

## 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.

**Geplante ECTS:** 2, **Anzahl der Lernenden:** 50, **Art der Durchführung:** Online

**Status:** IN PLANUNG, **Der Kurs ist öffentlich zugänglich:** Privat

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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.	Verstehen	10
Identify what entrepreneurial competences students need in the contemporary world to seize and create opportunities and meet challenges to generate value.	Analysieren	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.	Analysieren	15
Use appropriate technology to support sound pedagogical approaches that contribute to the development of students' entrepreneurial and problem-solving skills.	Anwenden	10
Evaluate individual and group strengths and weaknesses of students and staff regarding hybrid and digital teaching and learning about entrepreneurial competences.	Evaluieren	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.	Erschaffen	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.	Anwenden	10
Evaluate the learning process and students' acquisition of learning outcomes related to entrepreneurial competences.	Evaluieren	10
		<b>Total Weight: 100</b>

Name Themen- /Lerneinheit	Zeitaufwand	Lernform	Art der Durchführung			Gruppen	Zusammenarbeit	Feedback	Bewertung		
									Points	Types	Providers
<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	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
<b>Glossary</b> A compilation of the main terms that will be used during the MOOC and can cause doubts.	10 min	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
<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	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	0	Summativ	Selbsteinschätzung

Gesamter Zeitaufwand der Lerneinheit	1h
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Name Themen-/Lerneinheit	Zeitaufwand	Lernform	Art der Durchführung	Gruppen	Zusammenarbeit	Feedback	Bewertung				
							Points	Types	Providers		
<h3>Competences, skills and values in general</h3> <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>											
<h4>Entrepreneurial competences</h4>											
<b>Pre-reading + introductory video</b> Reading and audiovisual materials regarding the basics of entrepreneurial education.	60 min	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
<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	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Automatisiert	3	Summativ	Automatisiert
<b>Videos of best practice</b> Short videos (3 - 6 mins) with good examples. Can be existing or newly recorded videos.	60 min	Erforschen	Online	Asynchron	Lehrperson nicht anwesend	Ja	Ja	Nein	Nein		

<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	Diskussion	Online	Synchron	Lehrperson nicht anwesend	Nein	Ja	Lernende	2	Summativ	Lernende
Gesamter Zeitaufwand der Lerneinheit	4.5h										
Pedagogical approaches, teaching and assessment											
<p>Videos</p> <p>Videos on pedagogical approaches, learning outcomes, learning theories, constructive alignment etc.</p>	115 min	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
<p>Quiz</p> <p>Short formative assessment related to the pre-reading.</p>	60 min	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Automatisiert	3	Summativ	Automatisiert
<p>Videos/materials on best practice</p> <p>Participants will be provided with materials on good practices in flipped classroom and work-based learning approaches (E+ project RAPIDE).</p>	60 min	Erforschen	Online	Asynchron	Lehrperson nicht anwesend	Ja	Ja	Nein	Nein		

Discussion based on the pre-reading, videos and own experience Participants will be divided in groups and provided with questions for discussion.	90 min	Diskussion	Online	Synchron	Lehrperson nicht anwesend	Ja	Ja	Lernende	2	Summativ	Lernende
<b>Gesamter Zeitaufwand der Lerneinheit</b>	5.41h										
<b>Final test</b>											
Final test - Copy	30 min	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	10	Formativ	Automatisiert
<b>Gesamter Zeitaufwand der Lerneinheit</b>	0.5h										
<b>Entrepreneurial competences- Copy</b>											
Pre-reading + introductory video Reading and audiovisual materials regarding the basics of entrepreneurial education.	60 min	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
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).	60 min	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Automatisiert	3	Summativ	Automatisiert
Videos of best practice Short videos (3 - 6 mins) with good examples. Can be existing or newly recorded videos.	60 min	Erforschen	Online	Asynchron	Lehrperson nicht anwesend	Ja	Ja	Nein	Nein		

<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	Diskussion	Online	Synchron	Lehrperson nicht anwesend	Nein	Ja	Lernende	2	Summativ	Lernende
Gesamter Zeitaufwand der Lerneinheit	4.5h										
Entrepreneurial competences- Copy- Copy											
<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	Diskussion	Online	Synchron	Lehrperson nicht anwesend	Nein	Ja	Lernende	2	Summativ	Lernende
<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	Erforschen	Online	Asynchron	Lehrperson nicht anwesend	Ja	Ja	Nein	Nein		

<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	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Automatisiert	3	Summativ	Automatisiert
<b>Pre-reading + introductory video</b> Reading and audiovisual materials regarding the basics of entrepreneurial education.	60 min	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
<b>Gesamter Zeitaufwand der Lerneinheit</b>	4.5h										



Name Themen-/Lerneinheit	Zeitaufwand	Lernform	Art der Durchführung	Gruppen	Zusammenarbeit	Feedback	Bewertung				
							Points	Types	Providers		
<h3>Developing entrepreneurial competences</h3> <p>Describe pedagogical approaches, teaching and assessment methods that enhance students' engagement to develop students' entrepreneurial competences in online learning environment. <b>(10%)</b>, Evaluate individual and group strengths and weaknesses of students and staff regarding hybrid and digital teaching and learning about entrepreneurial competences. <b>(40%)</b>, Evaluate the learning process and students' acquisition of learning outcomes related to entrepreneurial competences. <b>(10%)</b></p>											
<h3>Evaluating the pre-knowledge on entrepreneurial competences</h3>											
<b>Introductory videos</b> Videos about the entrepreneurial competences framework - ENTRECOMP Europe.	30 min	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
<b>Introduction to EntreComp Edu</b> Get to know how to apply the EntreComp framework to education.	30 min	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
<b>Discussion</b> Discussion on the entrepreneurial competences framework. E.g. Participants in groups discussing various aspects or dimensions of the entrepreneurial competence framework.	60 min	Diskussion	Online	Synchron	Lehrperson nicht anwesend	Nein	Ja	Nein	Nein		
<b>Final test</b>	30 min	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	10	Formativ	Automatisiert
<b>Gesamter Zeitaufwand der Lerneinheit</b>	2.5h										



