

RAZVOJNI POSTOPKI V STROJNIŠTVU

UČNI NAČRT PREDMETA/COURSE SYLLABUS

Predmet:	Razvojni postopki v strojništvu
Course title:	Development processes in Mechanical Engineering
Članica nosilka/UL Member:	UL FS

Študijski programi in stopnja	Študijska smer	Letnik	Semestri	Izbirnost
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni (od študijskega leta 2023/2024 dalje)	Energetsko strojništvo (smer)	3. letnik	2. semester	obvezni
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni (od študijskega leta 2023/2024 dalje)	Industrijsko inženirstvo (smer)	3. letnik	2. semester	obvezni
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni (od študijskega leta 2023/2024 dalje)	Konstruiranje industrijskih sistemov (smer)	3. letnik	2. semester	obvezni
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni (od študijskega leta 2023/2024 dalje)	Konstruiranje strojev in naprav (smer)	3. letnik	2. semester	obvezni
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni (od študijskega leta 2023/2024 dalje)	Mehatronika (smer)	3. letnik	2. semester	obvezni
Strojništvo - projektno aplikativni program, prva	Procesno strojništvo (smer)	3. letnik	2. semester	obvezni

stopnja, visokošolski strokovni (od študijskega leta 2023/2024 dalje)				
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni (od študijskega leta 2023/2024 dalje)	Proizvodne tehnologije (smer)	3. letnik	2. semester	obvezni

Univerzitetna koda predmeta/University course code:

0562733

Koda učne enote na članici/UL Member course code:

3032-V

Predavanja /Lectures	Seminar /Seminar	Vaje /Tutorials	Klinične vaje /Clinical tutorials	Druge oblike študija /Other forms of study	Samostojno delo /Individual student work	ECTS
90		90			120	12

Nosilec predmeta/Lecturer:

Aljoša Peperko, Andrej Bombač, Andrej Kitanovski, Andrej Senegačnik, Boris Jerman, Božidar Šarler, Damjan Klobčar, Davorin Kramar, Drago Bračun, Edvard Govekar, Franc Majdič, Franci Pušavec, Igor Petrovič, Iztok Golobič, Janez Žerovnik, Janko Slavič, Jernej Klemenc, Joško Valentinčič, Jože Kutin, Jurij Prezelj, Lidija Slemenik Perše, Marko Hočevan, Marko Nagode, Matija Jezeršek, Miha Boltežar, Miha Brojan, Mihael Sekavčnik, Miroslav Halilović, Mitjan Kalin, Niko Heraković, Nikola Vukašinović, Nikolaj Mole, Primož Podržaj, Robert Kunc, Rok Petkovšek, Rok Vrabič, Roman Šturm, Sašo Medved, Tomaž Berlec, Tomaž Katrašnik, Tomaž Pepelnjak, Uroš Stritih

Izvajalci predavanj:

Izvajalci seminarjev:

Izvajalci vaj:

Izvajalci kliničnih vaj:

Izvajalci drugih oblik:

Izvajalci praktičnega usposabljanja:

Vrsta predmeta/Course type:

Izbirni strokovni predmet/ Elective specialised course

Jeziki/Languages:

Predavanja/Lectures:

Slovenščina

Vaje/Tutorial:

Slovenščina

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

Prerequisites:

V sklopu predmeta se študent spozna s širšim področjem določenega dela tematike, ki jo bo obdelal v diplomski nalogi. Zato so pogoj za vključitev v delo opravljene študijske obveznosti prvih štirih semestrov študijskega programa PAP.

As part of the course, the student gets introduced to the broader field of a certain part of the topic, which he will deal with in the Bachelor's degree thesis. Therefore, the requirement for the course is completed study obligations of the first four semesters of the PAP study program.

Vsebina:

Content (Syllabus outline):

Glede na širši vidik obravnavane strokovne tematike diplomskega dela študent izbere tri nosilce tega predmeta, pri katerih bo opravljal ta predmet.

