

# RAZVOJNI POSTOPKI V STROJNIŠTVU ZA ZELENI IN DIGITALNI PREHOD

## UČNI NAČRT PREDMETA/COURSE SYLLABUS

|                                   |  |
|-----------------------------------|--|
| <b>Predmet:</b>                   | Razvojni postopki v strojništvu za zeleni in digitalni prehod                        |
| <b>Course title:</b>              | Development Processes in Mechanical Engineering for the Green and Digital Transition |
| <b>Članica nosilka/UL Member:</b> | UL FS  |

| <b>Študijski programi in stopnja</b>  | <b>Študijska smer</b>           | <b>Letnik</b> | <b>Semestri</b> | <b>Izbirnost</b> |
|---|---------------------------------|---------------|-----------------|------------------|
| Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni | Ni členitve (študijski program) | 3. letnik     | 2. semester     | izbirni          |

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

0562733

**Koda učne enote na članici/UL Member course code:**

3032-V

| <b>Predavanja /Lectures</b> | <b>Seminar /Seminar</b> | <b>Vaje /Tutorial s</b> | <b>Klinične vaje /Clinical tutorials</b> | <b>Druge oblike študija /Other forms of study</b> | <b>Samostojno delo /Individual student work</b> | <b>ECTS</b> |
|-----------------------------|-------------------------|-------------------------|--|---|---|-------------|
| 90                          |                         | 90                      |  |   | 170   | 14          |

**Nosilec predmeta/Lecturer:**

doc. dr. Andraž Kravos, doc. dr. Boštjan Mavrič, doc. dr. Darja Rupnik Poklukar, doc. dr. Dominik Kozjek, doc. dr. Drago Bračun, doc. dr. Jovan Trajkovski, doc. dr. Katja Klinar, doc. dr. Marko Polajnar, doc. dr. Martin Česnik, doc. dr. Tomaž Berlec, doc. dr. Tomaž Kek, doc. dr. Vid Agrež, izr. prof. dr. Aljoša Peperko, izr.

prof. dr. Boris Jerman, izr. prof. dr. Ciril Arkar, izr. prof. dr. Damjan Klobčar, izr. prof. dr. Davorin Kramar, izr. prof. dr. Domen Šeruga, izr. prof. dr. Franc Majdič, izr. prof. dr. Jože Kutin, izr. prof. dr. Jurij Prezelj, izr. prof. dr. Marko Šimic, izr. prof. dr. Matevž Zupančič, izr. prof. dr. Miha Brojan, izr. prof. dr. Miroslav Halilovič, izr. prof. dr. Mitja Mori, izr. prof. dr. Nikola Vukašinović, izr. prof. dr. Nikolaj Mole, izr. prof. dr. Peter Gregorčič, izr. prof. dr. Robert Kunc, izr. prof. dr. Rok Vrabič, izr. prof. dr. Simon Oman, izr. prof. dr. Tomaž Pepelnjak, izr. prof. dr. Uroš Stritih, Jaka Tušek, Joško Valentinčič, Lidija Slemenik Perše, Primož Potočnik, prof. ddr. Janez Žerovnik, prof. dr. Andrej Kitanovski, prof. dr. Božidar Šarler, prof. dr. Edvard Govekar, prof. dr. Franci Pušavec, prof. dr. Gregor Čepon, prof. dr. Iztok Golobič, prof. dr. Janko Slavič, prof. dr. Jernej Klemenc, prof. dr. Marko Hočevar, prof. dr. Marko Nagode, prof. dr. Matevž Dular, prof. dr. Matija Jezeršek, prof. dr. Mihael Sekavčnik, prof. dr. Mitjan Kalin, prof. dr. Niko Herakovič, prof. dr. Primož Podržaj, prof. dr. Rok Petkovšek, prof. dr. Roman Šturm, prof. dr. Sašo Medved, prof. dr. Tomaž Katrašnik, viš. pred. dr. Igor Petrović

**Izvajalci predavanj:**

**Izvajalci seminarjev:**

**Izvajalci vaj:**

**Izvajalci kliničnih vaj:**

**Izvajalci drugih oblik:**

**Izvajalci praktičnega usposabljanja:**

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**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:**

V sklopu predmeta se študent spozna s širšim področjem določenega dela tematike, ki jo bo obdelal v diplomski nalogi. Pri tem bo poseben poudarek posvečen vsebinam, ki so povezane z zeleno in digitalno transformacijo družbe. Zato so pogoj za vključitev v delo opravljene študijske obveznosti prvih štirih semestrov študijskega programa PAP.

**Prerequisites:**

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. Particular emphasis will be focused on content related to the green and digital transformation of society. Therefore, the requirement for the course is completed study obligations of the first four semesters of the PAP study program.

