**description of the course of study**

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| **Course code** | **0912-7LEK-C9.5-IT** |
| **Name of the course in**  | **Polish** | Intensywna terapia – praktyki wakacyjne |
| **English** | Intensive care - practice during holidays |

1. **LOCATION OF THE course OF STUDY within the system of studies**

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| **1.1. Field of study** | Medicine |
| **1.2. Mode of study** | Full-time |
| **1.3. Level of study** | Uniform Master’s studies |
| **1.4. Profile of study\*** | practical |
| **1.5. Person preparing the course description** |  |
| **1.6. Contact** |  |

1. **General characteristicS of the course of study**

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| **2.1. Language of instruction** | English |
| **2.2. Prerequisites\*** | Accomplishment in anesthesiology and intensive care |

1. **DETAILED CHARACTERISTICS OF THE COURSE OF STUDY**

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| * 1. **Form of classes**
 | Lectures: 60 |
| * 1. **Place of classes**
 | Practical classes |
| * 1. **Form of assessment**
 | Credit with grade |
| * 1. **Teaching methods**
 | Case study |
| * 1. **Bibliography**
 |  **Required reading** | Smith T, Pinnock C, Lin T. Podstawy anestezjologii. Wyd.3. (red. wyd. pol. A. Kański) DB Publishing, Warszawa 2012.Szreter T. Anestezjologia i intensywna terapia u dzieci. Urban & Partner. Wrocław 2007.Rybicki Z. Intensywna terapia dorosłych. Makmed (wyd.2) Lublin 2009. Andres J. (red.) Wytyczne resuscytacji 2010. (wyd.1) Kraków 2011. |
|  **Further reading** | Kohl BA, Rosenbaum SH, Fleisher LA. (red. wyd. pol. M. Wujtewicz) Znieczulenie pacjentów zbyt chorych, żeby ich znieczulać. Elsevier Urban & Partner, Warszawa 2013.Kruszyński Z, Anestezjologia i intensywna terapia położnicza. Wydawnictwo Lekarskie PZWL, Warszawa 2013.Sprigings D, Chambers JB, (red. wyd. pol.) P. Müller. Stany nagłe w medycynie. (wyd.1). Górnicki Wydawnictwo Medyczne, Wrocław 2011. Muller S, Thons M. Stany zagrożenia życia u dzieci. (wyd.1), Wydawnictwo Lekarskie PZWL, Warszawa 2012.  Kübler A, Mysiak A. Choroba poresuscytacyjna. Elsevier Urban & Partner, Wrocław 2005.Szreter T. Intensywna terapia dziecięca. Wydawnictwo Lekarskie PZWL (wyd.1), Warszawa 2002. Rybicki Z. Intensywna terapia dorosłych - kompendium. Makmed (wyd.1) Lublin 2010.Dobrogowski J, Wordliczek J. Medycyna bólu. Wydawnictwo Lekarskie PZWL (wyd.1); Warszawa 2004.  Dobrogowski J, Wordliczek J. Ból pooperacyjny. Medyczne Wydawnictwo Multimedialne (wyd.1) , Kraków 2000. Drobnik L, Kowalski G. Analgezja regionalna. Skrypt. Poznań 2012.Szreter T. Anestezjologia pediatryczna. Wydawnictwo Lekarskie PZWL (wyd.1) Warszawa 2013. Hennessey I.A.M. (red. wyd. pol. J. Smereka, A.G. Japp). Gazometria krwi tętniczej - to proste. Elsevier Urban & Partner, Warszawa 2008.Wordliczek J, Dobrogowski J. Leczenie bólu. Wydawnictwo Lekarskie PZWL (wyd.2); Warszawa 2011.Stack C, Dobbs P, (red. wyd. pol. K. Kubicka). Podstawy intensywnej terapii dzieci. PZWL (wyd. 1) Warszawa 2007.  |

1. **Objectives, syllabus CONTENT and intended LEARNING outcomes**

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| * 1. **Course objectives (including form of classes)**

**C1** - **Acquiring knowledge** about the specifics of anesthesiology and intensive care (adults and children) as well as risk management in the interdisciplinary area of perioperative medicine;**C2** - **Developing skills** to manage risk and optimize perioperative safety at all stages of guiding the patient (adult and child) through perioperative experience, i.e. in the pre-hospital, hospital and post-hospital period. |

