

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet: Kvantitativne metode 1
Course title: Quantitative Methods 1

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Socialni menedžment (UN), prva stopnja / Social management (BSc), first level	/	2.	3.

Vrsta predmeta / Course type

Obvezni/Compulsory

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
20	0	60	0	0	130	7

Nosilec predmeta / Lecturer:

prof. dr. Matej Makarovič / Professor Matej Makarovič, Ph.D

**Jeziki /
Languages:**

**Predavanja /
Lectures:** Slovensko / Slovenian, Angleško / English
Vaje / Tutorial: Slovensko / Slovenian, Angleško / English

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Gre za osnove statistike, ni pogojev.

Prerequisites:

Basic introduction to statistics, no need for prerequisites.

Vsebina:

Opisna statistika

- Osnovni pojmi;
- Kratek pregled zgodovine statistike;
- Anketni vprašalnik;
- Vrste spremenljivk;
- Relativna števila;
- Urejanje in prikazovanje podatkov;
- Frekvenčna porazdelitev;
- Kvantili in kvantilni rang;
- Srednje vrednosti;
- Mere variabilnosti in asimetrije;
- Uporaba programskih orodij za podporo pri statistični obdelavi podatkov.

Content (Syllabus outline):

Descriptive statistics

- General concepts;
- Brief history of statistics;
- Survey questionnaire;
- Measuring scales;
- Relative numbers;
- Preparation and presentation of data;
- Frequency distributions;
- Percentiles and percentile ranks;
- Measures of central tendency;
- Measures of dispersion and skewness;
- Use of software tools to support the statistical data analysis.

Temeljna literatura in viri / Readings:

- Macur, M. (2009): *Statistika 1*. Ljubljana: Vega.
- Ferligoj, A. (1997): *Osnove statistike na prosojnicah*. Ljubljana: samozaložba.
- Pustavrh, S.; Povh J., Vidiček, M. in Govorčin, J. (2011): *Zbirka rešenih nalog iz statistike*. Ljubljana: Vega.
- Pfajfar, L. (2011): *Osnovna statistika za ekonomske in poslovne vede*. Ljubljana: Ekonomska fakulteta.
- Triola, F. M. (2004): *Elementary statistics*. Ninth edition. Pearson Education.

Cilji in kompetence:

- seznanjenost z raziskovalnimi metodami, postopki in procesi, sposobnost zbiranja in interpretiranja podatkov ter rezultatov raziskav;
- razvoj kritične in samokritične presoje;
- sposobnost fleksibilne uporabe znanja v praksi;
- sposobnost timskega dela, tj. pripravljenost na sodelovanje, kooperativnost, upoštevanje mnenj drugih in izpolnjevanje dogovorjene vloge v okviru tima oz. skupine;
- poznavanje in razumevanje utemeljitev in zgodovine razvoja temeljnih družboslovnih disciplin (stroke) in sicer s področja sociologije, političnih ved, komunikologije, ekonomije in menedžmenta, družboslovne

Objectives and competences:

- familiarity with research methods, procedures and processes, the capability of collecting and interpreting data and research results;
- development of critical and self-critical judgement;
- the ability of the flexible use of knowledge in practice;
- ability to teamwork, i.e. willingness to cooperate, cooperation, respect the opinions of others and fulfil roles within the team or group;
- knowing and understanding the foundations and history of the development of the basic social science disciplines (professions), i.e. sociology, political science, economy and management, social science informatics,

informatike, pravoznanstva, družboslovne statistike in kvalitativnih metod;

- sposobnost za reševanje konkretnih družbenih in delovnih problemov z uporabo družboslovnih znanstvenih metod in postopkov;
- sposobnost pridobivanja, selekcije, ocenjevanja in umeščanja novih informacij in zmožnost interpretacije v kontekstu družboslovja;
- razvoj veščin in spretnosti pri uporabi znanja na področju družbenih ved s pomočjo reševanja teoretičnih ali empiričnih problemov;
- sposobnost uporabe informacijsko-komunikacijske tehnologije in sistemov na področju družbenih ved.

jurisprudence, social science statistics and qualitative methods;

- the ability to solve concrete social and working problems using social scientific methods and procedures;
- the ability to collect, select, evaluate and include new information and the ability to interpret it in the context of social science;
- the development of skills and abilities to apply knowledge in the field of social sciences by solving theoretical and empirical problems;
- ability to use information and communications technologies and systems in the field of social sciences.