**Vsebina:**

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

V sklopu tega predmeta se študentu omogoči širši in multidisciplinarni pogled na obravnavani razvorni problem. Pri tem bo poseben poudarek namenjen vsebinam, ki so povezane s trajnostno transformacijo družbe in ustreznim digitalnim opolnomočenjem na izbranem strokovnem področju študija:

- Trajnostne vrednote: uporaba ekološko sprejemljivih in energetsko nevtralnih rešitev, kjer je to mogoče;
- Sprejemanje kompleksnosti in trajnosti v smislu systemskega razmišljanja in reševanja problemov;
- Načrtovanje trajnostne prihodnosti z upoštevanjem prilagodljivosti za prihajajoče izzive;
- Upoštevanje principov novega evropskega Bauhaua v smislu systemskega in celovitega pristopa k reševanju izzivov na več ravneh (od globalne do lokalne ravni) ter doslednemu upoštevanju celotnega življenjskega cikla izdelkov, surovin in energije v idustrijskih ekosistemih.

**Content (Syllabus outline):**

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.

Within the scope of this course the student acquires a broader and multidisciplinary view of the considered R&D problem. A strong emphasis is put onto the content related to the sustainable transformation of society and appropriate digital empowerment in the selected professional field of study:

- Sustainable values: use of ecologically acceptable and energy-neutral solutions where ever possible;
- Acceptance of complexity and sustainability in terms of systemic thinking and problem solving;
- Planning of a sustainable future by considering flexibility for upcoming challenges;
- Considering the principles of the new European Bauhaus in terms of a systemic and comprehensive approach to solving challenges at multiple levels (from global to local level) and consistent consideration of the entire life cycle of products, raw materials and energy within industrial ecosystems.

Izvajanje predmeta obsega naslednje aktivnosti:

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 področju izbrane razvojne tematike. Glede na tematiko bo večji podarek na nealitičnih oziroma numeričnih metodah modeliranja sistemov/procesov izbrane tematike.
9. Interaktivna predstavitev povzetka obdelanih specializiranih vsebin z individualno ali skupinsko diskusijo.
10. Zasnova in razvoj naprave / eksperimentalnega sistema / računskega modela v sklopu izbrane tematike.
11. Razvoj metodologije vrednotenja razvite naprave / eksperimentalnega sistema / računskega modela.
12. Razvoj in izvedba eksperimentalnega dela.
13. Primerjava rezultatov z napovedmi iz dostopne literature.
14. Interaktivna predstavitev eksperimentalnih, računalniških ali analitičnih orodij ter primerjava z ugotovitvami iz dostopne literature.
15. Pregled izzivov za prihodnost na področju izbrane razvojne tematike.

The course is composed of the following activities:

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 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.
9. An interactive presentation of a summary of studied specialized content with individual or group discussion.
10. Design and development of the device / experimental system / computational model within the chosen topic.
11. Development of evaluation methodology of developed device / experimental system / computational model.
12. Development and implementation of experimental work.
13. Comparison of results and predictions from available literature.
14. Interactive presentation of experimental, computer or analytical tools and comparison with findings from available literature.
15. An overview of the challenges ahead for the chosen research topic.

## 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 širši in multidisciplinarni pogled na obravnavani razvoni problem, predvsem v smislu iskanja trajnostnih in okolju prijaznih rešitev.
2. Omogočiti študentu seznanitev s temeljno in predmetno specifično literature na delu tematike, ki bo obravnavana v diplomski nalogi.
3. Seznanitev z namensko opremo na področju eksperimentiranja in uporabe računalniških orodij. Študent tako spozna osnovno funkcionalnost opreme, ki jo lahko uporabi.
4. Predmet se izvaja v laboratoriju (enem ali več) odvisno od dogovora z mentorjem in nosilci predmeta.

### Kompetence:

S1-PAP: Sposobnost uporabe pridobljenega znanja v praksi.

S2-PAP: Sposobnost samostojnega dela v okviru znanj izbrane študijske smeri.

S4-PAP: Sposobnost razčlenitve lažjih strokovnih nalog na podnaloge.

S5-PAP: Razvijanje sposobnosti kritičnega in samokritičnega mišljenja.

S11-PAP: Sposobnost predstavitve strokovnih problemov in njihovih rešitev v svojem okolju in širše.

S12-PAP: Sposobnost uporabe informacijsko-komunikacijske tehnologije.