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| **Code** | **A student, who passed the course** | **Relation to teaching****outcomes** |
| U01 | conduct a review of medical history of the child and its family; | E.U2.  |
| U02 | conduct full and targeted physical examination of the adult patient; | E.U3.  |
| U03 | assess patient’s general condition, consciousness and awareness; | E.U7.  |
| U04 | assess and describes the somatic and mental state of patients; | E.U13.  |
| U05 | recognize states of a direct threat to life; | E.U14.  |
| U06 | plan diagnostic, therapeutic and preventive procedures; | E.U16.  |
| U07 | recognize states in which functional status of the patient's or his/her preferences restrict the treatment in accordance with specific guidelines for the disease; | E.U21.  |
| U08 | interpret laboratory test results and identify the reasons for deviations; | E.U24.  |
| U09 | plan treatment in the case of exposure to infection transmitted through blood; | E.U26.  |
| U10 | collect and secure samples of material used in laboratory diagnostics | E.U28.  |
| U11 | perform basic medical procedures and treatments, including:1) measurement of body temperature, pulse measurement, non-invasive blood pressure measurement, 2) monitoring of vital signs using a cardio-monitor or pulse oximetry, 3) spirometry, oxygen therapy, assisted and control mode ventilation 4) introduction of the oropharyngeal tube, 5) intravenous injection , intramuscular and subcutaneous injections, cannulation of peripheral veins, collection of peripheral venous blood, collection of arterial blood, collection arterialized capillary blood,6) collecting swabs from the nose, throat and skin, puncture of pleural cavity, 7) catheterization of the urinary bladder in women and me, nasogastric intubation, gastric lavage, enema, 8) standard electrocardiogram along with its interpretation, cardioversion and defibrillation of the heart, 9) simple test strips and measuring the concentration of glucose in the blood; | E.U29.  |
| U12 | assist when the following procedures and medical treatments are performed: 1) transfusions of blood and blood products,2) drainage of the pleural cavity, 3) puncture of the pericardium, 4) puncture of the peritoneal cavity, 5) lumbar puncture, 6) needle biopsy, 7) epidermal tests, 8) intradermal and scarification tests and interpret their results; | E.U30.  |
| U13 | plan specialist consultations;  | E.U32.  |
| U14 | implement the basic therapeutic procedure in acute poisoning; | E.U33.  |
| U15 | monitor the status of a patient poisoned by chemical substances or drugs | E.U34. |
| U16 | keep medical records of the patient. | E.U38. |
| U17 | comply with the aseptic and antiseptic rules; | F.U3. |
| U18 | use peripheral venous catheter | F.U5. |
| U19 | examine nipples, lymph nodes, thyroid gland and the abdominal cavity in terms of acute abdomen and perform finger test through the anus; | F.U6. |
| U20 | perform basic resuscitation with automated external defibrillator and other rescue activities and provide first aid; | F.U10. |
| U21 | act in accordance with the current algorithm of advanced life support activities | F.U11. |
| U22 | monitor the patient’s condition during the postoperative period on the basis of basic parameters of life; | F.U12. |
| U23 | assess the condition of the unconscious patient in accordance with applicable international scales; | F.U21. |
| U24 | recognize the symptoms of increasing intracranial pressure; | F.U22. |
| U25 | assess indications for suprapubic puncture and participate in its execution | F.U23. |
| U26 | act in such a way as to avoid medical errors; | G.U8. |
| U27 | collect blood for toxicological studies and secure the material for hemogenetic research. | G.U9. |
| U28 | observe patients' rights; | D.U15 |

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| **Criteria of assessment of the intended teaching outcomes** |
|  |  | Number of points |
| 1. | Conducting medical interview. | 0-10 |
| 2. | Conducting physical examination. | 0-10 |
| 3. | Keeping the differential diagnosis of the most common diseases. | 0-10 |
| 4. | Interpretation of laboratory tests. | 0-10 |
| 5. | Assessment of patient condition. | 0-10 |
| 6. | Planning diagnostic, preventive and therapeutic proceedings as well as specialist consultations. | 0-10 |
| 7. | Execution of the procedures and medical treatments. | 0-10 |
| 8. | Take preventive and curative activities in a life-threatening situation. | 0-10 |
| 9. | Keeping good medical records. | 0-10 |
| 10. | Ethical and legal aspects of treatment (communication with patients, compliance with professional secrecy, cooperation with the team, a critical analysis of their own activities, identification with the professional role) | 0-10 |
|  | Total | 100 |
|  | Satisfactory | 51-60 |
|  | More than satisfactory | 61-70 |
|  | Good | 71-80 |
|  | More than good | 81-90 |
|  | Very good | 91-100 |
| **Evaluation methods** |
| Daily clinical assessment (evaluation procedure for each procedure) | A single direct observation (observation while receiving one patient) | Long-term observation (total evaluation of many aspects of competence for a long time) | Self-assessment of student |
| X |  | X | X |
| Overview of record (stimulated assessment based on the patient card) | Critical summation assessment of the task (use of biomedical knowledge in making optimal decisions) | 360-Degree Assessment (evaluation by members of the clinical team and patients) | Triple JumpExercise -TJE: 1. gathering medical information2. description of actions3. oral exam. |
| X |  |  |  |
| The Clinical Competency Examination – performance of certain tasks and procedures in a patient in a clinical conditions) | Objective Structured Clinical Examination (OSCE) | Other Assessment Methods |  |
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| * 1. **Methods of assessment of the intended teaching outcomes**
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| **Teaching** **outcomes*****(code)*** | **Method of assessment (+/-)** |
| **Exam oral/written\*** | **Test\*** | **Project\*** | **Effort** **in class\*** | **Self-study\*** | **Group work\***  | **Others\*** |
| ***Form of classes*** | ***Form of classes*** | ***Form of classes*** | ***Form of classes*** | ***Form of classes*** | ***Form of classes*** | ***Form of classes*** |
| *W* | *C* | *CP* | *W* | *C* | *CP* | *W* | *C* | *CP* | *W* | *C* | *CP* | *Practice (Hospital)* | *W* | *C* | *CP* | *Practice (Hospital)* |
| U01 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U02 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
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| U03 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U04 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U05 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U06 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U07 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U08 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U09 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U10 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U11 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U12 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U13 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U14 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U15 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U16 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U17 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U18 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U19 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U20 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U21 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U22 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U23 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U24 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U25 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U26 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U27 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U28 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |

1. **BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT**

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| **Category** | **Student's workload** |
| **Full-time****studies** |
| *NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/* | **60** |
| *Participation in lectures\** |  |
| *Participation in classes, seminars, laboratories\** |  |
| *Preparation in the exam/ final test\** |  |
| *Others\** |  |
| *INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/* |  |
| *Preparation for the lecture\** |  |
| *Preparation for the classes, seminars, laboratories\** |  |
| *Preparation for the exam/test\** |  |
| *Gathering materials for the project/Internet query\** |  |
| *Preparation of multimedia presentation* |  |
| *Others (please specify e.g. e-learning)\** |  |
| *TOTAL NUMBER OF HOURS* | **60** |
| ECTS credits for the course of study | **2** |

***\*delete as appropriate***