceptor	Signat	ure of Faculty



#### KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

## FIRST YEAR MSc NURSING (NPCC)

#### **QUESTION PAPER FORMAT (FIRST TERM EXAMINATION)**

## **Theoretical Basis for Advanced Practice Nursing**

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



# KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

# FIRST YEAR MSc NURSING (NPCC)

#### (

QUESTION PAPER FORM.	AT (UNIVERSITY EXAMINATION
	Marks: 50
	Time: 2 hours
Q 1. Write Short Answers on any 4 out of	of 5 (20 marks)
a)	
b)	
c)	
d)	
e)	
Q 2. Long Answer Questions any 2 out	t 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)



#### KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

# 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



# KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

# 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	<ul><li>Lecture-cum discussion</li><li>Identifying research priorities</li></ul>	
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)	<ul> <li>Research Knowledge and skills:</li> <li>Research competencies essential for APNs (interpretation and use of research, evaluation of practice, participation in collaborative research)</li> <li>Research Methodology Phases / steps (Research question, Review of literature, conceptual framework, research designs, sampling, data collection, methods &amp; tools, Analysis and Reporting)</li> <li>Writing research proposal and research report</li> </ul>	13	<ul> <li>Research studies analysis</li> <li>Workshop</li> <li>Preparation of tool</li> <li>Developing and presenting research proposal</li> <li>Designing proposals for funding</li> </ul>	<ul> <li>Critiquing of research studies</li> <li>Assignment:</li> <li>Writing systematic review (Analyse the evidence for a given nursing intervention in ICU)</li> </ul>
IV	5	Writing for publication workshop — Manuscript preparation and finding funding sources)	5	<ul> <li>Workshop/ seminar</li> <li>Preparation of manuscript for publication</li> </ul>	Seminar



#### KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A++' Accredited by NAAC

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

#### **CLINICAL PLACEMENT**

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

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

#### Assessment

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



#### KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) **Grade 'A' Accredited by NAAC** 

#### **Dissertation:**

- Ethical clearance should be obtained by the hospitalethics 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	67	20
	Second term Examination	70	07	20
2.	Assignments			
	a) Preparation of Research instrument	50		5
	b) Writing systematic review	50	33	
	c) Journal club – analysis of Research Evidence for ICU Nursing competencies (2)	20×2=40		5
	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



# KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

## 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	(5)
iii	(8)



## KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

## FIRST YEAR MSc NURSING (NPCC)

# RESEARCH APPLICATION AND EVIDENCE BASED PRACTICE IN CRITICAL CARE

#### **QUESTION PAPER FORMAT (UNIVERSITY EXAMINATION)**

· · · · · · · · · · · · · · · · · · ·	
	Marks: 70
	<b>Time:</b> 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)



## KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

## FIRST YEAR MSc NURSING (NPCC)

## **EVALUATION CRITERIA FOR CRITIQUING RESEARCH STUDY**

S. No.	Criteria	Max. Marks	Marks
S. NO.	Спена		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		
	<ul> <li>Following ethical principles</li> </ul>	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	
	<ul><li>Findings</li></ul>	2	
	Discussion		
6	Appropriate discussion of the findings	1	
6.	Strength and weaknesses of the review	1	
	Any implications	1	
7.	References	1	
	Total Marks	25	

emarks			



## KAMOTHE, NAVI MUMBAI

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#### **EVALUATION CRITERIA FOR PRESENTATION**

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

Remarks

Date & Signature of the Students

Date & Signature of the Preceptor



## KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

#### **EVALUATION CRITERIA FOR DISSERTATION**

Names	s of the Student:					
Subjec	et:					
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.	<ul> <li>Inclusion of related studies on the topic, and its relevance</li> </ul>					
11.	Operational definition					
	Research Design					
	Use of appropriate research design					
III.	<ul> <li>Usefulness of the research design to draw the inferences among study</li> </ul>					
	variables / conclusion					
	Sampling Design					
	<ul> <li>Identification and description of the target population</li> </ul>					
IV.	Specification of the inclusion and exclusion criteria					
	<ul> <li>Adequate sample size justifying study design to draw conclusions.</li> </ul>					
	Data Collection Procedure					
	<ul> <li>Preparation of appropriate tool</li> </ul>					
V.	Pilot study including validity and reliability of tool					
	<ul> <li>Use of appropriate procedure / method for data collection</li> </ul>					
	<ul> <li>Clear and logical organization of the findings</li> </ul>					
VI.	Analysis of data and interpretation					
	<ul> <li>Clear presentation of the tables (title, table &amp; column heading)</li> </ul>					
	Selection of appropriate statistical tests					
VII.	Ethical Aspects					
	Use of appropriate consent process					
	<ul> <li>Use of appropriate steps to maintain ethical aspects and principles (Physical harm etc.)</li> </ul>					
	Interpretation of the findings					
VIII.	Consistent and appropriate discussion of the findings					
	Conclusion					
IX.	Summary & recommendations for Nursing practice / Education /					
	Administration					
37	Presentation / Report writing					
X.	Organization of project work including language & style of presentation					
	Total Marks (100)				.,	

Remark:



# KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

# FIRST YEAR MSc NURSING (NPCC)

#### **EVALUATION CRITERIA FOR SYSTEMATIC REVIEW**

Name	s 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 literature  Adequate Literature reviews  Use of relevant studies						
	Methodology						
4.	<ul> <li>Use of appropriate research design</li> </ul>						
4.	Data collection and measurement Procedures						
	Validity, reliability						
	Clear and logical presentation of data analysis						
	Discussion						
	<ul> <li>Appropriate discussion of the findings</li> </ul>						
5.	Limitation of the studies						
	Strength and weaknesses of the review						
	Any implications						
	Total Marks						
Remai	·k:						

Date & Signature of the Students

Date & Signature of the Preceptor



#### KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

#### 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?

Continued.....



# MGM INSTITUTE OF HEALTH SCIENCES KAMOTHE, NAVI MUMBAI

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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?



## KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956)

Grade 'A' Accredited by NAAC

## FIRST YEAR MSc NURSING (NPCC)

NAME OF THE STUDENT:

#### JOURNAL CLUB EVALUATION

		Marks	Marks
S.No.	Paper selection and Presentation skills	allotted	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



## KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

## FIRST YEAR MSc NURSING (NPCC)

Name of the Student: -

Batch :-\_\_\_\_\_\_ Date:-\_\_\_\_\_

#### **EVALUATION CRITERIA-RESEARCH INSTRUMENT**

Topics:					
Name o	of the Supervisor:		-		
Total 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:

Date & Signature of the Supervisor



#### KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A' Accredited by NAAC

#### 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.
- Provides counseling to families and patients in crisis situations particularly end of life care



# KAMOTHE, NAVI MUMBAI

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#### **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 resources - ICU budget, material	1	Preparation of staff patient assignment	
		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	



## KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956)

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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

## Resolution No. 3.20 of Academic Council (AC-50/2024):

Resolved to approve the "Clinical Audit Report" as a part of Internal Assessment in the Course "Advanced Skills in Leadership, Management and Teaching" of First Year M.Sc. NPCC Program, which is to be implemented from the batch admitted from AY 2024-2025 onwards. [ANNEXURE-14A & 14B]



#### KAMOTHE, NAVI MUMBAI

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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			
	Clinical Audit Report	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

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

Mc Connel.(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.



## KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) **Grade 'A' Accredited by NAAC** 

## FIRST YEAR MSc NURSING (NPCC)

## Advanced skills in Leadership, Management and Teaching

## QUESTION PAPER FORMAT (FIRST TERM EXAMINATION)

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



# MGM INSTITUTE OF HEALTH SCIENCES KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) **Grade 'A' Accredited by NAAC** 

## FIRST YEAR MSc NURSING (NPCC)

## Advanced skills in Leadership, Management and Teaching

## QUESTION PAPER FORMAT (UNIVERSITY EXAMINATION)

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



#### KAMOTHE, NAVI MUMBAI

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#### **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

#### Resolution No. 3.20 of Academic Council (AC-50/2024):

Resolved to approve the "Clinical Audit Report" as a part of Internal Assessment in the Course "Advanced Skills in Leadership, Management and Teaching" of First Year M.Sc. NPCC Program, which is to be implemented from the batch admitted from AY 2024-2025 onwards. [ANNEXURE-14A & 14B]



## MGM NEW BOMBAY COLLEGE OF NURSING

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## Annexure-14B of AC-50/2024

#### **EVALUATION CRITERIA FOR CLINCAL AUDIT REPORT**

Name	of the Student:	••••••	• • • • • • •			
Batch	:					
Subjec	et :		•••••			
Topic	of Audit :					
Date	······································					
S.N.	Criteria	1	2	3	4	5
	Introduction					
I.	Significance of the problem selected					
	• objectives					
	Organization					
II.	<ul> <li>Inclusion of Need on the topic</li> </ul>					
	Adequate Supporting data for the need					
	Method					
111	<ul> <li>Use of appropriate Method</li> </ul>					
III.	Inclusion of Appropriate Standard practice for Audit					
	Sampling Design					
IV.	<ul> <li>Identification and description of the target population</li> </ul>					
	Specification of the inclusion and exclusion criteria					
	<ul> <li>Adequate sample size justifying study design to draw conclusions.</li> </ul>					
	Data Collection Procedure					
	Preparation of appropriate tool					
V.	Validity and reliability of tool		$\longrightarrow$			
	Use of appropriate procedure/ method for data collection					
7.77	Clear and logical organization of the findings					
VI.	Analysis of data and interpretation  Clear presentation of the table s(title, table & column heading)					
	<ul> <li>Clear presentation of the table s(title ,table &amp; column heading)</li> <li>Selection of appropriate statistical tests</li> </ul>					
VII.	Discussion of the findings					
VII.	Consistent and appropriate discussion of the findings					
X / I I I	Conclusion					
VIII.	<ul> <li>Summary</li> </ul>					
	Recommendations					
IX.	•For Nursing practice/Education/ Administration					
X.	Quality Improvement Plan					
Λ.	Plan for Improvement in Practice					
	Schedule for Reaudit					
	Total Marks (100)					



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# Clinical Audit Report Format

- 1. Introduction
- 2. Need for audit
- 3. Aims & Objectives
- 4. Method
- 5. Sampling Design
- 6. Data Collection Procedure
- 7. Analysis & Interpretation of Data
- 8. Discussion
- 9. Conclusion
- 10. Recommendation
- 11. Quality Improvement Plan
- 12. References



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TEACHING / MICRO TEACHING E	VALUATION (Family/student education)
NAME OF THE STUDENT:	

COURSE	E: YEAR I/II:		
TOPIC:	DATE		
AUDIEN	CEDURATION		
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		
IV	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 INSTITUTE OF HEALTH SCIENCES KAMOTHE, NAVI MUMBAI

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#### 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:**

- 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



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#### **Course Content**

Unit	Theory Hours	Content	Practical /lab hours	Teaching Learning	Method of Assessment
1.	8	Cardiovascular function  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		<ul> <li>Activities</li> <li>Lecture cum discussion</li> <li>Problem based learning,</li> <li>Nursing rounds</li> <li>Clinical conference</li> <li>One minute preceptorship</li> </ul>	<ul> <li>Case presentation</li> <li>Seminar,</li> <li>Case studies</li> <li>Journal writing</li> </ul>
II	4	Pulmonary function Advanced Pathophysiological process of pulmonary conditions Chronic obstructive pulmonary disease • Disorders of the pulmonary vasculature • Infectious diseases • Respiratory failure • Chest trauma		<ul> <li>Lecture cum discussion</li> <li>Problem based learning ,</li> <li>Nursing rounds</li> <li>Clinical conference</li> <li>One minute preceptors</li> </ul>	<ul> <li>Case presentation</li> <li>Seminar,</li> <li>Case studies</li> <li>Journal writing</li> </ul>



## KAMOTHE, NAVI MUMBAI

Unit	Theory Hours	Content	Practical /lab hours	Teaching Learning Activities	Method of Assessment
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		<ul> <li>Lecture cum discussion</li> <li>Problem based learning ,</li> <li>Nursing rounds</li> <li>Clinical conference</li> <li>One minute preceptors</li> </ul>	<ul> <li>Case presentation</li> <li>Seminar,</li> <li>Case studies</li> <li>Journal writing</li> </ul>
IV	4	Renal function Advanced Pathophysiological process of Renal function  Acute renal failure Chronic renal failure Bladder trauma Infections (Glomerulonephritis) Nephrotic syndrome		<ul> <li>Lecture cum discussion</li> <li>Problem based learning ,</li> <li>Clinical conference</li> <li>One minute preceptors</li> </ul>	<ul> <li>Case presentation</li> <li>Seminar,</li> <li>Case studies</li> <li>Journal writing</li> </ul>
V	4	Gastrointestinal and hepatobiliary Function Advanced Pathophysiological process of hepatobiliary conditions Gastrointestinal bleeding Intestinal obstruction Pancreatitis, Hepatic failure Gastrointestinal perforation		<ul> <li>Lecture cum discussion</li> <li>Problem based learning ,</li> <li>Clinical conference</li> <li>One minute preceptors</li> </ul>	<ul> <li>Case presentation</li> <li>Seminar,</li> <li>Case studies</li> <li>Journal writing</li> </ul>



