

Teaching Guide of the subject

Year 2024 - 2025

SIMULATION I

Code: 106116

ECTS credits: 3

Titulation	Type	Course	Semester
2500891 Nursing	OB	2	Annual

Contact	Use of languages
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Prerequisites

This subject does not have official academic prerequisites but it is recommended to have acquired the competencies of the subjects of Evolution of Nursing Care and Thinking and Methodological Bases of Nursing.

It is a requirement that the student has signed the confidentiality commitment, in order to carry out the clinical simulation practice.

Contextualization and objectives

This subject is part of the Clinical Nursing subject and is planned in the third and fourth semesters of the Bachelor's Degree in Nursing. It is linked to the set of subjects that provide the theoretical foundation that will act as a reference for reflection in and from action.

This practical experience makes simulated clinical situations available to the student that allow them to apply the knowledge, skills and attitudes learned and at the same time develop new knowledge and acquire the necessary skills to be able to offer nursing care.

The purpose of the subject is to facilitate the integration of theoretical knowledge, skills and attitudes specific to the degree, as well as to apply a work methodology based on Virginia Henderson's model.

Learning objectives of the subject

1. Integrate into professional practice the knowledge, skills and attitudes associated with the competencies of the practitioner, incorporating professional values, care communication skills, clinical reasoning, clinical management and critical judgment.
2. Use the nursing care process as a scientific methodology in interventions in clinical practice to provide and guarantee the well-being, quality and safety of the people cared for and in problem solving.
3. To provide comprehensive nursing care, to the individual, the family and the community, with quality criteria and based on scientific evidence and available means.
4. Perform clinical techniques and nursing procedures, establishing a therapeutic relationship with patients and family members.
5. Reflect on and on practice with the theoretical and practical references that the student acquires.

Competencies and learning outcomes

Competence	Learning Outcomes
SPECIFIC	
E01 Provide technical and professional health care appropriate to the health needs of the people they serve, in accordance with the state of development of scientific knowledge at any given time and with the levels of quality and safety established in the applicable legal and deontological standards.	E01.12 Demonstrate skill in executing basic and advanced life support manoeuvres. E01.22 Demonstrate skill in the execution of nursing procedures and techniques.
E07 Demonstrate that they understand people without prejudice, considering their physical, psychological and social aspects, as autonomous and independent individuals, ensuring respect for their opinions, beliefs and values, guaranteeing the right to privacy, through confidentiality and professional secrecy.	E07.12 Apply a respectful relationship with the user/family/health team, without making value judgments. E07.13 Respect the principles of privacy, confidentiality and professional secrecy in all care carried out.
E08 Promote and respect the right to participation, information, autonomy and informed consent in the decision-making of the people served, according to the way in which they live their disease process.	E08.07 Respect the right of participation in the decision-making set of people in their own care, according to the way they live their health process.
E10 Protect the health and well-being of the people, family or groups served, guaranteeing their safety.	E10.13 Use protection and safety measures to ensure well-being and minimise the risk associated with care.
E12 Demonstrate knowledge of the ethical and deontological code of Spanish nursing, understanding the ethical implications of health in a changing global context.	E12.05 Apply the ethical and deontological code of nursing in all areas of nursing activity.
E17 Carry out nursing care based on comprehensive health care, which involves multi-professional cooperation, integration of processes and continuity of care.	E17.02 Value and treat people in a holistic, tolerant and non-judgmental manner.
E20 Use scientific methodology in their interventions.	E20.08 Use scientific evidence in healthcare practice.
GENERAL / BASIC	
G01. To introduce changes in the methods and processes of the field of knowledge in order to provide innovative responses to the needs and demands of society.	G01.03. Acquire and use the necessary tools to develop a critical and reflective attitude.
G04. Act within the field of self-knowledge by assessing inequalities based on sex/gender.	G4.07 Communicate with a non-sexist and non-discriminatory use of language.
B01 Students must have demonstrated that they understand and have knowledge in an area of study that is based on general secondary education, and is usually at a level that, although based on advanced textbooks, also includes some aspects that involve knowledge from the forefront of that field of study.	
B03. Students must have the ability to gather and interpret relevant data (usually within their area of study) to make judgments that include reflection on salient social, scientific, or ethical issues.	

B05. Students must have developed those learning skills necessary to undertake further studies with a high degree of autonomy.

Content

MODULE 1. BASIC CARE

1.- Breathing normally:

- Cardi-respi-digestive auscultation of adults.
- Support for oxygenation: nasal prongs, venturi masks, masks with reservoir, high-flow nasal cannulas. Gas conditioning. Aspiration of secretions, Guedel's cannula.
- Basic and basic life support with AED, adult and pediatric.

2.- Eat and drink properly:

- Nasogastric Probing (NGS)
- Percutaneous endoscopic gastrostomy (PEG)
- SNG by enteral feeding.
- Parenteral nutrition.

3.- Eliminate by all body routes:

- Intermittent and permanent bladder catheterization
- Rectal Removal
- Rectal probing. Enema.

