UČNI NAČRT MIKRODOKAZILA / MICRO-CREDENTIAL SYLLABUS

Naziv mikrodokazila: *Micro-credential title:*	**Uvod v javno zdravje in zdravstveno politiko** / Introduction to Public Health and Health Policy
Študijsko področje po KLASIUS P-16 *Study field according to KLASIUS P-1c:*	09
Razvrstitev v SOK: *SQF Classification in*	07
Razvrstitev v EOVK: *QF-EHEA Classification*	07
Razvrstitev v EOK: *EQF Classification*	07
Univerzitetna koda/ *University code:*	TBD
Način izvedbe (klasično, hibridno, na daljavo) *Method of implementation (classic, hybrid, online)*	hybrid

Predavanja *Lectures*	Seminar *Seminar*	Vaje *Tutorial*	Terenske vaje *Field work*	Druge oblike študija *Other forms of study*	Samostojno delo *Individual work*	ECTS
7	/	3	/	/	20	1

Nosilec predmeta/ *Lecturer*:	Višji znan. sod. dr. Rok Hren
(So)izvajalci/ (*Co)-Lecturers:*	/
Jezik izvedbe *Language of instruction*	**English**
Maksimalno število udeležencev *Maximum number of participants:*	30

Merila za izbor udeležencev v primeru večjega interesa od razpisanih mest:	*Criteria for selecting participants in the event of greater interest than the number of places available:*
Vsaj zaključen dodiplomski študij	Completed at least bachelor's degree

Pogoji za vključitev:	*Prerequisites:*
Enako kot zgoraj	Same as above

Vsebina:	*Content (Syllabus outline):*
Predmet podaja pregled temeljnih načel, funkcij in sodobnih izzivov javnega zdravja ter zdravstvene politike. Udeleženci bodo spoznali povezavo med zdravjem in družbeno-ekonomskim razvojem, ključne funkcije sistemov javnega zdravja, pristope k spremljanju zdravstvenega stanja prebivalstva, strategije preprečevanja bolezni ter politične ukrepe za izboljšanje zdravja prebivalstva. Posebna pozornost je namenjena nenalezljivim boleznim, organizaciji zdravstvenih sistemov, ocenjevanju njihove uspešnosti ter vlogi odločanja na podlagi dokazov pri spodbujanju sprememb na področju javnega zdravja. Teme 1. Zdravje in blaginja Povezava med zdravjem in gospodarskim razvojem Zdravje kot človeški kapital Družbene in ekonomske posledice slabega zdravja 2. Uvod v javno zdravje Opredelitev in področje javnega zdravja Perspektiva zdravja prebivalstva Zgodovinski razvoj javnega zdravja 3. Temeljne funkcije javnega zdravja Ključne funkcije javnega zdravja Upravljanje in skrbništvo Institucije javnega zdravja in deležniki 4. Spremljanje zdravja in zdravstveni informacijski sistemi Zdravstveni kazalniki in merjenje zdravja	The course provides an overview of the principles, functions, and contemporary challenges of public health and health policy. Students will explore the relationship between health and socioeconomic development, the core functions of public health systems, approaches to health monitoring, disease prevention strategies, and policy interventions aimed at improving population health. Attention is given to noncommunicable diseases, health system organization, performance assessment, and the role of evidence-informed policymaking in driving public health change. Topics: 1. Health and Wealth Relationship between health and economic development Health as human capital Societal and economic consequences of poor health 2. Introduction to Public Health Definitions and scope of public health Population health perspective Historical development of public health 3. Essential Public Health Operations Core public health functions Governance and stewardship Public health institutions and stakeholders 4. Health Monitoring and Health Information

prebivalstva Sistemi zdravstvenega nadzora Podatki za odločanje 5. Strategije preprečevanja bolezni Primarna, sekundarna in terciarna preventiva Promocija zdravja Populacijski in individualni ukrepi 6. Ekonomika preventive Ekonomska utemeljitev preventive Stroškovna učinkovitost in vrednost preventivnih ukrepov Vlaganje v zdravje prebivalstva 7. Obvladovanje nenalezljivih bolezni Najpomembnejše nenalezljive bolezni in dejavniki tveganja Strategije preprečevanja in obvladovanja Medsektorski pristopi 8. Spodbujanje sprememb v javnem zdravju Oblikovanje in izvajanje politik Vodenje in zagovorništvo Vključevanje deležnikov 9. Zdravstveni sistemi Modeli zdravstvenih sistemov Financiranje, izvajanje in regulacija zdravstvenega varstva Univerzalna zdravstvena pokritost 10. Ocenjevanje uspešnosti zdravstvenih sistemov Razsežnosti uspešnosti Kakovost, učinkovitost, pravičnost in vzdržnost Okviri za primerjalno ocenjevanje	Systems Health indicators and population health measurement Surveillance systems Data for decision-making 5. Prevention Strategies Primary, secondary, and tertiary prevention Health promotion Population-based and individual interventions 6. Economics of Prevention Economic rationale for prevention Cost-effectiveness and value of preventive interventions Investing in population health 7. Tackling Noncommunicable Diseases Major NCDs and risk factors Prevention and control strategies Multisectoral approaches 8. Driving Change in Public Health Policy development and implementation Leadership and advocacy Stakeholder engagement 9. Health Care Systems Models of health care systems Financing, provision, and regulation Universal health coverage 10. Health System Performance Assessment Dimensions of performance Quality, efficiency, equity, and sustainability Comparative assessment frameworks.

