9	Standa	rd Co	urse S	yllabus c	n the	acaden	nic yea	r 20	15/2016	5	
Type of class	Inarre	schiev	De	escriptio	n of th			nuz?	ine	a idili da sida e	ade to Lold
ledings gift refind **						The	group	of c	letailed	educational	results
Na Name of subject:	Basic Information Technology and Biostatistics			Group code: B	Group name:  SCIENTIFIC BASIS OF MEDICINE			DICINE			
Faculty:	Medicine										
Major:	medicine					esst tah	compc	10			
Speciality	Not applicable hand one around mobute										
Level of studies				dies X	hazuz	isylana i	enitoit	c to			
Form of studies	full-t	ime X	part	-time X	enits!	iaca yb	rts ad	nal	10	<u> </u>	0.103
Year of studies:	interp etation of			Semes	Semester:		Winter/Summer Winter and Summer				
Type of class:	obligatory X elective 2										
Language of instruction:	English X										
701.1		Course hours Form of education									
Unit:		Lectures (L)	Seminars (SE)	Auditorial Classes (AC)	Major Classes – not clinical	(MC) Clinical Classes (CC)	Laboratory Classes (LC)	b s	Classes in Simulated conditions (CSC)	Foreign Language Course Minimum (FLC)	Optional Classess (OC) – minimum 24 students
Winter semester						13.00		NA.			
Biostatistics and Med Informatics Unit Department of Pathophysiol		7			SLOS	sed the	15	inh			
рерагинент от гаспорнузю.	la aire	110 (11	(mw)	leni3		512 ,197	e sant i	ed#			
Summer semester		tes	11936	comp		editor	zerbes	693	- ALL	.0 1	DU
Biostatistics and Med Informatics Unit Department of Pathophysio			10		action selection	alencin debie to	10	)			
Total per	year:	42			1000		3 1 1 1 1 1				

## Educational aims: (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. explore the possibilities of telemedicine,
- C4. knowledge of basic statistical concepts, experimental (research) systems and elements of epidemiology,
- C5. practical application of information technology to information processing and performing

		student explains the differences between	bles, histograms and prob stribution and confidence	
		prospective and	arence and hypothesis.te.	
on some star		retrospective studies,	Acts Swiper Lygorollinouscy	
U 03		control, case	Oral rachanca	
	B.U13.	descriptions and	Oral response	L, SE, LC
POUR CWIT		experimental researches; ranks them	tables and graphs, impor	
ering, comerunication		according to the	MS Excel / MS Word - and	
		reliability and quality of the scientific evidences;	Office programs	
g tables and	tory - creatia	Inn to musen Jane 12 2000 (0.46)	peng pine annication and practical formation	and the state of
presentation		student plans and performs a simple scientific study;	Final (summer) practical computer test with biostatistics	
U 04 B.	B.U14.	interprets the results and draws conclusions.	analysis and medical	SE, LC
		and draws conclusions.	interpretation of obtained results	
	il research.	tion coefficients in medic	teat regression and correct	11. The use of li
SIBO IRONIAG	payments or ci	Tankennok amondadat	salvaenna aldemocard a	nitanta teas
SHICK TOXES.	pasonada04	ansurageo (communitation)	formula de soites	SAND DISCUSSION

<sup>\*\*</sup> L - Lecture; SE - seminar; AC - Auditorial classes; MC - Major classes (not clinical); CC - Clinical classes; LC - Laboratory Classes; CSC - Classes in Simulated Conditions; FLC - Foreign Language Course; OC - Optional Classes

Please use a cross to mark a scale 1-3, how the mentioned education results place Your class in the following sections: the transfer of knowledge, transfer of skills: (ex. knowledge +++; skills ++)

Knowledge (K): +++

Skills (S): +++

Student's workload input (ECTS points)						
The form of student's workload	Student's workload (h)					
1. Lessons on-site (hrs.):	42					
2. Student's own work (hrs.):	15,5					
Summary of the student's workload:	57,5					
ECTS points per subject:	ero or asit resource set arrow 2 con all diverse actions a begin					
Notes:	investigation and successive the manufacture of the succession of					

**Subject of class:** (please provide the topic of individual classes including type of class; remember the topic of class has to translate into intended education results).

In the case of coordinated subjects, please provide the topic of performed classes separately for each unit performing them:

## Lecture

- 1. Introduction, history, computer systems in healthcare and medical research
- 2. medical robots, artificial intelligence, telemedicine and e health
- 3. The basic biostatistical concepts, types of random variables, random events
- 4. The experimental systems used in medical research, prospective and retrospective studies, randomized and case-control, case studies and experimental research

## Seminar

1. Calculation and interpretation of descriptive statistics..

Name and address of unit conducting the course, contact information: telephone and e-mail

**Biostatistics and Medical Informatics Unit** in Department of Pathophysiology Tel.71-784-12-69, -62, e-mail: <a href="mailto:leslaw.rusiecki@umed.wroc.pl">leslaw.rusiecki@umed.wroc.pl</a> (www.bim.umed.wroc.pl)

The list of teachers performing the classes: Name and Surname, academic or professional degree/title, field of study, occupation, type of classes:

In the case of coordinated subjects, please provide the topic of performed classes separately for each unit performing them.

Lesław Rusiecki, dr, adiunkt, L, SE, LC

Person responsible for the course::

dr Lesław Rusiecki

Drawn up on (date):

The syllabus has been drawn up by dr Lesław Rusiecki

25<sup>th</sup> June 2015

Signature of the Head of the unit conducting the course Uniwersylet Medyczny we Wijocia wie

Katedra Patofizjologii
ZAKLAD PATOFIZJOLOGII
Pracownia Biostatystyki i Informatyki Medycznej

The signature of the Dean of the Faculty of Medicine

700000001

DES IN ENGLISH

Prof. Andrzej Hendrich, PhD

dr n. med. Lesław Rusiecki