

**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

<b>Predmet:</b>	<i>Kvantitativne in kvalitativne metode</i>
<b>Course title:</b>	Qualitative and Quantitative Methods

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Edukacija in menedžment v zdravstvu – 3. stopnja, doktorski program	/	I.	2.
<i>Education and Management in Health Care- 3<sup>rd</sup> cycle</i>	/	I <sup>st</sup>	2 <sup>nd</sup>

**Vrsta predmeta / Course type**

**Univerzitetna koda predmeta / University course code:**

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
45	45	0	0	0	160	10

**Nosilec predmeta / Lecturer:**

<b>Jeziki / Languages:</b>	<b>Predavanja / Lectures:</b>	slovenski/Slovenian
	<b>Vaje / Tutorial:</b>	slovenski/Slovenian

<b>Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:</b>	<b>Prerequisites:</b>
Vpis v študijski program.	Enrolment in the study programme.

**Vsebina:**

- Pomen in uporaba statističnih metod v vsakdanjem življenju.
- Populacija in statistični vzorec.
- Merjenje in klasifikacija statističnih znakov, njihova kondenzacija in grafično prikazovanje.
- Relativna števila, mere splošne tendence, mere slučajnih vplivov.
- Normalna distribucija in normalizacija podatkov.
- Mere asimetrije in sploščenosti.
- Stohastične povezave in teorija korelacije.
- Teorija vzorčenja in statistična indukcija.
- Vzorčne distribucije in preizkušanje hipotez.
- Statistični testi.

**Content (Syllabus outline):**

- The meaning and use of statistical methods in everyday life.
- Population and statistical sample.
- Measurement and classification of statistical characters, their condensation and graphical display.
- Relative numbers, the general tendency, the dimensions of the random effects.
- The normal distribution and normalisation of data.
- Measurements of asymmetry and kurtosis.
- Stochastic connections and the correlation theory.
- The sampling theory and statistical induction.

- The sample distribution and testing of hypotheses.
- Statistical tests.

### Temeljni literatura in viri / Readings:

- Bazeley, P. (2013). *Qualitative data analysis: practical strategies*. Los Angeles [etc.]: Sage.
- Gerrish, K. in Lacey, A. (2010). *The Research process in nursing, 6th ed.* Chichester, Ames, Iowa: Wiley-Blackwell.
- Dancey, C., Reidy, J. in Rowe, R. (2012). *Statistics for the health sciences: a non-mathematical introduction*. Los Angeles [etc.]: Sage
- Saldaña, J. (2013). *The coding manual for qualitative researchers, 2nd ed.* Los Angeles [etc.]: Sage.
- Young-Brockopp, D. in Hastings-Tolsma, M. T. (2003). *Fundamentals of Nursing Research*. London: Jones and Bartlett Publishers.
- Polit, D. F. in Beck Tatano, C. (2004). *Nursing research: principle and methods*. Philadelphia: Lippincott Williams & Wilkins.
- Munhall, P. L. (2007). *Nursing research: a qualitative perspective*. London: Jones and Bartlett Publishers.
- Ferguson, G. A. (2005). *Statistical analysis in psychology and education*. New York: McGraw-Hill.
- Petz, B. (1980). *Statistične metode za nematematičare*. Zagreb: Sveučilišna naklada Liber.
- Altman, D. (1990). *Practical Statistics for Medical Research*. Chapman & Hal.
- Bland, M. (2000). *An introduction to Medical Statistics (3rd ed.)*. OUP Oxford.
- Matthews, D. E., Farewell, V. T. (1996). *Using and understanding medical statistics (3rd ed.)*. Basel: Karger.
- Katz, M. H. (1999). *Multivariable analysis: a practical guide for clinicians*. Cambridge: Cambridge University Press.