## KAMOTHE, NAVI MUMBAI

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		<ul> <li>Lecture cum discussion</li> <li>Problem based learning,</li> <li>Nursing rounds</li> <li>Clinical conference</li> <li>One minute preceptors</li> </ul>	<ul> <li>Case presentation</li> <li>Seminar,</li> <li>Case studies</li> <li>Journal writing</li> </ul>
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		<ul> <li>Lecture cum discussion</li> <li>Problem based learning,</li> <li>Nursing rounds</li> <li>Clinical conference</li> <li>One minute preceptors</li> </ul>	Case presentation Seminar, Case studies Journal writing
VIII	2	Integumentary function Advanced Pathophysiological process of integumentary conditions Wound healing • Burns • Steven Johnson Syndrome		<ul> <li>Lecture cum discussion</li> <li>Problem based learning ,</li> <li>One minute preceptorship</li> </ul>	Case presentation Seminar, Case studies Journal writing



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IX	8	Multisystem dysfunction	• Lecture cum	
		Advanced Pathophysiological	discussion	
		process of Multi systeml	<ul> <li>Problem based</li> </ul>	
		conditions	learning,	
		Shock	<ul> <li>Nursing</li> </ul>	Case
		- Hypovolemic	rounds	presentation
		- Cardiogenic	• Clinical	Seminar,
		- Distributive	conference	Case studies
		Systemic inflammatory	• One minute	Journal writing
		syndrome	preceptorship	
		<ul> <li>Multiple organ dysfunction</li> </ul>		
		syndrome		
		• Trauma		
		- Thoracic ,Abdominal		
		- Musculoskeletal, maxillofacial		
		<ul> <li>Drug overdose and poisoning</li> </ul>		
		• Envenomation		
X	6	Specific infections	Lecture cum	
		Advanced Pathophysiological	discussion	
		process of specific infections	Problem based	
		<ul> <li>HIV ,Tetanus ,SARS</li> </ul>	learning,	Case
		<ul> <li>Rickettsisosis, Leptospirosis</li> </ul>	Nursing rounds	presentation
		<ul> <li>Dengue, Malaria,</li> </ul>	Clinical	Seminar,
		Chickungunya	conference	Case studies
		• Rabies	One minute	Journal writing
		<ul> <li>Avian flu ,Swine flu</li> </ul>	preceptorship	
		• Covid -19		
	l			



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Unit	Theory	Content	Practical/	Teaching	Method of
	Hours		Lab Hours	Learning	Assessment
377				Activities	
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		<ul> <li>Lecture cum discussion</li> <li>Problem based learning ,</li> <li>Nursing rounds</li> <li>Clinical conference</li> <li>One minute preceptorship</li> </ul>	Case presentation Seminar, Case studies Journal writing

#### **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



KAMOTHE, NAVI MUMBAI

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## 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 INSTITUTE OF HEALTH SCIENCES KAMOTHE, NAVI MUMBAI

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## Content

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



## KAMOTHE, NAVI MUMBAI

Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
	5	<ul> <li>Antiarrhythmic Medications</li> <li>Cardiac critical care condition         <ul> <li>Medications to improve cardiac contractibility</li> <li>Medications in the management of</li> <li>hypertension in critical care</li> <li>Medications in the management of heart failure.</li> <li>Medications in the management of angina pectoris and myocardial infarction</li> <li>Medications in the management of dysrhythmias, heart block and conduction disturbances</li> <li>Medications in the management of pulmonary hypertension, valvular heart disease, cardiomyopathy.</li> <li>Medications in the management of Atherosclerotic disease of aorta and peripheral artery.</li> <li>Medications in the management of Deep vein thrombosis</li> </ul> </li> <li>Institutional protocols /standing orders for cardiac critical care emergencies</li> </ul>			



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Hours	hours	Teaching Learning Activities	Method of Assessment
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  • General- Gases, Volatile liquids, IV anesthetics  • Non anesthethtic drugs adjuncts to surgery  • Paralytic Medications  • Non depolarizing and  • depolarizing agents  • Anxiolytics			ASSESSMENT



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Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
	6	Autonomic drugs			
Unit	Hours			Learning	
		of Seizure disorder  of Medications in the management of Coma, unconsciousness and persistent Vegetative State  Appropriate Nursing care to safe			
		guard patient  Standing orders for neurology critical care emergencie			



## KAMOTHE, NAVI MUMBAI



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VII	5	Pharmacology and gastrointestinal alterations in critical care  • Antiulcer drugs  • Antidiarrheals  • Antiemetic  • Pancreatic enzymes  • Nutritional supplements, vitamins and minerals		



# KAMOTHE, NAVI MUMBAI

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



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Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
Unit		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	_	Learning	
		anatagonists, biologic response modifiers  Hematology critical care conditions  Medications in the management of Anemia in critical illness.  Medications in the management of DIC.  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			



## KAMOTHE, NAVI MUMBAI

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



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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
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### KAMOTHE, NAVI MUMBAI

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Unit	Theory Hours	Content	Practical hours	Teaching Learning Activities	Method of Assessment
		<ul> <li>Miscellaneous- Lincosamide group nitromidazole, tetracycline and chloramphenicol, polymyxins, antimalarials, anti fungals, antivirals</li> <li>Anti fungal drugs</li> <li>Anti protozoal drugs</li> <li>Anti viral drugs</li> <li>Choice of antimicrobials</li> <li>Infectious critical Care conditions         <ul> <li>Medications in the management of HIV, tetanus, SARS, Rickettsisosis, Leptospirosis, Dengue, Malaria, chickungunya, rabies, Avian flu and Swine Flu</li> </ul> </li> <li>Covid - 19</li> <li>Standing orders for infectious critical care emergencies</li> </ul>			

## **CLINICAL PLACEMENT**

**Advanced Pathophysiology** - 8 weeks **Advanced Pharmacology** - 8 weeks

S. No	Area	Duration
1	Medical ICU	3 weeks
2	Surgical ICU	3 weeks
3	OT	3 weeks
4	Cardio /cardiothoracic ICU	3 weeks
5	Emergency ICU	1week
6.	Casuality	1 week
7.	Neuro	1 Week
8.	Neonate/PICU	1 Week
	Total	16 weeks



