

Teaching entrepreneurial competences

The e-DESK programme is targeted for the HEI teachers to skill up entrepreneurship education competence in online teaching methods/practices and to develop their online teaching skills and to enhance the entrepreneurial competences for their learners.

Planirani ECTS: 2, **Broj polaznika:** 50, **Način izvođenja:** Online

Status: U PLANIRANJU, **Javni pristup tečaju:** Privato

Suradnici: Darko Grabar, Petra Vondra, Valentina Kirinić, Blaženka Divjak, Barbi Svetec, Pirjo Kuru, Alba González Calleja, Paulo Belo Costa, Jose Carlos Ceballos, Priscila Parra, Ivan Sarmiento, Hilikka Laakso

Course learning outcome	Level	Weight
Describe pedagogical approaches, teaching and assessment methods that enhance students' engagement to develop students' entrepreneurial competences in online learning environment.	Razumijevanje	10
Identify what entrepreneurial competences students need in the contemporary world to seize and create opportunities and meet challenges to generate value.	Analiziranje	15
Identify relevant pedagogical approaches to support students to analyse the impacts of ideas, opportunities, actions, created values and ethical implications in the selected real-world environment.	Analiziranje	15
Use appropriate technology to support sound pedagogical approaches that contribute to the development of students' entrepreneurial and problem-solving skills.	Primjena	10
Evaluate individual and group strengths and weaknesses of students and staff regarding hybrid and digital teaching and learning about entrepreneurial competences.	Prosudivanje	10
Create interactive learning designs and sessions developing students' entrepreneurial competences, minding students' pre-competence, available resources and pedagogical techniques that enhance students' engagement and motivation.	Stvaranje	20
Integrate the learning material available in the MOOC with other appropriate teaching and learning resources to foster entrepreneurial competences and ethical and sustainable thinking.	Primjena	10
Evaluate the learning process and students' acquisition of learning outcomes related to entrepreneurial competences.	Prosudivanje	10
Total Weight: 100		

Naziv teme / cjeline	Radno opterećenje	Vrsta učenja	Način izvođenja		Grupe	Suradnja	Povratne informacije	Vrednovanje			
								Points	Types	Providers	
Introduction											
Introduction											
Introductory video This video should summarize the main aspects and relevant contents/characteristics of the MOOC. Maybe it could be done after we have the rest of the final draft materials. *To keep the narrative, we could do very short introductory videos (using the same voice/person/character) to all modules/submodules.	20 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
Glossary A compilation of the main terms that will be used during the MOOC and can cause doubts.	10 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
Self assessment Entrepreneurial competences and teaching methods. The main objective of this assessment shall be to make participants aware of what they already know and from where they depart.	30 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	0	Sumativno	Samovrednovanje

Ukupno radno opterećenje cjeline	1h
-------------------------------------	----

Naziv teme / cjeline	Radno opterećenje	Vrsta učenja	Način izvođenja	Grupe	Suradnja	Povratne informacije	Vrednovanje				
							Points	Types	Providers		
<h2>Competences, skills and values in general</h2> <p>Describe pedagogical approaches, teaching and assessment methods that enhance students' engagement to develop students' entrepreneurial competences in online learning environment. (70%), Identify what entrepreneurial competences students need in the contemporary world to seize and create opportunities and meet challenges to generate value. (10%)</p>											
<h3>Entrepreneurial competences</h3>											
<p>Pre-reading + introductory video Reading and audiovisual materials regarding the basics of entrepreneurial education.</p>	60 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
<p>Quiz Formative assessment based on the pre-reading. Multiple choice questions. Can be used as an entry pre-competence test (to check the level of teachers' pre-competence).</p>	60 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	Automatizirano	3	Sumativno	Automatizirano
<p>Videos of best practice Short videos (3 - 6 mins) with good examples. Can be existing or newly recorded videos.</p>	60 min	Istraživanje	Online	Asinkroni	Nastavnik nije prisutan	da	da	ne	ne		