## Objectives and competences:

### Objectives:

1. To enable the student to a wider and multidisciplinary overview of the specific R&D problem, especially in terms of finding sustainable and environmentally friendly solutions.
2. 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.
3. To familiarize with the specific equipment in the field of experimentation and use of computer tools. Thus the student learns about the basic functionality of the equipment he can use.
4. The course is carried out in the laboratory (one or more), depending on the agreement with the mentor and course lecturers.

### Competencies:

S1-PAP: The ability to use the attained knowledge in the practice.

S2-PAP: The ability to work autonomously in the framework of knowledge provided by the selected study module.

S4-PAP: The ability to break down professional tasks of lesser complexity into subtasks.

S5-PAP: Developing the ability of critical and self-critical thinking.

S11-PAP: The ability to present

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| <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>P5-PAP: Pozna glavne okoljske omejitve in probleme.</p> <p>P6-PAP: Obvlada samostojno projektno delo.</p> <p>P7-PAP: Pozna nekatera potrebna programska orodja za računalniško obdelavo podatkov.</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>professional problems and the solutions thereof in own environment and wider.</p> <p>S12-PAP: The ability to use information and communications technology.</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>P5-PAP: Knowing the main environmental restrictions and problems.</p> <p>P6-PAP: Mastering independent project work.</p> <p>P7-PAP: Knowing some software tools necessary for computer data processing.</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:**

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| <p>Znanja:</p> <p>Z1: Poglobljeno strokovno teoretično in praktično znanje na določenem področju, podprto s širšo teoretično in 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>Knowledge:</p> <p>Z1: Thorough professional theoretical and practical knowledge in a selected field of expertise that is supported with 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> |
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| S1.4 Osnova za izvirna dognanja/ stvaritve in kritično refleksijo. | S1.4 Basis for unique innovations and critical reflections. |
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| <b>Metode poučevanja in učenja:</b>   | <b>Learning and teaching methods:</b>   |
| <p><b>Klasične oblike poučevanja:</b></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><b>Moderne in prožne oblike poučevanja:</b></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><b>Conventional teaching methods:</b></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><b>Contemporary and flexible teaching methods:</b></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> |

| <b>Načini ocenjevanja:</b>                                   | <b>Delež/Weight</b> | <b>Assessment:</b>   |
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| 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 lecturers) |

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| <b>Ocenjevalna lestvica:</b>                             | <b>Grading system:</b>   |
| 5 - 10, pri čemer velja, da je pozitivna ocena od 6 - 10 | 5 - 10, a student passes the exam if he is graded from 6 to 10 |

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| <b>Reference nosilca/Lecturer's references:</b>   |
| <p><b>Vid Agrež:</b></p> <p>1. <b>AGREŽ, Vid</b>, LOKAR, Žiga, PETKOVŠEK, Rok. Laser induced microbubbles as an alternative driver for liquid pumping. <i>Optics and laser technology</i>. [Print ed.]. Oct. 2024, vol. 177, [article no.] 111235, str. 1-9, ilustr. ISSN 0030-3992. <a href="https://www.sciencedirect.com/science/article/pii/S0030399224006935">https://www.sciencedirect.com/science/article/pii/S0030399224006935</a>,</p> |

- [Repozitorij Univerze v Ljubljani – RUL](#), DOI: [10.1016/j.optlastec.2024.111235](#).
2. POŽAR, Tomaž, **AGREŽ, Vid**, PETKOVŠEK, Rok. Laser-induced cavitation bubbles and shock waves in water near a concave surface. *Ultrasonics Sonochemistry*. May 2021, vol. 73, str. 1-11, ilustr. ISSN 1350-4177. <https://www.sciencedirect.com/science/article/pii/S1350417720317612>, [Repozitorij Univerze v Ljubljani – RUL](#), DOI: [10.1016/j.ultsonch.2020.105456](#). [COBISS.SI-ID [45742083](#)].
  3. HORVAT, Darja, **AGREŽ, Vid**, POŽAR, Tomaž, STARMAN, Bojan, HALILOVIČ, Miroslav, PETKOVŠEK, Rok. Laser-induced shock-wave-expanded nanobubbles in spherical geometry. *Ultrasonics Sonochemistry*. Sep. 2022, vol. 89, str. 1-12, ilustr. ISSN 1350-4177. <https://www.sciencedirect.com/science/article/pii/S1350417722002565>, [Repozitorij Univerze v Ljubljani – RUL](#), DOI: [10.1016/j.ultsonch.2022.106160](#). [COBISS.SI-ID [122021123](#)].

