**description of the course of study**

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| **Course code** | **0912-7LEK-F-10-MP** |
| **Name of the course in** | Polish | **Racjonalna antybiotykoterapia** |
| English | **Rational antibiotic therapy** |

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** | Prof. zw. dr hab. Robert Bucki |
| **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 of Faculty of Medicine and Health Sciences UJK |
| * 1. **Form of assessment**
 | Credit with grade |
| * 1. **Teaching methods**
 | Informative lecture |
| * 1. **Bibliography**
 | **Required reading** | 1. Antibiotics Simplified by Jason C. Gallagher
2. Antibiotic Basics for Clinicians: The ABCs of Choosing the Right Antibacterial Agentby Alan R. Hauser
3. The Antibiotic Era: Reform, Resistance, and the Pursuit of a Rational Therapeuticsby Scott H. Podolsky
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| **Further reading** | 1. Web: if. Antybiotyki.edu.pl |

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

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| * 1. **Course objectives (including form of classes- lecture)**
* Extending the basic knowledge in the field of antibiotic therapy
* Understanding the perspectives of modern antibiotic therapy
* Understanding the applications of microbiological maps in predicting empirical therapy
* Understanding the basic pharmacokinetic and pharmacodynamic indicators of antibiotics
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| * 1. **Detailed syllabus (including form of classes-lecture)**

**Lecture 1** Antibiotic therapy in the era of increasing microbial resistance. Prospects for acquiring new antibiotics**Lecture 2** Basics of rational antibiotic therapy – targeted treatment**Lecture 3** Microbiological mapping of hospital wards: empirical therapy based on microbiological maps**Lecture 4** Basic PK / PD parameters of antibiotics**Lecture 5** Rational antibiotic therapy of selected bacterial infections (UTI, blood placenta infections, surgical site infection) |

* 1. **Education outcomes in the discipline**

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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 | genetic mechanisms, the acquisition of drug resistance by microorganisms and tumor cells; | C.W11. |
| W02 | the epidemiology of infections with viruses, bacteria as well as fungal and parasites infections, including geographical range of their occurrence; | C.W13. |
| W03 | the problem of drug resistance, including multi-drug resistance; | C.W40. |
| within the scope of **ABILITIES**, the graduate knows how to: |
| U01 | interpret the results of microbiological tests; | C.U10 |
| U02 | design the scheme of rational infection chemotherapy, both empirical and targeted; | C.U15 |

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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 | ife st ife s ife style; | 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**
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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 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| …U01 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U02 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U03 |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| K01-K11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ***+*** |  |  |

***\*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** | 61% - 68%. Mastering program content at the elementary level, chaotic answers, guidance questions necessary |
| **3,5** | 69%-76% Mastering program content at the elementary level, systematized answers, teacher's help required. |
| **4** | 77% -84%. Mastering program content at the elementary level, systematized and independent answers.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\** | **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 (without participation of the lecturer)