

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	FORENZIKA UPRAVLJANJA IN MANAGEMENTA RAZVOJNIH
Course title:	PROJEKTOV (v partnerskem sodelovanju z LENS Living Lab® International Collaborative Academy - ICA)
	FORENSICS OF GOVERNANCE AND PROJECT MANAGEMENT (in collaboration with the ICA- International Collaborative Academy of the LENS Living Lab®)

FORENZIČNE PREISKAVE V FINANCAH IN RAČUNOVODSTVU Magistrski študij		3	1 / 2
FINANCE AND ACCOUNTING FORENSIC INVESTIGATIONS Master degree		3	1/2

Vrsta predmeta / Course type

IZBIRNI / ELECTIVE COURSE (management) REDNI / CORE
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Univerzitetna koda predmeta / University course code:

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Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Laboratory work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
40	10	10	0	0	90	6

Nosilec predmeta / Lecturer:

Izr.prof.dr.Branko Semolič

**Jeziki /
Languages:**

Predavanja / Lectures:	SLOVENSKO
Vaje / Tutorial:	SLOVENSKO

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

Zaključen visokošolski ali univerzitetni program izobraževanja	Completed higher or university education program
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Vsebina:**Content (Syllabus outline):**

<p>Vsebina predmeta predstavlja del mednarodnega ICA programa »LENS Living Lab Projektnih šol®«, ki so namenjene strokovnjakom in managerjem, ki se ukvarjajo z inovacijsko-razvojno dejavnostjo.</p> <p>Vsebina predmeta:</p> <ol style="list-style-type: none"> 1. Značilnosti sodobnega poslovnega okolja Industrije 4.0 in digitalizacija poslovanja, 2. Poslovni ekosistem sodobne organizacije, 3. Procesi sodobne agilne in učeče organizacije, 4. Inovacije in management inovacijskih procesov, 5. Inovacijsko-razvojni projekti in programi, 6. Vrste in značilnosti sodobnih inovacijsko-razvojnih projektov, 7. Razvojna strategija organizacije in projekti 8. Osnove upravljanja in managementa inovacijsko-razvojnih projektov in programov, 9. Mednarodni standardi ISO 56000 in ISO 21500, 10. Panožni in strokovni standardi, 11. Usposobljenost za upravljanje in management projektov in programov, 12. Poslovna in projektna odličnost, 13. Izhodišča za forenzično presojo ustreznosti opazovanega primera managementa projekta ali programa 	<p><i>The content of this course is part of the international ICA program "LENS Living Lab® Project Schools," which are designed for the needs of industry researchers, developers and managers.</i></p> <p>Syllabus outline:</p> <ol style="list-style-type: none"> 1. Characteristics of the Industry 4.0 contemporary business environment and digitalization of business, 2. The business ecosystem of an Industry 4.0 organization, 3. Processes of an agile and learning organization, 4. Governance and management of innovation processes, 5. Innovation development projects / programs, 6. Types and characteristics of contemporary innovation and development projects/programs, 7. The relations between organizations' strategies and projects/programs, 8. Basics of governance and management of innovation and development projects/programs, 9. International standards ISO 56000 and ISO 21500, 10. Industry and professional standards, 11. Competence for governance and management of projects/programs, 12. Business and project excellence, 13. 13. Points of departure for the forensic assessment of the adequacy of the observed project/program management business case
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Temeljni literatura in viri / Readings:

Gido Jack & James P.Clements: Successful Project Management, Thomson (2003), ISO21 000, ISO56 000, članki predavatelja objavljeni na mednarodni platformi: **PM World Library:** <https://pmworldlibrary.net/>

Cilji in kompetence:

Objectives and competences:

<ol style="list-style-type: none"> 1. Poznavanje poslovnega okolja in zakonitosti procesov sodobne agilne organizacije; 2. Poznavanje inovacijsko-projektnih procesov; 3. Poznavanje upravljanja in managementa razvojno inovacijskih projektov; 4. Poznavanje mednarodnih in strokovnih standardov upravljanja ter managementa projektov; 5. Poznavanje koncepta projektne odličnosti; 6. Sposobnost praktične forenzične presoje ustreznosti upravljanja in managementa predlaganih ali/in izvedenih inovacijsko-razvojnih projektov 	<ol style="list-style-type: none"> 1. Understanding of the business environment and related processes of a modern agile organization; 2. Understanding of project-based innovation and development processes; 3. Understanding of the governance and management issues of the innovation and development projects; 4. Understanding of international and professional standards of project governance and management; 5. Understanding of the concepts of business and project excellence; 6. The ability of forensic assessments of the adequacy of governance and management practices of proposed and/or implemented innovation and development projects
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Predvideni študijski rezultati:

