

Detaljni izvedbeni plan

Akademska godina: Semestar: 2023/2024 Nepoznato Studiji: Repoznato Studiji: Sodina studija: Pshologija (R) (izborni) Sodina studija: Povijest (R) (izborni) 1 Sestrinstro (Q) (izborni) 1 Sociologija (R) (izborn					
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Naziv kolegija: Applied Statistics Kratica kolegija: Status kolegija: Obvezni Breduvjeti za upis kolegija: Nema Iulupno opterećenje kolegija: Vrsta nastave Ukupno sati Predavanje 30 Seminar Jole Mijesto i vrijeme održave:					
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II. NASTAVNO OSOBLJE					
Nositelj kolegija					
Ime i prezime: Šikić Luka					
Akademski stupanj/naziv: Izbor:					
Kontakt e-mail: Telefon: luka.sikic@unicath.hr Image: Second Sec					
Konzultacije: Prema objavljenom rasporedu					
Suradnici na kolegiju					
III. DETALJNI PODACI O KOLEGIJU					

Jezik na kojem se nastava održava: English

Opis kolegija	 Course Objectives: This course delves into the practical aspects of applied statistics, encompassing the formulation of research questions, hypothesis generation, research design, and data analysis. Students will acquire hands-on experience utilizing statistical software and the correct application of various statistical tests. Furthermore, the course emphasizes the significance of effectively communicating research findings to diverse audiences, equipping students with the necessary skills to present their results coherently. By the conclusion of the course, students are expected to independently design and execute experiments, analyze the gathered data using suitable statistical methodologies, and proficiently convey their findings to a scientific audience. This fosters an active engagement with the course material and encourages participation in discussions and group tasks. In addition to attending lectures and seminars, students are required to complete a data analysis project, culminating in an oral seminar presentation. This project offers students the opportunity to apply their acquired data analysis skills to a real-world problem in the context of social science research. To successfully complete the course, students must obtain at least 70% of their grade through various class activities, including midterm exams, oral presentations, and the seminar project. This ensures consistent engagement with the course content and promotes the ongoing development of mastery of the skills and concepts explored throughout the course. Statistical Porgamming Essentials: Familiarization with programming language for statistical analysis, including basic syntax and functionality. Statistical Concepts Refresher: A review of essential statistical concepts, including probability theory, distributions, hypothesis testing, and panalysis Techniques: In-depth exploration of data visualization, descriptive statistics, and methods for detecting panternism an relation

Očekivani ishodi učenja na razini kolegija	1. Develop research questions and hypotheses appropriate for empirical research in social science. 2. Design research studies that incorporate appropriate research methods and sampling techniques. 3. Conduct statistical analyses using advanced statistical techniques to answer research questions. 4. Use statistical software to effectively manage and analyze data. 5. Evaluate statistical models for their appropriateness in answering research questions. 6. Interpret statistical results and conclude them in the context of the research questions. 7. Communicate research findings effectively to different audiences using appropriate visual aids. 8. Develop critical thinking skills to evaluate the appropriateness of statistical analyses for different research questions. 9. Design and conduct an independent data analysis project and present the findings orally to the class.			
Literatura				
Obavezna	Navarro, D. J. (2019). Learning Statistics with R: A tutoria psychology students and other beginners. Adelaide, Aus University of Adelaide Press. Avaliable online: https://learningstatisticswithr.com/			
Dopunska	 Field, A., Miles, J., & Field, Z. (2012). Discovering Statistics Using R. London: SAGE Publications Ltd. James, G., Witten, D., Hastie, T., & Tibshirani, R. (2013). An Introduction to Statistical Learning: with Applications in R. New York: Springer. Freedman, D. A. (2009). Statistical Models: Theory and Practice. Cambridge: Cambridge University Press. Everitt, B. S., & Hothorn, T. (2011). An Introduction to Applied Multivariate Analysis with R. New York: Springer. Tabachnick, B. G., & Fidell, L. S. (2018). Using Multivariate Statistics. Boston: Pearson. Hair, J. F., Black, W. C., Babin, B. J., & Anderson, R. E. (2018). Multivariate Data Analysis. London: Cengage Learning. 			
Način ispitivanja i ocjenjiva	mja			
Polaže se	Isključivo kontinuirano praćenje nastave	Ulazi u prosjek		
Preduvjeti za dobivanje potpisa i polaganje završnog ispita	Attendance is crucial for success in this course, and stude are expected to attend at least 70% of lectures and semina sessions.			
Način polaganja ispita	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 Earning credits: Class activities contribute to 70% of the grade: Midterm exam – maximum 40 points Seminar – maximum 20 points Seminar presentation – maximum 10 points Final exam contributes to 30% of the grade: Final exam – maximum of 30 points			

Način ocjenjivanja

Class activities: Midterm exam (written), seminar presentation (written and oral) and final 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	1.8	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

Datumi kolokvija:

Datumi ispitnih rokova:

IV. TJEDNI PLAN NASTAVE