



Detaljni izvedbeni plan

Akadska godina: 2024/2025	Semestar: Zimski	
Studiji: Komunikologija (R) (izborni) Povijest (R) (izborni) Psihologija (R) (izborni) Sociologija (R) (izborni) Sestrinstvo (I) (izborni) Sestrinstvo (R) (izborni) Primaljstvo (R) (izborni) Primaljstvo (I) (izborni)	Godina studija: 1	

I. OSNOVNI PODACI O KOLEGIJU

Naziv kolegija: Introduction to Statistics		
Status kolegija: Obvezni	ECTS bodovi: 6	Šifra kolegija: 252568
<i>Ukupno opterećenje kolegija</i>		
Vrsta nastave	Ukupno sati	
Predavanje	30	
Auditorna vježba	30	
Mjesto i vrijeme održavanja nastave: HKS – prema objavljenom rasporedu		

II. NASTAVNO OSOBLJE

<i>Nositelj kolegija</i>	
Ime i prezime: Šikić Luka	
Akademski stupanj/naziv:	
Kontakt e-mail: luka.sikic@unicath.hr	Telefon:
Konzultacije: Prema objavljenom rasporedu	
<i>Suradnici na kolegiju</i>	

III. DETALJNI PODACI O KOLEGIJU

Jezik na kojem se nastava održava: Hrvatski
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Opis kolegija	This course introduces the fundamental statistics principles, focusing on developing research questions, hypothesis formation, research design, and data analysis. Students will gain practical experience using statistical software and learn the proper application of statistical tests. Moreover, the course highlights the importance of effectively communicating research results to various audiences, giving students the skills to present their findings. Students must pass two-semester and final oral exams to complete the course successfully.
Očekivani ishodi učenja na razini kolegija	1. Demonstrate a solid understanding of fundamental statistical concepts, including probability theory, descriptive statistics, hypothesis testing, and basic inferential techniques. 2. Formulate research questions and generate testable hypotheses relevant to real-world problems in social science research. 3. Design and execute simple experiments, collect data, and apply appropriate statistical techniques to analyze and interpret the results. 4. Develop proficiency in using statistical software for data management, visualization, and analysis, as well as interpreting the output generated by the software. 5. Critically evaluate and assess the validity of statistical analyses and conclusions in scientific research papers and reports. 6. Collaborate effectively in group tasks and discussions, contributing to the collective understanding of statistical concepts and their applications. 7. Demonstrate a solid statistical foundation, paving the way for further studies in more advanced statistical techniques and methodologies.
Obveze studenta	
	<i>Literatura</i>
Obavezna	Navarro, D. J. (2019). Learning Statistics with R: A tutorial for psychology students and other beginners. Adelaide, Australia: University of Adelaide Press. Available online: https://learningstatisticswithr.com/ Peck, R., Olsen, C., & Devore, J. L. (2011). Introduction to Statistics and Data Analysis. Boston: Cengage Learning. Weiss, N. A. (2015). Introductory Statistics. Boston: Pearson
Dopunska	Moore, D. S., Notz, W. I., & Flinger, M. A. (2018). The Basic Practice of Statistics. New York: W. H. Freeman and Company. Triola, M. F. (2017). Elementary Statistics. Boston: Pearson. De Veaux, R. D., Velleman, P. F., & Bock, D. E. (2016). Intro Stats. Boston: Pearson. Diez, D. M., Barr, C. D., & Çetinkaya-Rundel, M. (2014). OpenIntro Statistics. CreateSpace Independent Publishing Platform. Peck, R., Olsen, C., & Devore, J. L. (2011). Introduction to Statistics and Data Analysis. Boston: Cengage Learning. Johnson, R. A., & Kubly, P. (2016). Just the Essentials of Elementary Statistics. Boston: Cengage Learning. Agresti, A., & Franklin, C. (2013). Statistics: The Art and Science of Learning from Data. Boston: Pearson.
	<i>Način ispitivanja i ocjenjivanja</i>
Preduvjeti za dobivanje potpisa i polaganje završnog ispita	Attendance is crucial for success in this course, and students are expected to attend at least 70% of lectures and seminar sessions

The final course grade is based on 100 points earned through the 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

Način polaganja ispita

Earning credits:

Class activities contribute to 70% of the grade:

Exam 1 – maximum 35 points

Exam 2 – maximum 35 points

The final (oral) exam contributes to 30% of the grade:

Final exam – maximum of 30 points

Način ocjenjivanja

Class activities: Two-semester exams and a final oral exam.

Detaljan prikaz ocjenjivanja unutar Europskoga sustava za prijenos bodova

VRSTA AKTIVNOSTI	ECTS bodovi - koeficijent opterećenja studenata	UDIO OCJENE (%)
Pohađanje nastave	1.5	0
Kolokvij-međuispit	1.575	35
Kolokvij-međuispit	1.575	35
Ukupno tijekom nastave	4.65	70
Završni ispit	1.35	30
UKUPNO BODOVA (nastava+zav.ispit)	6	100

Datumi kolokvija:

Datumi ispitnih rokova:

IV. TJEDNI PLAN NASTAVE

Predavanja

#	Tema
1	Introduction to the course.
2	Introduction to the R programming language.
3	Descriptive statistics.
4	Graphs and visualization.
5	Basics of probability theory.
6	Estimating population parameters.

7	Testing statistical hypotheses.
8	Midterm exam.
9	Categorical data analysis.
10	Comparing means.
11	Linear regression.
12	ANOVA.
13	Factorial ANOVA.
14	Multivariate statistical models.
15	Final exam.