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|  | UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN |
|  |  **Course sylabus – part A** |
| **48SJ-EMEDM** |  |
| **2024L** |  |
| **ECTS: 4.00** |  |

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| **SUBJECT MATTER CONTENT:**Advanced life support (ALS) in adults and children according to ERC 2021. Post-resuscitation care. Prehospitalcare of trauma patient–„ Stay and play” or „Scoop and run”? Head trauma in ED. Musculoskeletal trauma -radiological diagnostics and treatment in ED. The role of ED in care and diagnostics of patients with acuteischemic stroke.SEMINARS: Multi-organ injuries, the role of the Trauma Centre and Trauma Team. Multi-organcasualty – discussion of the medical case based on Evidence Based Medicine. Bases of fluid therapy. Practicalbasis of ECG. Introduction to Disaster Medicine. Bioterrorism in the world- threat, Role of Emergency MedicalServices in Distaster Management and PreparednessThe specificity of work in the emergency department (ED. Triage in the emergency department. Patientsmonitoring in the ED. Advanced life support (ALS) in adults and children including electrotherapy. Dealing withtrauma patients in the emergency department. Patients with impaired circulation and respiration - diagnosis andtreatment of ED. Acute neurological conditions including CNS trauma, seizures and stroke. Therapeuticprocedures in the emergency department. Diagnostic procedures in the emergency department with particularemphasis on radiological examination. Introduction to ITLS. Prehospital care of trauma patients. The preliminarysurvey, fast trauma examination. Treatment of patients with head trauma, and cervical spine injury. Diagnosticimaging in trauma in Emergency Department. Spine injuries- transport safety, diagnosis, initial stabilization inED. Pelvic trauma. Musculoskeletal injuries- X-ray imagining**TEACHING OBJECTIVE:**The aim of the course is to acquaint students with the specifics of the medical work in the emergency department and to prepare students for performing the diagnosis and treatment of primary and most common emergencies. The aim of the course is to prepare the student to making quick, accurate and critical decisions while working in the emergency department**DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:****Symbols for outcomes related to the discipline:**M/NM++++++++++, M/NMA\_P7S\_KO+++, M/NMA\_P7S\_KR+++, M/NMA\_P7S\_UW+++++++**Symbols for outcomes related to the field of study:**K.3.+, K.5.+, K.2.+, F.U10.+, F.U11.+, F.U21.+, F.U22.+, E.U14.+, F.U7.+, F.U8.+**LEARNING OUTCOMES (Knowledge, Skills, Social competence):**

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| **K1**  | Respects medical confidentiality and patient's rights. |
| **K2**  |  noticing and recognizing own limitations and self-assessment of deficits and educational needs |
| **K3**  | Guided by the good of the patient putting them in the first place. |
| **U1**  | F.U10 Performs basic resuscitation procedures using an automatic external defibrillator and other rescueoperations and first aid |
| **U2**  | F.U11. act in accordance with the algorithm of advanced resuscitation procedures; |
| **U3**  | F.U21. assess the condition of an unconscious patient in accordance with international point scales; |
| **U4**  | F.U22. recognise symptoms of growing intracranial pressure; |
| **U5**  | E.U14. recognise immediately life-threatening conditions |
| **U6**  | F.U7. assess the results of radiological tests for the most frequent types of fractures, especially long bone fractures; |
| **U7**  | F.U8. immobilise a limb temporarily, select the type of immobiliser necessary in typical clinical situations, and control the correct blood flow in the limb once the immobilising dressing has been applied; |
| **W1**  | F.W1. causes, symptoms, principles of diagnostic and therapeutic procedures for the most commondiseases requiring surgical intervention, both adults and children, in particular: 1) acute and chronic abdominaldiseases, 2) chest diseases, 3) limb and head diseases, 4) bone fractures and organ injuries; |
| **W2**  | He knows the current guidelines for cardiopulmonary resuscitation of newborns, children and adults |
| **W3**  | F.W10. the issues of the contemporarily employed imaging tests, especially: 1) radiological symptomatology of the basic diseases,2) the instrumental methods and imaging techniques used in medical surgeries,3) the indications, contraindications, and patient preparation for individual types of imaging tests, and contraindications against the use of contrast agents; |

