**description of the course of study**

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| **Course code** | **0912.4.LEK.D.TSA** |
| **Name of the course in**  | Polish | **Nieprawidłowości struktur tkankowych** |
| English | **Tissue structure abnormalites** |

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** | Agnieszka Radowicz- Chil MD, PhD |
| **1.6. Contact** | agarad@poczta.fm |

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

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| **2.1. Language of instruction** | English |
| **2.2. Prerequisites\*** | Secondary school-leaving examination in biology at the advanced level |

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

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| * 1. **Form of classes**
 | Classes: 15 h (10 h in the form of e-learning) |
| * 1. **Place of classes**
 | Practical: courses in teaching rooms of the UJK |
| * 1. **Form of assessment**
 | Exam: theoretical |
| * 1. **Teaching methods**
 | Lectures, practical classes, discussions |
| * 1. **Bibliography**
 |  **Required reading** | 1. Stevens Lowe’s Human Histology 4th edition2. Leslie P. Gartner Textbook of Histology 4th edition |
|  **Further reading** | Robbins Basic Pathology 9th edition |

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

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

**Within the course the students should:**C1. understand histology in the relevant context of disease pathogenesis;C2. know structure and structure-function relationship of tissues. |
| * 1. **Detailed syllabus *(lecture)***

1.Cellular adaptations to stress;2.Tissue injury and death;3. The morphology and mechanisms of tissue injury;4. Apoptosis;5. Tissue aging;6. Tissue calcification. |

**4.3 Intended learning outcomes**

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| **Code** | **A student, who passed the course** | **Relation to learning****outcomes** |
| within the scope of **knowledge**, the graduate knows an understands: |
| W01 | Human anatomy topographically and functionally, including topographical relations between individual organs along with anatomical, histological and embryological terminology in Polish and English; | A.W1. |
| W02 | Basic cellular structures and their functional specifications;  | A.W2. |
| W03 | Microarchitecture of tissues, extracellular matrix and organs;  | A.W3. |
| within the scope of **ABILITIES**, the graduate knows how to: |
| U01 | Operate the optical microscope, also making use of immersion;  | A.U1 |
| U02 | Recognize histological structures of organs, tissues, cells and cellular structures on the optical or histological microscope images, describe and interpret the structure and relations between the structure and the function;  | A.U2 |
| within the scope of **SOCIAL COMPETENCE**, the graduate is able to: |
| K01 | Recognize his/her own limitations and self-evaluate educational deficiencies and needs; | K.S5. |
| K02 | Use reliable information sources; | K.S7. |
| K03 | Give opinions concerning various aspects of professional activity; | K.S10. |
| K04 | Take responsibility for own decisions made during professional activities including own safety and safety of other people; | K.S11. |

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| * 1. **Methods of assessment of the intended learning 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 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W02 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W03 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U01 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U02 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| K01-K04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |

***\*delete as appropriate***

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| * 1. **Criteria of assessment of the intended learning outcomes**
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| **Form of classes** | **Grade** | **Criterion of assessment** |
|  **lecture (L)** | **3** | Learning programme content on the basic level, replies chaotic, leading questions necessary 61%-68% |
| **3,5** | Learning programme content on the basic level, answers systematized, requires assistance from the teacher 69%-76% |
| **4** | Learning programme content on the basic level, answers systematized, independent.Solving of problems in typical situations 77%-84% |
| **4,5** | The scope of presented knowledge exceeds the basic level based on the supplementary literature provided. Solving of problems in new complex situations 85%-92% |
| **5** | The scope of presented knowledge exceeds the basic level based on independently acquired scientific sources of information 93%-100% |

* [**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\** | **5** |
| *Participation in classes, seminars, laboratories\** |  |
| *Preparation in the exam/ final test\** |  |
| *Others\** | **10**1 |
| *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** |

***\*delete as appropriate***

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

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1 e-learning