

UČNI NAČRT PREDMETA / COURSE SYLLABUS

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|----------------------|---------------------------------|
| <b>Predmet:</b>      | Sistem ravnanja z okoljem       |
| <b>Course title:</b> | Environmental management system |

| Študijski program in stopnja<br><i>Study programme and level</i> | Študijska smer<br><i>Study field</i> | Letnik<br><i>Academic year</i> | Semester<br><i>Semester</i> |
|--|--------------------------------------|--------------------------------|-----------------------------|
| Menedžment kakovosti<br>Dodiplomski (prva)                       | Program nima smeri                   | 2. / 3.                        | 4. / 5.                     |
| Quality Management<br>Undergraduate (First)                      | The program has no study fields      | 2/3                            | 4/5                         |

**Vrsta predmeta / Course type:** Izbirni | Elective

**Univerzitetna koda predmeta / University course code:** 011028-02

| Predavanja<br><i>Lectures</i> | Seminar<br><i>Seminar</i> | Sem. vaje<br><i>Tutorial</i> | Lab. vaje<br><i>Laboratory work</i> | Teren. vaje<br><i>Field work</i> | Samost. delo<br><i>Individ. work</i> | ECTS |
|-------------------------------|---------------------------|------------------------------|-------------------------------------|----------------------------------|--------------------------------------|------|
| 30                            |                           | 45                           | -                                   | -                                | 105                                  | 6    |

**Nosilec predmeta / Lecturer:** doc. ddr. Davorin Kralj | Dr. multi. Davorin Kralj  
Assistant Professor

**Jeziki / Languages:**

| Predavanja / Lectures: | Vaje / Tutorial:    |
|------------------------|---------------------|
| Slovenski, angleški    | Slovenski, angleški |
| Slovenian, English     | Slovenian, English  |

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

- Vpis v 2. letnik študija.
- Študent/študentka mora pred pristopom k izpitu pripraviti in zagovarjati empirično seminarsko nalogo.

**Prerequisites:**

- Enrolment in the second year of study.
- The student must prepare and defend an empirical seminar paper as a prerequisite for the final exam.

**Vsebina:**

1. Sistem ravnanja z okoljem kot del poslovanja.
2. Sistem ravnanja z okoljem po zahtevah standarda ISO 14001:2004.
3. Vzpostavitev sistema ravnanja z okoljem.
4. Poslovník ravnanja z okoljem.
5. Presoja sistema ravnanja z okoljem.
6. Certificiranje sistema ravnanja z okoljem.
7. Integracija sistema ravnanja z okoljem z drugimi sistemi vodenja.
8. Specifičnosti v sistemih ravnanja z okoljem.
9. Primeri dobrih praks.

**Content (Syllabus outline):**

1. Environmental management system as part of business.
2. Environmental management system according to ISO 14001:2004 standard.
3. Implementing an environmental management system.
4. Environmental management system quality manual.
5. Environmental management system certification.
6. Integrating environmental management system with other systems of management.
7. Specificity of environmental management system.
8. Examples of good practice.

## Temeljna literatura in viri / Readings

### Obvezna literature / Required reading(s):

- Bichard, E., & Cooper, L. C. (2008). *Positively Responsible: How Business can Save the Planet*. Burlington, MA: Elsevier.
- *Harvard Business Review on Green Business Strategy*. (2007). Boston: HBS publishing Corporation.
- Pribakovič-Borštnik, A., Zornik, B. M., & Žagar, T. (2004). *Odgovorno okoljsko delovanje: sistem ravnanja z okoljem*. Ljubljana: SIQ.

### Dodatna – dopolnilna / Recommended reading(s):

- Senge, P. (2008). *The Necessary Revolution: How Individuals and Organizations Are Working Together to Create a Sustainable World*. London, Boston: Nicholas Brealey Publishing.
- Seražin, M. (2005). *Ocena tveganja je narejena. Kako naprej?* Ljubljana: SIQ.
- Vujošević, N. (2006). *Vodilo za okoljske standarde*. Ljubljana: GV.
- Wever, G. (1996). *Strategic Environmental Management: Using TQEM and ISO 14000 for Competitive Advantage (Wiley Series in Environmental Quality Management)*. New York: John Wiley & Sons.
- Woodside, G., Yturr, J., & Aurricho, P. (1998). *ISO 14001 Implementation Manual*. New York: McGraw-Hill.
- Standard ISO 14001.
- Izbrani aktualni članki.