1. Predstavitev ciljev predmeta in posameznih razvojnih tematik, ki jih bodo študentje opravljali tekom leta.
2. Pregled strokovne literature dogovoru z izbranimi nosilci predmeta.
3. Interaktivna predstavitev obdelanih temeljnih vsebin z individualno ali skupinsko diskusijo.
4. Opredelitev individualnega parcialnega problema na obravnavanem področju ob vodenju nosilcev predmeta.
5. Priprava načrta iskanja rešitev za opredeljeni parcialni problem ob vodenju nosilcev predmeta.
6. Pregled in študij teoretičnih osnov izbrane tematike.
7. Študij gradnikov in procesov uporabnih v izbrani razvojni tematiki.
8. Tehnike snovanja in vrednotenja na

According to the broader aspect of the topic of the degree's thesis, the student chooses three lecturers of this course, with whom he will pursue this course.

1. Presentation of the course objectives and individual research topics that students will undertake throughout the year.
2. Review of the scientific literature in agreement with the chosen lecturers.
3. An interactive presentation of discussed core content through individual or group discussion.
4. Definition of an individual partial problem in the area under consideration guided by lecturers.
5. Preparation of a plan for finding solutions to the defined partial problem guided by lecturers.
6. Review and study of the theoretical basis of the selected topic.
7. Studies of the building blocks and processes applicable in the chosen topic.
8. Design and evaluation techniques in

<p>področju izbrane razvojne tematike. Glede na tematiko bo večji podarek na neanalitičnih oziroma numeričnih metodah modeliranja sistemov/procesov izbrane tematike.</p> <p>9. Interaktivna predstavitev povzetka obdelanih specializiranih vsebin z individualno ali skupinsko diskusijo.</p> <p>10. Zasnova in razvoj naprave / eksperimentalnega sistema / računskega modela v sklopu izbrane tematike.</p> <p>11. Razvoj metodologije vrednotenja razvite naprave / eksperimentalnega sistema / računskega modela.</p> <p>12. Razvoj in izvedba eksperimentalnega dela.</p> <p>13. Primerjava rezultatov z napovedmi iz dostopne literature.</p> <p>14. Interaktivna predstavitev eksperimentalnih, računalniških ali analitičnih orodij ter primerjava z ugotovitvami iz dostopne literature.</p> <p>15. Pregled izzivov za prihodnost na področju izbrane razvojne tematike.</p>	<p>the field of the chosen topic. Depending on the topic, more emphasis will be given to the non-analytical, numerical methods of modelling systems / processes of the selected topic.</p> <p>9. An interactive presentation of a summary of studied specialized content with individual or group discussion.</p> <p>10. Design and development of the device / experimental system / computational model within the chosen topic.</p> <p>11. Development of evaluation methodology of developed device / experimental system / computational model.</p> <p>12. Development and implementation of experimental work.</p> <p>13. Comparison of results and predictions from available literature.</p> <p>14. Interactive presentation of experimental, computer or analytical tools and comparison with findings from available literature.</p> <p>15. An overview of the challenges ahead for the chosen research topic.</p>
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Temeljna literatura in viri/Readings:

Določena je smiselno v dogovoru s tremi nosilci predmeta za vsakega študenta posebej glede na izbrano problematiko. Literatura je dosegljiva v knjižnici laboratorija, fakultetni knjižnici ali širše. Praviloma študent študira iz člankov, ki so obravnavali podoben primer, kakor ga ima sam definiranega.

It is determined appropriately in agreement with three lecturers for each student according to the chosen topic. Literature is available at the lab library, faculty library or beyond. As a rule, a student studies from articles dealing with a similar case as he or she has defined.

Cilji in kompetence:

Cilji:

1. Omogočiti študentu seznanitev s temeljno in predmetno specifično literature na delu tematike, ki bo obravnavana v diplomski nalogi.
2. Seznanitev z namensko opremo na področju eksperimentiranja in uporabe računalniških orodij.

