Nursing and Midwifery Iran University of Medical Sciences

Faculty	Nursing and Midwifery
Educational Level & Major	Master's Degree in Neonatal Intensive Care Nursing
Course Name	Principles of Neonatal Intensive Care 1
Credits	1.5
Unit Type	Theoretical
Prerequisite	Introduction to Neonatal Intensive Care Nursing
Class Schedule	Online and in present
Location	
Number of Students	5
Course Coordinator	Dr. Mahnaz Shoghi
Instructors (Alphabetical)	Dr. Mena Ali Nejad, Dr. Jafari

Course Description: Develop students' competencies in comprehensively understanding the fundamental principles and theoretical frameworks of routine prenatal and perinatal care, neonatal clinical management, effective family-centered communication, and the identification and assessment of neonates at risk. Equip students with the skills necessary to implement evidence-based nursing interventions and establish optimal care environments throughout the continuum of care from birth through to hospital discharge

Main Goal : Facilitate students' thorough understanding and integration of core principles and best practices in neonatal nursing care within the specialized context of neonatal intensive care units, promoting a cohesive and evidence-based approach to managing critically ill neonates."

Objectives

Recognize principles and concepts of neonatal care
- Routine care before and during birth
- Identify neonates at risk
- Understand maternal diseases and impacts
- Acquire necessary knowledge
- Prepare for nurse's role from birth to discharge
- Understand maternal substance abuse
- Learn stabilization and transport principles
- Learn complementary medicine in neonatal care
- Emphasize exclusive breastfeeding

Teaching Methods: Lectures, planned lectures, Q&A, group discussions, Problem-Based Learning (PBL), Team-Based Learning (TBL), others as specified

Student Duties: Regular attendance, active participation

Educational Aids: Whiteboard, Online Rooms, slide projector

Evaluation & Grading:

Attendance & participation: 2 point
- Final exam: 18 points

Exam Types: Descriptive, short answer, multiple choice, matching, true/false, others

Recommended Resources

- Verklan MT, Walden M, Forest S, eds. Core Curriculum for Neonatal Intensive Care Nursing, Elsevier 2024

- Fanaroff AA, Fanaroff JM. Klaus and Fanaroff's Care of the High-Risk Neonate, Elsevier 2024

- Goldsmith JP, Karotkin EH. Introduction to Assisted Ventilation, 4th ed., 2003

- Hockenberry MJ, Wilson D. Wong's Nursing Care of Infants and Children, Elsevier 2018

- McGurk V. Neonatal Care - Textbook for Student Midwives and Nurses, Nursing Standard 2025

Weekly Schedule & Topics	Instructor
1. Course introduction; Physiological changes in maternal body during pregnancy	Dr. jafari
2. Fetal assessment, screenings, pregnancy age estimation, pregnancy evaluations	Dr. jafari
3. Prenatal care and normal pregnancy process	Dr. jafari
5. Diseases and complications during pregnancy (e.g., diabetes, hypertension, infections)	Dr. jafari
6. High-risk labor (preterm labor, placental abruption, placenta Previa, abnormal fetal presentation during labor, umbilical cord prolapse, birth injuries) Postpartum care in high-risk pregnancies	Dr. Ali Nejad
Birth injuries; labor and delivery related issues	Dr. Ali Nejad
7. Maternal substance abuse during pregnancy; neonatal and maternal care	Dr. Shoghi
8. Healthy neonate routine care (initial assessment, skin-to-skin, Vitamin K, eye prophylaxis, follow-ups)	Dr. Shoghi
9. Role of Complementary and Integrative Medicine in neonatal care	Dr. Shoghi
10. Pain control in neonates using complementary medicine	Dr. Shoghi
11. Adaptation to extrauterine life	Dr. Shoghi
12. Neonatal stabilization and transport (STABLE program)	Mehrnoush
13. Exclusive breastfeeding, neonatal nutritional needs, early feeding importance	Dr. Ali NejadAli Nejad

Session Distribution: Dr. Shoghi: 5 sessions,Dr. Ali Nejad: 4 sessions, Dr. jafari: 4 sessions, |