Univerza v Mariboru

Fakulteta za naravoslovje in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	**Projektno upravljanje v šoli**
Course title:	**Project management in the school**

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Enovit magistrski študijski program Predmetni učitelj 2. stopnje	**Izobraževalna tehnika**	**2, 3**	**Poletni/ Summer**
Five-year master's degree program Subject Teacher	**Technical education**		

Vrsta predmeta / Course type Izbirni / Elective

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Lab. vaje Laboratory work	Terenske vaje Field work	Samost. delo Individ. work	ECTS
20	10	15			45	3

Nosilec predmeta / Lecturer: Boris Aberšek

Jeziki / Languages:		
	Predavanja / Lectures:	slovenski / slovene
	Vaje / Tutorial:	slovenski / slovene

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

Ni posebnih pogojev.

Prerequisits:

No special prerequisites.

Vsebina:

Predavanja:

- Projekt in projektno vodenje v šoli;
- definicija projektnega vodenja, elementi in načrt projekta, vrste in lastnosti projektov, šolski projekt,
- faze in procesi projektnega vodenja, opredelitev projekta(opis problema, identifikacija ciljev projekta, določitev virov, omejitev in tveganj).

Content (Syllabus outline):

Lectures:

- Project and project management at school;
- definition of school project management, elements in project plan, kind and property of school projects;
- phase and process of project management, definition of the project (definition of the problem, identification

- informacijski viri in orodja s področja projektnega vodenja prilagojene šolskim projektom;
- oblike projektne organiziranosti v šoli in njihove prednosti ter slabosti
- metode in orodja za načrtovanje in upravljanje projektov v šoli.

Vaje in seminar:

- V okviru vaj študentje spoznajo različno organizirane projekte , njihovo organiziranost in metode vodenja;
- seminar aplikativno dopolnjuje vsebino predavanj z reševanjem praktičnih problemov.

of the goals, definition of the resources, limitation and risk).

- Information sources and tools from project management oriented on the school projects;
- forms of the projects organization in school and their advantage and disadvantage;
- methods and tools for planning and management projects I the school.

Tutorials and seminar:

- At tutorials students learn more about different organized projects and the methods of management;
- seminar work supplements the lectures with the solutions of the practical problems.

Temeljni literatura in viri / Readings:

- Aberšek, B. Didaktika tehniškega izobraževanja med teorijo in prakso. 1. izd. Ljubljana: Zavod Republike Slovenije za šolstvo, 2012
- Aberšek, B. Tehnologija sporazumevanja za inženirje : poslovno in strokovno sporazumevanje v teoriji in praksi. 1. izd. Maribor: Fakulteta za strojništvo, 2003
- Aberšek, B.: Proizvodni sistemi, (Zbrano gradivi), PeF, Maribor, 2003
- Burke, R. Project Management, 3. izdaja. Wiley, Chichester, 2001

Cilji in kompetence:

- Podati znanja in informacij o sodobnih tehnologijah, ki se danes uporabljajo na področju načrtovanja in vodenja projektov;
- podati potrebna znanje s področja vrednotenja in izbire sodobnih metod vodenja in odločanja;
- prikazati praktično uporabo predhodno pridobljenih teoretičnih znanj na praktičnih primerih;
- spodbujanje študentov k kreativnemu in samostojnemu razmišljanju in razvijanju sposobnosti za kreativno reševanje problemov.

Objectives and competences:

- To present knowledge and information about contemporary technologies for planning and managements of the projects;
- to provide necessity knowledge from area of assessment and selection of contemporary methods of planning and decision making;
- to demonstrate practical use of previously accumulated theoretical knowledge on the practical examples;
- to encourage the students to creative and independent thinking for developing and solving different problems.

Predvideni študijski rezultati:

Intended learning outcomes:

Znanje in razumevanje:	**Knowledge and understanding:**
• Poznavanje splošnih napotkov in pravil za izbiro ustreznih oblik načrtovanja in vodenja projektov v šolstvu; • poznavanje načinov za učinkovito načrtovanje projektnega dela; • razumevanje sovisnosti različnih znanj in postopkov ter pomena uporabe strokovne literature in računalniških sistemov za učinkovito reševanje praktičnih problemov.	• knowledge of general instructions and rules for planning and selecting suitable methods for project conduct at school; • knowledge for effective planning of project work; • understanding of relationships between different skills and procedures and importance of professional literature and computer systems for efficient solutions of practical problems.
Prenesljive/ključne spretnosti in drugi atributi: • kombinirana uporaba različnih znanj za reševanje praktičnih problemov; • načrtovanje tehnologij projektnega vodenja s posebnim poudarkom na šolstvu.	**Transferable/Key Skills and other attributes:** • combined use of different skills for solution of practical problems; • design of technology of project management at school.

Metode poučevanja in učenja:	**Learning and teaching methods:**
• frontalna predavanja, • skupinsko delo; • izdelava seminarske naloge, • diskusije v elektronskem forumu, • e-učenje.	• frontal lectures, • work in small groups; • seminar work, • discussion in electronic forums, • e-learning.

Načini ocenjevanja:	Delež (v %) / Weight (in %)	**Assessment:**
• diskusije v elektronskem forumu, • seminarske naloga, • pisni/ustni izpit.	**20 %** **40 %** **40 %**	• discussion in electronic forums, • seminar works, • written/oral examination.

Reference nosilca / Lecturer's references:

- Aberšek, B., Flašker, J. Review of experimental models for confirmation of mathematical models of gears. *Key eng. mater.*, 2008, vol. 385-387, 345-348.
- Aberšek, B., Mikluš, S. Models for optimization of gantry crane main girder. *Key eng. mater.*, 2007, vols. 348-349, str. 657-660
- Aberšek, B. Modern learning environments in combination with inteligent expert system. *Journal of science education*, 2005, vol. 6,
- Aberšek, B., Popov, V. Intelligent tutoring system for training in design and manufacturing. *Adv. eng. softw. (1992)*. [Print ed.], 2004, 35, str. 461-471
- Aberšek, B., Flašker, J. *How gears break*, (Advances in damage mechanics, vol. 7). Southampton; Billerica (MA): WIT Press, cop. 2004