Objectives and competences:

Objectives:

1. To enable the student to get acquainted with the basic and specific literature on the topic that will be discussed in the Bachelor's degree thesis.
2. To familiarize with the specific equipment in the field of

<p>Študent tako spozna osnovno funkcionalnost opreme, ki jo lahko uporabi.</p> <p>3. Predmet se izvaja v laboratoriju (enem ali več) odvisno od dogovora z mentorjem in nosilci predmeta.</p> <p>Kompetence:</p> <p>S1-PAP: Sposobnost uporabe pridobljenega znanja v praksi.</p> <p>S2-PAP: Sposobnost samostojnega dela v okviru znanj izbrane študijske smeri.</p> <p>S4-PAP: Sposobnost razčlenitve lažjih strokovnih nalog na podnaloge.</p> <p>S5-PAP: Razvijanje sposobnosti kritičnega in samokritičnega mišljenja.</p> <p>S11-PAP: Sposobnost predstavitve strokovnih problemov in njihovih rešitev v svojem okolju in širše.</p> <p>S13-PAP: Sposobnost iskanja virov znanja, selekcija najdenih virov in uporaba tako pridobljenega znanja pri svojem delu.</p> <p>P4-PAP: Pozna osnovne merilne instrumente in merilne verige za merjenje osnovnih veličin na področju strojništva.</p> <p>P6-PAP: Obvlada samostojno projektno delo.</p> <p>P9-PAP: Diplomant je sposoben samostojno opravljati razvojno aplikativna, inženirska in strokovna organizacijska dela ter reševati posamezne dobro definirane naloge na področju strojništva.</p>	<p>experimentation and use of computer tools. Thus the student learns about the basic functionality of the equipment he can use.</p> <p>3. The course is carried out in the laboratory (one or more), depending on the agreement with the mentor and course lecturers.</p> <p>Competencies:</p> <p>S1-PAP: The ability to use the attained knowledge in the practice.</p> <p>S2-PAP: The ability to work autonomously in the framework of knowledge provided by the selected study module.</p> <p>S4-PAP: The ability to break down professional tasks of lesser complexity into subtasks.</p> <p>S5-PAP: Developing the ability of critical and self-critical thinking.</p> <p>S11-PAP: The ability to present professional problems and the solutions thereof in own environment and wider.</p> <p>S13-PAP: The ability to find sources of knowledge, select among the available resources and use the knowledge acquired for one's work.</p> <p>P4-PAP: Knowing the basic measuring instruments and measuring chains used to measure the basic quantities in the field of mechanical engineering.</p> <p>P6-PAP: Mastering independent project work.</p> <p>P9-PAP: The graduates are able to independently perform applied developmental, engineering and professional organisational work, and to solve well-defined individual tasks in the field of mechanical engineering.</p>
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Predvideni študijski rezultati:	Intended learning outcomes:
<p>Znanja:</p> <p>Z1: Poglobljeno strokovno teoretično in praktično znanje na določenem področju, podprto s širšo teoretično in</p>	<p>Knowledge:</p> <p>Z1: Thorough professional theoretical and practical knowledge in a selected field of expertise that is supported with</p>

<p>metodološko osnovo.</p> <p>Spretnosti:</p> <p>S1.1 Izvajanje kompleksnih operativno-strokovnih opravil, ki vključujejo tudi uporabo metodoloških orodij.</p> <p>S1.2 Obvladovanje zahtevnih, kompleksnih delovnih procesov ob samostojni uporabi znanja v novih delovnih situacijah.</p> <p>S1.3 Diagnosticiranje in reševanje problemov v različnih specifičnih delovnih okoljih, povezanih s področjem izobraževanja in usposabljanja.</p> <p>S1.4 Osnova za izvirna dognanja/stvaritve in kritično refleksijo.</p>	<p>a broad theoretical and methodological basis.</p> <p>Skills:</p> <p>S1.1 Executing complex operational-professional tasks that incorporate usage of methodological tools.</p> <p>S1.2 Mastering demanding and complex work processes by independent usage of knowledge in new working situations.</p> <p>S1.3 Problem diagnostics and solving in different and specific working environments that are linked to the teaching and training content.</p> <p>S1.4 Basis for unique innovations and critical reflections.</p>
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Metode poučevanja in učenja:

<p>Klasične oblike poučevanja:</p> <p>P1 Avditorna predavanja z reševanjem izbranih - za področje značilnih - teoretičnih in praktično uporabnih primerov.</p> <p>P2 Obravnava snovi po urejeni in vnaprej razloženi sistematiki.</p> <p>P5 Uporaba študijskega gradiva v obliki (opišite kateri- maks. ena vrstica na eno vrsto gradiva, izbirate med besedami npr. knjiga, skripta, zapiski, e-knjiga, tiskana verzija predstavitve predavanj, e-verzija predstavitve predavanj).</p> <p>Moderne in prožne oblike poučevanja:</p> <p>P6 Interaktivna predavanja</p> <p>P7 Študij literature in razprava</p> <p>P8 Izdelava in predstavitev aplikativnih seminarskih nalog</p> <p>P14 Virtualni eksperimenti</p>	<p>Conventional teaching methods:</p> <p>P1 Auditorial lectures with solving selected field-specific theoretical and applied use cases.</p> <p>P2 Presenting the content according to the explained system.</p> <p>P5 Application of study material (description needs to be added, max. one line per material, e.g. textbook, e-book, printed lecture presentations, etc.).</p> <p>Contemporary and flexible teaching methods:</p> <p>P6 Interactive lectures.</p> <p>P7 Literature study and discussion.</p> <p>P8 Making and presenting applied seminar exercises.</p> <p>P14 Virtual experiments.</p>
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Načini ocenjevanja:

Delež/ Weight

Assessment:

Pisni preskus znanja	50,00 %	Written examination
Ocena končnih poročil (po enega za vsakega od treh nosilcev)	50,00 %	Evaluation of final reports (one report per each of three)

Reference nosilca/Lecturer's references:**Boltežar Miha:**

1. LUZNAR, Janez, SLAVIČ, Janko, **BOLTEŽAR, Miha**. Experimental research on structure-borne noise at pulse-width-modulation excitation. *Applied acoustics*, ISSN 0003-682X. [Print ed.], Aug. 2018, vol. 137, str. 33-39, ilustr. <https://www.sciencedirect.com/science/article/pii/S0003682X17308903>, doi: [10.1016/j.apacoust.2018.03.005](https://doi.org/10.1016/j.apacoust.2018.03.005). [COBISS.SI-ID [15939099](#)].
2. SKRINJAR, Luka, SLAVIČ, Janko, **BOLTEŽAR, Miha**. A Review of continuous contact-force models in multibody dynamics. *International journal of mechanical sciences*, ISSN 0020-7403, Sep. 2018, vol. 145, str. 171-187, ilustr. <https://reader.elsevier.com/reader/sd/903B8919459DA3FF13D9A5978641A8FD72722BBB5166ED0277F867AC3F587204A839D299CDEEBD3F76FFEFAB7B5B2E53>, doi: [10.1016/j.ijmecsci.2018.07.010](https://doi.org/10.1016/j.ijmecsci.2018.07.010). [COBISS.SI-ID [16175131](#)].
3. RAZPOTNIK, Matej, ČEPON, Gregor, **BOLTEŽAR, Miha**. A Smooth contact-state transition in a dynamic model of rolling-element bearings. *Journal of sound and vibration*, ISSN 0022-460X. [Print ed.], Sep. 2018, vol. 430, str. 196-213, ilustr. https://ac.els-cdn.com/S0022460X18303316/1-s2.0-S0022460X18303316-main.pdf?_tid=0053fe6d-b9b1-479b-9db2-02f142a55b55&acdnat=1528357961_a6804519835b68bd2d06a119a4e9a336, doi: [10.1016/j.jsv.2018.05.041](https://doi.org/10.1016/j.jsv.2018.05.041). [COBISS.SI-ID [16096795](#)].