# MGM INSTITUTE OF HEALTH SCIENCES KAMOTHE, NAVI MUMBAI

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# 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	67	20
	Pre final Examination	70	07	20
2.	Assignments			•
	Drug study Presentation	20		5
	Drug Study Report	20	33	
	Case Study	20	33	5
	Case presentation	20		
	Total	200	100	30

#### **UNIVERSITY EXAMINATION:**

Theory Marks			Pı	ractical Mar	·ks
Duration (Hours)	Internal	External	Hours	Internal	External
3	30	70	Nil		



# MGM INSTITUTE OF HEALTH SCIENCES KAMOTHE, NAVI MUMBAI

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### **DRUG STUDY PRESENTATION**

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	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	20	

**REMARKS**:



# KAMOTHE, NAVI MUMBAI

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## 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:-	-
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Signature of preceptor

Signature of faculty



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#### **CLINICAL PRESENTATION EVALUATION**

(PATHOPHYSIOLOGY)

NAME OF THE STUDENT:	
COURSE:	
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:-



# MGM INSTITUTE OF HEALTH SCIENCES KAMOTHE, NAVI MUMBAI

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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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#### **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.	
b.	
c.	
Q 2 Long answer questions on any 1 out of 2	1x 15 = 15  marks
a. i	(2)
ii	(5)
iii	(8)
b. i	(2)
ii	(5)
iii	(8)

#### **SECTION B**

### ADVANCED PHARMACOLOGY APPLIED TO CRITICAL CARE NURSING

Marke 25

	Marks 25
Q3. Write short Notes on any 2 out of 3	2  x5 = 10  marks
a.	
b.	
c.	
Q4 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 INSTITUTE OF HEALTH SCIENCES KAMOTHE, NAVI MUMBAI

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#### **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

35

	Marks =3
Q1. Write short Notes on any 4 out of 5	4  x5 = 20  marks
a.	
b.	
c.	
d.	
e. Q . 2 Long answer questions on any 1out of 2	$1x\ 15 = 15 \text{ marks}$
a. i	$\frac{13 - 13 \text{ marks}}{(2)}$
ii	(5)
iii	(8)
	<b>、</b> /
b. i	(2)
ii 	(5)
iii	(8)
SECTION B	
ADVANCED PHARMACOLOGY APPLIED TO C	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	$1x \ 15 = 15 \text{ marks}$
a. i	$\frac{13}{13} = \frac{13}{13} \text{ final ks}$ $(2)$
ii	(5)
iii	(8)
b. i	(2)
ii 	(5)
iii	(8)



# MGM INSTITUTE OF HEALTH SCIENCES KAMOTHE, NAVI MUMBAI

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# ADVANCED HEALTH / PHYSICAL ASSESSMENT IN CRITICAL CARE NURSING

Placement: First Year Theory : 70 Hours

Practical/ 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



## KAMOTHE, NAVI MUMBAI

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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	<ul><li>Introduction</li><li>History taking</li><li>Physical examination</li></ul>	3	•Faculty demonstration (clinical) Comprehensive Heath history Physical assessment (General)	Return demonstration
II	6	Cardiovascular system	5	Faculty demonstration ( clinical) Focused Heath history Cardiovascular system assessment  Demonstrations on	Return demonstration



## KAMOTHE, NAVI MUMBAI

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III	6	Respiratory system	Faculty demonstration	Return
		History	( clinical)	demonstration
		Physical examination	<b>Focused Heath history</b>	
		Respiratory monitoring -     Arterial blood gases, pulse     oximetry, end-tidal carbon     dioxide monitoring	Respiratory system assessment	



## KAMOTHE, NAVI MUMBAI

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	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



## KAMOTHE, NAVI MUMBAI

Unit	Theory Hrs	Theory	Practical/ Lab Hrs	Teaching learning activities	Method of Assessment
V	6	<ul> <li>Renal system</li> <li>History</li> <li>Physical examination</li> <li>Assessment of renal function</li> <li>Assessment of electrolytes and acid base balance</li> <li>Assessment of fluid balance</li> </ul>	4	<ul> <li>Faculty demonstration (clinical)</li> <li>Focused Heath history</li> <li>Renal system assessment</li> <li>Assisting Procedures         <ul> <li>Renal Biopsy</li> </ul> </li> <li>Interpretation of         <ul> <li>Renal Function test</li> <li>Interpretation of fluid and electrolyte balance</li> <li>Acid base abnormalities</li> </ul> </li> </ul>	Return demonstration
VI	4	<ul> <li>Gastrointestinal system</li> <li>History</li> <li>Physical examination</li> <li>Nutritional assessment</li> <li>Laboratory studies –         <ul> <li>Liver function studies, blood parameters, stool test</li> </ul> </li> <li>Diagnostic studies –         <ul> <li>radiological and imaging studiendoscopic studies</li> </ul> </li> </ul>	3	<ul> <li>Faculty demonstration</li> <li>Focused Heath history</li> <li>Gastrointestinal system assessment</li> <li>Demonstrations on</li> <li>Collection of blood samples</li> <li>Assisting Procedures</li> <li>Liver Biopsy</li> <li>Witnessing Procedures</li> <li>ERCP</li> <li>Endoscopy</li> <li>CT Scan, Ultrasound</li> <li>Interpretation of</li> <li>Bowel Sounds</li> <li>Abdominal pressure,</li> <li>Residual gastric</li> <li>volume,</li> <li>Liver function test</li> </ul>	Return demonstration



## KAMOTHE, NAVI MUMBAI

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VII	4	Endocrine system	3	• Faculty demonstration	Return
		<ul> <li>History, physical examination,</li> </ul>		<ul> <li>Focused Heath history</li> </ul>	demonstration
		laboratory studies, and diagnos		• Endocrine system	
		studies of		assessment	
		Hypothalamus and pituitary gl		Interpretation of	
		Thyroid gland		Laboratory studies, and	
		Parathyroid gland		diagnostic studies of	
		Endocrine gland		Hypothalamus and pitui	
		Adrenal gland		Thyroid gland	
				Parathyroid gland	
				<ul> <li>Endocrine gland</li> </ul>	
				Adrenal gland	



## KAMOTHE, NAVI MUMBAI

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

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	<ul> <li>Assessment of children</li> <li>Growth and development</li> <li>Nutritional assessment</li> <li>Specific system assessment</li> </ul>	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	<ul> <li>Faculty demonstration</li> <li>Focused Heath history</li> <li>older adult's assessment</li> </ul>	Return demonstration • Seminar