4.- Move and maintain proper postures:

- Bed-chair transfers, body mechanics.
- Closed/surgical bed construction.
- Assisted mobilization in bed, postural changes, prevention of pressure injuries.

5.- Maintain body temperature within normal limits, adequate and modifying the environment.

6.- Maintain body hygiene and skin integrity:

- Maintain hygiene, skin integrity and posture.
- Bath in bed.
- Oral, eye, ear and genital hygiene.
- Occupied bed preparation.

7.- Avoid environmental hazards and avoid injuring other people:

- Hand washing.
- Skin asepsis.
- Personal protective equipment (PPE and insulation)
- Surgical field preparation and sterile material handling.
- Preparation and administration of drugs: PO, parenteral route (ID, SC, IM), nasal, ophthalmic and rectal route.
- Preparation and administration of drugs: inhalation, nebulization. Insulin therapy.
- Safety in the administration of pharmacological treatments.
- Sample collection: standard analysis and arterial blood gases.
- Vascular accesses (I): peripheral venous catheter (PVC) cannulation, serotherapy, and administration of EV medication.
- Vascular accesses (II): assessment and care of CVC, PVC size.
- Wound care (I): surgical wound and drainage. Pleural and mediastinal drainage.
- Wound care (II): skin care in colostomies, ileostomy/jejunostomy. Injuries associated with humidity. Pressure injuries.

8.- Communicate with others by expressing emotions, needs, fears and opinions.

- Adult assessment interview.

MODULE 2. ADVANCED CARE

9.- Avoid dangers

- Wound care (III): sutures, debridement, chronic wounds.
- Umbilical care.
- Pediatric assessment and examination: Somatometry: weight, height and head circumference.
- Vaccination of children and adults.
- Diabetic foot review, vascular examination and calculation of the ABI.
- Fastening, containment, comprehensive and functional embenages.
- Advanced life support, adult and pediatric.
- Blood transfusion.

10.- Communicate with others by expressing emotions, needs, fears and opinions:

- Therapeutic intervention in adults.
- Assessment interview in the elderly.
- Interview in preventive and health promotion activities (PAPPS I)
- Interview in preventive and health promotion activities (PAPPS II).
- Nursing assessment in Mental Health (I).
- Therapeutic Communication in Mental Health (II).

Methodology

The main objective of Advanced Clinical Skills Practices (PHCAs) and Advanced Clinical Simulation Practices (PSCAs) is to acquire more or less complex clinical skills through exposure to simulated techniques, procedures, and care situations. The learning sessions of the PHCAs and the PSCAs (or simulation-based experiences, EBS) are carried out with the presence of instructors-facilitators who guide the training activity, and are based on interactive work between the teacher and the students, so the active participation of the student in the proposed activities is essential.

Directed activity:

- It consists of 3 phases:
 - Prebriefing: in order to carry out these practices and prior to the training sessions, students must work on the theoretical contents of each procedure, so they require autonomous work outside the classroom.
 - Simulation activity in the classroom: learning techniques, procedures, application of protocols and management of care situations.
 - Classroom feedback / Debriefing: in the zone 1 sessions (techniques and procedures) direct feedback is mainly used in the classroom. In zone 2 sessions, group reflection is mainly used later on stage and identification of learning.
- It is done in a small group.
- The group assignment and schedule are published in the virtual classroom.

Self-employed activity:

Study of the Procedure Guide and the specific documents for each skill and reading of the specific information and, if applicable, the corresponding clinical case.

Training activities

Activity	Hours	ECTS	Learning Outcomes
Type: Directed · Advanced Clinical Skills Practices (PHCA) and Advanced Clinical Simulation Practices (PSCA)	48,75	1,95	<i>E01.12, E01.22, E07.12, E07.13, E08.07, E10.13, E12.05, E17.02, E20.08, G01.03, CG04.07</i>
Type: Self-employed · Personal study. · Bibliographic consultations and documents. · Delivery of reports.	22,5	0,9	<i>B01, B03, B05, G01.03, G04.07</i>

The teaching staff will allocate approximately 15 minutes once the subject is finished to allow them to students can answer the assessment surveys on the teaching performance and the subject.

Evaluation

Evaluation is formative and continuous. The level of achievement of the objectives and skills acquired during the clinical practices in simulation is evaluated.

Attendance at simulation practices is mandatory

Assessment instruments:

- 1.- Prebriefing test: For each workshop, the student will be evaluated by means of a knowledge test, published in the classroom, in relation to the preparation of the skill.
- 2.- On-site formative assessment and qualifying assessment of competence acquisition: participation, analytical skills, reasoning and synthesis of learning in the scenario. The student has the evaluation rubric published in the classroom.
- 3.- Practical skills test at the end of each module.

Requirements:

It will be essential that students carry out the sessions fully uniformed (practice pyjamas and clogs, hair up, nails without polish, without hanging earrings, etc.).

Students must commit to respecting the regulations established for the simulation program, described in the virtual classroom and, at the beginning of the subject, they will sign a document of commitment and confidentiality.

In addition, PHCA/PSCA may require video recordings, so students must authorise this recording in order to carry out the activity. The recordings will be kept during the academic year for academic reasons and will be deleted later.