**TEACHING FORMS AND METHODS:**

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| Lecture-['W1', 'U1', 'K1', 'W2', 'U2', 'K2', 'W3', 'U3', 'K3', 'U4', 'U5', 'U6', 'U7']-multimedia presentation-Advanced life support (ALS) in adults and children according to ERC 2021. Post-resuscitation care. Prehospitalcare of trauma patient–„ Stay and play” or „Scoop and run”? Head trauma in ED. Musculoskeletal trauma -radiological diagnostics and treatment in ED. The role of ED in care and diagnostics of patients with acuteischemic stroke. |
| Seminar-['W1', 'U1', 'K1', 'W2', 'U2', 'K2', 'W3', 'U3', 'K3', 'U4', 'U5', 'U6', 'U7']-multimedia presentation, case report, discussion-SEMINARS: Multi-organ injuries, the role of the Trauma Centre and Trauma Team. Multi-organcasualty – discussion of the medical case based on Evidence Based Medicine. Bases of fluid therapy. Practicalbasis of ECG. Introduction to Disaster Medicine. Bioterrorism in the world- threat, Role of Emergency MedicalServices in Distaster Management and Preparedness |
| Classes-['W1', 'U1', 'K1', 'W2', 'U2', 'K2', 'W3', 'U3', 'K3', 'U4', 'U5', 'U6', 'U7']-CLINICAL CLASSES-The specificity of work in the emergency department (ED. Triage in the emergency department. Patientsmonitoring in the ED. Advanced life support (ALS) in adults and children including electrotherapy. Dealing withtrauma patients in the emergency department. Patients with impaired circulation and respiration - diagnosis andtreatment of ED. Acute neurological conditions including CNS trauma, seizures and stroke. Therapeuticprocedures in the emergency department. Diagnostic procedures in the emergency department with particularemphasis on radiological examination. Introduction to ITLS. Prehospital care of trauma patients. The preliminarysurvey, fast trauma examination. Treatment of patients with head trauma, and cervical spine injury. Diagnosticimaging in trauma in Emergency Department. Spine injuries- transport safety, diagnosis, initial stabilization inED. Pelvic trauma. Musculoskeletal injuries- X-ray imagining |

**FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:**

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| Lecture-(Evaluation of the work and cooperation in the group)-['W1', 'U1', 'K1', 'W2', 'U2', 'K2', 'W3', 'U3', 'K3', 'U4', 'U5', 'U6', 'U7']-Evaluation of the work and cooperation in the group |
| Seminar-(Evaluation of the work and cooperation in the group)-['W1', 'U1', 'K1', 'W2', 'U2', 'K2', 'W3', 'U3', 'K3', 'U4', 'U5', 'U6', 'U7']- |
| Classes-(Written exam)-['W1', 'U1', 'K1', 'W2', 'U2', 'K2', 'W3', 'U3', 'K3', 'U4', 'U5', 'U6', 'U7']-Single-choice test, 100 questions |

**Literature:**

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| 1. ***ERC GUIDELINES 2021",***, ERC, ERC, 2021, Strony: , Tom: (literatura podstawowa)  |

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| **Legal acts specifying learning outcomes:** 672/2020 (Medicine), **Status of the course:** **Group of courses:****Discipline**: Medicine**Program:** Medicine**Form of studies:**full-time**Level of studies:** uniform master's studies |

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| **Introductory subject:** anathomy, physioloy, internal medicine, pediatrics, neurology, anesthesiology and intensive care**Prerequisites:** basic information from the enumerated subjects |

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| **Coordinators:****Rakesh Jalali, rakesh.jalali@uwm.edu.pl** |

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|  | UNIVERSITY OF WARMIA AND MAZURY IN OLSZTYN |
|  | **Detailed description of ECTS credits awarded - part B** |
| **48SJ-EMEDM** |  |
| **2024L** |  |
| **ECTS: 4.00** |  |

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

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| - participation in:  | 20 h |
| - participation in:  | 10 h |
| - participation in:  | 50 h |
| - consultation | 2 h |
|  | Total: 82 h |

2. Independent work of a student:

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|  | 10.00 h |
|  | 8.00 h |
|  | Total: 18.00 h |

Total (contact hours + independent work of a student): 100.00 h

1 ECTS credit = 25-30 h of an average student’s work, number of ECTS,

ECTS Points = 100.00 h : 25 h/ECTS = **4.00** ECTS

Average: 4.00 ECTS

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| - including the number of ECTS credits for contact hours with the direct participation of an academic teacher | 3.28 ECTS |
| - including the number of ECTS credits for hours of independent work of a student | 0.72 ECTS |