

STUDY GUIDE

Critical Care Nursing

Organised by
Polytechnic University of Viseu

1. IDENTIFYING DATA.		
• Course Name.	Critical Care Nursing	
• Coordinating University.	Polytechnic University of Viseu	
• Partner Universities Involved.	N/A	
• Course Field(s).	Nursing	
• Related Study Programme.	Bachelor	
• ISCED Code.	913	
• SDG.	3	
• Study Level.	Bachelor (B)	
• EUNICE Key Competencies	<ul style="list-style-type: none"> • Green – strongly • Orange- moderately • Red – partially • Blank cell - not at all 	
	Problem solving	Moderately
	Teamworking	Moderately
	Communication	Moderately
	Self-management	Strongly
	Cognitive flexibility	Strongly
	Digital competence	Moderately
	Technical competence	Moderately
	Global intercultural competence	Strongly

• Number of ECTS credits allocated.	3
• Mode of Delivery.	Online live and online self-study
• Language of Instruction.	English
• Course Dates.	04/11/2025 – 06/01/2026
• Precise Schedule of the Lectures.	<p>8 synchronous sessions: 4th November (15h00-17h00 CET), 2025; 11th November (15h00-17h00 CET), 2025; 18th November (15h00- 17h00 CET), 2025; 25th November (15h00- 17h00 CET), 2025; 2nd December (15h00- 17h00 CET), 2025; 9th December (15h00-17h00 CET), 2025; 16th December (15h00- 17h00 CET), 2025; 6 th January (15h00- 17h00 CET), 2026; Exame date – 13th January (15h00 – 17h00 CET), 2026.</p> <p>8 asynchronous sessions.</p>
• Key Words.	Critical Care, Emergency Nursing
• Catchy Phrase.	Saving lives is what we do

• Prerequisites and co-requisites.	EUNICE student.
• Recommendation	English Level: B2.
• Number of EUNICE students that can attend the Course.	18
• Course inscription procedure(s).	Eunice Application Portal

2. CONTACT DETAILS.

• Department.	School of Health
• Name of Lecturer.	Mauro Mota
• E-mail.	maurolopesmota@gmail.com
• Other Lecturers.	--

3. COURSE CONTENT.

- Polytrauma
- Severely burnt patient
- Decompensated diabetes
- Acute edema of the lung
- Acute Coronary Syndrome
- State of shock
- Advanced Life Support - Algorithm
- Peri-arrest rhythms.

4. LEARNING OUTCOMES.

To deepen knowledge about the theoretical foundations of nursing in the context of complex processes of critical illness and/or organ failure, allowing the development of critical thinking about nursing care;

Expand skills for the production and application of advanced scientific knowledge, as well as for autonomous, reflective and evidence-based decision making.

5. OBJECTIVES.

Recognize the responses of the person in critical situation.

Define nursing interventions to the person in critical situation considering the focus of nursing practice.

Identify the causal factors, symptomatology, diagnostic methods, therapeutic and preventive measures directed at the person in critical situation.

Recognize the importance of research in the context of nursing intervention with people in critical situations.

6. COURSE ORGANISATION.

UNITS

- | | |
|----|----------------------------|
| 1. | Lecture. |
| 2. | Document Analysis. |
| 3. | Research and Presentation. |

LEARNING RESOURCES AND TOOLS.

The professor will provide PPT, articles and supporting documents.

PLANNED LEARNING ACTIVITIES AND TEACHING METHODS.

Lectures, personal research.

7. ASSESSMENT METHODS, CRITERIA AND PERIOD.

The assessment methodology will be presented at the beginning of the curricular unit and is based on one of the following proposals: individual written test or development of individual work (graded from 0 to 20). A student with a classification equal to or higher than 10 points is considered to have passed. Special examination period is available for students who do not obtain a positive classification. In the exam, assessment in the form of an individual written test (graded from 0 to 20) is subject to a pass with a classification equal to or higher than 10.

OBSERVATIONS.

8. BIBLIOGRAPHY AND TEACHING MATERIALS.

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- Mota, M. A., Santos, M. R., Santos, E. J., Henriques, C., Matos, A., & Cunha, M. (2021). Trauma Prehospital Hypothermia Prevention and Treatment: An Observational Study. *Journal of Trauma Nursing | JTN*, 28(3), 194-202. DOI: 10.1097/JTN.0000000000000583
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- Rossaint, R., Afshari, A., Bouillon, B. et al. The European guideline on management of major bleeding and coagulopathy following trauma: sixth edition. *Crit Care* 27, 80 (2023). <https://doi.org/10.1186/s13054-023-04327-7>.
- Soar, J., Böttiger, B. W., Carli, P., Couper, K., Deakin, C. D., Djärv, T., ... & Nolan, J. P. (2021). European resuscitation council guidelines 2021: adult advanced life support. *Resuscitation*, 161, 115-151.
- Thiele, H., Ohman, E. M., de Waha-Thiele, S., Zeymer, U., & Desch, S. (2019). Management of cardiogenic shock complicating myocardial infarction: an update 2019. *European Heart Journal*, 40(32), 2671-2683.
- Vivó C, Galeiras R, del Caz MD. Initial evaluation and management of the critical burn patient. *Med Intensiva*. 2016 Jan-Feb;40(1):49-59. doi: 10.1016/j.medin.2015.11.010.