

**SYLLABUS OF THE MODULE (SUBJECT)**

**GENERAL INFORMATION**

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| Module title: **RESEARCH METHODOLOGY** | |
| Module type | *Obligatory* |
| Faculty PMU | *Faculty of Medicine and Dentistry* |
| Major | *Medicine* |
| Level of study | *Long-cycle (S2J)* |
| Mode of study | *Full-time studies* |
| Year of studies, semester | *Year III, semester 5 (winter)* |
| Rok studiów /semestr studiów | *rok 3, semestr V* |
| ECTS credit (incl. semester breakdown) | *0,5* |
| Type of training | *lectures – 5 hours* |
| Form of assessment | *□ grade assessment:*  ***x descriptive***  *□ test*  *□ practical*  *□ oral*  *□**non-graded assessment*  *□ fianl examination:*  *□**descriptive*  *□ test*  *□ practical*  *□ oral* |
| Head of the Department / Clinic, Unit | *Prof. dr hab. Barbara Dołęgowska* |
| Tutor responsible for the module | ***Prof. dr hab. Barbara Dołęgowska***  ***/barbara.dolegowska@pum.edu.pl*** |
| Department’s/Clinic’s/Unit’s website | *Zakład Medycyny Laboratoryjnej*  *Katedra Mikrobiologii, Immunologii i Medycyny Laboratoryjnej*  *Tel.: 91 466 1652*  *Email:* [*zmlab@pum.edu.pl*](mailto:zmlab@pum.edu.pl)  *www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/katedra-mikrobiologii,-immunologii-i-medycyny-laboratoryjnej/* |
| Language | *English* |

**Detailed information**

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| Module objectives | | The general purpose of the Research Methodology is: to obtain basic knowledge on the subject of research; to acquire basic skills necessary in scientific research (searching and interpreting the content of articles, planning and conducting research, presenting results) |
| Prerequisite/essential requirements | Knowledge | Basic knowledge about statistics, epidemiology, basic knowledge about statistic, epidemiology, medical fields within the scope of the realized project |
| Skills | Computer operating, using MS Office, websites |
| Competences | Co-operation with team members (class-mates), self-education |

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| **Description of the learning outcomes for the subject/module** | | | | | | | | | | | | |
| **No. of learning outcome** | **Student who has passed the (subject) knows/is able to/can:** | | | **SYMBOL**  **(reffering the standards)** | | | | | **Method of verification of learning outcomes\*** | | | |
| W01 | Knows rules of temwork. | | | K\_D.W18 | | | | | P | | | |
| W02 | Knows principles of evidence-based medicine. | | | K\_D.W23 | | | | | P | | | |
| U01 | Communicates with colleagues giving constructive feedback and support. | | | K\_D.U12 | | | | | P | | | |
| U02 | Reviews medical literature and concludes the basics of available literature | | | K\_D.U17 | | | | | P | | | |
| **A table presenting LEARNING OUTCOMES in relation to the form of classes** | | | | | | | | | | | | |
| **No. of learning outcome** | **Learning outcomes** | | | **Type of training** | | | | | | | | | |
| **Lecture** | **Seminar** | | **Practical**  **classes** | **Clinical**  **classes** | | **Simulations** | **E-learning** | **Other…** | |
| W01 | D.W.18 | | | X |  | |  |  | |  |  |  |
| W02 | D.W23 | | | X |  | |  |  | |  |  |  |
| U01 | D.U12 | | | X |  | |  |  | |  |  |  |
| U02 | D.U17 | | | X |  | |  |  | |  |  |  |
| **Table presenting TEACHING PROGRAMME** | | | | | | | | | | | | |
| **No. of a teaching programme** | **Teaching programme** | **No. of hours** | | | | **References to learning outcomes** | | | | | | |
| TK.01 | Steps of the scientific method. Research plan structure. Research in medicine. Literature analysis. Databases. | 1 | | | | D.W18, D.U17 | | | | | | |
| TK.02 | Disruptive factors in research. Basic and clinicians scientists collaboration. Bioethical commission. | 1 | | | | D.W18, D.U12 | | | | | | |
| TK.03 | Basics of inference in medical science. Data collection and processing procedures. | 1 | | | | D.W.18, D.U12 | | | | | | |
| TK.04 | Collecting data through observation. Uncertainty of measurement in research and clinical practice | 1 | | | | D.W23, D.U17 | | | | | | |
| TK.05 | Implementing research results in clinical practice. Evidence-based medicine. | 1 | | | | D.W23, D.U17 | | | | | | |
| **Booklist** | | | | | | | | | | | | |
| Obligatory literature | | | | | | | | | | | | |
| 1. Sam Goundar: Research Methodology and Research Method. Methods Commonly Used By Researchers. Victoria University of Wellington, 2012 | | | | | | | | | | | | |
| Supplementary literature: | | | | | | | | | | | | |
| Barbara Kawulich: Collecting data through observation. In book: Doing Social Research: A global context (pp.150-160), Publisher: McGraw Hill, Editors: C. Wagner, B. Kawulich, M. Garner, 2012 | | | | | | | | | | | | |
| **Student’s workload** | | | | | | | | | | | | |
| Form of student’s activity  (in-class participation; activeness, produce a report, etc.) | | | Student’s workload [h] | | | | | | | | | | |
| Tutor | | | | | | | | | | |
| Contact hours with the tutor | | | 5 | | | | | | | | | | |
| Time spent on preparation to seminars/practical classes | | | - | | | | | | | | | | |
| Time spent on reading recommended literature | | | 5 | | | | | | | | | | |
| Time spent on writing report/making project | | | 5 | | | | | | | | | | |
| Time spent on preparing to colloquium/entry test | | | - | | | | | | | | | | |
| Time spent on preparing to exam | | | - | | | | | | | | | | |
| Other ….. | | | - | | | | | | | | | | |
| Student’s workload in total | | | 15 | | | | | | | | | | |
| ECTS Credits for the subject (in total) | | | 0,5 | | | | | | | | | |
| **Remarks** | | | | | | | | | | | | |
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\*Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloquium

P - project

R – report

S – practical skills assessment

RZĆ – practical classes report, incl. discussion on results

O – student’s active participation and attitude assessment

SL – lab report

SP – case study

PS – assessment of student’s ability to work independently

W – entry test

PM – multimedial presentation

Other….