### Cilji in kompetence:

- Poznavanje in razumevanje procesov, procesno zasnovane organizacije ter sposobnost obvladovanja nenehnega izboljševanja.
- Uporaba in razvoj metod in tehnik za uspešno in učinkovito obvladovanje procesov ter nenehno izboljševanje kakovosti dela, proizvodov in storitev.
- Zmožnost vzpostavljanja in vzdrževanja kooperativnih odnosov za delo v skupini in z drugimi zainteresiranimi ter zmožnost ustvarjalnega dialoga.
- Razvoj kritične in samokritične presoje.
- Etična refleksija in zavezanost profesionalni etiki v družbenem okolju.
- Usposobljenost za obvladovanje organizacijskih sprememb v organizaciji kot odziv na spremembe v okolju.
- Zmožnost vzpostavljanja in vzdrževanja partnerskih odnosov z vsemi zainteresiranimi (odjemalci, zaposleni, lastniki, družbeno okolje).
- Sposobnost interdisciplinarnega povezovanja znanj različnih predmetov
- Internalizacija gradnikov sodobne organizacijske teorije, temelječe na organizaciji kot ciljno usmerjenih razmerij med ljudmi.
- Poznavanje in razumevanje avtopoietičnega koncepta obvladovanja kakovosti in odličnosti, temelječega na spiralno-vijačnem zaporedju planiranja, izvedbe, preverjanja in ukrepanja.
- Sposobnost razumevanja in uporabe sodobnih teorij organizacije v praktičnem okolju.
- Sposobnost prepoznavanja, obvladovanje in nenehnega izboljševanja procesov v organizaciji ter njihove povezave v celovit sistem procesov.

### Objectives and competences:

- Comprehending and understanding processes, process-based organizations and the ability to manage continuous improvements.
- Use and develop methods and techniques for efficient and effective process management and continuous improvement of quality of work, products, and services.
- The ability to establish and maintain cooperative relations for teamwork and with other interested individuals as well as the ability for creative dialogues.
- The development of critical and self-critical assessment.
- Ethical reflection and commitment to professional ethics in a social environment.
- The ability to manage organizational change within an organization in response to changes in the environment.
- Ability to establish and maintain partnerships with all stakeholders (consumers, employees, owners, social environment).
- The ability to connect interdisciplinary knowledge from various subjects.
- Internalisation of building blocks within contemporary organization theory that is based on an organization as a target-oriented relationship among individuals and people.
- Knowing and understanding the concept of autopoiesis in reference to quality management and excellence founded on the spiraling order of planning, doing, checking, and acting.
- Ability to understand and apply contemporary

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| <ul style="list-style-type: none"> <li>– Poznavanje pristopov in modelov kakovostnega obvladovanja procesa proizvodnje proizvodov in storitev.</li> <li>– Sposobnost prepoznavanja in obvladovanja ključnih vidikov ekonomske organizacije.</li> <li>– Obvladovanje temeljnih znanj in praktičnih pristopov, potrebnih za učinkovito in uspešno obvladovanje sistema vodenja organizacije s poudarkom na vodenju z zgledom, poslovnem komuniciranju, obvladovanju projektov, informatizaciji procesov in sistemskem razmišljanju.</li> <li>– Usposobljenost za obvladovanje in nenehno izboljševanje dela v proizvodnih oziroma storitvenih organizacijah.</li> </ul> | <ul style="list-style-type: none"> <li>organization theories in a practical environment.</li> <li>– Ability to identify, control, and the continuous improvement of processes in an organization and its links to a comprehensive system of processes.</li> <li>– Knowledge of approaches and models of the quality control process in manufacturing products and services.</li> <li>– Ability to recognize and manage partner relationships with suppliers and the entire supply chain, sales, and after-market.</li> <li>– Applying basic knowledge and practical approaches to achieve effective and efficient management of an organization with an emphasis on leadership by example, business communication, management of projects, informatisation of processes and systematic thinking.</li> <li>– Training for managing and continuously improving work in production and service organizations</li> </ul> |
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| <b>Predvideni študijski rezultati:</b>   | <b>Intended learning outcomes:</b>   |
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| <p>Študent/študentka:</p> <ul style="list-style-type: none"> <li>– Pozna in razume pomen in večplastnost procesnega pristopa pri obvladovanju sistema ravnanja z okoljem.</li> <li>– Pozna in razume vlogo in pomen sistema ravnanja z okoljem v poslovnih odnosih.</li> <li>– Razume interakcijsko delovanje dejavnikov, ki vplivajo na uspešnost in učinkovitost obvladovanja sistema ravnanja z okoljem.</li> <li>– Pozna in uporablja sodobne pristope, modele in orodja za doseganje in nenehno izboljševanje sistema ravnanja z okoljem.</li> <li>– Uporablja osnovno znanje in veščine s področja sistema ravnanja z okoljem.</li> <li>– Reflektira in kritično ovrednoti različne izkušnje in aktualna dogajanja s področja sistema ravnanja z okoljem.</li> <li>– V povezavi z drugimi predmeti pozna, razume in reflektira kompleksnost strokovnih in družbenih nalog zaposlenih pri obvladovanju sistema ravnanja z okoljem.</li> <li>– Pozna in razume umeščenost ravnanja z okoljem v širše družbene, kulturne in vrednotne kontekste ter z refleksijo teh kontekstov oblikuje intelektualno aktiven odnos do sveta.</li> </ul> | <p>The student will:</p> <ul style="list-style-type: none"> <li>– Know and understand the multi-layered process approach in environmental management system.</li> <li>– Know and understand the role and meaning of environmental management systems in business relations.</li> <li>– Understand the interactive functions of factors that effect on the success and effectiveness of environmental management system.</li> <li>– Understand and use contemporary approaches, models, and tools for achieving continuous improvement of environmental management system.</li> <li>– Use basic knowledge and skills from the field of environmental management system.</li> <li>– Reflect and critically evaluate various experiences from the field of environmental management system.</li> <li>– In connection with other courses, know and reflect the complex professional and social tasks of employees in environmental management system.</li> <li>– Know and understand how environmental management system fits with society in large, within the context of culture and value-laden as well as reflect from these contexts to form an intellectually active relationship to the world.</li> </ul> |

