

STUDY GUIDE

Critical Care Nursing 26-27 S1

Organised by

Polytechnic Institute of Viseu

1. IDENTIFYING DATA.		
· Course Name.	Critical Care Nursing 26-27 S1	
· Coordinating University.	Polytechnic Institute of Viseu	
· Partner Universities Involved.	--	
· 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	Orange
	Teamworking	Orange
	Communication	Orange
	Self-management	Green
	Cognitive flexibility	Green
	Digital competence	Orange
	Technical competence	Orange
	Global intercultural competence	Green

· Number of ECTS credits allocated.	3
· Mode of Delivery.	Online live and Online self-study
· Language of Instruction.	English

· Course Dates.	Semester 1/ Winter Semester
· Precise Schedule of the Lectures.	8 synchronous sessions: 3th November (15.00-17.00 CET), 2026; 10th November (15.00-17.00 CET), 2026; 17th November (15.00- 17.00 CET), 2026; 24th November (15.00- 17.00 CET), 2026; 3rd December (15.00- 17.00 CET), 2026; 9th December (15.00-17.00 CET), 2026; 15th December (15.00- 17.00 CET), 2026; 5 th January (15.00- 17.00 CET), 2027; 8 asynchronous sessions.
· Exam date	Exame date - 12 th January (15.00- 17.00 CET) 2027
· 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
Number of EUNICE students that can attend the course per institution	5
· 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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- Fayfman, M., Pasquel, F. J., & Umpierrez, G. E. (2017). Management of hyperglycemic crises: diabetic ketoacidosis and hyperglycemic hyperosmolar state. *Medical Clinics*, 101(3), 587-606.
- Hill, B., & Mitchell, A. (2020). Hypovolaemic shock. *British Journal of Nursing*, 29(10), 557-560.
- Ingbar DH. Cardiogenic pulmonary edema: mechanisms and treatment - an intensivist's view. *Curr Opin Crit Care*. 2019 Aug;25(4):371-378. doi: 10.1097/MCC.0000000000000626.
- 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
- Mota, M., Cunha, M., Santos, M., Santos, E., Melo, F., Abrantes, T., & Santa, A. (2020). Prehospital interventions to prevent hypothermia in trauma patients: A scoping review. *Australian Journal of Advanced Nursing*, 37(3).
- 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.