

20. Management of projects, innovation and start-ups

GENERAL INFORMATION ABOUT THE COURSE					
Course coordinator	Anica Hunjet, PhD, associate professor				
Course name	Management of projects, innovation and startups				
Study program	Mechanical Engineering				
Course status	Elective				
Year	2				
Semester	3				
Number of credits	ECTS student load coefficient	4			
and teaching	Number of hours (lectures +	15 + 15 + 15			
methods	seminars + exercises)	10 - 10 - 10			

1. DESCRIPTION OF THE COURSE

1.1. Course objectives

Familiarising students with fundamental technologies in the area of projects and project management. Students will adopt knowledge on a formal definition of projects, manner of initiating and running them, teamwork, formal tracking of project progress and start of the project lifecycle. Students will become familiar with the basic conditions of successful project management with a special emphasis on the effect of the project domain, business and communication aspect. Student will get involved in theoretical and practical preparations for participating in projects and they will be presented with basic aspects, problems and existing solutions relating to the management of different types of projects.

1.2. Course enrolment prerequisites (*if applicable*)

None

1.3. Expected course learning outcomes

After having listened to course lectures and passed the exam, students will be able to:

- 1. Differentiate project roles in the terms of the organisation
- 2. Defining key stakeholders
- 3. Identifying basic conditions of successful project management
- 4. Selecting a suitable lifecycle project
- 5. Identifying project processes
- 6. Differentiate methods and techniques in project management
- 7. Project management tools



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1.4. Course content									
 Introduction to the course definition of concepts and area of course goals, Innovative processes. 									
 Fundamental concepts of project management, context of project management Project lifecycle, basic processes and process groups 									
4. Projec	t plan	ning, project initia	ation						
5. Schedi	lie ma t sund	anagement	ol nro	iect closure					
7. Interin	n exai	m 1	oi, pro						
8. Guest	lectu	rer							
9. Econo	mic in	nplications of tech	nologi	cal innovation	۱ <i>,</i> Sys	stema	tisation of innovat	ion	
10. Dynam	nics of	f technological inn	ovatio	n, implication	s of	comp	etitiveness, marke	t and	
technology dynamics									
11. Methodology of innovation development									
12. Social aspects of innovation, Market dynamics, definition of value chain 13. Development potential in estimating technological opportunities and management									
of development portfolio									
14. Guest lecturer									
15. Interin	n exai	m 2							
		Lectures			\square	Auton	omous exercises		
1.5. Types of Seminars and workshops					Multin	Iultimedia and network			
teaching Exercises				Laboratory					
			Other types						
1.6. Comments									
1.7 Student obligations (attendance at classes lectures tutorials seminars)									
Prenaring for the lectures – researching the literature									
 Actively participating in lectures 									
 Preparing for seminars – researching the literature and presentations from the lectures 									
1.8. Tracking student work (proportion of individual activities in terms of ECTS credits based									
on the total number of ECTS credits)									
Class	1	Class		Seminar pape	er	1	Experimental		
attendance		attendance					work		
Written exam	1	Written exam	0.5	Essay			Research		
Project		Continual assessment of knowledge		Written seminar pape	er		Practical work	0.5	
Online activity									



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1.9. Grading and assessment of student work during the semester and for the final exam *(colloquium, written exam, oral exam)*

For each activity, a certain number of points is awarded. Points are recorded on the online system for evaluation and development of competences. The following activities are assessed.

- 1. Participation at lectures 10%
- 2. Written exam 40%
- 3. Oral part of the exam 40%
- 4. Drafting the project task 10%

1.10. **Mandatory literature** (relevant at the time of submitting the proposed study program)

- PMI (2008) A Guide to the Project Management Body of Knowledge

- H. Kerzner (2006), Project Management Case Studies, Wiley

1.11. Supplementary literature (relevant at the time of submitting the proposed study program

- R.K.Wysocki: Effective Project Management: Traditional, Adaptive, Extreme, 2009, Wiley

- P. Sikavica, T. Hunjak, N. Begičević Ređep, T. Hernaus: Poslovno odlučivanje, Zagreb, Školska knjiga, 2013.

1.12. Manner of tracking quality to ensure the acquisition of exit knowledge, skills and competences

2. COMBINING THE LEARNING OUTCOMES, TEACHING METHODS AND ASSESSMENT OF THE LEARNING OUTCOMES

2.1. Class	2.2. Student	2.3. Learning	2.4. Assessment method		
participation	participation	outcome	2.4. A330351110111100		
	Listening to lectures				
Lectures	and participating in	1-3	Oral exam		
	discussions				
Project work	Solving problem tasks		Assessing the assignment		
	Exercises with practical		Accessing the recults obtained		
Exercises	assignments and real		Assessing the results obtained		
	examples		in the exercises		