

Detaljni izvedbeni plan

Akademska godina:	Semestar:
2023/2024	Ljetni
Studiji:	
Psihologija (R) (izborni)	
Komunikologija (R)	
(izborni)	Godina studija:
Povijest (R) (izborni)	1
Sestrinstvo (R) (izborni)	
Sociologija (R) (izborni)	
Sestrinstvo (I) (izborni)	
Sesumetro (i) (izboilii)	

I. OSNOVNI PODACI O KOLEGIJU

Naziv kolegija: Applied Statistics

Kratica kolegija: IZBP232

Status kolegija:
Obvezni

ECTS bodovi: 6

Šifra kolegija: 252565

Preduvjeti za upis kolegija: Nema

Ukupno opterećenje kolegija

Vrsta nastave	Ukupno sati	
Predavanje	30	
Seminar	30	

Mjesto i vrijeme održavanja nastave: HKS - prema objavljenom rasporedu

II. NASTAVNO OSOBLJE

Nositelj kolegija

Ime i prezime: Šikić Luka

Akademski stupanj/naziv: Izbor: docent

Kontakt e-mail: luka.sikic@unicath.hr

Konzultacije: Prema objavljenom rasporedu

Suradnici na kolegiju

III. DETALJNI PODACI O KOLEGIJU

Jezik na kojem se nastava održava: English

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.

Opis kolegija

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

To successfully complete the course, students must obtain at least

concepts explored throughout the course.

Course Content:

Foundations of Applied Statistics: Introduction to the key concepts and principles of applied statistics in contemporary research contexts.

Statistical Programming 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 parametric and nonparametric methods.

Exploratory Data Analysis Techniques: In-depth exploration of data visualization, descriptive statistics, and methods for detecting patterns and relationships in data sets.

Confirmatory Data Analysis Approaches: A comprehensive study of inferential statistical techniques, such as regression analysis, ANOVA, and hypothesis testing, for validating research hypotheses.

Empirical Research Project: Application of acquired statistical knowledge and skills in designing, conducting, and analyzing a real-world research problem, culminating in an oral seminar presentation.

Očekivani ishodi učenja na razini kolegija	1. Develop research questions and hypotheses appropriate for empirical research in social science. 2. Design research studies incorporate appropriate research methods and sampling techniques and sampling techniques answer research questions. 4. Use statistical software to effect manage and analyze data. 5. Evaluate statistical models for the 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 suing appropriate visual aids. 8. Develop critical the skills to evaluate the appropriateness of statistical analyses for different research questions. 9. Design and conduct an indeped data analysis project and present the findings orally to the class	that niques. 3. ques to vely eir arch ferent inking c	
Literatura			
Obavezna	Navarro, D. J. (2019). Learning Statistics with R: A tutorial for psychology students and other beginners. Adelaide, Australia 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	าทุ่ล		
Polaže se DA	Isključivo kontinuirano praćenje nastave NE	Ulazi u prosjek DA	
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.		
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