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|  | **UNIVERSITY OF EAST SARAJEVO**  Faculty of Medicine | |  |
| ***Study program: Medicine*** | |
| Integrated academic studies | V study year |

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| **Full course title** | INTENSIVE MEDICINE |
| **Department** | Department of Internal medicine, Faculty of Medicine in Foča |

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| **Course code** | **Course status** | **Semester** | **ECTS** |
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| МЕ-04-2-056-10 | elective | X | 1 |

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| **Teacher/-s** | Prof. Dr Peđa Кovačević; doc.dr Marijana Кovačević;doc.dr Verica Prodanović; doc.dr Jelena Vladičić Mašić, prof.dr Sanja Marić; prof.dr Vekoslav Mitrović; doc.dr Saša Dragić. |
| **Associate/ - s** |  |

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| **The number of teaching hours/ teaching workload (per week)** | | | **Individual student workload (in hours per semester)** | | | | **Coefficient of student workload So[[1]](#endnote-1)** |
| L | E | SP | L | | E | SP | **So** |
| 1 | 0 | 0 | 15 | | 0 | 0 | 1 |
| Total teaching workload (in hours, per semester)  1\*15+0\*15+0\*15=15 | | | | Total student workload (in hours, per semester)  1\*15\*1+0\*15\*1+0\*15\*1=15 | | | |
| Total subject workload (teaching+student): 15+15=30 hours per semester | | | | | | | |

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| **Learning outcomes** | Intensive care is a young branch of medical science that deals with the diagnosis and treatment of critically ill patients (usually at the tertiary level of treatment). Acute deterioration of health caused by a sudden illness or in the field of a long-term chronic disease requires admission to the Intensive Care Unit (ICU), and the application of all principles of intensive care.  The application of modern principles of diagnosis and treatment of these patients is based on the support of one or more organs that have failed, and on various methods of invasive and non-invasive respiratory and hemodynamic monitoring.  After completing one-semester classes in Intensive Care Medicine, the student is able to:  1. recognizes the critically ill in time;  2. understands what activities (skills and knowledge) need to be carried out for the purpose of early resuscitation |
| **Preconditions** | Precondition for taking the exam: Passed the exam Internal Medicine |
| **Teaching methods** | Interactive lectures, workshops, case studies, problem-based learning |
| **Course content per week** | **Lectures:**  1.and 2. Week:  **Cardiovascular problems and coronary care** (Management of the resuscitated Post/Cardiac arrest patients, management of Hypotension and Cardiogenic Shock, Acute aortic syndrome, Management of Acute coronary syndrome in the Intensive Care Unit (ICU), Ventricular and supraventricular tachycardia in ICU, and Temporary Cardiac pacing).(2 Hour)  3.and 4. Week  **Pulmonary problems in the Intensive Care Unit** (*Acute respiratory failure, Acute Respiratory Distress Syndrome – ARDS, Chronic Obstructive Pulmonary Diseases – COPD, Status Asthmatics, Mechanical ventilation / invasive and non invasive, Pneumona*). (2 Hour)    5.and 6. Week:  **Renal problems in the Intensive Care Unit** (*Acid – Base disturbances, electrolyte disorders, Acute Kidney injury in the Intensive Care Unit,* Hemodialysis in ICU). (2 Hour)  7. and 8. Week:  **Infectious disease problems in the Intensive Care Unit** (*Approach to fever in the Intensive Care Unit,Intrahospital infections, The use of antimicrobials in the treatment of infection in the Critically Ill patients*). (2 Hour)  9. and 10. Week:  **Gastrointestinal and hepatobiliary problems in the Intensive Care Unit**(*Gastrointestinal bleeding – stress ulcer syndrome, Variceal bleeding, Diarrhea and toxic megacolon, Acute pancreatitis, Acute liver failure, Intra-abdominal sepsis, Mesenteric ischemia, Nutritional support in the Intensive Care Unit*). (2 Hour)  11. Week:  **Poisonings**(*basic therapeutic principles*). (1 Hour)  12. and 13. Week:  **Neurologic problems in the Intensive Care Unit** (Altered consciousness, Status epilepticus, Cerebrovascular disease, Subarachnoid Hemorrhage, The G-B Syndrome, infectious diseases of the central nervous system-  meningitis and encephalitis) (2 Hour)  14. and 15. Week:  **Hematologic and Endocrine problems in the Intensive Care Unit** (*Thrombocytopenia in the Critical Care patients, Venus thrombosis and related disorders in the Critical Care Patients, Anemia and transfusion in the Critical care patient, Management of Hyperglycemia in the Critically Ill patients – Ketoacidosis, Hypoadrenal Crisis, Hypoglicemia*). (2 Hour)  . |

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| **Compulsory literature** | | | |
| **Author/-s** | **Publication title, publisher** | Year | Pages (from-to) |
| Irwin R, Lilly C, Rippe J. | Manual of Intensive Care Medicine. 6th ed. Philadelphia: Lippincot Wiliams & Wilkins; 2014. | 2014. |  |
| Marino P. | The ICU Book. 4Th ed. Philadelphia: Lippincot Wiliams & Wilkins; 2014. | 2014. |  |
| **Additional literature** | | | |
| **Author/-s** | **Publication title, publisher** | Year | Pages (from-to) |
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| **Student responsibilities, types of student assessment and grading** | **Grading policy** | Points | Percentage |
| Pre-exam activities | | |
| lecture/exercise attendance | 10 | 10% |
| seminar paper | 40 | 40% |
| Final exam | | |
| Written test | 50 | 50% |
| TOTAL | 100 | 100 % |

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| **Certification date** | Septembar 09th .2021 |

\* the number of necessary rows is added by using *insert mode*

1. [↑](#endnote-ref-1)