*Attachment No. 1 to Rector’s ordinance No. /2016*

**description of the course of study**

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| **Course code** | **0912-7LEK-C9.7-S** |
| **Name of the course in**  | Polish | Chirurgia – praktyka wakacyjna |
| English | Surgery –holiday work placement |

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 study |
| **1.4. Profile of study\*** | practical |
| **1.5. Specialization\*** | lack |
| **1.6. Unit running the course of study** | Faculty of Medicine and Health Sciences, Department of General Surgery, Oncology and Endocrinology Kielce |
| **1.7. Person/s preparing the course description** |  |
| **1.8. Person responsible for the course of study** |  |
| **1.9. Contact** |  |

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

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| **2.1. Affiliation with the module** | Clinical teaching and practice |
| **2.2. Language of instruction** | Mandatory |
| **2.3. Semesters in which the course of study is offered** | English |
| **2.4. Prerequisites\*** | 10th |
|  | Passed classes of surgery |

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

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| * 1. **Form of classes**
 | Practice: 60 hours |
| * 1. **Place of classes**
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| * 1. **Form of assessment**
 | Practice: credit with grade |
| * 1. **Teaching methods**
 | Case study |
| * 1. **Bibliography**
 | **Required reading** | 1. Principles and Practice of Surgery, by O. James Garden, Andrew W. Bradbury, 6th Edition2. Essential Surgery: Problems, Diagnosis and Management, Clive R. G. Quick, Joanna B. Reed, 5th Edition |
|  **Further reading** | 1. Current Diagnosis and Treatment Surgery, Gerard Doherty, 14th Edition2. Churchill's Pocketbook of Surgery, Andrew T. Raftery, Michael S. Delbridge, 5th Edition |

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

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| * 1. **Course objectives *(practice)***

Purpose of course* Learning characteristic of work in surgical ward.
* Learning rules about doctor’s work in surgical ward.
* Learning rules about preparing patient to routine and emergency operation.
* Getting knowledge about wound healing process.
* Getting knowledge about impact of trauma for organism and shock treatment.
* Getting basic knowledge about most common types of head, neck, chest, abdomen and limbs injuries.
* Getting basic knowledge about burns and frostbites and their treatment.
* Getting basic knowledge about acute surgical diseases: appendicitis, cholecystitis, ileus, stomach or duodenum perforation, peritonitis, gastrointestinal hemorrhage
* Getting basic knowledge about most common types of neoplasms: lung cancer, breast cancer, colorectal cancer and stomach cancer
* Getting basic knowledge about: hernias, pancreas diseases, gallstones, portal hypertension and it’s complications.
* Getting knowledge about common chronic disorders of vascular system: acute and chronic lower limb ischemia, aortic aneurysm, chronic venous insufficiency.
* Getting knowledge about rules of surgical treatment of acute coronary syndrome and valvular heart disease.
* Knowing most common postoperative complications and rules of prevention.
* Getting knowledge about transplant surgery, metabolic surgery and treatment of surgical infections
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**4.3 Education outcomes in the discipline**