| <b>Metode poučevanja in učenja:</b> | <b>Learning and teaching methods:</b> |
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| <ul style="list-style-type: none"> <li>– Predavanja z aktivno udeležbo študentov (razlaga snovi, pogovori, vprašanja, primeri, reševanje problemov).</li> <li>– Seminarske vaje v povezavi s prakso (refleksija izkušenj, projektno delo, timsko delo, metode kritičnega mišljenja, pogovori, sporočanje povratne informacije, socialne igre, ekskurzija).</li> <li>– Individualne in skupinske konzultacije (pogovori, dodatna razlaga, obravnava specifičnih vprašanj).</li> <li>– Animacija samostojnega študija in raziskovanja (motiviranje, usmerjanje, samoopazovanje, samouravnavanje, refleksija, samoocenjevanje).</li> </ul> | <ul style="list-style-type: none"> <li>– Lectures with active student participation (discussions, talks, questioning, cases, problem-solving).</li> <li>– Seminar papers in connection to practice (reflections from experience, project work, teamwork, methods of critical thinking, talks, providing feedback, social games, excursions).</li> <li>– Individual and group consultations (discussions, additional explanations, discussing specific questions).</li> <li>– Facilitating independent study and research (motivating, directing, self-examination, self-regulation, reflection, and self-assessment).</li> </ul> |
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| <b>Načini ocenjevanja:</b>   | <b>Delež / Weight (%)</b> | <b>Assesment:</b>   |
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| Način (pisni izpit, ustno izpraševanje, naloge, projekt)                           |                           | <i>Type (examination, oral, coursework, project)</i>                                    |
| – Pisni/ustni izpit  | 60%                       | – Written / Oral Exam   |
| – Empirična seminarska naloga s poročili seminarskega dela ter predstavitev naloge | 40%                       | – Empirical seminar paper with reports from seminar work and seminar paper presentation |

#### Reference nosilca / Lecturer's references:

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| <ul style="list-style-type: none"> <li>– KRALJ, Davorin. Innovative systemic approach for promoting sustainable innovation for zero construction waste. <i>Kybernetes</i>, 2011, vol. 40, no. 1/2, str. 275-289. [COBISS.SI-ID <a href="#">2048001794</a>], [JCR, WoS do 11. 4. 2012: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, <a href="#">Scopus</a> do 3. 3. 2012: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0]</li> <li>– KRALJ, Davorin. Experimental study of recycling lightweight concrete with aggregates containing expanded glass. <i>Process saf. environ. prot.</i>, 2009, vol. 87, is. 4, str. 267-273, doi: <a href="#">10.1016/j.psep.2009.03.003</a>. [COBISS.SI-ID <a href="#">3213783</a>], [JCR, WoS do 8. 9. 2009: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, <a href="#">Scopus</a> do 18. 6. 2012: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0].</li> <li>– OGRIN, Uroš, KRALJ, Davorin. Sustainable business and environmental indicators. <i>WSEAS trans. commun.</i>, mar. 2009, vol. 8, is. 3, str. 331-342. [COBISS.SI-ID <a href="#">3181783</a>], [<a href="#">Scopus</a> do 13. 6. 2012: št. citatov (TC): 1, čistih citatov (CI): 1, normirano št. čistih citatov (NC): 1].</li> <li>– KRALJ, Davorin. Systems thinking and modern green trends. <i>WSEAS transactions on environment and development</i>, 2009, vol. 5, is. 6, str. 415-424, ilustr., tabele. [COBISS.SI-ID <a href="#">3295703</a>], [<a href="#">Scopus</a> do 24. 2. 2011: št. citatov (TC): 0, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0]</li> <li>– KRALJ, Davorin. Dialectal system approach supporting environmental innovation for sustainable development. <i>Kybernetes</i>, 2008, let. 37, št. 9/10, str. 1542-1560. [COBISS.SI-ID <a href="#">2863319</a>], [JCR, WoS do 6. 4. 2012: št. citatov (TC): 2, čistih citatov (CI): 0, normirano št. čistih citatov (NC): 0, <a href="#">Scopus</a> do 18. 6. 2012: št. citatov (TC): 10, čistih citatov (CI): 3, normirano št. čistih citatov (NC): 3]</li> </ul> |
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