**description of the course of study**

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| **Course code** | 0912-7LEK-C9.4-I | |
| **Name of the course in** | Polish | **Choroby wewnętrzne – praktyki wakacyjne** |
| English | **Internal diseases - 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\*** | General academic |
| **1.5. Person preparing the course description** | prof. dr hab. n. med. Marianna Janion |
| **1.6. Contact** | wnoz\_ipp@ujk.edu.pl |

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

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| **2.1. Language of instruction** | English |
| **2.2. Prerequisites\*** | Passing classes with internal diseases |

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

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| * 1. **Form of classes** | | **Summer internships** |
| * 1. **Place of classes** | | Learning practical skills in a clinical environment |
| * 1. **Form of assessment** | | **Credit with grade** |
| * 1. **Teaching methods** | | **Case study** |
| * 1. **Bibliography** | **Required reading** | 1. Harrison's Principles of Internal Medicine, Vol. 1 & Vol. 2; 19th Edition. Authors: Longo, Dan; Fauci, Anthony; Jameson, J.; Hauser, Stephen; Kasper, Dennis; Loscalzo, Joseph;  2.Podstawy badania klinicznego / Basics in Clinical Examination. Piotr Zaborowski. 2016 |
| **Further reading** | 1.Kumar and Clark's Clinical Medicine, 8th or 9th Edition by Parveen Kumar, Michael L Clark.  2.Bates' Guide to Physical Examination and History-Taking by Lynn Bickley, Lippincott Williams & Wilkins 2012 |

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

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| * 1. **Course objectives *(practice)***   Knowledge transfer in the field of internal medicine  Preparing the student to:  • independent planning a diagnostic procedure and interpreting its results;  • conducting a differential diagnosis  • planning therapeutic procedure and predicting the consequences of the actions planned in hospital and ambulatory environment.  Building practical skills in the field of interviewing, physical examination, internal medicine symptomatology, conducting basic diagnostic tests  Development of attitude:  • in relationships: doctor – patient, doctor – therapeutic team  • ethical attitude according to ethical rules  complying with legal regulations |
| * 1. **Detailed syllabus (practice)**   1. Student takes medical history from adult patient and performance full physical examination.  2. Evaluates and describing the somatic and psychiatric patients state.  3. Evaluates and describing the somatic and psychiatric patients state.  4. Student recognizes life-threatening conditions and alcohol, narcotics and other drug abuse.  5. Student plans diagnostic, therapeutic and preventive procedures. Analyze possible side effects of therapy and drug interactions. Proposes individualization of actual guidelines and another treatment in case of non-response to drug. Student qualifies patients to hospital treatment.  6. Interprets laboratory test results and identifies cause of abnormalities.  7. Student plans a clinical nutrition (including enteral administration and parenteral nutrition). Plans a procedures in case of possible blood-transmitted infection.  8. Student takes samples for various laboratory tests.  9. Performs main doctor’s procedures:  a) measurements of body temperature, pulse rate, blood pressure and respiration rate  b) monitoring of vital parameters by a cardiac monitor and heart rate monitor  c) performing spirometry test, oxygen treatment  d) using oropharyngeal airway  e) subcutaneous, intravenous, intramuscular injection, getting venous catether, taking blood samples,  f) getting swab from the nose, oral cavity, skin, thoracentesis  g) urinary catherization (female and male), gastric lavage,  h) getting and interpretation of the ECG, electric cardioversion, defibrillation  i) measurments of blood glucose level by a glucometer  10. Student plans basic treatment in acute poisoning.  11. Monitors state of patient poisoned by a chemical substances or drugs. Identifies agony and patient’s death  12. Runs patients medical documentation  13. Works using aseptic and antiseptic principles.  14. Student gets venous catethers, examines breasts, lymph nodes, thyroid gland and abdomen, performs rectal examination, performs basic life support (BLS) using defibrillator and other emergency procedures. Student tries not to make any mistakes in his actions. |