### CLINICAL PLACEMENT

S.No	Area	Duration
1	Medical ICU	5 weeks
2	Surgical ICU	5 weeks
3	Cardio /cardiothoracic ICU	2 weeks
4	Emergency ICU	1 week
5	Casuality	1 week
6	Neuro	1 week
7	Neonatal/PICU	1 week
8.	OBS& Gynae	1 Week
	Total	17 weeks



# **KAMOTHE, NAVI MUMBAI** (Deemed University u/s of UGC Act,1956)

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#### **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	67	20
	Pre Final	70		
2.	Written Assignment –	50	33	10
	(Diagnostic and Investigatory			
	Reports –Interpretation and			
	analysis of findings)			
	GRAND TOTAL		100	30

#### **PRACTICAL**

SR	ITEM	TOTAL	WEIGHTAGE	MARKS
NO		MARKS	(%)	
1	Clinical Performance Evaluation	100x4=400	20	10
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	ical Marks	
Hours	Internal	External	Hours	Internal	External
3	30	70		50	50



### KAMOTHE, NAVI MUMBAI

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# First Year M.Sc Nursing (NPCC) CLINICAL PRESENTATION

#### (HEALTH ASSESSMENT)

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

		Marks	Marks
S.No.	<b>Presentation skills</b>	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:



## KAMOTHE, NAVI MUMBAI

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# First Year M.Sc Nursing (NPCC) CASE STUDY REPORT (HEALTH ASSESSMENT)

	THE STUDENT:YEAR I/II:		
OPIC:			
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

**Remarks:** 

Signature of preceptor with date

Signature of faculty with date

20



# KAMOTHE, NAVI MUMBAI

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## First Year M.Sc Nursing (NPCC)

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

#### Marks allotted-10 marks

	Core competency Domains (Duration &Marks)								
Station (5)	Health assessment (Focused History and Physical Examination) Adult	Interpretation of History /physical exam findings and Lab results & Identification of health diagnosis/monitoring	Plan of care /therapeutic management (interventions – procedural competencies including drug administration )	Family education & counseling					
		skills							
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



### KAMOTHE, NAVI MUMBAI

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#### First Year M.Sc Nursing (NPCC)

#### **HEALTH ASSESSMENT**

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

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



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## First Year M.Sc Nursing (NPCC)

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

Station		Core con	npetency Don	nains (Time D	uration in 1	minutes &N	Iarks)		
(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 ( <b>Pediatric</b> )	History &Physical Exam	Diagnostic tests	1	2	
Ι	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 minut	es)						
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)	L	<u> </u>	L	I	I	

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



## KAMOTHE, NAVI MUMBAI

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# First Year M.Sc Nursing (NPCC) COMPETENCY BASED CLINICAL PERFORMANCE EVALUTION

NAME OF TH	E STUDENT:		
ICU /UNIT		YEAR I/II:	
DATE:	FROM	.TO	

Q1	COMPETENCIES	1	2	3	4	Rating	Score
Sl. I.	CLINICAL PRACTICE COMPETENCIES						
1.	Performs initial assessment of the critically ill patient (ABCDE 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	



## KAMOTHE, NAVI MUMBAI

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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%)

temarks by Preceptor:						
(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					



### KAMOTHE, NAVI MUMBAI

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## 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)
ii	(5)
iii	(8)



## KAMOTHE, NAVI MUMBAI

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First Year M.Sc Nursing (NPCC)

### QUESTION PAPER FORMAT (UNIVERSITY EXAMINATION)

Marks: 70 Time: 3 hours

**(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)

Q 1. Write Short Answers on any 5 out of 6



## KAMOTHE, NAVI MUMBAI

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# COURSE PLANNING

**Second Year M.Sc Nursing (NPCC)** 



## KAMOTHE, NAVI MUMBAI

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### 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



## KAMOTHE, NAVI MUMBAI

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



## KAMOTHE, NAVI MUMBAI

Unit	Theory Hours	Topic	Practical /Lab	Teaching Learning activity	Method of Assessment
II	5	Concept of Holistic care applied to	Devices to measure	Lecture,	Written test
		critical care nursing practice	oxygen/oxygenation	Discussion,	Seminar
		<ul> <li>Application of nursing process in</li> </ul>	○ Fuel cell	Problem based	Return
		the care of critically ill		learning	demonstra-
		Admission and progress in ICU- an overall view	<ul><li>Paramagnetic</li><li>oxygen analyzer</li></ul>	Clinical conference,	tion
		Overview of ICU Management	o PO2 electrodes-	Demonstration	
		• Ensure adequate tissue	Clark electrodes	Demonstration	
		oxygenation	o Transcutaneous		
		Maintain chemical environment	oxygen electrodes		
		Maintain temperature			
		Organ protection	Oximetry - Pulse		
		• Nutritional support	oximetry, Venous		
		• Infection control	oximetry		
		<ul> <li>Physiotherapy and rehabilitation</li> </ul>	<ul> <li>Capnography</li> </ul>		
		• 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			
		<ul> <li>Precaution care of Covid – 19</li> </ul>			
		dead body			
		• Stress and burnout syndrome			
		among health team members			
III	10	Appraisal of the critically ill			
		Triaging concept, process and			
		principles			
		Assessment of the critically ill			
		General assessment			
		- Scherul assessment			



## KAMOTHE, NAVI MUMBAI

Unit	Theory Hours	Topic	Practical /Lab	Teaching Learning activity	Method of Assessment
III	10	Respiratory assessment	Circulation and	Lecture,	Written test
		Cardiac assessment	perfusion (including	Discussion,	Seminar
		Renal assessment	hemodynamic	Problem based	Return
		Neurological assessment	evaluation and	learning	demonstrati
		Gastrointestinal assessment	waveform graphics)	Clinical	on
		Endocrine assessment	Invasive blood	conference,	
		Musculoskeletal assessment	pressure monitoring	Demonstration	
			Non-invasive BP		
		Integumentary assessment	monitoring		
		Monitoring of the critically ill	Venous pressure		
		Arterial blood gas (ABG)	(Peripheral, Central		
		Capnography	and Pulmonary artery		
		Hemodynamic	occlusion pressure)		
		• Electrocardiography (ECG)	Insertion and removal		
		Glasgow Coma Scale (GCS)	of arterial line		
		• Richmond agitation sedation scale (RASS)	Insertion and removal of central line		
		Pain score	Pulse index Continuous		
		Braden score	Cardiac output		
		Evaluation of the critically ill	(PiCCO) Electrocardiography		
		• Evaluation of pre critical illness	(ECG) -Waveforms		
		• Evaluation of critical illness	(ECG) Waveforms		
		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)			



