	THE	BASICS O	F NUMERICAL DA	TA ANALYSIS			
GENERAL INFORMATI	ONS						
Course coordinator			Assoc. Prof. Vesn	a Ilakovac, PhD			
Assistant/Associate			Kristina Kralik, MSc				
Study Programme		Integrated under	graduate and grac	luate univ	ersity		
			study of Medicine				
Status of the course			Elective	Elective			
Year of study, semester			5th year, 9th sen	5th year, 9th semester			
ECTS			2				
Workload (hours)			Lectures (10): Ser	Lectures (10): Seminars (5); Exercises (10)			
Expected number of students			30	30			
COURSE DESCRIPTION							
Course objectives							
To enable students to properly select, independently use and interpret the results of statistical tests for the numerical data analysis.							
Enrolment requirement	nts and e	ntry compe	etencies				
Passed the course of t	he 2 nd ye	ar of study	Introduction to Med	lical Statistics or e	quivalent.		
Learning outcomes at	the Prog	ramme leve	el				
1.1., 2.2., 3.4., 3.5., 4.2.							
Learning outcomes (5-	-10)						
After listening to lectu	ires, exer	cises, indep	pendent learning an	d passing the exa	m, studen	nts will be	
able to:			hu statistical to sting	_			
2 Select the appropria	to statist	ical test for	the given problems	of differences of	the nume	rical data	
3. Confirm the fulfillment of the preconditions for conducting the selected statistical test in the							
numerical data analysis.							
4. Interpret the results of the conducted data analysis.							
5. Select the appropriate presentation of the results of the conducted data analysis.							
Course content							
Lectures:							
P1. Introductory lecture.							
P2. Statistical tests.							
P3. One sample tests.							
P4. Comparison of measurements from three or more samples							
Exercises:							
V1. Making a decision on a statistical hypothesis.							
V2. Data analysis software. One sample tests.							
V3. Comparison of measurements from two samples.							
V4. Comparison of measurements from three or more samples.							
V5. Reporting and interpretation of numerical data analysis results.							
Mode of teaching							
Lectures; Seminars<; Exercises							
Student obligations							
Attendance at all forms of classes is mandatory. A student may justifiably miss 30% of classes.							
Monitoring student w	ork <i>(Con</i>	nectivity of	learning outcomes,	teaching method	ds and gra	ideing)	
Teaching activity	ECTS	Learning	Student activity	Assessment	Grade	points	
		outcome		methods	Min.	Max.	

Class attendance	0.2		Class attendance	Class record	0	10
		1 – 5				
Practicals	1.2	1 – 5	Solving	Homework	34	60
			problems	presentation		
Final exam	0.6	1 – 5	Independent	Written exam	16	30
			work			
Ukupno	2				50	100

Calculation of final grade:

To students who achieved 16 or more points in the final exam points earned during the course are added.

Since the study program schedule descriptive assessment of elective courses, the course leader awards the grade "passed" to a student who achieves 50 or more grade points in the course.

Required reading (available in the library and through other media)							
Title	Number of	Availability					
	copies in the	through other					
	library	media					
Ivanković D. et al. Osnove statističke analize za medicinare.	10						
Udžbenik. Biblioteka Udžbenici i priručnici Medicinskog							
fakulteta Sveučilišta u Zagrebu, 1988.							
Teaching materials of the course leader		Merlin e-learning					
		system					

Additional reading

1. Petz B. Osnovne statističke metode za nematematičare, 5. izdanje, Naklada Slap, Jastrebarsko 2004.

- 2. Lang T, Secic M. How To Report Statistics in Medicine: Annotated Guidelines for Authors, Editors, and Reviewers, 2nd edition. Philadelphia: American College of Physicians, 2006.
- 3. Daniel WW. Biostatistics: a foundation for analysis in the health sciences. Udžbenik. John Wiley& Sons, Inc. 2013.

Course evaluation procedures

Anonymous, quantitative, standardized student survey on the subject and work of teachers conducted by the Office for Quality of the Medical Faculty Osijek.

Note /Other

E-learning is not included in the norm of course hours, but is used in teaching and contains teaching materials of the course leader, links to various pages, video and audio materials available on the WWW.