

	Syllabus for academic year: 2020/2021													
	7	Гrair	ning cy							•••••				
				De	scripti	on of th	ne coui	rse						
Module/Course							Group of detailed education							
			Medic	al stati	stics			results						
										roup		Group n		_
										ode		Scientif		of
									В		r	medicin	e	
Faculty			Dentis	try					ı					
Major			Dentis	try										
Unit realizing the subje	ct		Biosta	tistics a	and M	edical I	nform	atics U	nit of [Depa	rtment	of Path	ophys	iology
Specialties														
Level of studies			Unifor	m mag	gister s	tudies	X*							
			1 st deg	ree stu	udies 🛚									
			2 nd deg											
			3 rd degree studies □											
			postgraduate studies											
Form of studies			X full-time X part-time											
Year of studies			I					Seme	ester		Winter			
										Х	Summ	er		
Type of course			X oblig											
			□ limit = ſ											
			☐ free choice / elective											
Course			□ major X basic											
Language of instruction			□ Polish X English □ other											
* mark 🗆 with an X					Nicona	L £ I								
						ber of I								
					FOITH	T edu	Lation							
			es (AC)	Major Classes – not clinical (MC)	(cc)	es (LC)	ated	Practical Classes with Patient (PCP)	Specialist Classes – magister studies (SCM)	Foreign language Course (FLC)	Physical Education obligatory (PE)	ice (VP)	ent's own	
Unit teaching the course	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Classes –	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	cal Classes	Specialist Classe: studies (SCM)	n language	al Educatio	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)
	Lectur	Semin	Audito	Major (MC)	Clinica	Labora	Classe	Praction (PCP)	Specia	Foreig	Physic (PE)	Vocati	Self-St work)	E-lear
Winter Semester														
Direct (contact) education														
Online learning (synchronous)														

								-			
Distance learning											
(asynchronous)											
Summer Semester				,	•		•				
				1			1	ı			
Direct (contact)						7					
education											
Online learning						4					
(synchronous)											
Online learning						4					
(asynchronous)											
TOTAL per year:											
Direct (contact)						7					
education											
Online learning						4					
(synchronous)											
Online learning						4					
(asynchronous)											
Educational objectives	max.	. 6 it	ems)								
C1.											
C2.											
CO											

C3.

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 **enter the abbreviation
W 01	B.W26.	student knows the basic computer and biostatistical methods used in medicine, medical database, worksheets and basis of computer graphics	Final computer test	LC
W 02	B.W27.	student knows the basic methods of statistical analysis used in the study population and diagnostic investigations	Oral response	LC
W 03	B.W28.	knows the capabilities of modern telemedicine as a tool to support the work of a doctor;	Oral response	LC



		knows the rules of scientific	Oral response	LC
W 04	B.W29.	research (observational and	- C. G Cop C	
	5.0025.	experimental)		
		student uses the databases,	Final computer	LC
		including the Internet, and	test	
U 01	B.U10.	searches for the required		
001	D.010.	information using available		
		tools		
		student selects an appropriate	Final practical	LC
		statistical test, performs basic	computer test	
		statistical analyzes and uses	with biostatistics	
		appropriate methods to	analysis and	
U 02	B.U11.	present the results; interprets	medical	
		the results of meta-analyzes	interpretation of	
		and assesses probability of	obtained results	
		survival		
		student explains the	Oral resonse	LC
		differences between	Orarresonse	
		prospective and retrospective		
		studies, randomized and case-		
U 03	B.U12.	control, case descriptions and		
0 03		experimental researches;		
		ranks them according to the		
		reliability and quality of the		
		scientific evidences		
		student plans and performs a	Final practical	LC
		simple scientific study;	computer test	
		interprets the results and	with biostatistics	
U 04	B.U13.	draws conclusions	analysis and	
0 04	D.U13.	araws conclusions	medical	
			interpretation of	
			obtained results	
			obtained results	

^{**} 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

Other 1. 2. 3. etc. ...

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

1. B. Rosner – Fundamentals of Biostatistics, Duxbury Thomson Learning 2000 Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

and other materials (no more than 3 items)

Computer laboratory, multimedia projector

Appendix

IM. Piastów Śląskich we Wrocławiu	to Resolution No. 2186 of Senate of Wroclaw Medical University of 1 July 2020
Student's amount of work (balance of ECTS points)	
Student's workload	Student Workload (h)
(class participation, activity, preparation, etc.)	
1. Contact hours:	7
2. Online learning hours (e-learning):	8
3. Student's own work (self-study):	10
Total student's workload	25
ECTS points for module/course	1
Comments	
Content of classes (please enter topic words of specific classes translated to intended educational effects)	divided into their didactic form and remember how it is
Lectures 1.	
2.	
3.	
Seminars	
1.	
2.	
3.	
Practical classes	
1. Basic statistical concepts and experimental syste relationships.	ms used in medical research. Study of
2. Graphical presentation of relationships between relative risk, odds ratio, sensitivity and specificit	,
3. Practical application of basic statistical tests in ex	
4. Practical application of basic statistical tests in ex	• •
independent and dependent samples.	, ,
macpendent and dependent sumples.	
5. Practical application of basic statistical tests in ex	remplary medical research- analysis of variance

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

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

Student should have the credit of the subject Information Technology

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) and 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	Attendance 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



Telephone	tel.71 784 12 69
E-Mail	leslaw.rusiecki@umed.wroc.pl

Person responsible	Agnieszka Rusiecka
for module	
Coordinator	Agnieszka Rusiecka
Telephone	+48 724881756
E-Mail	agnieszka.rusiecka@umed.wroc.pl

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

Date of Syllabus development	Syllabus developed by
21.09.2020 r.	Lesław Rusiecki
	Signature of Head of teaching unit
Signature of Faculty Dean	