## KAMOTHE, NAVI MUMBAI

Theory Hours	Topic	Practical /Lab	Teaching Learning activity	Method of Assessment
	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	<ul> <li>CPR (BLS and ACLS)</li> <li>Airway Management</li> <li>Laryngeal mask airway</li> <li>Cuff inflation and anchoring the tube Care of ET tube</li> <li>Tracheostomy care</li> <li>Suctioning - open/closed Chest physiotherapy</li> <li>Oxygenation and oximetry, care of patient with oxygen delivery devices</li> <li>Fluids and electrolytes</li> <li>Fluid calculation and administration(crystal loids and colloids)</li> <li>Administration of blood and blood products</li> <li>Inotrope calculation, titration and administration</li> <li>Cardiac glycosides – Digoxin</li> <li>Sympathomimetics - Dopamine, dobutamine, epinephrine, isoproterenol, norepinephrine, isoproterenol, norepinephrine Phosphodiesterase inhibitors - amrinone, milrinone</li> </ul>	activity Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Assessment Written test Seminar Return demonstrati on



## KAMOTHE, NAVI MUMBAI

Unit	Theory Hours	Topic	Practical /Lab	Teaching Learning activity	Method of Assessment
V	8	Pain and Management	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 Calculation, loading	Lecture,	Written test
		<ul> <li>Pain in Critically ill patients</li> <li>Pain - Types, Theories</li> <li>Physiology, Systemic responses to pain and psychology of pain</li> <li>Acute pain services</li> <li>Pain assessment - Pain scales,</li> <li>behavior and verbalization</li> <li>Pain management-pharmacological (Opioids, benzodiazepines, propofol, Alpha agonist, Tranquilizers, Neuromuscular blocking agents)</li> <li>Nonpharmacological management</li> </ul>	and infusion of - Morphine, Fentanyl, Midazolam, Lorazepam, Diazepam, Propofol, Clonidine, Desmedetomidine, Haloperidol	Discussion, Problem based learning Clinical conference, Demonstration	Seminar Return demonstrati on
		• Transcutaneous electrical nerve stimulation(TENS)			



## KAMOTHE, NAVI MUMBAI

Unit		Topic	Practical /Lab	Teaching Learning	Method of
	Hours		T 1 1 1 1 1	activity	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		
			analgesia		
VI	8	Psychosocial & spiritual	Counseling		
		alterations: Assessment and	Counseinig		
		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			



## KAMOTHE, NAVI MUMBAI

Unit	Theory Hours	Topic	Practical /Lab	Teaching Learning activity	Method of Assessment
VII	4	<ul> <li>Patient and family education and counseling</li> <li>Challenges of patient and family education</li> <li>Process of adult learning</li> <li>Factors affecting teaching learning process</li> <li>Informational needs of families in critical care</li> <li>Counseling needs of patient and family</li> <li>Counseling techniques</li> </ul>	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 demonstra- tion
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	<ul> <li>Infection control in critical care</li> <li>Nosocomial infection in intensive care unit; methylresistant staphylococcus aureus (MRSA) and other recently identified strains</li> <li>Disinfection, Sterilization,</li> <li>Standard safety measures,</li> <li>Prophylaxis for staff</li> <li>Antimicrobial therapy- review</li> </ul>		Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



# KAMOTHE, NAVI MUMBAI

Unit	Theory	Торіс	Practical /Lab	Teaching Learning	Method of
XI	Theory Hours 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 malpractice, intentional torts, wrongful death, defamation, assault and battery  Constitutional Law: Patient decision making  Ethical Issues  Difference between morals and ethics  Ethical principles, ethical decision making in critical care, Strategies for promoting ethical decision making  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),	Practical /Lab	Teaching Learning activity  Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Method of Assessment Written test Seminar Return demonstration
		Counseling,			



# KAMOTHE, NAVI MUMBAI

Unit	Theory Hours	Topic	Practical /Lab	Teaching Learning activity	Method of Assessment
XII	8	<ul> <li>Quality assurance</li> <li>Design of ICU/CCU</li> <li>Quality assurance models applicable to ICUs</li> <li>Standards, Protocols, Policies, Procedures</li> <li>Infection control policies and protocols</li> <li>Standard safety measures</li> <li>Nursing audit relevant to critical care</li> <li>Staffing</li> </ul>		Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration
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 demonstration
	5	Class tests			
Total	96				



#### KAMOTHE, NAVI MUMBAI

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### 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
  - 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
  - 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
  - o Postural drainage



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### 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
  - Connecting to ventilator
  - Weaning from ventilator
  - o 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
  - 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

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

- Thermoregulation, care of patient withhyper/hypothermia
  - Temperature probes
  - o Critical care management of hyper and hypothermia
- Glycemic control, care of patient with glycemic imbalances Monitoring GRBS
  - 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
5.	OT	1 Week
	Total	13 weeks



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### **INTERNAL ASSESSMENT**

# **Foundations of Critical Care Nursing Practice**

#### **THEORY**

SR	ITEM	TOTAL	WEIGHTAGE	MARKS
NO		MARKS	(%)	OUT OF 30
1	Examination			
	First term	50	67	20
	Prefinal	70		
2	Assignments			
	Written Assignments ( Protocols )	50	33	10
	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 INSTITUTE OF HEALTH SCIENCES KAMOTHE, NAVI MUMBAI

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### SECOND YEAR M.Sc NURSING (NPCC)

#### FOUNDATIONS OF CRITICAL CARE NURSING

#### INTERNAL PRACTICAL EXAM- OSCE

(Marks allotted- 50 marks)

	Core competency Domains (Duration &Marks)						
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)}



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### 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 interpreta	listory and on)	Monitoring competencie & Non inva	es- Invasive	Development of plan of care	Family Education & counseling	Therapeut intervention (Emergency procedural competency Including administra	ons cy I cies ) drug
	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** 



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### **SECOND YEAR M.Sc NURSING (NPCC)**

#### ASSIGNMENT ON PROTOCOLS - EVALUTION CRITERIA

Name o	f the Student: -		_
Batch: -	Date:		_
Topics:	-		<u>—</u>
Name o	f the Supervisor:		_
Total M	Tarks - 50	Marks obtained:	
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	
Remai	rks:		
Signatu	re of preceptor with date	Signature of fac	culty with date



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### **SECOND YEAR M.Sc. NURSING (NPCC)**