Intended learning outcomes:

<p>Namen predmeta je da študent spozna osnovne upravljanja in managementa inovacijsko-razvojnih projektov, v povezavi z zahtevami sodobnega poslovnega okolja Industrije 4.0. Poudarek je na sposobnosti presoje prisotnosti in uporabe veljavnih mednarodnih strokovnih standardov ter praks v opazovanih primerih iz prakse.</p>	<p>The main purpose of the course is to get students acquainted with the basics of the governance and management of various innovation and development projects in connection with the requirements of the modern business environment of Industry 4.0. The main focus is on the students' ability to assess the presence and application of applicable international professional standards and practices in observed business cases.</p>
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Metode poučevanja in učenja:

Learning and teaching methods:

<p>RAZLAGA: 30% ; DEMONSTRACIJA: 50% ; POGOVOR: 10% ; DRUGO: 10% in to: seminarska naloga, primeri.</p>	<p>INTERPRETATION: 30%; DEMONSTRATION: 50%; CHAT: 10% OTHER: 10% and this: seminar, examples.</p>
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Načini ocenjevanja:

Assessment:

	Delež (v%) / Weight (in %)	
Pisni izpit	60	written examination
OCENA IZDELKA	40	Preparation of a seminar
DRUGO - sprotno preverjanje znanja	0	OTHER - ongoing examination

Reference nosilca:

Lecturer's references:

Prof. dr. Branko (Brane) Semolič je študiral strojništvo (1974) in tehniško-ekonomijo (1978) na Univerzi v Mariboru. Oboje je nadgradil z znanstvenim magisterijem (1986) in doktoratom (1991) s področja poslovne informatike. Strokovni interesi: management tehnologij in sistemov, management procesov in inovacij, virtualizacija poslovanja, projektni management ter management znanja. 40 let delovnih izkušenj je pridobil v različnih panogah, kot so: strojogradnja, IKT, kemijska industrija, barvna metalurgija, industrija bele tehnike, management consulting, izobraževanje in Vlada RS – Ministrstvo za znanost in tehnologijo. Deloval je kot strokovnjak, razvojniki, raziskovalec, manager, podjetnik, direktor, svetovalec, trener in profesor. Od leta 1995 – 2003 je bil predavatelj in vodja laboratorija za projektni management ter informacijske sisteme na Fakulteti za strojništvo, v obdobju 2008 in 2011 predstojnik Inštituta za management projektov in tehnologij na Fakulteti za logistiko Univerze v Mariboru. Na tej fakulteti je bil nosilec predmetov managementa projektov in tehnologij na dodiplomskem in podiplomskem študiju. Predaval je na podiplomskem mednarodnem programu »Evropski projektni manager«, koordiniranem s strani Univerze Bremen ter bil sopredlagatelj evropskega partnerskega magistrskega programa s področja projektnega managementa – EuroMPM. Kot gostujoči profesor je predaval na Univerzi južne Danske (SDU) v Odense, na Univerzi v Zaragoza, Sibirski državni univerzi za aeronavtiko in vesolje Krasnojarsk ter na Univerzi aplikativnih znanosti Giessen-Friedberg. Je NAKVIS presojevalec za akreditacijo izobraževalnih programov in organizacij.

V mednarodnem združenju za vodenje projektov IPMA (International Project Management Association) je bil podpredsednik (2000 - 2004) ter v istem združenju opravljal funkcijo predsednika Odbora za raziskovalno dejavnost (2005–2012) ter bil tehnični podpredsednik ICEC (International Cost Engineering Council). Soustanovil je Združenje za projektni management Slovenije (ZPM) in mu nekaj let predsedoval. Aktivno je sodeloval pri razvoju mednarodnega 4-nivojskega IPMA programa certificiranja projektne managerjeve. Kot IPMA akreditiran ocenjevalec kompetenc projektne managerjeve od leta 1997, je bil tudi presojevalec v IPMA programu projektne odličnosti za nagrado »PM Excellence Award« in presojal projekte tudi na Kitajskem in Indiji.

