

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet: Kvantitativne metode 2
Course title: Quantitative Methods 2

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.	4.

Vrsta predmeta / Course type

Obvezni/Compulsory

Univerzitetna koda predmeta / University course code:

KM2 / QM2

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

Nosilec predmeta / Lecturer:

doc. dr. Predrag Ljubotina / Assist. Prof. Predrag Ljubotina, 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:

Opravljen predmet Statistika 1 ali soroden predmet.

Prerequisites:

Completed course Statistics 1 or similar.

Vsebina:

- Statistično sklepanje;
- Osnove verjetnostnega računa;
- Vzorčenje;
- Normalna porazdelitev;
- Ocenjevanje intervalov zaupanja;
- Preverjanje domnev;
- Povprečje dveh populacij;
- Kategorialni podatki;
- Enosmerna analiza variance;
- Korelacijski koeficient;
- Regresijska analiza;
- Časovne vrste;
- Uporaba programskih orodij za podporo pri statistični obdelavi podatkov.

Content (Syllabus outline):

- Inferential statistics
- Introductory probability;
- Sampling;
- Normal distributions;
- Confidence intervals estimations;
- Hypothesis testing;
- Means of two populations;
- Categorical data;
- One-way analysis of variance;
- Correlation coefficient;
- Regression analysis;
- Time series;
- Use of software tools to support the statistical data analysis.

Temeljni literatura in viri / Readings:

- Illowsky, Barbara, Dean, Susan (2023): *STATISTIC*. <https://openstax.org/k12/statistics>.
- Košmelj, Blaženka, Rovan, Jože (2003): *Statistično sklepanje*. Ljubljana: Ekonomska fakulteta.
- Košmelj, Katarina (2007): *Uporabna statistika*. Biotehnična fakulteta. Ljubljana.
- Pustavrh, Simona, Povh, Janez, Vidiček, Matija, Govorčin, Jelena (2011): *Zbirka rešenih nalog iz statistike*. Ljubljana: Vega.
- Triola, Mario F. (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 informatike, pravoznanstva, družboslovne statistike in kvalitativnih metod;

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, jurisprudence, social science statistics and qualitative methods;

- 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.

- 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 iz področja inferenčne statistike;
- praktičnih vidikov statistične analize množičnih pojavov na podlagi vzorčnih podatkov;
- zahtevnejših statističnih analiz (definicija populacije, ki bo predmet raziskave, in temeljnih hipotez raziskave, določitev aktualnih statističnih spremenljivk, izbira vzorca, pridobivanje podatkov, urejanje in prikaz podatkov, izračun najpomembnejših parametrov, potrditev ali zavrnitev hipotez);
- programskih orodij za podporo pri statistični obdelavi podatkov.

Intended learning outcomes:

Knowledge and understanding:

- theoretical foundations of statistical methods in the field of inferential statistics;
- practical aspects of statistical analysis of mass phenomena on the basis of sample data;
- more complex statistical analyses (definition of population, which will be the subject of research and fundamental research hypotheses, determine the current statistical variables, sample selection, data acquisition, editing and display data, calculation of the most important parameters to confirm or reject hypotheses);
- software tools to support the statistical data analysis.

Metode poučevanja in učenja:

- Predavanja z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov);
- Vaje, kjer bodo študentje pri konkretnih statističnih problemih ponovili, utrdili in dodatno osvetlili pojme in metode, spoznane na predavanjih;
- Vaje v računalniški učilnici: pri teh vajah bodo študentje spoznali nekaj

Learning and teaching methods:

- Lectures with active participation of students (explanation, discussion, questions, examples, problem solving);
- Seminars where students will repeat and strengthen their knowledge regarding concepts and methods related to concrete statistical problems presented during lectures and seminars;

<p>najaktualnejših programskih orodij za statistično obdelavo podatkov, s katerimi se bodo naučili izvajati vse statistične metode, ki so jih srečali na predavanjih in vajah;</p> <ul style="list-style-type: none"> • Projekt, ki ga bodo študentje pripravili v manjših skupinah. Vključeval bo konkreten statistični problem, ki ga bodo morali študentje v celoti rešiti z metodami, spoznanimi na predavanjih in vajah; • Uporaba spletne učilnice oziroma drugih sodobnih IKT orodij; • Kolokviji: z njimi bodo študentje stimulirani, da sproti študirajo snov, ki bo obravnavana na predavanjih in vajah. 	<ul style="list-style-type: none"> • Computer exercises: students will learn about some of the very latest software tools for statistical processing of data and learn how to carry out statistical methods introduced during lectures and seminars; • The project prepared in small groups of students. It will include a concrete statistical problem that will have to be fully solved by students using the methods introduced during lectures and seminars; • Use of online classroom or other contemporary ICT tools; • Colloquiums: with them students will have an incentive to keep studying content which will be discussed during lectures and seminars.
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Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
<p>Načini:</p> <ul style="list-style-type: none"> • Aktivno sodelovanje na vajah in/ali delo v okviru seminarskih vaj in individualno • Pisni izpit ali kolokvij <p>Seminarska naloga je predpogoj za pristop k izpitu. Obe oceni (seminar in izpit) morata biti pozitivni.</p> <p>Ocenjevalna lestvica – skladno s Pravilnikom o preverjanju in ocenjevanju znanja.</p>	<p>20%</p> <p>80%</p>	<p>Types:</p> <ul style="list-style-type: none"> • Active participation at the lectures and/or work within the seminars and individually • Written examination or colloquium <p>The seminar paper is a precondition for the exam. Both marks (the seminar and the exam) must be positive.</p> <p>Grading scale - in accordance with the Rules of examination and evaluation of knowledge.</p>

Reference nosilca / Lecturer's references:

LJUBOTINA, Predrag, RASPOR, Andrej. Recovery of Slovenian tourism after COVID-19 and Ukraine crisis. *Economics*, ISSN 2303-5013, 2022, vol. 10, no. 1, str. 55-72.