### Cilji in kompetence:

- poznavanje profesionalne etike, nacionalne in mednarodne zakonodaje, priznavanje in spoštovanje moralnih in etičnih načel in vrednot ter njihova uporaba pri raziskovalnem delu,
- obvladovanje kvantitativnih in kvalitativnih metod, teorije odnosov spremenljivk, teorije reprezentativnosti in odločanja.
- usposobljenost za uporabo informacijsko-komunikacijske tehnologije z učinkovito uporabo virov v raziskovalnem delu,
- usposobljenost za pisanje strokovnih poročil, strokovnih analiz in izsledkov.

### Objectives and competences:

- knowing professional ethics and health care legislation, recognising and observing moral principles and values as well as applying them in professional work.
- complete mastering of quantitative and qualitative methods, the theory of variables relationships, the theory of representativeness and decision making.
- being qualified to use the ICT for an effective use of resources in research work,
- being qualified for writing technical reports, analyses and findings.

**Predvideni študijski rezultati:****Student:**

- razume pomen raziskovalnega dela v zdravstvu,
- se usposobi za uporabo etičnih zahtev in načel ter pravnih norm pri raziskovalnem delu,
- se seznani z oblikami in metodami raziskovalnega dela,
- se usposobi za kritično uporabo domače in tuje literature in različnih virov zbiranja in interpretiranja podatkov,
- se usposobi za predstavitev raziskave v pisni in ustni obliki,
- se usposobi za delo v raziskovalnih skupinah,
- spozna raziskovalne paradigme in raziskovalne pristope, ki oblikujejo na dokazih temelječe zdravstvo,
- kritično vrednoti različne načine razvrščanja raziskovanja v zdravstvu,
- razmišlja o etičnih dimenzijah raziskovanja,
- preučuje in kritično analizira načrt raziskave glede na izbrano področje in metodologijo,
- pridobiva znanja za kompleksno razumevanje povezanosti med teorijo, prakso in raziskovanjem,
- usposobi se za implementacijo spoznanj v prakso.

**Intended learning outcomes:****Students:**

- understand the meaning of the research work in health care,
- are qualified for application of ethical principles and demands, as well as legal norms in research work,
- get acquainted with forms and methods of research work,
- are qualified for critical application of domestic and foreign literature and different resources for collection and interpretation of data,
- are qualified for presenting a research in spoken and written form,
- are qualified for work in research groups,
- get to know the research paradigms and approaches, which form the evidence-based health care,
- critically evaluate different types of categorisation of research in health care,
- discuss the ethical dimensions of research,
- investigate and critically analyse the research plan in accordance with the selected area and methodology,
- acquire knowledge for complex understanding of interconnection among the theory, practice and research,
- are qualified for implementation of scientific findings into practice.

**Metode poučevanja in učenja:**

- *predavanja* z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov),
- *seminarji*:
  - načrt za raziskavo,
  - izvedba raziskave z uporabo kvantitativnih/kvalitativnih metod (voden individualni študij),
  - izdelava, predstavitev in zagovor raziskovalne naloge.
- konzultacije (individualne in kolektivne);
- izpit.

**Learning and teaching methods:**

- lectures with active student participation (explanation, discussion, questions, examples, problem solving),
- *seminars*:
  - research plan,
  - performing a research by using qualitative/quantitative methods (guided individual study),
  - preparation, presentation and defence of the research paper.
- consultations (individual and group);
- exam.

<b>Načini ocenjevanja:</b>	Delež (v %) / Weight (in %)	<b>Assessment:</b>
<p>Načini:</p> <ul style="list-style-type: none"> <li>• aktivno sodelovanje v organiziranih oblikah pedagoškega dela,</li> <li>• izpit - 60 % ocene,</li> <li>• temeljna ali aplikativna raziskovalna naloga z zagovorom (obseg 30.000 znakov) – 40 % ocene.</li> </ul> <p>Ocenjevalna lestvica: <b>uspešno, neuspešno.</b></p>	<p>60 40</p>	<p>Types:</p> <ul style="list-style-type: none"> <li>• active cooperation in the organised forms of study work,</li> <li>• exam - 60% of the final grade,</li> <li>• fundamental or applicative research paper with defence (30,000 characters) - 40% of the final grade.</li> </ul> <p>Grading scale: <b>pass, fail</b></p>