**description of the course of study**

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| **Course code** | **0912-7LEK-F-7-EBM** |
| **Name of the course in** | Polish | EBMPraktyka medyczna oparta na dowodach naukowych |
| English | **EBM**Evidence - basedmedicine |

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 study |
| **1.4. Profile of study\*** | General academic |
| **1.5. Person preparing the course description** | Dr hab. n. med. Tomasz Rogula, 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**
 | Classes-20h (including 5 of e-learning) |
| * 1. **Place of classes**
 | Traditional classes in the didactic room of Faculty of Medicine and Health Sciences |
| * 1. **Form of assessment**
 | Credit with grade |
| * 1. **Teaching methods**
 | Informative lecture |
| * 1. **Bibliography**
 | **Required reading** | 1. Up from Clinical Epidemiology and EBM, ISBN: 9789048195008.
2. Evidence-basedMedicine, ISBN: 9780702031274
 |
|  **Further reading** | 1. Sackett D.L.: Evidence based medicine: what it is and what isn’t; BMJ 1996.
2. Cochrane Database of Systematic Reviews (The Cochrane Collaboration); http://www.cochrane.org/
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1. **Objectives, syllabus CONTENT and intended LEARNING outcomes**

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| * 1. **Course objectives *(including form of classes- lecture)***

***C1.***Understanding the principles of clinical practice strategy based on scientific evidence and the use of research results in medical practice***C2.***Preparation for critical analysis of research and scientific reports**C3** Developing awareness of the importance of research and scientific reports in clinical decision-making and medical professionalism. |
| * 1. **Detailed syllabus *(including form of classes- lecture)***
1. The origin and meaning of EBM concept. The history and development of the EBM concept. Philosophy of EBM.
2. Modern strategy of EBM. Basic concepts. Evidence based medicine as a scientific system. Integrative approach to EBM.
3. The stages of investigation for evidence-based practice –making clinical decisions. Clinical questions.
4. Typology of scientific clinical studies and EBM - observational studies, experimental. Secondary research (systematic reviews, meta-analyzes).
5. Assessment of the credibility of research and medical reports. Evaluation of therapeutic and diagnostic method, harmfulness as well as prognosis. Inference for medical practice based on the analysis of the available literature.
6. Economic analysis and EBM.
7. Clinical practice guidelines.
8. The search for scientific reports in the model of investigation to evidence-based practice. Available databases and methods for obtaining information (Medline, Cochrane Library, etc.).
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**4.3 Intended learning outcomes**

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| **Code** | **A student, who passed the course** | **Relation to teaching****outcomes** |
| within the scope of **knowledge**, the graduateknows and understands: |
| W01 | the principles of conducting scientific research, observational and experimental as well as in vitro studies aimed at the development of medicine; | B.W29. |
| W02 | the foundations of evidence-based medicine; | D.W23. |
| W03 | the causes, symptoms, principles of diagnosis and therapeutic management of common diseases and specific problems in general practice; | E.W38. |
| within the scope of **ABILITIES**, the graduate knows how to: |
| U01 | plan and perform basic scientific research, interpret the results and draw conclusions; | B.U13. |
| U02 | be responsible for improving his/her skills and transferring knowledge to others; | D.U15. |

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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 intendedlearningoutcomes**
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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 |  |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W02 |  |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U01 |  |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U02 |  |  |  |  | ***+*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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** | Test – 61%-68%Mastering program content at the elementary level |
| **3,5** | Test - 69%-76%. Mastering program content at the elementary level, systematized answers.  |
| **4** | Test - 77%-84%. Mastering program content at the elementary level, systematized answers. Problem solving in typical situations. |
| **4,5** | Test - 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** | Test - 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/* | **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\** |  |
| *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)