**description of the course of study**

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| **Course code** | **0912-7LEK-F-17-PT** | |
| **Name of the course in** | Polish | **Patofizjologiatrzustki** |
| English | **Pathophysiology of the pancreas** |

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** | dr hab. prof. UJK Polewczyk Anna |
| **1.6. Contact** |  |

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

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| **2.1. Language of instruction** | **English** |
| **2.2. Prerequisites\*** |  |

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** | | Courses in the teaching rooms of the UJK |
| * 1. **Form of assessment** | | LECTURE – L |
| * 1. **Teaching methods** | | Conversational lecture, discussion. |
| * 1. **Bibliography** | **Required reading** | The Pancreas: An Integrated Textbook of Basic Science, Medicine, and Surgery, Beger H, Warshaw A et al. 2008 |
| **Further reading** | Pathology of the pancreas a practical approach, Campbell F, Vebeke C. 2013 |

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

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| * 1. **Course objectives *(including form of classes)***   C1. Obtaining extended information about pathophysiological processes of pancreas  C2. Differentiation of characteristic clinical symptoms of the pancreas dysfunction  C3. Knowledge of basic pancreas treatment methods |
| * 1. **Detailed syllabus *(including form of classes)***   1. Lecture 1. The pancreas detailed anatomy and physiology  2. Lecture 2. The pathophysiology of the pancreas – a cellular level.  3. Lecture 3. The pathophysiology of the pancreas – the effects of pancreas dysfunction  4. Lecture 4. Clinical symptoms of the pancreas dysfunction – differentiation.  5. Lecture 5. Methods of treatment of the pancreas disorders.  ***…*** |

* 1. **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 graduateknows and understands: | | |
| W01 | basic cellular structures and their functional specifications; | A.W4. |
| W02 | basic catabolic and anabolic pathways, methods of their regulation and the influence of genetic and environmental factors; | B.W15. |
| W03 | the metabolic profiles of basic organs and systems; | B.W16. |
| W04 | he ways of communication between cells as well as between the cell and the extracellular matrix and signal transduction pathways in the cell as well as examples of disorders in these processes leading to the development of tumors and other diseases; | B.W17. |
| W05 | the functions and mechanisms of regulation of all organs and systems of the human body, including the circulatory, respiratory, digestive, and urinary systems as well as skins and understands the dependence between them; | B.W21. |
| W06 | the relationship between the factors that disrupt the equilibrium of biological processes and physiological and pathophysiological changes; | B.W25. |
| within the scope of **ABILITIES**, the graduate knows how to: | | |
| U01 | operate the optical microscope, also making use of immersion; | A.U1. |
| U02 | describe changes in the functioning of the organism in case of disruption of homeostasis, in particular determines its integrated response to exercise, exposure to high and low temperature, loss of blood or water, sudden vertical position, transition from sleep to wakefulness; | C.U20. |
| U03 | perform simple function tests evaluating the human body as a system stable regulation (stress tests); interprets the figures on the basic physiological variables; | B.U7. |
| U04 | apply basic laboratory techniques, such as qualitative analysis, titration, colorimetry, pehametry, chromatography, electrophoresis of proteins and nucleic acids; | B.U8. |
| U05 | operate simple measuring instruments and evaluate the accuracy of measurements; | B.U9. |

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|  | within the scope of **SOCIAL COMPETENCE**, the graduateisable to: |  |
| K01 | establish and maintaindeep and respectfulcontact with the patient and show understandingtowardsideological and culturaldifferences; | H.S1 |
| K02 | do whatisright for the patient; | H.S2 |
| K03 | respectmedicalconfidentiality and patient’srights; | H.S3 |
| K04 | takeactionsconcerning the patient on the basis of ethicalprinciples, beingaware of socialconditions and restrictionsresulting from illness; | H.S4 |
| K05 | recognizehis/herownlimitations and self-evaluateeducationaldeficiencies and needs; | H.S5 |
| K06 | promotehealthylifestyle; | H.S6 |
| K07 | usereliableinformationsources; | H.S7 |
| K08 | conclude on the basis of ownsurveys and observations; | H.S8 |
| K09 | introducerules of socialconduct and teamwork to the group of specialists, includingspecialists form othermedicalprofessionsalso in the multicultural and multinational environment; | H.S9 |
| K10 | giveopinionsconcerningvariousaspects of professionalactivity; | H.S10 |
| K11 | takeresponsibility for owndecisionsmadeduringprofessionalactivitiesincludingownsafety and safety of otherpeople; | 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 | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W04 | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W05 | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W06 | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U01 | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U02 | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U03 | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U04 | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U05 | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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** | 61%-68% Learning programme content on the basic level, replies chaotic, leading questions necessary. |
| **3,5** | 69%-76% Learning programme content on the basic level, answers systematized, requires assistance from the teacher. |
| **4** | 77%-84% Learning programme content on the basic level, answers systematized, independent.  Solving problems in typical situations. |
| **4,5** | 85%-92% The scope of presented knowledge exceeds the basic level based on the supplementary literature provided. Solving problems in new complex situations. |
| **5** | 93%-100%The scope of presented knowledge exceeds 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 (withoutparticipation of the lecturer)