



BSc in Nursing

INTEGRATED COURSE TITLE: INFORMATION TECHNOLOGY/ SEMINAR ACTIVITY

NUMBER OF ECTS CREDITS: 1

CODE: MEDS-24/C

MODULE CONVENOR: NOEMI GIANNETTA; MASSIMO SPALLUTO

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PREREQUISITES

There are no specific prerequisites required.

LEARNING OBJECTIVES

The seminar on central and peripheral venous access aims to provide students with theoretical knowledge and clinical care competencies related to the management of venous access devices, with particular reference to indications, insertion techniques (introductory level), management, maintenance, and prevention of complications. The course also aims to develop students' ability to clinically assess the patient and to apply safety principles in nursing practice, in accordance with current guidelines and protocols.

LEARNING OUTCOMES

Knowledge and Understanding

At the end of the seminar, the student will be able to:

- Know the main types of peripheral and central venous access devices.
- Understand the clinical indications for the use of different venous accesses.
- Know the anatomical and physiological principles underlying venous access.
- Understand management and maintenance procedures for venous access devices.
- Know the main complications associated with venous access (infections, occlusions, dislodgement, thrombosis).
- Understand the principles of asepsis and safety in venous access management.

Applying knowledge and understanding

At the end of the seminar, the student will be able to:

- Distinguish between peripheral and central venous access based on clinical indications.

- Apply theoretical knowledge in selecting and managing the most appropriate venous access.
- Correctly perform nursing management of venous access devices (dressings, flushing, patency assessment).
- Recognize early signs of local and systemic complications.
- Apply protocols and guidelines for safe management of venous access.

Communication skills

At the end of the second-year clinical experience, the student will be able to:

- Communicate clearly and effectively with the patient regarding procedures and venous access management.
- Educate the patient on precautions and care needed to maintain the venous access device.
- Collaborate appropriately with the healthcare team in managing venous access.
- Use appropriate technical-scientific language in the clinical setting.
- Accurately document nursing activities and clinical observations related to venous access.

Making judgements

At the end of the second-year clinical experience, the student will be able to:

- Critically assess the condition of the venous access device and insertion site.
- Identify risk situations or early signs of complications.
- Choose, in collaboration with the team, the most appropriate care actions.
- Make informed nursing decisions while ensuring patient safety.
- Promptly report any abnormalities or critical issues to the supervising professional.

Learning skills

At the end of the second-year clinical experience, the student will be able to:

- Demonstrate continuous learning through study and practical experience.
- Integrate theoretical and practical knowledge in venous access management.
- Critically reflect on their nursing practice.
- Identify learning needs and independently deepen their knowledge.
- Keep up to date through guidelines, scientific literature, and interaction with experienced professionals.

COURSE SYLLABUS

- Anatomy and physiology of the cardiovascular system
- Electrocardiography
- Electrocardiogram: techniques for accurate recording
- Nursing reading and interpretation of an ECG
- Arrhythmias
- Certain arrhythmic conditions associated with cardiac surgery - nursing monitoring and surveillance.

- Introduction to venous access: definitions and classification.
- Peripheral venous access: indications and contraindications, insertion sites, materials and types of catheters.
- Central venous access: types (CVC, PICC, port-a-cath), clinical indications, main characteristics.
- Principles of asepsis and prevention of infections associated with venous access devices.
- Nursing management of venous access: dressing and care of the insertion site, maintenance of patency (flushing and locking), infusion management.
- Recognition and management of main complications: local and systemic infections, occlusion and thrombosis, dislodgement or malposition, phlebitis and infiltration.
- Patient safety in venous access management.
- The nurse's role in assessment, monitoring, and management of venous access devices.
- Discussion of clinical cases and practical scenarios.
- Interdisciplinary discussion and review of updated guidelines.

COURSE STRUCTURE

The Bachelor's Degree in Nursing provides a total of 2 university educational credits (CFUs) to be dedicated to internship activities in the first year of the course. Each CFU corresponds to 30 hours, therefore the total internship hours in the first year of the course amount to 60 hours.

Attendance at seminar activities is mandatory for all students enrolled in the Bachelor's Degree program.

ASSESSMENT CRITERIA

The Seminar Activity exam consists of a written examination, the assessment of which is an integral part of the overall evaluation of the course. All the contents indicated in the course syllabus will be assessed. The evaluation will assess the student's knowledge and understanding, ability to apply knowledge and understanding, and autonomy of judgment, weighted at 30%, 30%, and 10%, respectively, in the final score.

The evaluation criteria considered will be: acquired knowledge; autonomy of judgment; communication skills; and learning ability. The final examination will be assessed according to the following criteria:

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| fail | The candidate possesses an inadequate knowledge of the topic, makes significant errors in applying theoretical concepts |
| pass | The candidate possesses an adequate knowledge of the topic and good ability to apply theoretical concepts |

OPTIONAL ACTIVITIES

Students will have the opportunity to engage in theoretical/practical exercises and participate in seminars or laboratory activities.

RECOMMENDED READING

- Material provided by the professor.