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Syllabus 2020/2021															
training cycle: .....															
Description of the course															
Module/Course		Information Technologies													
Faculty		Dentistry													
Major		Dentistry													
Specialties															
Level of studies		Uniform magister studies X* 1 <sup>st</sup> degree studies <input type="checkbox"/> 2 <sup>nd</sup> degree studies <input type="checkbox"/> 3 <sup>rd</sup> degree studies <input type="checkbox"/> postgraduate studies <input type="checkbox"/>													
Form of studies		X full-time    X part-time													
Year of studies		I				Semester		X Winter <input type="checkbox"/> Summer							
Type of course		X obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / elective													
Course		<input type="checkbox"/> major <input type="checkbox"/> basic													
Language of instruction		<input type="checkbox"/> Polish    X English <input type="checkbox"/> other													
* mark <input type="checkbox"/> with an X															
Number of hours															
Form of education															
Unit teaching the course		Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Specialist Classes – magister studies (SCM)	Foreign language Course (FLC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)
		Winter Semester													
							10								
Summer Semester															
TOTAL per year:															



					10														

Educational objectives (max. 6 items)

- C1. to familiarize students with the basic types of computer networks, databases, acquisition systems and signal processing
- C2. keeping electronic record and presentation of medical data,
- C3. knowledge of basic statistical concepts, experimental (research) systems and elements of epidemiology

Education result matrix for module/course in relation to verification methods of the intended education result and the type of class

Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class <i>**enter the abbreviation</i>
W 01	B.W27	student knows the basic methods of statistical analysis used in the study population and diagnostic investigations	Oral response	LC
W 02	B.W29	knows the rules of scientific research (observational and experimental)	Oral response	LC
U 01	B.U10	student uses the databases, including the Internet, and searches for the required information using available tools	Final test	LC
U 02	B.U11	student selects an appropriate statistical test, performs basic statistical analyzes and uses appropriate methods to present the results; interprets the results of meta-analyzes and assesses probability of survival	Final test	LC

\*\* L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .

Please mark on scale 1-5 how the above effects place your classes in the following categories:



communication of knowledge, skills or forming attitudes: Knowledge: 2 Skills: 3 Social competences: 1	
Student's amount of work (balance of ECTS points)	
Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	10
2. Student's own work (self-study):	5
Total student's workload	15
ECTS points for module/course	1
Comments	
<b>Content of classes</b> (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)	
<b>Lectures</b> 1. 2. 3.	
<b>Seminars</b> 1. 2. 3.	
<b>Practical classes</b> 1. Basic statistical concepts - population, sample, representative sample, statistical inference. The concept of variable and variable types. 2. Presentation of data using charts. Study of sample distributions by means of histograms. 3. Measures of location and dispersion measures as basic descriptive statistics. 4. Normal distribution and t-Student distribution. The confidence interval for the mean.	
<b>Other</b> 1. 2. 3. etc. ...	
<b>Basic literature</b> (list according to importance, no more than 3 items) 1. B.R. Kirkwood, J.A. Sterne – Essential Medical Statistics, Blackwell Science 1988, 2003 2. 3.	
<b>Additional literature and other materials</b> (no more than 3 items) 1. B. Rosner – Fundamentals of Biostatistics, Duxbury Thomson Learning 2000 2. 3.	



<p>Didactic resources requirements (e.g. laboratory, multimedia projector, other...) Computer laboratory, multimedia projector</p>													
<p>Preliminary conditions (minimum requirements to be met by the student before starting the module/course) Knowledge of maths in the field of secondary school and basic computer skills</p>													
<p>Conditions to receive credit for the course (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades) IMPORTANT! Class attendance cannot be a condition for passing the subject. Attendance during classes (according to the study regulations) and passing the final theoretical/practical test.</p>													
<table border="1"> <thead> <tr> <th>Grade:</th> <th>Criteria (only for courses/modules ending with an examination)</th> </tr> </thead> <tbody> <tr> <td>Very Good (5.0)</td> <td></td> </tr> <tr> <td>Good Plus (4.5)</td> <td></td> </tr> <tr> <td>Good (4.0)</td> <td></td> </tr> <tr> <td>Satisfactory Plus (3.5)</td> <td></td> </tr> <tr> <td>Satisfactory (3.0)</td> <td></td> </tr> </tbody> </table>		Grade:	Criteria (only for courses/modules ending with an examination)	Very Good (5.0)		Good Plus (4.5)		Good (4.0)		Satisfactory Plus (3.5)		Satisfactory (3.0)	
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**Name and address of module/course teaching unit, contact: telephone and e-mail address**

Biostatistics and Medical Informatics Unit of Department of Pathophysiology  
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leslaw.rusiecki@umed.wroc.pl

**Coordinator / Person responsible for module/course, contact: telephone and e-mail address**

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**List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.**

Dr n. wet. Agnieszka Rusiecka, physiology, classes

**Date of Syllabus development**

25.06.2020 r.

**Syllabus developed by**

Lesław Rusiecki

**Signature of Head of teaching unit**

prof. dr hab. n. med. Witold Piłłcki  
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