Iran University of Medical Sciences
School of Nursing & Midwifery

Nursing Informatics Course plan

Course outline

Course title: Nursing Informatics
Program: Master's in Nursing Management
Course Type: Theoretical (0.5credits), practical (0.5 credit)
Instructors: Dr. SeyedehShohreh Aghaseyedmirza
Email seyedmirza.sh@iums.ac.ir **phone number:** 09125159884
Department: Nursing Management
Prerequisites: - No prerequisites

Course Purpose

This course examines the application of information technology and information systems in the field of nursing, to familiarize students with nursing informatics and empower them to use it to improve the quality of nursing services and data management..

Learning Objectives

By the end of the course, students will be able to:

- Explain the concepts and principles of nursing informatics
- Explain the principles of designing information systems in nursing.
- Analyze the challenges and opportunities of information technology in nursing
- Explain the application of artificial intelligence in nursing informatics

Attitudes and Values

Students are expected to:

- Explain the importance of using information systems in the fields of education, research, clinical practice, and nursing management
- Explain the importance of managerial support and participation in policy making and changing organizational culture.

Practical Component

During clinical training, students will:

- Be able to work with some artificial intelligence tools in the field of nursing informatics

Teaching Methods

Depending on the format (in-person, virtual, or blended), the course may include:

- Interactive lectures
- Scenario-Based Learning

Student Responsibilities

- Regular attendance and active participation
- Use of up-to-date academic and research sources
- Engagement in classroom discussions and assessments

Evaluation Methods

- **Summative Assessment:** 50% (final written exam)
- **Participation & Attendance:** 50% (active discussion, presence)
- Assessment types may include written tests (multiple choice, true/false, open-ended)

Recommended Resources

Finkelman, Anita. Leadership and management for nurses. 3th Ed. Hoboken: Person Education Inc, (Last edition).
Huber, Diane. Leadership and nursing care management. 6th Ed. Elsevier, USA, (Last edition).
Kelly, P. Tazbir, J. Essentials of Nursing Leadership & Management. 3rd New York: Delmar, (Last edition).
Marquis, B. L., & Huston, C. J. Leadership roles and management functions in nursing. 9th Ed, (Last edition).
Murray, Elizabeth J. Nursing Leadership and Management. Philadelphia: F.A. Davis Company, (Last edition).
Sullivan, E.J. Effective Leadership and Management in Nursing. 9th Ed. New York: Pearson Education International, (Last edition).
Swansburg, R.J., & Swansburg, R.C. Introduction to management and leadership for nurse managers. 4th Ed. Sudbury, Mass.: Jones and Bartlett Publishers, USA, (Last edition).
Tomey, A. M. Nursing management and leadership. Missouri: Elsevier, (Last edition).
Yoder-Wise Patricia S. Leading and Managing in Nursing. 6th Ed. St. Louis, Missouri: Mosby, an imprint of Elsevier Inc, (Last edition).

Course Calendar: Strategic and Operational Planning

Class Time: 8-10

Session	Topic & Learning Activities	Teaching Method	Date	Instructor(s)
1	Introduction to lesson plans, history, and applications of nursing informatics in clinical education, research, and management	Lecture & Discussion	Tuesday	Dr. Seyed mirza
2	hospital and nursing information systems	Lecture & Discussion	Tuesday	Dr.Seyed mirza
3	clinical decision support systems and data mining	Lecture & Discussion	Tuesday	Dr.Seyed mirza
4	System Life Cycle and application of artificial intelligence in informatics	Lecture & Discussion	Tuesday	Dr.Seyed mirza