Literatura in viri/*Readings:*

Enako kot v angleški različici.	Public Health Textbook https://www.healthknowledge.org.uk/public-health-textbook - available online https://blogs.worldbank.org/en/health/human-capital-and-health - available online Essential public health functions, health systems and health security https://iris.who.int/server/api/core/bitstreams/398d7efa-cd89-4724-9784-

	f59743f38a8d/content - available online Health system performance assessment a framework for policy analysis https://iris.who.int/server/api/core/bitstreams/266443fd-e3c2-4c02-ad69-a5e7d99b5e3d/content - available online Meikirch model https://meikirch-modell.ch/en/texts/ - available online 10 Essential Public Health Services https://www.cdc.gov/public-health-gateway/php/about/index.html - available online

Druge pomembne sestavine (npr. licence, orodja, pripomočki ipd.):	*Other important components (e.g. licenses, tools, utilities, etc.):*
/	/
Cilji in kompetence:	*Objectives and competences:*
Po uspešno opravljenem predmetu bodo študenti sposobni: 1. Pojasniti temeljne pojme, načela in funkcije javnega zdravja. 2. Opisati povezavo med zdravjem prebivalstva, družbenim razvojem in gospodarsko blaginjo. 3. Prepoznati ključne sestavine sistemov javnega zdravja in zdravstvenih sistemov. 4. Razumeti vlogo spremljanja zdravstvenega stanja in zdravstvenih informacij pri odločanju na podlagi dokazov. 5. Razpravljati o glavnih strategijah	Upon successful completion of the course, students will be able to: 1. Explain the fundamental concepts, principles, and functions of public health. 2. Describe the relationship between population health, social development, and economic prosperity. 3. Identify the key components of public health systems and health care systems. 4. Understand the role of health monitoring and health information in evidence-informed policymaking.

preprečevanja bolezni ter njihovem prispevku k izboljšanju zdravja prebivalstva. 6. Pojasniti ekonomsko utemeljitev vlaganj v preventivo in ukrepe javnega zdravja. 7. Opisati breme nenalezljivih bolezni ter politične in strokovne pristope za njihovo obvladovanje. 8. Prepoznati pomen vodenja, upravljanja in vključevanja deležnikov pri spodbujanju sprememb na področju javnega zdravja. 9. Razumeti temeljna načela ocenjevanja uspešnosti zdravstvenih sistemov. 10. Kritično presojati sodobne izzive na področju javnega zdravja in zdravstvene politike.	5. Discuss major prevention strategies and their contribution to improving population health. 6. Explain the economic rationale for investing in prevention and public health interventions. 7. Describe the burden of noncommunicable diseases and policy approaches for addressing them. 8. Recognize the importance of leadership, governance, and stakeholder engagement in public health change. 9. Understand the principles of health system performance assessment. 10. Critically reflect on contemporary public health and health policy challenges.

Predvideni učni izidi:	*Intended learning outcomes:*
Po uspešno opravljenem predmetu bodo študenti sposobni: *Znanje in razumevanje* 1. Interpretirati in obravnavati izzive javnega zdravja z vidika zdravja prebivalstva. 2. Uporabljati temeljne koncepte javnega zdravja in zdravstvene politike pri analizi sodobnih zdravstvenih problemov. *Uporaba in refleksija* 1. Presojati potencialne učinke preventivnih ukrepov in političnih intervencij na zdravje prebivalstva. 2. Kritično razpravljati o prednostih in omejitvah različnih pristopov k izboljševanju uspešnosti zdravstvenih sistemov in zdravja prebivalstva.	Upon successful completion of the course, students will be able to: *Knowledge and understanding:* 1. Interpret and discuss public health challenges from a population health perspective. 2. Apply basic public health and health policy concepts to analyze contemporary health issues. *Use and reflection:* 1. Reflect on the potential impact of prevention and policy interventions on population health outcomes. 2. Critically discuss strengths and limitations of different approaches to improving health system performance and population health.