MACUH, Bojan, LJUBOTINA, Predrag, DŽAJIĆ, URŠIČ, Erika, RASPOR, Andrej. Importance of intergenerational cooperation for an ageing society. *International journal of regional development*, ISSN 2463-7939, 2022, vol. 3, str. 183-199.

LJUBOTINA, Predrag. The influence of entrepreneurial skills, education and risk perception on career choice intent: the case of European students with family business background. *Research in social change*, ISSN 1855-4202, 2020, vol. 12, no. 1, str. 23-37.

LJUBOTINA, Predrag, GOMEZELJ, OMERZEL, Doris, VADNJAL, Jaka. Succeeding a family business in a transition economy: following business goals or do it in my own way? *Serbian Journal of Management*, ISSN 1452-4864, 2018, vol. 13, no. 1, str. 29-46.

LJUBOTINA, Predrag, VADNJAL, Jaka. Family Business Succession: Does Experience Gained in Family Firm Really Count? *Management*, ISSN 1854-4231, 2018, vol. 13, no. 4, str. 301-322.

LJUBOTINA, Predrag, VADNJAL, Jaka. Succeeding a family business in a transition economy : is this the best that can happen to me? *Kybernetes: the international journal of systems & cybernetics*, ISSN 0368-492X, 2017, vol. 46, no. 8, str. 1366-1385.

VADNJAL, Jaka, LJUBOTINA, Predrag. Professional trilemma of students with family business experience. *Kybernetes: the international journal of systems & cybernetics*, ISSN 0368-492X, 2016, vol. 45, no. 3, str. 446-460.

KOCIPER, Tina, LJUBOTINA, Predrag, VADNJAL, Jaka. Entrepreneurial characteristics and aspirations influencing career choice in tourism family businesses. *Academica turistica: tourism & innovation journal*, ISSN 1855-3303, 2014, [Tiskana izd.], vol. 7, no. 2, str. 193-201.

LJUBOTINA, Predrag, BOJNEC, Štefan, VADNJAL, Jaka. Macroeconomic factors formnig family business heir's career choice intention. *Acta Oeconomica*, ISSN 0001-6373, 2019, vol. 69, no. 3, str. 425-444.

LJUBOTINA, Predrag. The influence of entrepreneurial skills, education and risk perception on career choice intent: The case of European students with family business background. *Research in Social Change*.

VADNJAL, Jaka, LJUBOTINA, Predrag. Karierne možnosti naslednikov družinskih podjetij. *Economic and business review*, ISSN 1580-0466, 2019, [Tiskana izd.], letn. 21, pos. št., str. 253-261.

LJUBOTINA, Predrag, VADNJAL, Jaka, TURK, Dunja. Kako vzgojiti več mladih podjetnikov: karierni načrti študentov. *Weekend: redna priloga časnika Finance*, 20.6.2014, str. 2-6.

LJUBOTINA, Predrag, VADNJAL, Jaka. Kdo bo prevzel družinska podjetja? *Weekend: redna priloga časnika Finance*, 27.6.2014, str. 2-6.

LJUBOTINA, Predrag, VADNJAL, Jaka. Career choice intentions of students with family business background. V: ANTONČIČ, Boštjan (ur.). *Conference proceedings, Advances in Business - Related Scientific Research Conference - ABSRC 2014, Venice, Italy, March 26-28, 2014*. Piran: Gea College - Faculty of Entrepreneurship, str. 1-11.

LJUBOTINA, Predrag. Family Business heir's trilemma: Transition vs. market economies. V:

3rd International Scientific Conference on Business and Economics (ISCBE): From Transition to Development: Emerging Challenges and Perspectives, held in Skopje, Macedonia, 13-15 June 2019.

LJUBOTINA, Predrag. Family Business heir's career choice in european countries. V: *May Conference on Strategic Management (IMCSM19)*, held in Bor, Serbia, 24-26 May 2019.

VADNJAL, Jaka, LJUBOTINA, Predrag. To be or not to be in a family business: the case of eight countries in South-Eastern European region. V: Dana, Léo-Paul (ur.), Ramadani, Veland (ur.). *Family businesses in transition economies: management, succession and internationalization*. Heidelberg [etc.]: Springer. cop. 2015, str. 99-111.

VADNJAL, Jaka, LJUBOTINA, Predrag. Dileme naslednikov družinskih podjetij v Sloveniji in drugje. V: Sedmak, Gorazd (ur.), et al. *Spodbujanje ruralnega turizma = Poticanje ruralnog turizma*. Koper: Založba Univerze na Primorskem; u Rijeci: Fakultet za menedžment u turizmu i ugostiteljstvu, Sveučilište. 2015, str. 69-77.