

Detailed Course Syllabus

Academic year:	Semester:
2024/2025	Summer semester
Study Program:	
Komunikologija -	
Znanstveno istraživanje	
medija i odnosi s javnošću	
(R) (elective)	
Povijest (R) (elective)	
Diplomski sveučilišni	
studij Povijest	
(nastavnički) (R) (elective)	Year of study:
Komunikologija -	1
Interkulturalna	
komunikacija i	
novinarstvo (R) (elective)	
Psihologija (R) (elective)	
Sestrinstvo (R) (elective)	
Sociologija - Upravljanje i	
javne politike (R) (elective)	
Sestrinstvo (I) (elective)	
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I. BASIC COURSE INFORMATION	

Name: Multivariate statistical methods

Abbreviation: IZBD252

Status: Compulsory ECTS: 6 Code: 252578

Prerequisites: No

Total Course Workload

Teaching Mode	Total Hours
Lecture	30
Seminar	30

Class Time and Place: HKS - according to the published schedule

II. TEACHING STAFF

Course Holder

Name and Surname: Šikić Luka

Academic Degree: Professional Title: docent

Contact E-mail: luka.sikic@unicath.hr Telephone:

Office Hours: According to the published schedule

Course Assistant

Name and Surname: Šagova	ac Mislav	
Academic Degree:	Professional Title:	
Contact E-mail: nislav.sagovac@unicath.hr	Telephone:	
Office Hours: According to	the published schedule	
III. DETAILED CO	OURSE INFORMATION	
Геаching Language: Englis	ih	
Course Description	software and learn to properly analyze data using ap effective communication of experimental findings, he research findings to different audiences effectively. E design and conduct their experiments and analyze the appropriate for their research questions. They should findings to scientific audiences. This will allow them participate in scientific discussions. In addition to attending lectures and seminars, stude which will be presented as an oral seminar presentate science skills they have learned to a real-world social	Students will gain hands-on experience using statistical propriate statistical tests. The course will also cover elping students develop skills to communicate their by the end of the course, students should be able to be data they collect using statistical techniques all also effectively communicate their experimental to stay up-to-date with the course content and the most will be required to complete a data analysis project, ion. This project will allow students to apply the data
	written and orally presented seminar projects. This v course content and actively work towards mastering 1. Develop a thorough understanding of multivariate foundations and practical applications. 2. Learn to applications and problems and research questions. 3. Ur	e statistical techniques, including their theoretical oply multivariate statistical techniques to real-world
Educational Outcomes	statistical methods and how to assess their validity. 4	
Textbooks and Materials		
Required	Hair Jr., J. F., Black, W. C., Babin, B. J., & Anderson, F	R. E. (2019). Multivariate Data Analysis. Pearson.
Supplementary	Stevens, J. P. (2009). Applied Multivariate Statistics for Izenman, A. J. (2013). Modern Multivariate Statistica	or the Social Sciences. Routledge. I Techniques: Regression, Classification, and Manifold
	Learning. Springer.	
	Sharma, S. (1996). Applied Multivariate Techniques.	John Wiley & Sons.
	Bartholomew, D. J., & Steele, F. (2008). The Analysis	of Multivariate Social Science Data. CRC Press
xamination and Grading		
o Be Passed DA	Exclusively Continuous Assessment NE	Included in Average Grade DA
Prerequisites to Obtain Signature and Take Final	Attendance is crucial for success in this course, and s and seminar sessions.	tudents are expected to attend at least 70% of lectures

Exam

Final course grade is based on 100 points earned through student's continuous involvement in class activities:

Fair (2) - 50 to 64 points

Good (3) - 65 to 79 points

Very good (4) - 80 to 89 points

Excellent (5) - 90 to 100 points

Examination Manner

Earning credits:

Class activities contribute to 50% of the grade:

Seminar - maximum 40 points

Seminar presentation - maximum 10 points

Final exam contributes to 50% of the grade:

Final exam - maximum of 50 points (50% of correct answers necessary for passing)

Grading Manner

Class activities: Midterm exam (written), seminar presentation (written and oral) and final exam.

Detailed Overview of Grading within ECTS

VRSTA AKTIVNOSTI	ECTS bodovi - koeficijent opterećenja studenata	UDIO OCJENE (%)
Pohađanje nastave	1.5	0
Kolokvij-međuispit	1.8	40
Seminarski rad	0.9	20
Seminarsko izlaganje	0.45	10
Ukupno tijekom nastave	4.65	70
Završni ispit	1.35	30
UKUPNO BODOVA (nastava+zav.ispit)	6	100

Midterm exam dates:

Exam period dates:

IV. WEEKLY CLASS SCHEDULE

Predava	mial
1 / Синон	mu

#	Topic
1	Overview of the Course and Student Obligations
2	Fundamentals of the R Programming Language
3	Descriptive Statistics Refresher
4	Inferential Statistics Refresher
5	Principal Component Analysis (PCA)
6	Factor Analysis

7	Cluster Analysis
8	Multivariate Regression Analysis
9	Content (text) Analysis
10	Survival Analysis
11	Network Analysis
12	Time Series Analysis
13	Machine Learning
14	Conducting Empirical Research
15	Final exam
[Seminari]	
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