

## Teaching entrepreneurial competences

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.										
<b>Suunniteltu ECTS:</b> 2										
<b>Oppijoiden määrä:</b> 50										
<b>Toimitustapa:</b> Verkkokurssi										
<b>Status:</b> SUUNNITTELUSSA										
<b>Kurssin julkinen pääsy:</b> Yksityinen										
<b>Osallistujat:</b> 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										
<b>Kurssin oppimistavoite</b>							<b>Taso</b>	<b>Paino</b>		
Describe pedagogical approaches, teaching and assessment methods that enhance students' engagement to develop students' entrepreneurial competences in online learning environment.							Ymmärtäminen	10		
Identify what entrepreneurial competences students need in the contemporary world to seize and create opportunities and meet challenges to generate value.							Analysointi	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.							Analysointi	15		
Use appropriate technology to support sound pedagogical approaches that contribute to the development of students' entrepreneurial and problem-solving skills.							Soveltaminen	10		
Evaluate individual and group strengths and weaknesses of students and staff regarding hybrid and digital teaching and learning about entrepreneurial competences.							arviointi	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.							Luominen	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.							Soveltaminen	10		
Evaluate the learning process and students' acquisition of learning outcomes related to entrepreneurial competences.							arviointi	10		
<b>Kokonaispaino: 100</b>										
Aihe / Yksikön nimi	Työmäärä	Oppimistyyppi	Toimitustapa	Ryhmät	Yhteistyö	Palaute	Mandatory activity	Arviointi		
								Pisteet	Tyyppi	Tarjoajat

<b>Introduction</b>												
<b>Introduction</b>												
<b>Introductory video</b> 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	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
<b>Glossary</b> A compilation of the main terms that will be used during the MOOC and can cause doubts.	10 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
<b>Self assessment</b> 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	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	0	Muodollinen	Itse
<b>Kokonaisyksikön työmäärä</b>	1h											

<p><b>Competences, skills and values in general</b></p> <p>Describe pedagogical approaches, teaching and assessment methods that enhance students' engagement to develop students' entrepreneurial competences in online learning environment. <b>(70%)</b>, Identify what entrepreneurial competences students need in the contemporary world to seize and create opportunities and meet challenges to generate value. <b>(10%)</b></p>										
<p><b>Entrepreneurial competences</b></p>										
<p>Pre-reading + introductory video Reading and audiovisual materials regarding the basics of entrepreneurial education.</p>	60 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei

<b>Quiz</b> 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).	60 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Automaattinen	Ei	3	Muodollinen	Automaattinen
<b>Videos of best practice</b> Short videos (3 - 6 mins) with good examples. Can be existing or newly recorded videos.	60 min	Tutkimus	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Ei	Ei	Ei		
<b>Discussion based on reading, videos and own experiences</b> 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	Keskustelu	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	2	Muodollinen	Vertais
<b>Kokonaisyksikön työmäärä</b>	4.5h											
<b>Pedagogical approaches, teaching and assessment</b>												
<b>Videos</b> Videos on pedagogical approaches, learning outcomes, learning theories, constructive alignment etc.	115 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
<b>Quiz</b> Short formative assessment related to the pre-reading.	60 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Automaattinen	Ei	3	Muodollinen	Automaattinen

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	Tutkimus	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Ei	Ei	Ei		
Discussion based on the pre-reading, videos and own experience Participants will be divided in groups and provided with questions for discussion.	90 min	Keskustelu	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Vertais	Ei	2	Muodollinen	Vertais
<b>Kokonaisyksikön työmäärä</b>	5.41h											
<b>Final test</b>												
Final test - Copy	30 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	10	Yhteenvetona	Automaattinen
<b>Kokonaisyksikön työmäärä</b>	0.5h											
<b>Entrepreneurial competences- Copy</b>												
Pre-reading + introductory video Reading and audiovisual materials regarding the basics of entrepreneurial education.	60 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		





## Developing entrepreneurial competences

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%)**

Evaluating the pre-knowledge on entrepreneurial competences



<p><b>Real-world requirements for entrepreneurial competences</b></p> <p>Describe pedagogical approaches, teaching and assessment methods that enhance students' engagement to develop students' entrepreneurial competences in online learning environment. <b>(10%)</b>, Identify what entrepreneurial competences students need in the contemporary world to seize and create opportunities and meet challenges to generate value. <b>(90%)</b></p>										
<p><b>Real-world requirements</b></p>										
<p>Introductory presentation videos and readings Videos on the future of jobs. References: Frey &amp; Osborne 2013 and 2017, World Economic Forum, ENTRECOMP and sustainability etc.</p>	90 min	Tutkimus	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei

<b>Case-study analysis</b> 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.	60 min	Tuotanto	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
<b>Peer-review</b> 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]	90 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	10	Muodollinen	Vertais
<b>Kokonaisyksikön työmäärä</b>	4h											