Brojan Miha:

1. VELDIN, Tomo, BRANK, Boštjan, **BROJAN, Miha**. Computational finite element model for surface wrinkling of shells on soft substrates. *Communications in Nonlinear Science & Numerical Simulation*, ISSN 1007-5704, maj 2019, letn. XX, str. 1-29, ilustr. DOI: [10.1016/j.cnsns.2019.104863](https://doi.org/10.1016/j.cnsns.2019.104863). [COBISS.SI-ID [8813409](#)]
2. **BROJAN, Miha**, TERWAGNE, Denis, LAGRANGE, Romain, REIS, Pedro. Wrinkling crystallography on spherical surfaces. *Proceedings of the National Academy of Sciences of the United States of America*, ISSN 0027-8424, Jan. 2015, vol. 112, no. 1, str. 14-19, ilustr., DOI: [10.1073/pnas.1411559112](https://doi.org/10.1073/pnas.1411559112). [COBISS.SI-ID [13852187](#)].
3. TERWAGNE, Denis, **BROJAN, Miha**, REIS, Pedro. Smart morphable surfaces for aerodynamic drag control. *Advanced materials*, ISSN 0935-9648, Oct. 2014, vol. 26, iss. 38, str. 6608-6611, ilustr., DOI: [10.1002/adma.20140140](https://doi.org/10.1002/adma.20140140) [COBISS.SI-ID [13725211](#)]

Golobič Iztok:

1. GREGORČIČ, Peter, ZUPANČIČ, Matevž, **GOLOBIČ, Iztok**. Scalable surface microstructuring by a fiber laser for controlled nucleate boiling performance of high- and low-surface-tension fluids. *Scientific reports*. May 2018, vol. 8, f. 1-8, ilustr. ISSN 2045-2322. <https://www.nature.com/articles/s41598-018-25843-5.pdf>, DOI: [10.1038/s41598-018-25843-5](https://doi.org/10.1038/s41598-018-25843-5). [COBISS.SI-ID [16034331](#)]
2. RAVNIK, Jure, **GOLOBIČ, Iztok**, SITAR, Anže, AVANZO, M., IRMAN, Špela, KOČEVAR, K., CEGNAR, Mateja, ZADRAVEC, Matej, RAMŠAK, Matjaž, HRIBERŠEK, Matjaž. Lyophilization model of mannitol water solution in a laboratory scale lyophilizer. *Journal of drug delivery science and technology*. [Print ed.]. June 2018, vol. 45, str. 28-38, ilustr. ISSN 1773-2247. DOI: [10.1016/j.jddst.2018.0015](https://doi.org/10.1016/j.jddst.2018.0015). [COBISS.SI-ID [21209622](#)]

3. ZUPANČIČ, Matevž, NOVAK, Dušan, DIACI, Janez, **GOLOBIČ, Iztok**. An evaluation of industrial ultrafiltration systems for surface water using fouling indices as a performance indicator. *Desalination*. [Print ed.]. Jul. 2014, vol. 344, str. 321-328, ilustr. ISSN 0011-9164. DOI: [10.1016/j.desal.2014.04.002](https://doi.org/10.1016/j.desal.2014.04.002). [COBISS.SI-ID [13420827](https://cobiss.si/13420827)]

Govekar Edvard:

1. **GOVEKAR, Edvard**, JEROMEN, Andrej, KUZNETSOV, Alexander, LEVY, Gideon N., FUJISHIMA, Makoto. Study of an annular laser beam based axially-fed powder cladding process. *CIRP annals*. 2018, vol. 67, iss. 1, str. 241-244, ilustr. ISSN 0007-8506.
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2. POTOČNIK, Primož, **GOVEKAR, Edvard**. Semi-supervised vibration-based classification and condition monitoring of compressors. *Mechanical systems and signal processing*. Sep. 2017, vol. 93, str. 51-65, ilustr. ISSN 0888-3270.
<http://www.sciencedirect.com/science/article/pii/S088832701730047X>, DOI: [10.1016/j.ymssp.2017.01.048](https://doi.org/10.1016/j.ymssp.2017.01.048). [COBISS.SI-ID [15296539](https://cobiss.si/15296539)]
3. KUZNETSOV, Alexander, JEROMEN, Andrej, **GOVEKAR, Edvard**. Droplet detachment regimes in annular laser beam droplet generation from a metal wire. *CIRP annals*. 2014, vol. 63, iss. 1, str. 225-228, ilustr. ISSN 0007-8506. DOI: [10.1016/j.cirp.2014.0051](https://doi.org/10.1016/j.cirp.2014.0051). [COBISS.SI-ID [13402651](https://cobiss.si/13402651)]

Halilović Miroslav:

1. STARMAN, Bojan, VRH, Marko, KOC, Pino, **HALILOVIČ, Miroslav**. Shear test-based identification of hardening behaviour of stainless steel sheet after onset of necking. *Journal of materials processing technology*. Aug. 2019, vol. 270, str. 335-344, ilustr. ISSN 0924-0136.
<https://www.sciencedirect.com/science/article/pii/S0924013619300986>, DOI: [10.1016/j.jmatprotec.2019.03.010](https://doi.org/10.1016/j.jmatprotec.2019.03.010). [COBISS.SI-ID [16527899](https://cobiss.si/16527899)]
2. **HALILOVIČ, Miroslav**, ISSA, Sally, WALLIN, Mathias, HALLBERG, Håkan, RISTINMAA, Matti. Prediction of the residual state in 304 austenitic steel after laser shock peening : effects of plastic deformation and martensitic phase transformation. *International journal of mechanical sciences*. Jun. 2016, vol. 111/112, str. 24-34, ilustr. ISSN 0020-7403. DOI: [10.1016/j.ijmecsci.2016.03.022](https://doi.org/10.1016/j.ijmecsci.2016.03.022). [COBISS.SI-ID [14602779](https://cobiss.si/14602779)]
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Heraković Niko:

1. **HERAKOVIČ, Niko**, ŠIMIC, Marko, TRDIČ, Francelj, SKVARČ, Jure. A machine-vision system for automated quality control of welded rings. *Machine vision and applications*. [Print ed.]. 2011, vol. 22, no. 6, str. 967-98 ISSN 0932-8092. DOI: [10.1007/s00138-010-0293-9](https://doi.org/10.1007/s00138-010-0293-9). [COBISS.SI-ID [11512091](https://cobiss.si/11512091)]
2. DEBEVEC, Mihael, ŠIMIC, Marko, **HERAKOVIČ, Niko**. Virtual factory as an advanced approach for production process optimization. *International journal of simulation modelling*. Mar. 2014, vol. 13, no. 1, str. 66-78, ilustr. ISSN 1726-4529. DOI: [10.2507/IJSIMM13\(1\)6.260](https://doi.org/10.2507/IJSIMM13(1)6.260). [COBISS.SI-ID [13367835](https://cobiss.si/13367835)]

3. PIPAN, Miha, **HERAKOVIČ, Niko**. Closed-loop volume flow control algorithm for fast switching pneumatic valves with PWM signal. *Control engineering practice*. [Print ed.]. Jan. 2018, vol. 70, str. 114-120. ISSN 0967-0661. <https://www.sciencedirect.com/science/article/pii/S096706611730240X>, DOI: [10.1016/j.conengprac.2017.10.008](https://doi.org/10.1016/j.conengprac.2017.10.008). [COBISS.SI-ID [15981083](#)]

Hočevar Marko:

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