**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**, the graduate knows how to: | | |
| U01 | conduct a review of medical history of the adult patient; | E.U1. |
| 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 | perform differential diagnosis of the most common diseases in adults and children; | E.U12. |
| U05 | assess and describe the somatic and mental state of patients; | E.U13. |
| U06 | recognize states of a direct threat to life; | E.U14. |
| U07 | recognize when a patient is under the influence of alcohol, drugs and other addictive products; | E.U15. |
| U08 | plan diagnostic, therapeutic and preventive procedures; | E.U16. |
| U09 | conduct analysis of the potential side effects of each drug and the interaction between them; | E.U17. |
| U10 | propose individualization of existing guidelines and other therapeutic treatments in the case of non-effectiveness of or contraindications to standard therapy; | E.U18. |
| U11 | recognize signs of drug dependency and propose a treatment procedure; | E.U19. |
| U12 | qualify the patient for home treatment and hospitalization; | E.U20. |
| U13 | 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. |
| U14 | interpret laboratory test results and identify the reasons for deviations; | E.U24. |
| U15 | apply dietary treatment with the consideration of enteral and parenteral feeding; | E.U25. |
| U16 | plan treatment in the case of exposure to infection transmitted through blood; | E.U26. |
| U17 | collect and secure samples of material used in laboratory diagnostics; | E.U28. |
| U18 | 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. |
| U19 | implement the basic therapeutic procedure in acute poisoning; | E.U33. |
| U20 | monitor the status of a patient poisoned by chemical substances or drugs; | E.U34. |
| U21 | recognize the agony of the patient and pronounce him/her dead; | E.U37. |
| U22 | keep medical records of the patient; | E.U38. |
| U23 | comply with the aseptic and antiseptic rules; | F.U3. |
| U24 | use peripheral venous catheter; | F.U5. |
| U25 | examine nipples, lymph nodes, thyroid gland and the abdominal cavity in terms of acute abdomen, and perform finger test through the anus; | F.U6. |
| U26 | perform basic resuscitation with automated external defibrillator and other rescue activities and provides first aid; | F.U10. |
| U27 | act in such a way as to avoid medical errors; | G.U8. |
| U28 | collect blood for toxicological studies and secure the material for hemogenetic research; | G.U9. |
| U29 | observes patients' rights; | D.U15. |

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|  | within the scope of **SOCIAL COMPETENCE**, the graduate is able to: |  |
| K01 | establish and maintain deep and respectful contact with the patient and show understanding towards ideological and cultural differences; | H.S1 |
| K02 | do what is right for the patient; | H.S2 |
| K03 | respect medical confidentiality and patient’s rights; | H.S3 |
| K04 | take actions concerning the patient on the basis of ethical principles, being aware of social conditions and restrictions resulting from illness; | H.S4 |
| K05 | recognize his/her own limitations and self-evaluate educational deficiencies and needs; | H.S5 |
| K06 | promote healthy lifestyle; | H.S6 |
| K07 | use reliable information sources; | H.S7 |
| K08 | conclude on the basis of own surveys and observations; | H.S8 |
| K09 | introduce rules of social conduct and teamwork to the group of specialists, including specialists form other medical professions also in the multicultural and multinational environment; | H.S9 |
| K10 | give opinions concerning various aspects of professional activity; | H.S10 |
| K11 | take responsibility for own decisions made during professional activities including own safety and safety of other people; | H.S11 |

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| **4.4. Methods of assessment of the intended teaching outcomes** | | | | | | | | | | | | | | | | | |
| **Teaching**  **outcome** | **Exam oral/written\*** | | | **Test\*** | | | **Project\*** | | | **Effort**  **in class\*** | | | **Self-study\*** | **Others\***  **Practical exam** | | | **Observation** |
| ***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* | *...* | ***Practice (hospital)*** | ***Practice (hospital)*** | | | ***Practice***  ***(hospital)*** |
| ...U01 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U02 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U03 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U04 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U05 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U06 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U07 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U08 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U09 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U010 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U011 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U012 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U013 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U014 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U015 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U016 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U017 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U018 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U019 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U020 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U021 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U022 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U023 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U024 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U025 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U026 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U027 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U028 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| U029 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  | ***+*** |
| K01-K11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |

***\*delete as appropriate***

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| **4.5. Criteria of assessment of the intended teaching outcomes** | | | |  |
|  | | | | Number of points |
| Conducting medical interview. | | | | 0-10 |
| Conducting physical examination. | | | | 0-10 |
| Keeping the differential diagnosis of the most common diseases. | | | | 0-10 |
| Interpretation of laboratory tests. | | | | 0-10 |
| Assessment of patient condition. | | | | 0-10 |
| Planning diagnostic, preventive and therapeutic proceedings as well as specialist consultations. | | | | 0-10 |
| Execution of the procedures and medical treatments. | | | | 0-10 |
| Take preventive and curative activities in a life-threatening situation. | | | | 0-10 |
| Keeping good medical records. | | | | 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 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 Jump  Exercise -TJE:  1. gathering medical information  2. description of actions  3. 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 |  | |

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/* | **120** |
| *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\** |  |
| *TOTAL NUMBER OF HOURS* | **120** |
| ECTS credits for the course of study | **4** |

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

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