**Relevant pedagogical approaches**

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%)**

**Relevant pedagogical approaches**

<b>Introductory materials</b> 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.	60 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei			
<b>Branching scenarios</b> Possibility of creating a character; selecting relevant pedagogical approaches related to the acquisition of spotting opportunities, sustainable and ethical thinking, creating values.	60 min	Harjoittelu	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Automaattinen	Ei	9	Muodollinen	Automaattinen	
<b>Discussion</b> Discussion about the scenarios.	60 min	Keskustelu	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	2	Muodollinen	Vertais	
<b>Kokonaisyksikön työmäärä</b>	3h												

**Evaluating the digital teaching and learning skills of students and staff**

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%)**

Digital skills for teaching and learning

<p><b>Introductory Videos</b> 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	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
<p><b>Self-assessment of digital skills (first part)</b> 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 (<a href="https://digital-skills-jobs.europa.eu/en/digital-skills-assessment">https://digital-skills-jobs.europa.eu/en/digital-skills-assessment</a>).</p>	30 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	0	Muodollinen	Automaattinen
<p><b>Content provision and practice</b> 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	Harjoittelu	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		

<b>Reflection on digital skills at own institutions</b> Essay on ways to improve faculty digital skills at your institution. Use your strengths/weaknesses as examples.	60 min	Tuotanto	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
<b>Peer-review</b> Peer-review of the essays with suggestions for improvement.	75 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	5	Muodollinen	Vertais
<b>Self-assessment of digital skills (second part)</b> A rubric for self-assessment. Comparing to the average according to different criteria. Progress analysis and feedback. Evaluating resulting knowledge of digital skills according to the DigComp framework, using the Digital Skills Assessment tool from the European Commission platform ( <a href="https://digital-skills-jobs.europa.eu/en/digital-skills-assessment">https://digital-skills-jobs.europa.eu/en/digital-skills-assessment</a> ).	60 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	0	Muodollinen	Automaattinen
<b>Kokonaisyksikön työmäärä</b>	5.5h											

**Learning design  
concept and tool**

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%)**

**Learning design  
concept and tool**

<b>Introductory video</b> Video on learning design concept and the tool (10 min in total). BDP Learning Design tool: <a href="https://learning-design.eu/en/">https://learning-design.eu/en/</a>	90 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei			
<b>Quiz</b> A short automated quiz related to the learning design concept.	10 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Automaattinen	Ei	2	Muodollinen	Automaattinen	
<b>Case-study analysis</b> Several case-studies provided and discussed in groups. Delivery mode is hybrid.	120 min	Tutkimus	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Vertais	Ei	Ei			
<b>Preparing learning design</b> 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.)	280 min	Tuotanto	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Opettaja	Ei	30	Yhteenvetona	Opettaja	
<b>Kokonaisyksikön työmäärä</b>	8.33h												

## Learning resources

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%)**

Learning resources

<p><b>Discussion</b> 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	Keskustelu	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	Ei			
<p><b>Video</b> Videos on how to find relevant and reliable resources about ethical and sustainable thinking.</p>	60 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei			
<p><b>Preparing resources on ethical and/or sustainable thinking</b> Based on the discussion and the video, participants prepare (collect and systematize) materials on the selected topic and for a selected group of students (taking into account the educational level and pre-knowledge of students).</p>	75 min	Tuotanto	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Opettaja	Ei	5	Muodollinen	Itse	
<p><b>Demonstration of selected resources</b> Participants demonstrate the prepared resources. For the MOOC - the prepare recordings or other formats (e.g. infographics). For the project - participants prepare presentations.</p>	90 min	Harjoittelu	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	5	Yhteenvetona	Vertais	
<p><b>Kokonaisyksikön työmäärä</b></p>	5.25h												
<p><b>Evaluation and quality assurance</b> Integrate the learning</p>													

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. <b>(10%)</b>													
<b>Evaluation and quality assurance</b>													
Pre-reading Reading materials on evaluation and QA in HE.	60 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei			
Quiz Short quiz based on the pre-reading.	60 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Automaattinen	Ei	3	Muodollinen	Automaattinen	
Self-evaluation Self-evaluation of a learning design, learning resources and the learning process, based on a rubric.	90 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	20	Yhteenvetona	Itse	
<b>Kokonaisyksikön työmäärä</b>	3.5h												
<b>Delivery models of teaching and learning</b> Use appropriate technology to support sound pedagogical approaches that contribute to the development of students' entrepreneurial and problem-solving skills. <b>(20%)</b> , Integrate the learning material available													



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	Tutkimus	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
Discussion on hybrid teaching and blended learning Group discussion on hybrid teaching and blended learning, based on the video.	90 min	Keskustelu	Verkkotyöskentely	Synkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Vertais	Ei	2	Muodollinen	Vertais
Kokonaisyksikön työmäärä	2.5h											
Further personal development												
...												
Final self-assessment Entrepreneurial competences and teaching methods	30 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	0	Muodollinen	Itse

<p><b>Recommendation for further independent work</b>  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...)</p>	60 min	Tutkimus	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
<b>Kokonaisyksikön työmäärä</b>	1.5h									
<b>Kokonaiskurssin työmäärä</b>	59h									