Predlagal je uvedbo IPMA programa z imenom IPMA SloCert v Sloveniji, bil manager projekta, prvi presojevalec in njegov prvi direktor. Zdaj je direktor strateškega zavezništva med IPMA in ICEC.

Deloval je kot predsednik Zbornice storitvenih dejavnosti Slovenije in član strateškega svetovalnega odbora EU CIP okvirnega programa za konkurenčnost in inovacije.

Za svoje dosežke na področju raziskav, izobraževanja in sodelovanja z industrijo je prejel vrsto domačih in mednarodnih priznanj, med drugim, leta 2015, "Srebrni znak" Univerze v Mariboru.

Leta 2012 se je upokojil, vendar ostal aktiven kot prokurist INOVA Consulting, predstojnik mednarodnega virtualnega živega laboratorija LENS Living Lab in profesor na Cranefield College, JAR. Udejstvuje se kot raziskovalec, pobudnik in koordinator različnih industrijskih partnerskih tehnoloških platform, raziskovalno-inovacijskih programov in projektov na področju razvoja digitalnih tehnologij ter inovacijskih sistemov Industrije 4.0. Kot iniciator in soustanovitelj slovenskega orodjarskega tehnološkega centra TECOS (1992), je bil prvi direktor Slovenskega orodjarskega grozda TCS. Od leta 2004 opravlja funkcijo predsednika Strokovnega sveta TCS. Je strokovni vodja in koordinator Kompetenčnega centra Roboflex s področja robotizacije in razvoja aplikacij pametne tovarne 4.0 ter strokovni koordinator slovenskega digitalnega inovacijskega stičišča - DIGITECH SI-EAST.

Prof. dr. Brane Semolič je član mednarodnega akademskega odbora svetovalcev ameriške strokovne revije PM World Journal in indijske strokovne revije »International Journal of Project and Technology Management« in avtor ter soavtor večjega števila mednarodnih strokovnih knjig in člankov.

CV-SLO 27.5.2020

Prof. Brane Semolic studied mechanical engineering, engineering economics, and informatics; he holds a scientific master degree and doctorate in business informatics. His focus of professional interest is industrial and system engineering, innovation and technology management, virtual organizations and systems, project and knowledge management. He has 40 years of working experiences in different industries (industrial engineering, IT, chemicals, household appliances, government, management consulting and education), as an expert, researcher, manager, entrepreneur, counselor to the government and professor. Currently, he operates as head of the applied research and innovation organization LENS Living Lab. LENS Living Lab is an international industry-driven virtual living laboratory. He is acting as initiator and coordinator of various research and innovation collaboration platforms, programs and projects for the needs of different industries (ICT, robotics, advanced manufacturing, logistics, education). He was co-founder and the first director of the TCS - Toolmakers Cluster of Slovenia (EU automotive industry suppliers). Since 2004 he is serving as the president of the TCS council of experts. Besides this, he is active as a professor at the Cranefield College postgraduate program.

He was head of project and information systems laboratory at the Faculty of Mechanical Engineering, Head of the Project & Technology Management Institute at the Faculty of Logistics, University of Maribor and professor of project and technology management at the graduate and postgraduate level. He acted as a trainer at the International »European Project Manager« post-graduate program, organized jointly by the University of Bremen. He was guest professor at University of Southern Denmark, University of Zaragoza, Siberian State Aerospace University, University of Applied Sciences Giessen-Friedberg.

He is a registered assessor for the accreditation of education programs and education organizations by the Slovenian Quality Assurance Agency for Higher Education.

He was the co-founder and president of the Project Management Association of Slovenia (ZPM), vice president of IPMA (International Project Management Association), chairman of the IPMA Research Management Board (2005-2012), and technical vice-chairman of ICEC (International Cost Engineering Council). Now he is serving as a director of the IPMA & ICEC strategic alliance. He actively participated in the development of the IPMA 4-level project managers' certification program. He introduced and was the first director of the IPMA certification program in Slovenia. He has been serving as the assessor in this certification program since 1997. He performed as assessor in the IPMA International PM Excellence Award Program in China, India, and Slovenia.