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| **Code** | **A student, who passed the course** | **Relation to teaching****outcomes** |
| within the scope of **ABILITIES:** |
| U01 | conducts a review of medical history of the adult patient; | E.U1. |
| U02 | conducts full and targeted physical examination of the adult patient; | E.U3. |
| U03 | assesses patient’s general condition, consciousness and awarenes;  | E.U7. |
| U04 | performs differential diagnosis of the most common diseases in adults and children; | E.U12. |
| U05 | assesses and describes the somatic and mental state of patients; | E.U13. |
| U06 | recognizes states of a direct threat to life;  | E.U14. |
| U07 | recognizes when a patient is under the influence of alcohol, drugs and other addictive products;  | E.U15. |
| U08 | plans diagnostic, therapeutic and preventive procedures; | E.U16. |
| U09 | conducts analysis of the potential side effects of each drug and the interaction between them; | E.U17. |
| U10 | proposes individualization of existing guidelines and other therapeutic treatments in the case of non-effectiveness of or contraindications to standard therapy; | E.U18. |
| U11 | recognizes signs of drug dependency and proposes a treatment procedure; | E.U19. |
| U12 | qualifies the patient for home treatment and hospitalization;  | E.U20. |
| U13 | defines 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. |
| U14 | interprets laboratory tests/results and identifies the reasons for deviations | E.U24. |
| U15 | applies dietary treatment (including enteral and parenteral feeding);  | E.U25. |
| U16 | plans treatment in the case of exposure to infection transmitted through blood; | E.U26. |
| U17 | collects samples of material used in laboratory diagnostics;  | E.U28. |
| U18 | performs basic medical procedures and treatments, including:a) measurement of body temperature, pulse measurement, non-invasive blood pressure measurement, b) monitoring of vital signs using a cardio-monitor or pulse oximetry, c) spirometry, oxygen therapy, assisted and control modeventilation d) introduction of the oropharyngeal tube,e) intravenous injection , intramuscular and subcutaneous injections, cannulation of peripheral veins, collection of peripheral venous blood, collection of arterial blood, collection arterialized capillary blood,f) collecting swabs from the nose, throat and skin, puncture of pleural cavity, g) catheterization of the urinary bladder in women and me, nasogastric intubation, gastric lavage, enema, h) standard electrocardiogram along with its interpretation, cardioversion and defibrillation of the heart, i) simple test strips and measuring the concentration of glucose in the blood; | E.U29. |
| U19 | assists when the following procedures and medical treatments are performed: a) transfusions of blood and blood products,b) drainage ofthe pleural cavity, c) puncture of the pericardium, d) puncture of the peritoneal cavity, e) lumbar puncture, f) needle biopsy, g ) epidermal tests, h) intradermal and scarification tests and interpret their results; | E.U30. |
| U20 | interprets descriptions of pharmaceutical medicines and critically assesses advertising materials relating to medicines; | E.U31. |
| U21 | plans specialist consultations;  | E.U32. |
| U22 | evaluates decubitus and applies appropriate dressings; | E.U35. |
| U23 | acts correctly in the case of injuries (uses dressing or immobilization, stitches the wound); | E.U36. |
| U24 | recognizes the agony of the patient and pronounces him/her dead;  | E.U37. |
| U25 | keeps medical records of the patient | E.U38. |
| U26 | assists during a typical surgery, prepares the surgical site and locally anesthetized operated area; | F.U1. |
| U27 | uses basic medical tools; | F.U2. |
| U28 | complies with the aseptic and antiseptic rules;  | F.U3. |
| U29 | manages simple wounds and changes sterile surgical dressing | F.U4. |
| U30 | uses peripheral venous catheter;  | F.U5. |
| U31 | examines nipples, lymph nodes, thyroid gland and the abdominal cavity in terms of acute abdomen, and performs finger test through the anus; | F.U6. |
| U32 | assesses radiological test result in terms of the most common types of fractures, especially fractures of long bones; | F.U7. |
| U33 | performs temporary immobilization of a limb, selects the type of immobilization necessary for use in typical clinical situations and checks blood supply to the limbs after using the cast; | F.U8. |
| U34 | manages external bleeding; | F.U9. |
| U35 | performs basic resuscitation with automated external defibrillator and other rescue activities and provides first aid; | F.U10. |
| U36 | assesses the condition of the unconscious patient in accordance with applicable international scales; | F.U21. |
| U37 | recognizes the symptoms of increasing intracranial pressure; | F.U22. |
| U38 | assesses indications for suprapubic puncture and participates in its execution; | F.U23. |
| U39 | tries to avoid medical errors in his/her own professional activities; | G.U6. |
| U40 | collects blood for toxicological studies and secures the material for hemogenetic research inaccordance with given principles. | G.U7. |
| U41 | observes patients' rights, including the right to protection of personal data, the right to privacy, the right to respect for dignity, the right to information about the state of health, the right to confidentiality of patient information, the right to give informed consent to treatment or withdrawal from it, the right for health benefits, , the right to report an adverse effect of medicinal product and the right to a dignified death | D.U14 |

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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*** |
| *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* |
| ...W01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| … |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ...U01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ...K01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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***\*delete as appropriate***

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| **Criteria for evaluation of obtained education outcomes** |
|  | Number of points |
| Conducts medical history | 0-10 |
| Conducts physical examination | 0-10 |
| Conducting the differential diagnosis of the most common diseases | 0-10 |
| Interpretation of laboratory tests | 0-10 |
| Assessment of patient condition | 0-10 |
| Plans diagnostic, prophylactic and therapeutic proceedings as well as specialist consultations | 0-10 |
| Performance of the procedures and medical treatments | 0-10 |
| Taking preventive and curative measures in a life-threatening situation | 0-10 |
| Keeping medical reocords | 0-10 |
| 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 proceeding 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 the student |
|  |  |  | X |
| The overview of record (stimulated assessment based on the patient) | 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 jump exercise (TripleJumpExercise -TJE): 1. Collection of intelligence and examination of the patient 2. Description of the actions 3. Oral exam |
| X |  | X | X |
| Clinical competence 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. **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\** | **60** |
| *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\** |  |
| *TOTAL NUMBER OF HOURS* | **60** |
| ECTS credits for the course of study | **2** |

***Accepted for execution*** *(date and signatures of the teachers running the course in the given academic year)*

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