Discussion based on reading, videos and own experiences Discussion based on questions. For this forum assignment we recommend having only 2-3 questions not focused exactly on the videos, but maybe things and characteristics shared by all/most examples.	90 min	Rasprava	Online	Sinkroni	Nastavnik nije prisutan	ne	da	Kolega	2	Sumativno	Kolega
Ukupno radno opterećenje cjeline	4.5h										
Pedagogical approaches, teaching and assessment											
Videos Videos on pedagogical approaches, learning outcomes, learning theories, constructive alignment etc.	115 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
Quiz Short formative assessment related to the pre-reading.	60 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	Automatizirano	3	Sumativno	Automatizirano

Videos/materials on best practice Participants will be provided with materials on good practices in flipped classroom and work-based learning approaches (E+ project RAPIDE).	60 min	Istraživanje	Online	Asinkroni	Nastavnik nije prisutan	da	da	ne	ne		
Discussion based on the pre-reading, videos and own experience Participants will be divided in groups and provided with questions for discussion.	90 min	Rasprava	Online	Sinkroni	Nastavnik nije prisutan	da	da	Kolega	2	Sumativno	Kolega
Ukupno radno opterećenje cjeline	5.41h										
Final test											
Final test - Copy	30 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	10	Formativno	Automatizirano
Ukupno radno opterećenje cjeline	0.5h										
Entrepreneurial competences- Copy											

<p>Pre-reading + introductory video Reading and audiovisual materials regarding the basics of entrepreneurial education.</p>	60 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
<p>Quiz Formative assessment based on the pre-reading. Multiple choice questions. Can be used as an entry pre-competence test (to check the level of teachers' pre-competence).</p>	60 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	Automatizirano	3	Sumativno	Automatizirano
<p>Videos of best practice Short videos (3 - 6 mins) with good examples. Can be existing or newly recorded videos.</p>	60 min	Istraživanje	Online	Asinkroni	Nastavnik nije prisutan	da	da	ne	ne		

<p>Discussion based on reading, videos and own experiences</p> <p>Discussion based on questions. For this forum assignment we recommend having only 2-3 questions not focused exactly on the videos, but maybe things and characteristics shared by all/most examples.</p>	90 min	Rasprava	Online	Sinkroni	Nastavnik nije prisutan	ne	da	Kolega	2	Sumativno	Kolega
<p>Ukupno radno opterećenje cjeline</p>	4.5h										
<p>Entrepreneurial competences- Copy- Copy</p>											
<p>Discussion based on reading, videos and own experiences</p> <p>Discussion based on questions. For this forum assignment we recommend having only 2-3 questions not focused exactly on the videos, but maybe things and characteristics shared by all/most examples.</p>	90 min	Rasprava	Online	Sinkroni	Nastavnik nije prisutan	ne	da	Kolega	2	Sumativno	Kolega
<p>Videos of best practice</p> <p>Short videos (3 - 6 mins) with good examples. Can be existing or newly recorded videos.</p>	60 min	Istraživanje	Online	Asinkroni	Nastavnik nije prisutan	da	da	ne	ne		

Naziv teme / cjeline	Radno opterećenje	Vrsta učenja	Način izvođenja			Grupe	Suradnja	Povratne informacije	Vrednovanje		
									Points	Types	Providers
<h2>Developing entrepreneurial competences</h2> <p>Describe pedagogical approaches, teaching and assessment methods that enhance students' engagement to develop students' entrepreneurial competences in online learning environment. (10%), Evaluate individual and group strengths and weaknesses of students and staff regarding hybrid and digital teaching and learning about entrepreneurial competences. (40%), Evaluate the learning process and students' acquisition of learning outcomes related to entrepreneurial competences. (10%)</p>											
<h2>Evaluating the pre-knowledge on entrepreneurial competences</h2>											
<p>Introductory videos</p> <p>Videos about the entrepreneurial competences framework - ENTRECOMP Europe.</p>	30 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
<p>Introduction to EntreComp Edu</p> <p>Get to know how to apply the EntreComp framework to education.</p>	30 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
<p>Discussion</p> <p>Discussion on the entrepreneurial competences framework. E.g. Participants in groups discussing various aspects or dimensions of the entrepreneurial competence framework.</p>	60 min	Rasprava	Online	Sinkroni	Nastavnik nije prisutan	ne	da	ne	ne		
Final test	30 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	10	Formativno	Automatizirano