Metode učenja in poučevanja	*Learning and teaching methods:*
- Vsebine predmeta (prosim glejte zgoraj) bodo izvedene v obliki interaktivnih predavanj (7 ur) in spletnih konzultacijskih srečanj za pojasnila, vprašanja in razpravo (3 ure).	- Topics (please see above) will be covered in the format of interactive lectures (7 hours) + on-line clarification sessions (3 hours).

Način preverjanja in ocenjevanja: *Type of examination and assessment:*

Način (pisni izpit, ustni izpit, naloge, idr.)	Delež (v %): *Weight (in %)*	*Type (written exam, oral exam, assignments, etc.)*
Pisni izpit (na daljavo, ročno pisan, 90 minut), sestavljen iz petih esejskih vprašanj, ki zahtevajo analitične in strukturirane odgovore	**100%**	Written examination (online, handwritten, 90 minutes), consisting of five essay questions requiring analytical and well-structured responses

Pogoji za pridobitev mikrodokazila:

Mikrodokazilo bo podeljeno udeležencem, ki:

- se udeležijo 100 % predavanj; in
- dosežejo pozitivno oceno pri končnem preverjanju znanja.

Minimal standards for obtaining micro-credential:

A micro-credential will be awarded to participants who:

- Attend 100% of classes; and
- Obtain a passing grade in the final assessment

Reference nosilca/*Lecturer's references:*

- Behzadifar M, Talebzadeh B, Aalipour A, Bakhtiari A, Azari S, Yarahmadi M, Nematkhah M, Aryankhesal A, Darvishi Teli B, Behzadifar M, Hren R. Exploring the challenges of developing hospital-based health technology assessment in Iran: a qualitative study. Health Res Policy Syst. 2026 Apr 16.

- Imre A, Nagy B, Hren R. Assessing the Early Economic Feasibility of a Curative Gene Therapy for Multiple Sclerosis Using a Risk-Adjusted Valuation Framework. Healthcare (Basel). 2026; 14(5):674.

- Hren R, Dóczi T, Országh E, Kocjan T. The Significance of Hypophosphatemia in Deciding on an Optimal Clinical Choice of Parenteral Iron Therapy in Patients with Chronic Inflammatory Bowel Disease in Slovenia: An Umbrella Review and Economic Evaluation. Healthcare (Basel). 2026 Feb 4;14(3):393.

- Kaló Z, Petrova G, Németh B, Bonča PD, Delnoij D, Bennett A, Tachkov K, Zhang Y, Kreif N, Knies S, Lipska I, Tesar T, Mitkova Z, Ponten J, Viberg A, Paveliu MS, Piniazkho O, Turcu-Stiolica A, Doležal T, Staňák M, Almadiyeva A, Hren R, Vitezić D, Petykó Z, Goettsch W, Manca A. Transferability of Real World Evidence to Support HTA Recommendations in Lower Income European Countries. Health Sci Rep. 2026 Jan 27;9(2):e71534.

- Mosli MH, Almutairdi AA, Alshahrani AM, Alkhurmi AM, Fasseeh AN, Anwar AM, Alharbi BM, Altawil ES, Alshareef HJ, Alqasim HA, Alharbi IH, El-Fass KA, Alanizy LN, Almehizia RA, Hren R, Iskandarani WK, Alabdulkarim HA. Cost calculation model of introducing Upadacitinib and Risankizumab for adult ulcerative colitis and Crohn's disease in the Kingdom of Saudi Arabia. Saudi J Gastroenterol. 2026 Jan 1;32(1):66-78.

- Imre A, Nagy B, Hren R. Early-Stage Health Technology Assessment of a Curative Gene Therapy for Multiple Sclerosis. Br J Clin Pharmacol. 2025;1-9.

- Kluszczynski T, Nemeth B, Władysiuk M, Czech M, Kamusheva M, Fotin N, Rose S, Doležal T, Hren R. Optimizing Patient Access to Orphan Medicinal Products: Lessons from Central and Eastern Europe. Journal of Market Access & Health Policy. 2025; 13(2):24.

- Nader Fasseeh A, Salem AA, Khalifa AY, ElBerri AK, Abaza N, Elezbawy B, Al Qasseer N, Nagy B, Kaló Z, Németh B, Hren R. Cost Utility Modeling of Reducing Waiting Times for Elective Surgical Interventions: Case Study of Egyptian Initiative. Healthcare (Basel). 2025 Jul 7;13(13):1619.

