



Pomeranian Medical University in Szczecin

SYLLABUS OF THE MODULE (SUBJECT) GENERAL INFORMATION

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

Detailed information

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

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 (referring the standards)	Method of verification of learning outcomes*
W01	Knows rules of teamwork.	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	1	D.W18, D.U12

	research. Basic and clinicians scientists collaboration. Bioethical commission.		
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:			
1. 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			

*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
RZC – 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....