Ukupno radno opterećenje cjeline	2.5h
-------------------------------------	------

Naziv teme / cjeline	Radno opterećenje	Vrsta učenja	Način izvođenja	Grupe	Suradnja	Povratne informacije	Vrednovanje				
							Points	Types	Providers		
<h2>Real-world requirements for entrepreneurial competences</h2> <p>Describe pedagogical approaches, teaching and assessment methods that enhance students' engagement to develop students' entrepreneurial competences in online learning environment. (10%), Identify what entrepreneurial competences students need in the contemporary world to seize and create opportunities and meet challenges to generate value. (90%)</p>											
<h3>Real-world requirements</h3>											
<p>Introductory presentation videos and readings Videos on the future of jobs. References: Frey & Osborne 2013 and 2017, World Economic Forum, ENTRECOMP and sustainability etc.</p>	90 min	Istraživanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
<p>Case-study analysis Examples of entrepreneurial stories. Several stories, analyzing them from different points of view (scientific fields, countries, regions), producing essays on students' entrepreneurial skills needed for this particular entrepreneurial environment. Making generalizations.</p>	60 min	Produkcija	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
<p>Peer-review Assessing the essays according to rubrics. [For moving the course to the WP platform, it shall be turned into self-assessment based on the criteria from the rubrics]</p>	90 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	10	Sumativno	Kolega

Ukupno radno opterećenje cjeline	4h
-------------------------------------	----

Naziv teme / cjeline	Radno opterećenje	Vrsta učenja	Način izvođenja		Grupe	Suradnja	Povratne informacije	Vrednovanje				
								Points	Types	Providers		
<h2>Relevant pedagogical approaches</h2> <p>Describe pedagogical approaches, teaching and assessment methods that enhance students' engagement to develop students' entrepreneurial competences in online learning environment. (10%), Use appropriate technology to support sound pedagogical approaches that contribute to the development of students' entrepreneurial and problem-solving skills. (10%), Identify relevant pedagogical approaches to support students to analyse the impacts of ideas, opportunities, actions, created values and ethical implications in the selected real-world environment. (80%)</p>												
<h3>Relevant pedagogical approaches</h3>												
<p>Introductory materials Introductory videos (10 mins per video) and other materials on pedagogical approaches (strategies): - in general - flipped classroom - problem/project-based learning - inquiry-based learning - work-based learning.</p>	60 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne			
<p>Branching scenarios Possibility of creating a character; selecting relevant pedagogical approaches related to the acquisition of spotting opportunities, sustainable and ethical thinking, creating values.</p>	60 min	Vježba	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	Automatizirano	9	Sumativno	Automatizirano	
<p>Discussion Discussion about the scenarios.</p>	60 min	Rasprava	Online	Sinkroni	Nastavnik nije prisutan	ne	da	Kolega	2	Sumativno	Kolega	

Ukupno radno opterećenje cjeline	3h
-------------------------------------	----

Naziv teme / cjeline	Radno opterećenje	Vrsta učenja	Način izvođenja		Grupe	Suradnja	Povratne informacije	Vrednovanje		
								Points	Types	Providers
<h3>Evaluating the digital teaching and learning skills of students and staff</h3> <p>Use appropriate technology to support sound pedagogical approaches that contribute to the development of students' entrepreneurial and problem-solving skills. (50%), Evaluate individual and group strengths and weaknesses of students and staff regarding hybrid and digital teaching and learning about entrepreneurial competences. (40%), Evaluate the learning process and students' acquisition of learning outcomes related to entrepreneurial competences. (10%)</p>										
<h4>Digital skills for teaching and learning</h4>										
<p>Introductory Videos General videos on technology enhanced learning. These videos should focus on digital skills necessary for different scenarios. (The different modes of delivery will be further explored on the Delivery Models of Teaching and Learning module).</p>	30 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne	

