**description of the course of study**

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| **Course code** | **0912-7LEK-F-16-PN** |
| **Name of the course in** | Polish | **Patofizjologianerek** |
| English | **Pathophysiology of kidney** |

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. n. med. Andrzej Jaroszyński, prof. UJK  |
| **1.6. Contact** | Wnoz\_inm@ujk.edu.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 |
| * 1. **Form of assessment**
 | Credit with grade |
| * 1. **Teaching methods**
 | Informative lecture |
| * 1. **Bibliography**
 | **Required reading** | Copstead L-E., Banasik J.: Pathophysiology” Elsevier, 5th Edition, 2013Kumar V., Abbas A.K., Fausto N., Aster J.C. – “Robbins and Cotran Pathologic Basis of Disease” 8th ed. Saunders Elsevier 2010 |
|  **Further reading** | McPhee S.J., Hammer G.D: “Pathophysiology of Disease. An Introduction to Clinical Medicine” Lange Medical Books/Mc-Graw-Hill, 6th edition, 2010 Carol Mattson Porth – “Pathophysiology Concepts of Altered Health States”, 7th ed. Lippincott & Wilkins 2006 |

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

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

1.Understanding of the mechanisms underlying the selected kidney diseases2.Mastering knowledge of clinical symptoms associated with disorders of the excretory, secretory and regulatory function of the kidneys;3. Understanding the natural ways of compensating by the body adverse changes and functional reserves accompanying kidney diseases;4. Understanding the systemic consequences associated with kidney disease;5. Practical use of acquired knowledge. |
| * 1. **Detailed syllabus *(lecture)***

1. Pathogenesis of proteinuria / ephritic syndrome;2. Pathogenesis of the nephritic syndrome;3. The role of kidneys in hypertension;4. Pathophysiology of glomerulonephritis;5. Pathophysiology of acute renal failure;6. Pathophysiology of chronic kidney disease;7. Cardiovascular dysfunction in chronic kidney disease;8. Pathophysiology of tubular interstitial kidney diseases;9. Disorders of water and electrolyte management in kidney diseases;10. Disturbances in the acid-base economy in kidney diseases. |

* 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 graduate knows and understands: |
| W01 | the mechanism of hormones’ functioning; | C.W51. |
| W02 | the mechanisms of aging; | B.W23. |
| W03 | the relationship between the factors that disrupt the equilibrium of biological processes and physiological and pathophysiological changes; | B.W25. |
| W04 | the foundation for the diagnosis of gene and chromosome mutations responsible for hereditary and acquired diseases, including cancer; | C.W9. |
| W05 | clinical forms of most common diseases of various systems and organs, metabolic diseases and disorders of water-electrolyte balance and acid-base balance; | C.W34. |
| 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 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**
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| **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 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  |  |  |  |  |  |
| U01 |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |  |  |  |  |  |  |
| K01-K11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |

***\*delete as appropriate***

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| * 1. **Criteria of assessment of the intended teaching outcomes**
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| **Form of classes** | **Grade** | **Criterion of assessment** |
|  **lecture (L)** | **3** | 61%-68% Mastering program content at the elementary level, chaotic answers, necessary guidance questions. |
| **3,5** | 69%-76% Mastering program content at the elementary level, systematized answers, requires teacher's help required. |
| **4** | 77%-84% Mastering program content at the elementary level, systematized and independent responses.Solving problems in typical situations. |
| **4,5** | 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** | 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\** | **5** |
| *Preparation for the classes, seminars, laboratories\** |  |
| *Preparation for the exam/test\** | **5** |
| *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)