

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Planiranje in vodenje projektov
Course title:	Planning and Project Management

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Tehnologije in sistemi – prva stopnja	/	drugi	četrti
Technologies and Systems – 1st cycle	/	second	fourth

Vrsta predmeta / Course type obvezni/obligatory

Univerzitetna koda predmeta / University course code: TS 2 UN 9

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Laboratorijske vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
30		15	15		85	5

Nosilec predmeta / Lecturer: doc. dr. Elvis Hozdić

Jeziki / Languages: slovenski/ slovenian	Predavanja / Lectures:	Slovenski/Slovenian
	Vaje / Tutorial:	Slovenski/Slovenian

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

- vpis v drugi letnik študija.

Prerequisites:

- enrollment in the second year of study.

Vsebina:

- *Uvod v predmet.* Namen študija predmeta, povezanost predmeta z drugimi predmeti, vsebina študija predmeta, študijska literatura.
- *Projekti.* Opredelitev, cilji, vrste in značilnosti. Strategija organizacije in projekti.
- *Metode za vodenje projektov.* PRINCE 2. SCRUM. Pogodbe in drugi pravni vidiki projektov.
- *Projektna organiziranost.* Glavni sistem projekta, sistem skrbništva, izvajalni sistem.

Content (Syllabus outline):

- *Introduction to the course.* Purpose of studying the subject, connection of the subject with other subjects, content of studying the subject, study literature.
- *Projects.* Definition, objectives, types and characteristics. Organisational strategy and projects.
- *Methods of project management.* PRINCE 2. SCRUM. Contracts and other legal aspects of projects.
- *Project organisation.* Main Project System, Admin System, Execution

<p>Vloge, komuniciranje, nadziranje in poročanje.</p> <ul style="list-style-type: none"> • <i>Faze projekta.</i> Iniciranje, planiranje, izvajanje, kontroliranje, zaključek. Osnovna ekonomika projekta. • <i>Planiranje projekta.</i> Razporejanje aktivnosti. WBS in PERT. Čas. Ljudje. Stroški in drugi resursi. • <i>Izvajanje projekta.</i> Kritična pot projekta. Optimiranje kritične poti. Gantt. Optimiranje resursov projekta. • <i>Koordiniranje.</i> Kontroliranje. Poročanje. • <i>Zaključek.</i> Izročanje objektnih in namenskih ciljev projekta. Pravni vidiki projektov. • <i>Projektni informacijski sistem.</i> Računalniška podpora vodenju projektov. MS Project. 	<p>System. Roles, communication, monitoring and reporting.</p> <ul style="list-style-type: none"> • <i>Project phases.</i> Initiation, planning, execution, control, closure. Economic principles of the project. • <i>Project planning.</i> Scheduling of activities. WBS and PERT. Time. People. Costs and other resources. • <i>Project implementation.</i> The critical path of the project. Optimisation of the critical path. Gantt. Optimisation of project resources. • <i>Coordination.</i> Controlling. Reporting. • <i>Conclusion.</i> Achieving the objective and purposeful goals of the project. Legal aspects of projects. • <i>Project information system.</i> Computer support for project management. MS Project.
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Temeljni literatura in viri / Readings:

Wysocki, R. (2003) *Effective project management: traditional, adaptive, extreme*. Indianapolis: J. Wiley.

Berkun, S. (2005) *Art of Project Management*. Cambridge: O'Reilly Media.

Kerzner, H. (2003) *Project Management: A Systems Approach to Planning, Scheduling and Controlling, 8th Ed.* Wiley.

Schwaber, K., Beedle, M. (2001) *Agile software development with SCRUM*. London: Prentice Hall.

Demarco, T., Lister, T. (1999) *Peopleware: Productive projects and teams, 2nd ed.* Dorset House Publishing Company.

FIDIC knjige. (1999) Lausanne: Fidic.

Pravilnik o vsebini projektne dokumentacije. (1998) Ljubljana: ULRS 35/98.

Zakon o graditvi objektov (ZGO-1). (2003) Ljubljana: ULRS 110/03.

Slana, M. (2010) *Investicijski procesi in vodenje projektov, 2. izdaja.*

Cilji in kompetence:

Učna enota prispeva predvsem k razvoju naslednjih splošnih in specifičnih kompetenc:

- sposobnost evidentiranja problema in njegove analize ter predvidevanja operativnih rešitev v tehnološkem smislu ali v procesu organizacije in vodenja,
- sposobnost obvladovanja standardnih razvojnih metod, postopkov in procesov,
- sposobnost obvladovanja razvoja in napredka,

Objectives and competences:

The learning unit mainly contributes to the development of the following general and specific competences:

- the ability to identify a problem and analyze it, as well as foresee operational solutions in the technological sense or in the process of organization and management,
- the ability to master standard development methods, procedures and processes,

- sposobnost uporabe pridobljenega teoretičnega znanja v praksi,
- razvoj programske opreme v skladu z najboljšo prakso stroke,
- sposobnost izdelave, vpeljave in vodenja projektov,
- poznavanje, načrtovanje, vpeljevanje in upravljanje programske opreme,
- sposobnost sodelovanja v skupinah in vodenje skupin za razvoj programske opreme.

- the ability to manage development and progress,
- the ability to use acquired theoretical knowledge in practice,
- software development in accordance with the best practice of the profession,
- the ability to create, implement and manage projects,
- knowledge, planning, implementation and management of software,
- ability to participate in teams and lead software development teams.

Predvideni študijski rezultati:

Znanje in razumevanje:

Študent/študentka:

- pozna in razume pomen in cilje projektov,
- pozna in razume pomen sodobnega projektnega vodenja,
- uporablja osnovno znanje in veščine s področja projektnega vodenja,
- pozna in uporablja programska orodja za podporo projektnemu vodenju,
- pridobljeno znanje uporablja pri projektnih procesih: iniciranje, planiranje, koordiniranje, komuniciranje in poročanje,
- pozna in uporablja računalniška orodja za podporo vodenja projektov.

Intended learning outcomes:

Knowledge and understanding:

Student:

- knows and understands the meaning and goals of projects,
- knows and understands the importance of modern project management,
- applies basic knowledge and skills in the field of project management,
- knows and uses software tools to support project management,
- applies the acquired knowledge in project processes: initiation, planning, coordination, communication and reporting,
- knows and uses computer tools to support project management.

Metode poučevanja in učenja:

- *predavanja* z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov),
- *laboratorijske vaje in seminarska naloga* v povezavi s prakso (refleksija izkušenj, projektno delo, timsko delo, metode kritičnega mišljenja, diskusija, sporočanje povratne informacije).

Learning and teaching methods:

- lectures with active student participation (explanation, discussion, questions, examples, problem solving),
- laboratory tutorials and a seminar assignment in connection with practice (reflection of experiences, project work, team work, methods of critical thinking, discussion, communication of feedback).

Delež (v %) /
Weight (in %) **Assessment:**

Načini ocenjevanja:

<p>Način (pisni izpit, ustno izpraševanje, naloge, projekt):</p> <ul style="list-style-type: none">• pisni (ustni) izpit• seminarska naloga in predstavitev naloge <p>Ocenjevalna lestvica: ECTS.</p>	<p>60% ocene 40% ocene</p>	<p>Type (examination, oral, coursework, project):</p> <ul style="list-style-type: none">• written (oral) exam• seminar assignment and assignment presentation <p>Grading scale: ECTS.</p>
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