<p>Self-assessment of digital skills (first part) A rubric for self-assessment. Comparing to the average according to different criteria. Gap analysis and feedback. Evaluating pre-knowledge of digital skills according to the DigComp framework, using the Digital Skills Assessment tool from the European Commission platform (https://digital-skills-jobs.europa.eu/en/digital-skills-assessment).</p>	30 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	0	Sumativno	Automatizirano
<p>Content provision and practice Provision of different scenarios and choosing the tools that can enhance teaching and learning for that scenario. The scenarios are chosen according to the results from the first self-assessment, for each skill.</p>	75 min	Vježba	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
<p>Reflection on digital skills at own institutions Essay on ways to improve faculty digital skills at your institution. Use your strengths/weaknesses as examples.</p>	60 min	Produkcija	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		

Naziv teme / cjeline	Radno opterećenje	Vrsta učenja	Način izvođenja	Grupe	Suradnja	Povratne informacije	Vrednovanje				
							Points	Types	Providers		
<h3>Learning design concept and tool</h3> <p>Use appropriate technology to support sound pedagogical approaches that contribute to the development of students' entrepreneurial and problem-solving skills. (10%), Identify relevant pedagogical approaches to support students to analyse the impacts of ideas, opportunities, actions, created values and ethical implications in the selected real-world environment. (10%), Create interactive learning designs and sessions developing students' entrepreneurial competences, minding students' pre-competence, available resources and pedagogical techniques that enhance students' engagement and motivation. (80%)</p>											
<h3>Learning design concept and tool</h3>											
Introductory video Video on learning design concept and the tool (10 min in total). BDP Learning Design tool: https://learning-design.eu/en/	90 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
Quiz A short automated quiz related to the learning design concept.	10 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	Automatizirano	2	Sumativno	Automatizirano
Case-study analysis Several case-studies provided and discussed in groups. Delivery mode is hybrid.	120 min	Istraživanje	Online	Sinkroni	Nastavnik nije prisutan	da	da	Kolega	ne		

<p>Preparing learning design</p> <p>Preparing learning designs/sessions in an LD tool based on the discussion related to the case-studies based on the hybrid delivery mode. (Self-assessment instead of teacher assessment in WP.)</p>	280 min	Produkcija	Online	Sinkroni	Nastavnik nije prisutan	da	da	Nastavnik	30	Formativno	Nastavnik
<p>Ukupno radno opterećenje cjeline</p>	8.33h										

Naziv teme / cjeline	Radno opterećenje	Vrsta učenja	Način izvođenja			Grupe	Suradnja	Povratne informacije	Vrednovanje		
									Points	Types	Providers
<h2>Learning resources</h2> <p>Use appropriate technology to support sound pedagogical approaches that contribute to the development of students' entrepreneurial and problem-solving skills. (10%), Integrate the learning material available in the MOOC with other appropriate teaching and learning resources to foster entrepreneurial competences and ethical and sustainable thinking. (80%), Create interactive learning designs and sessions developing students' entrepreneurial competences, minding students' pre-competence, available resources and pedagogical techniques that enhance students' engagement and motivation. (10%)</p>											
<h2>Learning resources</h2>											
<p>Discussion Discussion on the takeaways from this course related to learning resources and what's missing. Finding information to support ethical and sustainable thinking.</p>	90 min	Rasprava	Online	Asinkroni	Nastavnik nije prisutan	ne	da	Kolega	ne		
<p>Video Videos on how to find relevant and reliable resources about ethical and sustainable thinking.</p>	60 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		

