



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Vodenje projektov
Course title:	Project Management

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
FIZIKA		1.	1.
PHYSICS		1.	1.

Vrsta predmeta / Course type

Obvezni za modula Biofizika 1 in Fizika 1

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
5					145	5

Nosilec predmeta / Lecturer:

Aleksander Zidanšek

Jeziki /
Languages:

Predavanja /
Lectures: slovenski/Slovenian

Vaje / Tutorial:

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

Prerequisites:

Osnovna znanja iz naravoslovnih in/ali tehničnih znanosti

Basic knowledge from natural and/or technical sciences

Vsebina:

Content (Syllabus outline):

<p>Kaj je projekt?</p> <p>Projekti v fiziki</p> <p>Življenjski cikel projekta, organizacija in procesi</p> <p>Orodja in tehnike vodenja projektov</p> <p>Upravljanje obsega projekta</p> <p>Upravljanje časa v projektu</p> <p>Upravljanje cene projekta</p> <p>Upravljanje kakovosti projekta</p> <p>Druga vprašanja vodenja projekta</p>	<p>What is a Project?</p> <p>Projects in Physics</p> <p>Project Life Cycle, Organization and Processes</p> <p>Project Management Tools and Techniques</p> <p>Project Scope Management</p> <p>Project Time Management</p> <p>Project Cost Management</p> <p>Project Quality Management</p> <p>Other Project Management Issues</p>
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Temeljni literatura in viri / Readings:

- 1) Guide to the Project Management Body of Knowledge, Project Management Body of Knowledge: Project Management Institute, Newtown Square, Pennsylvania, ZDA, 2004.
- 2) James P. Lewis, Fundamentals of Project Management, American Management Association, New York, ZDA, 2002.
- 3) Članki v revijah New Scientist, Physics World in Science
- 4) Na spletnih straneh Oddelka za fiziko objavljena elektronska gradiva / teaching material published on websites of Department of Physics

Cilji in kompetence:

Študentje usvojijo znanja, potrebna za razumevanje vodenja projektov, za samostojno izvajanje preprostih projektov in za obvladovanje kompleksnih projektov.

Objectives and competences:

Students achieve knowledge that is necessary for complex understanding of project management, for independent implementation of elementary projects and for mastering the complex projects.

Predvideni študijski rezultati:

Znanje in razumevanje:

Razumevanje vodenja projektov v fiziki in obvladovanje nekaterih orodij za učinkovito vodenje projektov.

Prenosljive/ključne spretnosti in drugi atributi:

Prenosljive/ključne spretnosti in drugi atributi: Predmet pripravlja študenta za samostojno delo na fizikalnih projektih.

Intended learning outcomes:

Knowledge and understanding:

Understanding of project management in physics and mastering some tools for effective project management.

Transferable/Key Skills and other attributes:

Subject prepares the student for independent work on physics projects.

Metode poučevanja in učenja:

Learning and teaching methods:

Metodika obsega: teoretičen uvod v obravnavano snov, in seminarje študentov, v katerih obdelajo praktične primere vodenja projektov

They are based on: theoretical introduction to specific topics and student seminars where practical cases of project management are covered.

		Delež (v %) / Weight (in %)	
Načini ocenjevanja:			Assessment:
Način (pisni izpit, ustno izpraševanje, naloge, projekt)			Type (examination, oral, coursework, project):
projektna naloga	50		project
ustni izpit	50		oral examination

Reference nosilca / Lecturer's references:

1. ABINA, Andreja, PUC, Uroš, JEGLIČ, Anton, ZIDANŠEK, Aleksander. Structural analysis of insulating polymer foams with terahertz spectroscopy and imaging. *Polymer testing*, ISSN 0142-9418. [Print ed.], 2013, vol. 32, issue 4, str. 739-747, doi: [10.1016/j.polymeresting.2013.03.004](https://doi.org/10.1016/j.polymeresting.2013.03.004). [COBISS.SI-ID [26612263](#)]
2. CORDOYIANNIS, George, JAMPANI, Venkata Subba R., KRALJ, Samo, KUTNJAK, Zdravko, JESENEK, Dalija, MUŠEVIČ, Igor, ZIDANŠEK, Aleksander, et al. Different modulated structures of topological defects stabilized by adaptive targeting nanoparticles. *Soft matter*, ISSN 1744-683X, 2013, vol. 9, no. 15, str. 3956-3964, doi: [10.1039/C3SM27644A](https://doi.org/10.1039/C3SM27644A). [COBISS.SI-ID [26557223](#)]
3. KRALJ, Samo, CORDOYIANNIS, George, JESENEK, Dalija, ZIDANŠEK, Aleksander, LAHAJNAR, Gojmir, NOVAK, Nikola, AMENITSCH, Heinz, KUTNJAK, Zdravko. Dimensional crossover and scaling behavior of a smectic liquid crystal confined to controlled-pore glass matrices. *Soft matter*, ISSN 1744-683X, 2012, vol. 8, issue 8, str. 2460-2470, doi: [10.1039/C1SM06884A](https://doi.org/10.1039/C1SM06884A). [COBISS.SI-ID [25534759](#)]
4. ZIDANŠEK, Aleksander, AMBROŽIČ, Milan, MILFELNER, Maja, BLINC, Robert, LIOR, Noam. Solar orbital power : sustainability analysis. V: DUIĆ, Neven (ur.), GUZOVIĆ, Zvonimir (ur.). *Proceedings of the 5th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems, 30 September 2009 to 3 October 2009, Dubrovnik, Croatia*, (Energy, ISSN 0360-5442, vol. 36, no. 4, 2011). Oxford; New York: Pregamon Press, 2011, vol. 36, no. 4, str. 1986-1995. [COBISS.SI-ID [24602919](#)]
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5. CORDOYIANNIS, George, ZIDANŠEK, Aleksander, LAHAJNAR, Gojmir, KUTNJAK, Zdravko, AMENITSCH, Heinz, NOUNESIS, George, KRALJ, Samo. Influence of confinement in controlled-pore glass on the layer spacing of smectic-A liquid crystals. *Physical review. E, Statistical, nonlinear, and soft matter physics*, ISSN 1539-3755, 2009, vol. 79, no. 5, str. 051703-1-051703-7. [COBISS.SI-ID [22602791](#)]