

	Syllabus for academic year: 2020/2021													
	٦	Frair	ning cy	cle:	•••••	•••••	•••••	•••••	•••••					
				De	scripti	on of tl	ne coui	rse						
Module/Course			Information Technologies					-			detailed education			
									Group code			Group name Scientific basis of		of
									В		n	nedicin	е	
Faculty			Dentis	try										
Major			Dentistry											
Unit realizing the subje	ct		Biosta	tistics	and M	edical	nform	atics U	nit of [Сера	rtment	of Path	ophysi	iology
Specialties														
Level of studies			Unifor	m mag	gister s	tudies	Χ*							
			1 st deg	ree stu	udies 🛛									
			2 nd deg	gree st	udies									
			3 rd degree studies □											
			postgraduate studies 🗆											
Form of studies			X full-time X part-time											
Year of studies								Semester X Winter						
			□ Summer											
Type of course			X obligatory											
			□ limited choice											
Course			free choice / elective major X basic											
Language of instruction			major X basic Delich X Englich C other											
* mark \square with an X			Polish X English other											
					Num	ber of l	ours							
						of edu								
										<u> </u>				
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	1	1	I	I	1	1	I	I			1	1	1	1
Direct (contact) education						5								
Online learning (synchronous)						2								



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Distance learnin	g					3								
(asynchronous)														
Summer Semest	ter		-1		1	1	1			1		1	1	
Direct (contact)														
education														
Online learning														
(synchronous)														
Online learning														
(asynchronous)														
TOTAL per year:														
Direct (contact)						5								
education														
Online learning						2								
(synchronous)														
Online learning	T					3								
(asynchronous)														
Educational obje	ectives (m	ax. 6 i	tems)											
C1.														
C2.														
СЗ.														
Education result	t matrix fo	or mod	lule/cou	urse in	relatio	on to ve	erificati	on me	thods	of the	e intend	ed edu	cation	result
				ä	and th	e type	of class	;						
	Number o	of							ethods	of veri	ification	Form	of didac	tic
Number of course	major		Student who completes the					of	of intended education		class			
education result	education	ı	module/course knows/is able to						results (forming and			**enter the		
	result							su	ımmaris	ing)		abbrev	viation	
W 01	B.W27		student knows the basic					0	ral re	spon	se	LC		
			methods of statistical analysis											
			-											
			used in the study population and diagnostic investigations											
			and di	lagnos	stic in	vestiga	ations							
W 02	B.W29		knows	s the r	ules d	of scier	ntific	0	ral re	spon	se	LC		
			research (observational and											
			exper	-										
			Crhei	ment	arj									
U 01	B.U10		stude	nt use	s the	datab	ases,	Fi	inal te	st		LC		
			includ	ling th	e Inte	ernet, a	and							
				-		require								
						•								
			inforn	nation	usin	g availa	able							
			tools											
U 02	B.U11		stude	nt sele	ects a	n appr	opriat	e Fi	inal te	st		LC		
			student selects an appropriate statistical test, performs basic											
					-			-						
			statist	tical a	nalyze	es and	uses							



	appropriate methods to						
	present the results; interprets						
	the results of meta-analyzes						
	and assesses probability of						
** 1							
	litorium classes; MC – major classes (non-clinical tudies); CSC – classes in simulated conditions;						
	ucation (obligatory); VP – vocational practice; SS						
Please mark on scale 1-5 how	the above effects place your classes in th	he following categories:					
communication of knowledge,	skills or forming attitudes:						
Knowledge: 2							
Skills: 3							
Social competences: 1							
Student's amount of work (bala	ance of ECTS points)						
Student's workload		Student Workload (h)					
(class participation, activity, pr	eparation, etc.)						
1. Contact hours:		5					
2. Online learning hours (e-lea	rning):	5					
3. Student's own work (self-stu	udy):	5					
Total student's workload		15					
ECTS points for module/course		1					
Comments							
Content of classes (please ente	r topic words of specific classes divided into their	r didactic form and remember how it is					
translated to intended educational e	ffects)						
Lectures							
1.							
2.							
3.							
Seminars							
1.							
2.							
3.							
Practical classes							
1. Basic statistical concepts	- population, sample, representative	sample, statistical inference. The					
concept of variable and variable types.							
2. Presentation of data usin	g charts. Study of sample distributior	ns by means of histograms.					
3. Measures of location and dispersion measures as basic descriptive statistics.							
4. Normal distribution and t	-Student distribution. The confidence	e interval for the mean.					
Other							
1.							



2.

3.

etc. ...

Basic literature (list according to importance, no more than 3 items)

1. B.R. Kirkwood, J.A. Sterne – Essential Medical Statistics, Blackwell Science 1988, 2003

Additional literature and other materials (no more than 3 items)

1. B. Rosner – Fundamentals of Biostatistics, Duxbury Thomson Learning 2000

2. 3.

Didactic resources requirements (e.g. laboratory, multimedia projector, other...) Computer laboratory, multimedia projector

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

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 med by the student to pass it and criteria for specific grades)

Attendance during classes (according to the study regulations), passing the final theoretical/practical test.

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)	
	Criteria (only for courses/modules ending with e credit)



Credit	ttendance during classes (according to the study regulations), passing the final					
	theoretical/practical test and returning homework (e-learning)					

Grade:	Criteria (examination evaluation criteria)
Very Good	
(5.0)	
Good Plus	
(4.5)	
Good	
(4.0)	
Satisfactory Plus	
(3.5)	
Satisfactory	
(3.0)	
Unit realizing the	Biostatistics and Medical Informatics Unit of Department of Pathophysiology
subject	
Unit address	ul. Marcinkowskiego 1, 50-368 Wrocław
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Person responsible	Agnieszka Rusiecka
for module	
Coordinator	Agnieszka Rusiecka
Telephone	+48 724881756
E-Mail	agnieszka.rusiecka@umed.wroc.pl

List of persons conducting specific classes							
Full name	Degree/scientific or Discipline Performed Form o						
	professional title		profession				
Agnieszka Rusiecka	PhD	physiology	assistant	classes			

Date of Syllabus development



21.09.2020 r.

Appendix to Resolution No. 2186 of Senate of Wroclaw Medical University of 1 July 2020

Signature of Head of teaching unit

Signature of Faculty Dean

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