Name Themen-/Lerneinheit	Zeitaufwand	Lernform	Art der Durchführung	Gruppen	Zusammenarbeit	Feedback	Bewertung				
							Points	Types	Providers		
<h3>Relevant pedagogical approaches</h3> <p>Describe pedagogical approaches, teaching and assessment methods that enhance students' engagement to develop students' entrepreneurial competences in online learning environment. <b>(10%)</b>, Use appropriate technology to support sound pedagogical approaches that contribute to the development of students' entrepreneurial and problem-solving skills. <b>(10%)</b>, 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. <b>(80%)</b></p>											
<h3>Relevant pedagogical approaches</h3>											
<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	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
<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	Übung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Automatisiert	9	Summativ	Automatisiert
<b>Discussion</b> Discussion about the scenarios.	60 min	Diskussion	Online	Synchron	Lehrperson nicht anwesend	Nein	Ja	Lernende	2	Summativ	Lernende
<b>Gesamter Zeitaufwand der Lerneinheit</b>	3h										

Name Themen-/Lerneinheit	Zeitaufwand	Lernform	Art der Durchführung		Gruppen	Zusammenarbeit	Feedback	Bewertung			
								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. <b>(50%)</b>,            Evaluate individual and group strengths and weaknesses of students and staff regarding hybrid and digital teaching and learning about entrepreneurial competences. <b>(40%)</b>,            Evaluate the learning process and students' acquisition of learning outcomes related to entrepreneurial competences. <b>(10%)</b></p>											
<h4>Digital skills for teaching and learning</h4>											
<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).	30 min	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
<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> ).	30 min	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	0	Summativ	Automatisiert

<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.	75 min	Übung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein			
<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	Produktion	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein			
<b>Peer-review</b> Peer-review of the essays with suggestions for improvement.	75 min	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Ja	Lernende	5	Summativ	Lernende	
<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	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	0	Summativ	Automatisiert	
<b>Gesamter Zeitaufwand der Lerneinheit</b>	5.5h											

Name Themen-/Lerneinheit	Zeitaufwand	Lernform	Art der Durchführung		Gruppen	Zusammenarbeit	Feedback	Bewertung			
								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. <b>(10%)</b>, 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. <b>(10%)</b>, 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>(80%)</b></p>											
<h3>Learning design concept and tool</h3>											
<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	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
<b>Quiz</b> A short automated quiz related to the learning design concept.	10 min	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Automatisiert	2	Summativ	Automatisiert
<b>Case-study analysis</b> Several case-studies provided and discussed in groups. Delivery mode is hybrid.	120 min	Erforschen	Online	Synchron	Lehrperson nicht anwesend	Ja	Ja	Lernende	Nein		
<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	Produktion	Online	Synchron	Lehrperson nicht anwesend	Ja	Ja	Lehrperson	30	Formativ	Lehrperson

Gesamter Zeitaufwand der Lerneinheit	8.33h
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Name Themen- /Lerneinheit	Zeitaufwand	Lernform	Art der Durchführung	Gruppen	Zusammenarbeit	Feedback	Bewertung		
							Points	Types	Providers

## 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

<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.	90 min	Diskussion	Online	Asynchron	Lehrperson nicht anwesend	Nein	Ja	Lernende	Nein
<b>Video</b> Videos on how to find relevant and reliable resources about ethical and sustainable thinking.	60 min	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein





Name Themen- /Lerneinheit	Zeitaufwand	Lernform	Art der Durchführung	Gruppen	Zusammenarbeit	Feedback	Bewertung		
							Points	Types	Providers

## Evaluation and quality assurance

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%)**

## Evaluation and quality assurance

Pre-reading Reading materials on evaluation and QA in HE.	60 min	Wissenserwerb	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
Quiz Short quiz based on the pre-reading.	60 min	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Automatisiert	3	Summativ	Automatisiert
Self-evaluation Self-evaluation of a learning design, learning resources and the learning process, based on a rubric.	90 min	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	20	Formativ	Selbsteinschätzung
Gesamter Zeitaufwand der Lerneinheit	3.5h										



Name Themen-/Lerneinheit	Zeitaufwand	Lernform	Art der Durchführung	Gruppen	Zusammenarbeit	Feedback	Bewertung				
							Points	Types	Providers		
Further personal development											
...											
Final self-assessment Entrepreneurial competences and teaching methods	30 min	Bewertung	Online	Asynchron	Lehrperson nicht anwesend	Nein	Nein	Nein	0	Summativ	Selbsteinschätzung
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	Erforschen	Online	Synchron	Lehrperson nicht anwesend	Nein	Nein	Nein	Nein		
Gesamter Zeitaufwand der Lerneinheit	1.5h										

**Gesamter Zeitaufwand des Kurses: 59h**