# DESCRIPTION OF THE COURSE OF STUDY

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| **Course code**  |  **0912-7LEK-D-EC** |
| **Name of the course in**  | Polish  |  **Elektrofizjologia w kardiologii** |
| English  |  **Electrophysiology in cardiology** |

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/s preparing the course description**  | dr Przemysław Dąbkowski |
| **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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| **3.1. Form of classes**  | Lectures – 15h (including 5 hours e-learning) |
| **3.2. Place of classes**  | Traditional classes in the didactic room of Faculty of Medicine and Health Sciences, e-learning platform |
| **3.3. Form of assessment**  | Credit with grade, credit |
| **3.4. Teaching methods**  | Informative lecture |
| **3.5. Bibliography**  |  **Required reading**  | Andrea Natale, Oussama M. Wazni, Kalyanam Shivkumar, Francis E. Marchlinski. Handbook of Cardiac Electrophysiology. 2nd Edition, 2020 |
|  **Further reading**  | Ken MacLeod. Essential Introduction To Cardiac Electrophysiology. Imperial College Press, 2014 |

1. **OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES**

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| **4.1. Course objectives *(including form of classes)*** C1. Obtaining information about cardiac arrhythmiasC2 Obtaining information on the indications for electrophysiological testing (EPS) and cardiac ablation and complications of EPS and ablationC3 Learning about the principles of pacing and the complications associated with implantable permanent pacing devices |
| **4.2. Detailed syllabus *(including form of classes)*** **Lectures** :1. Diagnostics of cardiac arrhythmias.2. Indications for electrophysiological examination and ablation of the heart. Complications of cardiac electrophysiological examination and ablation. Prevention and treatment.3. Indications for implantation of cardiac pacemakers - principles of cardiac stimulation. Complications related to implantable permanent pacing devices. |

**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 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. |
| U02 | operate simple measuring instruments and evaluate the accuracy of measurements | B.U9. |
|  | within the scope of **SOCIAL COMPETENCE** the graduate is able to**:** |
| K01 | recognize his/her own limitations and self-evaluate educational deficiencies and needs; | H.S5. |
| K02 | use reliable information sources; | H.S7. |
| K03 | give opinions concerning various aspects of professional activity; | H.S10. |
| K04 | take responsibility for own decisions made during professional activities including own safety and safety of other people; | H.S11. |

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| **4.4. 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  |  |  |  |  |  |  |  ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U02 |  |  |  |  |  |  |  ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| K01 –K04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ***+***  |  |  |

***\*delete as appropriate***

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| **4.5. Criteria of assessment of the intended learning outcomes**  |
| **Form of classes**  | **Grade**  | **Criterion of assessment**  |
| **Lectures (including e-learning)** | **3**  | 61%-68% |
| **3,5**  | 69%-76% |
| **4**  | 77%-84% |
| **4,5**  | 85%-92% |
| **5**  | 93%-100% |

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 (e-learning)\**  | 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** |

***\*delete as appropriate***

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

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1 e-learning