Naziv teme / cjeline	Radno opterećenje	Vrsta učenja	Način izvođenja	Grupe	Suradnja	Povratne informacije	Vrednovanje					
							Points	Types	Providers			
<h3>Evaluation and quality assurance</h3> <p>Integrate the learning material available in the MOOC with other appropriate teaching and learning resources to foster entrepreneurial competences and ethical and sustainable thinking. (10%), Identify relevant pedagogical approaches to support students to analyse the impacts of ideas, opportunities, actions, created values and ethical implications in the selected real-world environment. (10%), Evaluate individual and group strengths and weaknesses of students and staff regarding hybrid and digital teaching and learning about entrepreneurial competences. (10%), Evaluate the learning process and students' acquisition of learning outcomes related to entrepreneurial competences. (80%), Create interactive learning designs and sessions developing students' entrepreneurial competences, minding students' pre-competence, available resources and pedagogical techniques that enhance students' engagement and motivation. (10%)</p>												
<h3>Evaluation and quality assurance</h3>												
Pre-reading Reading materials on evaluation and QA in HE.	60 min	Stjecanje znanja	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne			
Quiz Short quiz based on the pre-reading.	60 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	Automatizirano	3	Sumativno	Automatizirano	
Self-evaluation Self-evaluation of a learning design, learning resources and the learning process, based on a rubric.	90 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	20	Formativno	Samovrednovanje	
Ukupno radno opterećenje cjeline	3.5h											

Naziv teme / cjeline	Radno opterećenje	Vrsta učenja	Način izvođenja	Grupe	Suradnja	Povratne informacije	Vrednovanje					
							Points	Types	Providers			
Delivery models of teaching and learning												
Use appropriate technology to support sound pedagogical approaches that contribute to the development of students' entrepreneurial and problem-solving skills. (20%) , Integrate the learning material available in the MOOC with other appropriate teaching and learning resources to foster entrepreneurial competences and ethical and sustainable thinking. (10%) , Identify relevant pedagogical approaches to support students to analyse the impacts of ideas, opportunities, actions, created values and ethical implications in the selected real-world environment. (0%) , Evaluate individual and group strengths and weaknesses of students and staff regarding hybrid and digital teaching and learning about entrepreneurial competences. (10%)												
Delivery models on teaching and learning												
Videos on different delivery modes Videos on different modes of delivery.	60 min	Istraživanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne			
Discussion on good practices Group discussion on good practices, based on delivery modes.	90 min	Rasprava	Online	Sinkroni	Nastavnik nije prisutan	da	da	Kolega	2	Sumativno	Kolega	
Ukupno radno opterećenje cjeline	2.5h											
Hybrid teaching and blended learning												
Videos on best practices (hybrid teaching and blended learning) Videos related to best practices hybrid and blended delivery.	60 min	Istraživanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	ne			
Discussion on hybrid teaching and blended learning Group discussion on hybrid teaching and blended learning, based on the video.	90 min	Rasprava	Online	Sinkroni	Nastavnik nije prisutan	da	da	Kolega	2	Sumativno	Kolega	

Ukupno radno opterećenje cjeline	2.5h
-------------------------------------	------

Naziv teme / cjeline	Radno opterećenje	Vrsta učenja	Način izvođenja			Grupe	Suradnja	Povratne informacije	Vrednovanje		
									Points	Types	Providers
Further personal development											
...											
Final self-assessment Entrepreneurial competences and teaching methods	30 min	Vrednovanje	Online	Asinkroni	Nastavnik nije prisutan	ne	ne	ne	0	Sumativno	Samovrednovanje
Recommendation for further independent work In this submodule, we can include some related open courses or videos, as well as interesting papers. Perhaps it could be divided as a directory, having different "sections" for each of the topics: hybrid learning, digital learning, face to face teaching, etc. (here we could also include a section referencing papers focused on the covid-19 consequences on the digitalization of universities...)	60 min	Istraživanje	Online	Sinkroni	Nastavnik nije prisutan	ne	ne	ne	ne		
Ukupno radno opterećenje cjeline	1.5h										

Ukupno opterećenje tečaja: 59h