#### **DRUG STUDY PRESENTATION**

NAME OF THE STUDENT:	
COURSE:	YEAR I/II:
ТОРІС:	
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	3	
	administration		
1.2	Mechanism of Action, metabolism and excretion	2	
1.3	Side effects, adverse reactions, drug interactions and	3	
	management incl. anaphylaxis management		
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:**

Signature of preceptor & date

Signature of faculty & date



### KAMOTHE, NAVI MUMBAI

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### **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:-**

Signature of preceptor & date

Signature of faculty & date



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### SECOND YEAR M.Sc. NURSING (NPCC)

#### **CLINICAL PRESENTATION EVALUATION**

DAIE			
ГОРІС:.			
COURSI	::YEAR I/II	•••	
NAME O	F THE STUDENT:	•••••	•••••

S.No.	Presentation skills	Marks allotted	Marks obtained
1.	Coverage of content -12		
1.1	1.1 Brief patient presentation		
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:** 

Signature of preceptor & date

Signature of faculty & date



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### **SECOND YEAR M.Sc. NURSING (NPCC)**

### **CASE STUDY**

ATE:			
S.No.	Particulars	Marks allotted	Marks obtaine
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 Marks	20	

Signature of preceptor with date

Signature of faculty with date



### KAMOTHE, NAVI MUMBAI

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### **SECOND YEAR M.Sc. NURSING (NPCC)**

# **Critical Care Nursing I**

Placement - Second year

Hours of instruction: Theory: 96hours,

Practical: 48hours Clinical: 552 hours

Unit	Theory Hours	Торіс	Practical /Lab	Teaching Learning activity	Method of Assessment
I	6	<ul> <li>Introduction</li> <li>Review of anatomy and physiology of vital organs</li> <li>Review of assessment and monitoring of the critically ill</li> </ul>		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	<ul> <li>Thrombolytic therapy,</li> <li>Use of equipment and their settings</li> <li>Defibrillator, PiCCO),</li> <li>Pacemakers,</li> <li>Intra aortic balloon pump (IABP)</li> </ul>	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



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



# KAMOTHE, NAVI MUMBAI

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



# KAMOTHE, NAVI MUMBAI

Unit	Theory Hours	Торіс	Practical /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  ✓ Seizure disorder  ✓ Coma, Unconsciousness  ✓ Persistent vegetative state  ✓ Head injury  ✓ Spinal cord injury  ✓ Thermoregulation  Neurologic therapeutic management  ✓ Intracranial pressure  ✓ Assessment and management of intracranial hypertension  ✓ Craniotomy  Recent advances and development	<ul> <li>Monitoring GCS</li> <li>Conscious and coma monitoring</li> <li>Monitoring ICP</li> <li>Sedation score</li> <li>Brain Death Evaluation</li> </ul>	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



# KAMOTHE, NAVI MUMBAI

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



# KAMOTHE, NAVI MUMBAI

Unit	Theory Hours	Торіс	Practical /Lab	Teaching Learning activity	Method of Assessment
VII	12	<ul> <li>Endocrine alterations</li> <li>Review of Clinical assessment, pathophysiology, and pharmacology</li> <li>Special diagnostic studies</li> <li>Endocrine conditions requiring critical care management</li> <li>✓ Neuroendocrinology of stress and critical illness</li> <li>✓ Diabetic ketoacidosis, Hyperosmolar non ketotic coma</li> <li>✓ hypoglycemia</li> <li>✓ Thyroid storm</li> <li>✓ Myxedema coma</li> <li>✓ Adrenal crisis</li> <li>✓ SIADH</li> <li>Endocrine therapeutic management</li> <li>Recent advances and development</li> </ul>	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
	5	Class tests			
Tota l	96 Hours				



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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
- o Chest tube insertion
- o Chest drainage

#### **Neurological alterations**

- Monitoring GCS
- o Conscious and coma monitoring
- o 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**

- 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	Medical ICU	2 weeks
2	Surgical ICU	2 weeks
3	CCU	2 weeks
4	Catherization Laboratory	2 weeks
5	Casualty	2 weeks
6	Neuro ICU	2 Weeks
7	Dialysis	3 weeks
	Total	15 weeks

#### **SCHEME OF EVALUATION**

#### **THEORY**

SR NO	ITEM	TOTAL MARKS	WEIGHTAGE (%)	MARKS OUT OF 30
1	Examination			
	First term	50	67	20
	Pre final	70		
2	Assignments			
	Clinical Seminar	7x10=70	50	10
	Journal club	2X 20=40		
	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**

Theory 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

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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



# MGM INSTITUTE OF HEALTH SCIENCES KAMOTHE, NAVI MUMBAI

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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

	Cor	e competency Domains	s (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		Core c	ompetency I	Domains (Time	Duration in	n minutes & N	Marks)	
n (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 (Emergency procedural competencies	s y
	Adult	Pediatric					1	II
Ι	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 mi	inutes)					
VI					10 min (10 marks)			
VII						10 min (10 marks)		
VIII							10 min (10 marks)	
IX								10 min (10 marks)
X	Rest Statio	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)
Q 2. Long Answer Questions: Any 2 out of 3  a. i	
	(30 marks) (2) (5)
a. i	(2)
a. i ii	(2) (5) (8)
a. i ii iii	(2) (5) (8)
a. i ii iii b. i	(2) (5) (8)
a. i ii iii b. i ii iii	(2) (5) (8) (2) (5) (8)
a. i ii iii b. i ii	(2) (5) (8) (2) (5)



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### **SECOND YEAR M.Sc. NURSING (NPCC)**

### QUESTION PAPER FORMAT (UNIVERSITY EXAMINATION)

Marks: 70

# **Critical Care Nursing I**

		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)
		(5)
iii		(8)



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### **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	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  Hematologytherapeutic management  Autologus blood transfusion  bone marrow transplantation  Recent advances and development	<ul> <li>Blood transfusion</li> <li>Bone marrow transplantation</li> <li>Care of Catheter site Bone marrow aspiration</li> </ul>	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



# KAMOTHE, NAVI MUMBAI

Unit	Theory Hours	Topic	Practical /Lab	Teaching Learning	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	<ul> <li>Burn fluid resuscitation</li> <li>Burn feeds calculation</li> <li>Burn dressing</li> <li>Burns bath</li> <li>Wound dressing</li> </ul>	activity  Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration
III	12	<ul> <li>Multi system alterations</li> <li>requiring critical care</li> <li>Trauma</li> <li>Sepsis</li> <li>Shock</li> <li>Multiple Organ</li></ul>	<ul> <li>Triage</li> <li>Trauma team activation</li> <li>Administration of anti snake venom</li> <li>Antidotes</li> </ul>	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