Attendance at skills and compliance with the schedule are mandatory. Roll call will be taken before each session.

- **Attendance is mandatory in all scheduled hours and assigned times.**
- **We understand as a justified absence of attendance:**
 1. Death of a family member of the first and second degree of consanguinity.
 2. Acute disease
 3. Scheduled medical visit
 4. Driving licence test
 5. Official university exam
 6. Official language tests
 7. Attend to the care of minors or dependents in isolation or closures of schools, residential centers, etc.
 8. Other cases approved by the EUI-Sant Pau.
- **Communication of absences:** The student must inform the person in charge of the subject as soon as possible.

- **Unexcused absences:**
 1. The student who is missing 5 skills in an unjustified way will not be evaluated and will not be able to take the practical skill test.
 2. Students who miss 1-4 EBS without justification will receive a penalty of 0.5 points from the final grade of the subject for each skill they have missed.
- **Justified absences:** Students who lack any skill must take the prebriefing knowledge test(s) and present an official receipt from a doctor so that the absence is considered as justified. The student who misses more than 10 skills in a justified way will not be evaluated.

The final grade of the subject is obtained from the weighted average according to the percentage of the assessment instruments, provided that:

1. Prebriefing: the average is >5
2. Debriefing: the average is >5
3. Practice tests: both must be >5

Qualification

- 0 to 4.9: Fail
- 5.0 to 6.9: Pass
- 7.0 to 8.9: Remarkable
- 9.0 to 10: Excellent. (In the event that the student has obtained a grade equal to or higher than 9, he/she may opt, at the discretion of the teacher, for an honors degree).

Recovery activity

- **Continuous assessment in the classroom:** given the characteristics of the teaching typology of Simulation, the recovery of any of the continuous assessment activities in the classroom is not contemplated.
- **Practical skill test:** Recoverable in the same form and nature as the failed test.

Not assessable

When the student has not provided sufficient evidence to allow an overall grade of the subject, the grade of "Not assessable" will appear in the record.

They are grounds for lack of sufficient evidence if the student does not participate in one or all of the practical skill tests.

Review of the evaluation

- **Continuous evaluation:** for each workshop, the student receives feedback from the teacher, in the classroom.
- **Tests of acquired skills.** Once the final grade has been published, the student can request the review in the period determined for the "review". Requests for review on dates outside the established limit will not be accepted.

Procedure in case of copying/plagiarism

1. Copying or **plagiarism** in any type of assessment activity is a crime, and will be penalised with a 0 as the grade of the subject, losing the possibility of recovering it, whether it is an individual or group work (in this case, all members of the group will have a 0).
2. If during the completion of an individual project in class, the teacher considers that a student is trying to copy or is discovered some type of document or device not authorised by the teaching staff, it will be graded with a 0, with no retake option, and therefore, the subject will be suspended.
3. A work, activity or exam is considered to be "copied" when it reproduces all or a significant part of the work of oneself or another classmate.
4. A work or activity will be considered "plagiarized" when a part of a text by an author is presented as one's own without citing the sources, regardless of whether the original sources are on paper or in digital format.

Aspects of assessment related to values and attitudes

1. The teacher may reduce the grade of the subject by between 1 and 2 points when the student repeatedly does not respect the indications of behavior in the classroom and/or disturbs the normal functioning of the classroom.
2. "No disrespect for colleagues or teachers will be tolerated. Homophobic, sexist or racist attitudes will not be tolerated either. Any student in whom any of the attitudes described above are detected will be classified as failing the subject."

Other considerations

All the evaluation tests will be published in the daily program and in the calendar of the training and evaluation activities.

Evaluation activities

Activity	Weight	Hours	ECTS	Learning Outcomes
Continuous assessment in the classroom:	60%			
- Multiple choice items (Prebriefing knowledge).	30%			
- Assistance and active participation (D1)	20%	3.75	0.15	<i>E01.12, E01.22, E07.12, E07.13, E08.07, E10.13, E12.05, E17.02, E20.08, G01.03, G04.07</i>
- Case evaluations Practical and problem-solving (integration and demonstration of prebriefing knowledge (D2).	10%			
Practical Skill Tests	40%			

Bibliography

Books:

Suzanne C. Smeltzer, Brenda Bare, Janice L. Hinkle, Kerry H. Cheever. Brunner and Suddarth. Medical-surgical nursing. 2016. 12th Ed. Lippincott Williams & Wilkins.
ISBN 8416654514, 9788416654512.

Sarah Renton, Claire McGuinness and Evelyn Strachan. Clinical nursing procedures. 2021. 6th Edition. Elsevier. ISBN 9788491139058

The healthcare simulation standards of best practice

<https://www.inacsl.org/healthcare-simulation-standards>

Roussin CJ, Weinstock P. SimZones: An Organizational Innovation for Simulation Programs and Centers Acad Med. 2017; 92:1114–1120. doi: 10.1097/ACM.0000000000001746

The bibliography to be consulted for each PHCA / EBS is specified in the corresponding section of Moodle

Teaching platforms

- Moodle