Predvideni študijski rezultati:

Znanje in razumevanje:

- teoretskih osnov statističnih metod;
- praktičnih vidikov statističnega opazovanja družbenih pojavov;
- postopka statistične analize;
- problema raziskave;
- statističnih spremenljivk;
- statističnih parametrov in njihova interpretacija;
- programskih orodij za podporo pri statistični obdelavi podatkov.

Intended learning outcomes:

Knowledge and understanding:

- theoretical foundations of statistical methods;
- practical aspects of statistical observation of social phenomena;
- procedures of statistical analysis;
- research problem;
- statistical variables;
- statistical parameters and their interpretation;
- software tools to support the statistical data analysis.

Metode poučevanja in učenja:

- Predavanja z aktivno udeležbo študentov (razlaga, vprašanja, primeri);
- Vaje (računsko reševanje nalog iz statistike, razumevanje logike in interpretacija rezultatov, timsko delo, metode kritičnega mišljenja, sporočanje povratne informacije);
- Vaje, ki temeljijo na izkušenjskem, sodelovalnem in problemskem učenju (samostojno učenje, diskusija, razlaga, opazovanje, timsko delo);

Learning and teaching methods:

- Lectures with the active participation of students (explanation, questions, examples);
- Seminars (computation of statistical problems, understanding the logic and interpretation of results, team work, critical thinking, communication feedback);
- Seminars based on experiential, collaborative and problem-based learning (self-directed learning, discussion, explanation, observation, teamwork);

<ul style="list-style-type: none"> • Laboratorijske vaje (vaje z aktivno udeležbo študentov, delo z računalnikom, seznanitev s programskim orodjem, upoštevanje in razumevanje navodil, samoniciativnost, sposobnost reprodukcije rezultatov, razumevanje in zmožnost interpretiranja dobljenih rezultatov); • Uporaba spletne učilnice oziroma drugih sodobnih IKT orodij; • Individualne in/ali skupinske konzultacije (diskusija, dodatna razlaga, obravnava specifičnih vprašanj). 	<ul style="list-style-type: none"> • Computer Laboratory Seminars (exercises with the active participation of students working with computers, familiarization with the software, consideration and understanding instructions, self-initiative, ability to reproduce results, understanding and ability to interpret the obtained results); • Use of online classroom or other contemporary ICT tools; • Individual and/or groups consultations (discussion, additional explanation, dealing with specific issues).
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Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
Načini: <ul style="list-style-type: none"> • Aktivno sodelovanje na vajah in/ali delo v okviru seminarskih vaj in individualno • Pisni izpit ali kolokvij 	<p>20%</p> <p>80%</p>	Types: <ul style="list-style-type: none"> • Active participation at the lectures and/or work within the seminars and individually • Written examination or colloquium
Ocenjevalna lestvica – skladno s Pravilnikom o preverjanju in ocenjevanju znanja.		Grading is in accordance with the Faculty's evaluation Ordinance.

Reference nosilca / Lecturer's references:

GOLOB, Tea, MAKAROVIC, Matej. Reflexivity and structural positions: the effects of generation, gender and education. *Social sciences*, ISSN 2076-0760, 2019, vol. 8, no. 9, str. 1-23.

GOLOB, Tea, MAKAROVIC, Matej. Student mobility and transnational social ties as factors of reflexivity. *Social sciences*, ISSN 2076-0760, 2018, vol. 7, no. 3, str. 1-18.

MAKAROVIC, Matej, PRIJON, Lea, REK, Mateja, TOMŠIC, Matevž. The Strength of Pro-European consensus among Slovenian political elites. *Historical social research*, ISSN 0172-6404, 2016, vol. 41, no. 4, str. 195-213.

GOLOB, Tea, MAKAROVIC, Matej, SUKLAN, Jana. National development nenerates national identities. *PloS one*, ISSN 1932-6203, 2016, vol. 11, no. 2, str. 0146584-1-0146584-14.

MAKAROVIC, Matej, REK, Mateja. Power and Influence-Based Political Participation in European Democracies. *Sociología*, ISSN 0049-1225, 2014, vol. 46, no. 6, str. 686-705.

MAKAROVIC, Matej, TOMŠIC, Matevž. Resilience of pro-European consensus among political elites in crisis: "old" and "new" EU member states compared. V: CONTI, Nicolò (ur.), GÖNCZ,

Borbála (ur.), REAL-DATO, José (ur.). *National political elites, European integration and the Eurozone crisis*, (Routledge research on social and political elites). Abingdon (Oxon); New York: Routledge. 2018, str. 136-160.