### **Ciril Arkar:**

1. DOMJAN, Suzana, MEDVED, Sašo, ČERNE, Boštjan, **ARKAR, Ciril**. Fast modelling of nZEB metrics of office buildings built with advanced glass and BIPV facade structures. *Energies*. Aug. 2019, vol. 12, iss. 16, f. 1-18, ilustr. ISSN 1996-1073. <https://www.mdpi.com/1996-1073/12/16/3194>, [Repozitorij Univerze v Ljubljani – RUL](#), DOI: [10.3390/en12163194](#). [COBISS.SI-ID [16752155](#)].
2. VIDRIH, Boris, **ARKAR, Ciril**, MEDVED, Sašo. Generalized model-based predictive weather control for the control of free cooling by enhanced night-time ventilation. *Applied energy*. Apr. 2016, vol. 168, str. 482-492, ilustr. ISSN 0306-2619. DOI: [10.1016/j.apenergy.2016.01.109](#). [COBISS.SI-ID [14543131](#)].
3. DOMJAN, Suzana, **ARKAR, Ciril**, MEDVED, Sašo. Computer-aided supporting tool for LCA evaluation of energy efficiency of the buildings : assessment method and case studies. V: PASSER, Alexander (ur.). SBE19 Graz : transition towards a net zero carbon built environment : conference proceedings. Sustainable built environment D-A-CH conference 2019, Graz 11-14 September 2019, Graz, Austria. [S. l.]: IOP, 2019. Vol. 323, f. 1-9, ilustr. IOP conference series. Earth and environmental science (Online), vol. 323. ISSN 1755-1315. <https://iopscience.iop.org/article/10.1088/1755-1315/323/1/012109>, DOI: [10.1088/1755-1315/323/1/012109](#). [COBISS.SI-ID [16793371](#)].

### **Tomaž Berlec:**

1. CIMERMANČIČ, Davorin, KUŠAR, Janez, **BERLEC, Tomaž**. *A procedure for the introduction of leanness into a company*. Central European journal of operations research. 2022, vol. 30, str. 1019–1049, ilustr. ISSN 1435-246X. <https://link.springer.com/article/10.1007/s10100-020-00732-3>, DOI: [10.1007/s10100-020-00732-3](#). [COBISS.SI-ID [48989443](#)], [[JCR](#), [SNIP](#), [WoS](#), [Scopus](#)].
2. ŽUŽEK, Tena, GOSAR, Žiga, KUŠAR, Janez, **BERLEC, Tomaž**. *A new product development model for SMEs : introducing agility to the plan-driven concurrent product development approach*. Sustainability. 2021, vol. 13, iss. 21, str. 1-22, ilustr. ISSN 2071-1050. <https://www.mdpi.com/2071-1050/13/21/12159>, DOI: [10.3390/su132112159](#). [COBISS.SI-ID [83710979](#)], [[JCR](#), [SNIP](#), [WoS](#) do 30. 11. 2022: št. citatov (TC): 3, čistih citatov (CI): 3, čistih citatov na avtorja (CIAu): 0,75, [Scopus](#) do 9. 11. 2022: št. citatov (TC): 4, čistih citatov (CI): 4, čistih

- citativ na avtorja (CIAu): 1,00].
3. **BERLEC, Tomaž**, KUŠAR, Janez, ŽEROVNIK, Janez, STARBEK, Marko. *Optimization of a product batch quantity*. *Strojniški vestnik*. Jan. 2014, vol. 60, no. 1, str. 35-42, si 9, ilustr. ISSN 0039-2480. DOI: [10.5545/sv-jme.2013.1009](https://doi.org/10.5545/sv-jme.2013.1009). [COBISS.SI-ID [13335579](https://www.cobiss.si/record/13335579)], [JCR, SNIP, WoS do 26. 10. 2022: št. citatov (TC): 8, čistih citatov (CI): 8, čistih citatov na avtorja (CIAu): 2,00, [Scopus](https://scopus.com) do 3. 12. 2019: št. citatov (TC): 8, čistih citatov (CI): 8, čistih citatov na avtorja (CIAu): 2,00].
  4. RIHAR, Lidija, **BERLEC, Tomaž**, ŽUŽEK, Tena, KUŠAR, Janez. *Management tveganj projekta razvoja izdelka*. V: Akademija strojništva 2017 : inženirstvo - za kakovostnejše življenje. 6. mednarodna konferenca strojnih inženirjev 2017, Ljubljana, Cankarjev dom 26. oktober 2017. Ljubljana: Zveza strojnih inženirjev Slovenije, 2017. Letn. 6, št. 3/4, str. 47, ilustr. Svet strojništva, Letn. 6, št. 3/4. ISSN 1855-6493. <http://www.zveza-zsis.si/2017/10/28/svet-strojnistva-sep-okt-2017/>. [COBISS.SI- ID [15780123](https://www.cobiss.si/record/15780123)].
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#### **Drago Bračun:**

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