**description of the course of study**

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| **Course code** | **0912-7LEK-F-12-Ef** | |
| **Name of the course in** | Polish | **Elektrofizjologia** |
| English | **Electrophysiology** |

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. Prof. UJK Anna Polewczyk |
| **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** | | Classes- 20h (including 5 of 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** | [MacLeod K T.](http://www.enbook.pl/catalogsearch/result/?q=MacLeod%20Kenneth%20T.)Essential Introduction to Cardiac Electrophysiology  [World Scientific Publishing UK](http://www.enbook.pl/catalogsearch/result/?q=World%20Scientific%20Publishing%20UK). 2014 |
| **Further reading** | Glover BM, Brugada P. Clinical Handbook of Cardiac Electrophysiology.[www.ebook777.com/clinical-handbook-cardiac-electrophysiology](http://www.ebook777.com/clinical-handbook-cardiac-electrophysiology).  Barold S, Mugica J. The Fifth Decade of Cardiac Pacing  www.Ebook777.com |

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

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| * 1. **Course objectives *(including form of classes)***   C1.Obtaining information about the use of electrophysiological tests  C2.Knowledge about the use of ablation in the treatment of arrhythmias  C3 Knowledge of electrotherapy complications |
| * 1. **Detailed syllabus *(including form of classes)***   1. Functional potential of working and pacing cells. Diagnosis of arrhythmias and electrophysiological procedures (5 hours)  2. Types of supraventricular arrhythmia and qualifications for ablation (5 hours)  3. Ventricular arrhythmia- diagnosis and therapy (5 hours)  4. Conduction disorders and qualifications for implantation of different kind of pacing systems (3 hours e-learning)  5. Electrotherapy complications (2 hours e-learning) |

* 1. **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 and understands: | | |
| W01 | basic principles of stimulation and conduction in the nervous system and higher nervous functions, as well as physiology of striated and smooth muscles and functions of blood; | B.W20. |
| W02 | 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 the dependence between them; | B.W21. |
| within the scope of **ABILITIES**, the graduate knows how to: | | |
| U01 | perform simple function tests evaluating the human body as a system stable regulation (stress tests) and interpret the figures on the basic physiological variables; | B.U7. |

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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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| * 1. **Methods of assessment of the intended learning 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 |  | ***+*** |  |  |  |  |  | ***+*** |  |  | ***+*** |  |  |  |  |  | ***+*** |  |  |  |  |
| U01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |

***\*delete as appropriate***

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| * 1. **Criteria of assessment of the intended learning outcomes** | | |
| **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% |
| **classes (C)\*** | **3** | From 61%-68% learning programme content on the basic level, replies chaotic, leading questions necessary. |
| **3,5** | From 69%-76% learning programme content on the basic level, answers systematized, requires assistance from the teacher. |
| **4** | From 77%-84% learning programme content on the basic level, answers systematized, independent. Solving of problems in typical situations. |
| **4,5** | From 85%-92% the scope of presented knowledge exceeds the basic level based on the supplementary literature provided. Solving of problems in new complex situations. |
| **5** | From 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/* | **20** |
| *Participation in lectures\** |  |
| *Participation in classes, seminars, laboratories\** | **15** |
| *Preparation in the exam/ final test\** |  |
| *Others\** | **51** |
| *INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/* | **5** |
| *Preparation for the lecture\** |  |
| *Preparation for the classes, seminars, laboratories\** | **5** |
| *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)