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Unit	Theory Hours	Торіс	Practical /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 Covid - 19	<ul> <li>Isolation precautions</li> <li>Disinfection and disposal of equipment</li> </ul>	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration
V	9	<ul> <li>Physiological changes in pregnancy</li> <li>Conditions requiring critical care         <ul> <li>Antepartum hemorrhage</li> <li>PIH</li> <li>Obstructed labor</li> <li>Ruptured uterus</li> <li>PPH</li> <li>Puerperal Sepsis</li> <li>Obstetrical shock</li> <li>HELLP syndrome</li> <li>DIC</li> <li>Amniotic fluid embolism</li> <li>ADRS</li> <li>Trauma</li> <li>Covid - 19</li> </ul> </li> </ul>	o partogram o equipments - incubators, warmers	Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



# KAMOTHE, NAVI MUMBAI

Unit	Theory Hours	Topic	Practical /Lab	Teaching Learning activity	Method of Assessment
VI	10	<ul> <li>Prominent anatomical and physiological differences and implications</li> <li>Conditions requiring critical care         <ul> <li>✓ Asphyxia neonatarum</li> <li>✓ Metabolic disorders</li> <li>✓ Intracranial hemorrhage</li> <li>✓ Neonatal sepsis</li> <li>✓ Dehydration</li> <li>✓ ARDS</li> <li>✓ Poisoning</li> <li>✓ Foreign bodies</li> <li>✓ Seizures</li> <li>✓ Congenital hypertrophic Pyloric stenosis</li> <li>✓ Covid - 19</li> </ul> </li> <li>Selected pediatric challenges</li> <li>✓ Ventilator issue</li> <li>✓ Medication administration</li> <li>✓ Pain Management</li> <li>Interaction with children and families</li> </ul>		Lecture, Discussion, Problem based learning Clinical conference, Demonstration	Written test Seminar Return demonstration



# KAMOTHE, NAVI MUMBAI

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



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Unit	Theory Hours	Торіс	Practical /Lab	Teaching Learning activity	Method of Assessment
		<ul> <li>Challenges in medication use</li> <li>✓ Drug absorption</li> <li>✓ Drug distribution</li> <li>✓ Drug metabolism</li> <li>✓ Drug excretion</li> <li>✓ Hospital associated risk factors for older adults</li> <li>✓ Long term complications of critical care</li> <li>✓ Care transitions</li> <li>✓ Palliative care and end of life in critical care</li> </ul>			
		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	<ul> <li>Assisting with planned intubation</li> <li>Monitoring of patients under anesthesia</li> <li>Administration of nerve blocks</li> <li>Titration of drugs - Ephedrine, Atropine, Naloxone, Avil, Ondansetron</li> <li>Sensory and motor block assessment for patients on epidural analgesia.</li> <li>Technical troubleshooting of syringe / infusion pumps.</li> </ul>		



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Unit	Theory Hours	Topic	Practical /Lab	Teaching Learning activity	Method of Assessment
VIII	10	<ul> <li>✓ Cardiovascular - Effects of anesthesia on cardiac function, Myocardial dysfunction,</li> <li>Dysrhythmias,</li> <li>postoperative hypertension</li> <li>✓ Thermoregulatory - Hypothermia, shivering, hyperthermia, malignant hyperthermia</li> <li>✓ Neurology- Delayed emergence, emergence delirium,</li> <li>✓ Nausea and vomiting</li> </ul>		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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### KAMOTHE, NAVI MUMBAI

(Deemed University u/s of UGC Act,1956) Grade 'A++' Accredited by NAAC

#### **CLINICAL PLACEMENT**

S.No	Area	Duration
1	Medical ICU	3 weeks
2	Surgical ICU	2 weeks
3	OT	4 weeks
4	CCU	2 weeks
5	Casulaty	3 weeks
6	PICU	2 weeks
7	OBG & Gynae	1 week
	Total	17 weeks

### INTERNAL ASSESSMENT

#### **THEORY**

SR NO	ITEM	TOTAL	WEIGHTAGE	MARKS	
		MARKS	(%)	OUT OF 30	
1	Examination				
	First term	50	67	20	
	Prefinal	70			
2	Assignment				
	Clinical Seminar	7x10=70	33	10	
	GRAND TOTAL	220	100	30	

#### **PRACTICAL**

SR NO	ITEM	TOTAL	WEIGHTAGE	MARKS
		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**

Т	heory Marks		Practical Marks		
Duration (Hours)	Internal	External	Hours	Internal	External
3	30	70		100	100



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

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

#### **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 1&II

### CASE STUDY REPORT (CRITICAL CARE NURSING I & II)

NAME OF THE STUDENT:

COURSE:			•••••
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	
5	Discussion and conclusion	2	
6	Organization in presenting the written content	2	
7	Use of illustrations	2	

Total

**REMARKS:-**

8

Signature of preceptor & Date

References

Signature of faculty & Date

2

20



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# SECOND YEAR NURSE PRACTITIONER (CRITICAL CARE NURSING 1&I)

#### **SEMINAR EVALUATION**

					 _			7
DATE :		• • • • • • • • • • • • • • • • • • • •		 	 			
TOPIC:	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	 	 • • • • • • •	• • • • • •	•••••	• • • • •
YEAR I/II:				 	 			
IVIIVIL OI	THE STODEN.			 •••••	 			
NAME OF	THE STUDENT	Γ:						

		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:-**

Signature of preceptor & Date

Signature of faculty & Date



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### **CRITICAL CARE NURSING II**

#### **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 Noninvasive)	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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### CRITICAL CARE NURSING II EXTERNAL PRACTICAL EXAM- OSCE

Marks allotted- 100 marks

Stati		Core competency Domains (Time Duration in minutes &Marks)								
(10)	Health assessment (Focused History and Physical Examination) and interpretation		Monitoring competencies Invasive & Non invasive	Develop ment of plan of care/ care pathway	Family Education & counseling	Drug administra -tion	Therapeutic intervention (Emergence procedural competencies	s y		
	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 1	( 5/10 minutes)								
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



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### **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) (2) c. i

ii

iii

(5)

(8)



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# QUESTION PAPER FORMAT (UNIVERSITY EXAMINATION) Critical Care Nursing II

Q 1. Write Short Answers on any 5 out of 6

a)

b)

c)

Marks: 70 Time: 3 hours

(25 marks)

d)	
e)	
f)	
	(45
Q 2. Long Answer Questions: Any 3 out of 4	<b>(45 marks)</b>
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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