- Hren R, Abaza N, Elezbawy B, Khalifa A, Fasseeh AN, Al Gasseer N, Kaló Z. Economic Benefits of Reduced Waiting Times for Elective Surgeries: A Systematic Literature Review. Cureus. 2025 17(2):e79417.

- Pitter JG, Nagy L, Nagy B, Hren R. Development Perspectives for Curative Technologies in Primary Demyelinating Disorders of the Central Nervous System with Neuromyelitis Optica Spectrum Disorder (NMOSD) and Myelin Oligodendrocyte Glycoprotein Antibody-Associated Disease (MOGAD) at the Forefront. J Pers Med. 2024 Jun 4;14(6):599.

- Tachkov K, Somolinos-Simón F, Tapia-Galisteo J, Hernando ME, García-Sáez G, Dimitrova M, Kamusheva M, Mitkova Z, Petyko Z, Nemeth B, Kalo Z, Tesar T, Paveliu M-S, Piniazhko O, Lipska I, Turcu-Stiolica A, Savova A, Manova M, Hren R, Došenović Bonča P, Knies S, Stanak M, Doležal T, Vitezic D, Petrova, G. Transferability of new methods for health technology assessment in the field of diabetes between early and late adopters' countries. Biotechnology & Biotechnological Equipment. 2024; 38(1).

- Lipska I, Di Bidino R, Niewada M, Nemeth B, Bochenek T, Kukla M, Więckowska B, Sobczak A, Iłowiecka K, Zemplenyi A, Martelli N, Martin T, Filiniuk O, Kosyachenko K, Sucu R, Piniazhko O, Zaliska O, Avdeyev A, Shanazarov N, von Pinoci M, Hren R. Overcoming Barriers in Hospital-Based Health Technology Assessment (HB-HTA): International Expert Panel Consensus. Healthcare (Basel). 2024; 12(9):889.

- Jakab I, Dimitrova M, Houÿez F, Bereczky T, Fövényes M, Maravic Z, Belina I, Andriciuc C, Tóth K, Piniazhko O, Hren R, Gutierrez-Ibarluzea I, Czech M, Tesar T, Niewada M, Lorenzovici L, Kamusheva M, Manova M, Savova A, Mitkova Z, Tachkov K, Németh B, Petykó ZI, Dawoud D, Delnoij D, Knies S, Goettsch W, Kaló Z. Recommendations for patient involvement in health technology assessment in Central and Eastern European countries. Front Public Health 2023 Jul 3;11:1176200.

- Németh B, Kamusheva M, Mitkova Z, Petykó ZI, Zemplényi A, Dimitrova M, Tachkov K, Balkányi L, Czech M, Dawoud D, Goettsch W, Hren R, Knies S, Lorenzovici L, Maravic Z, Piniazhko O, Zerovnik S, Kaló Z. Guidance on using real-world evidence from Western Europe in Central and Eastern European health policy decision making. J Comp Eff Res 2023 Apr;12(4):e220157.

- Zemplényi A, Tachkov K, Balkanyi L, Németh B, Petykó ZI, Petrova G, Czech M, Dawoud D, Goettsch W, Gutierrez Ibarluzea I, Hren R, Knies S, Lorenzovici L, Maravic Z, Piniazhko O, Savova A, Manova M, Tesar T, Zerovnik S, Kaló Z. Recommendations to overcome barriers to the use of artificial intelligence-driven evidence in health technology assessment. Front Public Health 2023 Apr 26;11:1088121.

- Kovács S, Kaló Z, Daubner-Bendes R, Kolasa K, Hren R, Tesar T, Reckers-Droog V,

Brouwer W, Federici C, Drummond M, Zemplényi AT. Implementation of coverage with evidence development schemes for medical devices: A decision tool for late technology adopter countries. Health Econ. 2022 Sep; 31(Suppl 1):195-206.

- Brodszky V, Beretzky Z, Baji P, Rencz F, Pentek M, Rotar A, Tachkov K, Mayer S, Simon J, Niewada M, Hren R, Gulacsi L. Cost-of-illness studies in nine Central and Eastern European countries. Eur J Health Econ 2019; 20:155-172.

- Hren R. Impact of the Pharma Economic Act on Diffusion of Innovation and Reduction of Costs in the Hungarian Prescription Drug Market (2007-2010). Value Health Reg Issues. 2013 Sep-Oct;2(2):290-299.

- Hren, R. Theoretical shortcomings of the Grossman model. Bulletin: Economics, Organisation and Informatics in Healthcare. 2012; 28(1), 63-75.