**description of the course of study**

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| **Course code** | **0912-7LEK-F-20-M** | |
| **Name of the course in** | Polish | **Metody diagnostyki patomorfologicznej i molekularnej** |
| English | **Methods of pathological and molecular diagnostics** |

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\*** | General academic |
| **1.5. Person preparing the course description** | Prof. dr hab. n. med. Anna Nasierowska-Guttmejer |
| **1.6. Contact** | anna.nasierowska@cskmswia.pl |

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

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| **2.1. Language of instruction** | English |
| **2.2. Prerequisites\*** | none |

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

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| * 1. **Form of classes** | | Lecture- 15h (including 5 e-learning) |
| * 1. **Place of classes** | | Traditional classes in the didactic room of Faculty of Medicine and Health Sciences |
| * 1. **Form of assessment** | | Credit with grade |
| * 1. **Teaching methods** | | Informative lecture |
| * 1. **Bibliography** | **Required reading** | 1. 1. E. C. Klatt. Robbins and Cotran Atlas of Pathology, 3th Edition, 2015, Elsevier. |
| **Further reading** | 1.Alan Stevens MBBS FRCPath (Author), James S. Lowe BMedSci BMBS DM FRCPath Professor: Pathology |

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

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| * 1. **Course objectives *(lecture)***   C1.Getting to know basic and supplementary diagnostic methods.  C2.Knowing the importance of diagnostic methods to determine the diagnosis.  C3. Familiarization with diagnostic methods useful for cancer therapy.  C4. Understanding the role of a pathomorphologist in personalized therapy. |
| * 1. **Detailed syllabus *(lecture)***   ***1.***Methods of pathomorphological diagnosis primary and complementary immunohistochemical as well as molecular.  ***2.***The importance of diagnostic methods in recognition and assessment of predictors in personalized therapy |

**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 **knowledge**, the graduate knows and understands: | | |
| W01 | the clinical course specific and non-specific inflammations and describes the regeneration processes of tissues and organs; | C.W28. |
| W02 | the problems concerning specific organ pathology, macroscopic and microscopic images and the clinical course of pathological changes in various organs; | C.W31. |
| W03 | internal and external pathogens, both modifiable and non-modifiable; | C.W33. |
| within the scope of **ABILITIES**, the graduate knows how to: | | |
| U01 | make connection between images of tissue and organ damage and clinical symptoms of the disease, medical history and the results of laboratory determinations; | C.U11. |

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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 | ife st ife s ife style; | 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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| * 1. **Methods of assessment of the intended teaching outcomes** | | | | | | | | | | | | | | | | | | | | | |
| **Teaching**  **outcomes**  ***(code)*** | **Method of assessment (+/-)** | | | | | | | | | | | | | | | | | | | | |
| **Exam oral/written\*** | | | **Test\*** | | | **Project\*** | | | **Effort**  **in class\*** | | | **Self-study\*** | | | **Group work\*** | | | **Others\***  **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* | *…* | *L* | *C* | *…* | *L* | *C* | *…* | *L* | *C* | *…* |
| W01 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W02 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W03 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U01 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| K01-K11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |

***\*delete as appropriate***

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| * 1. **Criteria of assessment of the intended teaching outcomes** | | |
| **Form of classes** | **Grade** | **Criterion of assessment** |
| **lecture (L)** | **3** | From 61%-68%  Mastering program content at the elementary level, chaotic answers, guidance questionsnecessary |
| **3,5** | From 69%-76%  Mastering program content at the elementary level, systematized answers, teacher's help required |
| **4** | From 77%-84%  Mastering program content at the elementary level, systematized and independent responses. Solving problems in typical situations. |
| **4,5** | From 85%-92%  The scope of the presented knowledge goes beyond the basic level based on the provided supplementary literature. Solving problems in new and complex situations. |
| **5** | From 93%-100%  The scope of the presented knowledge goes beyond the basic level based on independently acquired scientific sources of information. |

* [**Thresholds**](https://pl.bab.la/slownik/angielski-polski/thresholds) **are valid from 2018/ 2019 academic year**

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/* | **15** |
| *Participation in lectures\** | **10** |
| *Participation in classes, seminars, laboratories\** |  |
| *Preparation in the exam/ final test\** |  |
| *Others\** | **51** |
| *INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/* | **10** |
| *Preparation for the lecture\** | **10** |
| *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* | **25** |
| ECTS credits for the course of study | **1** |

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

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1 e-learning (without participation of the lecturer)