Detaljni izvedbeni plan

Akademska godina: 2023/2024	**Semestar:** Zimski
Godina studija: 1	**Studiji:** Psihologija (R) (izborni) (Diplomski) Komunikologija - Interkulturalna komunikacija i novinarstvo (R) (izborni) (Diplomski) Komunikologija - Znanstveno istraživanje medija i odnosi s javnošću (R) (Diplomski) Sociologija - Upravljanje i javne politike (R) (izborni) (Diplomski) Povijest (R) (izborni) (Diplomski) Sestrinstvo (R) (izborni) (Diplomski) Sestrinstvo (I) (izborni) (Diplomski)

I. OSNOVNI PODACI O KOLEGIJU

Naziv kolegija: Data Science for Social Scientists	
Kratica kolegija: IZBD251	
ECTS bodovi: 6	**Šifra kolegija:** 252571
Preduvjeti za upis kolegija: Nema	
Ukupno opterećenje kolegija	
Vrsta nastave	**Ukupno sati**
Predavanje	30
Auditorna vježba	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	**Telefon:**
Konzultacije: Prema objavljenom rasporedu	
Suradnici na kolegiju	
Ime i prezime: Šagovac Mislav	
Akademski stupanj/naziv:	**Izbor:**
Kontakt e-mail: mislav.sagovac@unicath.hr	**Telefon:**
Konzultacije: Prema objavljenom rasporedu	

III. DETALJNI PODACI O KOLEGIJU

Jezik na kojem se nastava održava: English

Opis kolegija	This course covers the fundamentals of data science for social scientists on a graduate level, including data collection, analysis, and visualization. Students will gain hands-on experience using statistical software, data collection, statistical analysis, and machine learning algorithms to analyze data and answer social science research questions. The course will also cover effective communication of data findings, helping students develop skills to communicate their research findings to different audiences effectively.
Očekivani ishodi učenja na razini kolegija	1. Understand the basics of data science and how it can be applied to social science research. 2. Develop proficiency in using statistical software for data analysis. 3. Learn how to collect, clean, and organize data for analysis. 4. Understand different data visualization techniques and how to communicate data findings effectively. 5. Apply data science techniques to real-world social science problems and research questions.
Literatura	
Obavezna	Wickham, H., & Grolemund, G. (2017). R for Data Science: Import, Tidy, Transform, Visualize, and Model Data. O'Reilly Media, Inc.
Dopunska	Provost, F., & Fawcett, T. (2013). Data Science for Social Good: What You Need to Know about Data Mining and Data-Analytic Thinking. O'Reilly Media, Inc. McKinney, W. (2017). Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython. O'Reilly Media, Inc. Healy, K. (2018). Data Visualization: A Practical Introduction. Princeton University Press. Hastie, T., Tibshirani, R., & Friedman, J. (2009). The Elements of Statistical Learning: Data Mining, Inference, and Prediction. Springer

Način ispitivanja i ocjenjivanja

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. This will allow them to stay up-to-date with the course content and participate in discussions and group activities. In addition to attending lectures and seminars, students will be required to complete a data analysis and visualization project, which will be presented as an oral seminar presentation. This project will allow students to apply the data science skills they have learned to a real-world social science research problem. To successfully complete the course, students must accumulate at least 35% of their grade through class activities, including written and presented and seminar project. This will ensure that students are regularly engaging with the course content and actively working towards mastering the skills and concepts covered in the course.

Način ocjenjivanja	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 polaganja ispita	Class activities: Midterm exam (written), seminar presentation (written and oral) and final exam (oral)

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

IV. TJEDNI PLAN NASTAVE