Teaching entrepreneurial competences

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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.

Suunniteltu ECTS: 2

Oppijoiden määrä: 50

Toimitustapa: Verkkokurssi

Status: SUUNNITTELUSSA

Kurssin julkinen pääsy: Yksityinen

Osallistujat:
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Kurssin oppimistavoite	Taso	Paino
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

Kokonaispaino: 100

Aihe / Yksikön nimi	Työmäärä	Oppimistyypi	Toimitustapa	Ryhmät	Yhteistyö	Palaute	Pakollinen toiminto	Arviointi		
								Pisteet	Tyyppi	Tarjoajat
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	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
Glossary 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		
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	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	0	Muodollinen	Itse
Kokonaisyksikön työmäärä	1h											
Competences, skills and values in general 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%)**												
Entrepreneurial competences												
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		

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	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Automaattinen	Ei	3	Muodollinen	Automaattinen
Videos of best practice 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		
Disscussion 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 ans characteristics shared by all/most examples.	90 min	Keskustelu	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	2	Muodollinen	Vertais
Kokonaisyksikön työmäärä	4.5h											
Pedagogical approaches, teaching and assessment												
Videos Videos on pedagogical approaches, learning outcomes, learning theories, constructive alignment etc.	115 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
Quiz 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
Kokonaisyksikön työmäärä	5.41h											
Final test												
Final test - Copy	30 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	10	Yhteenvetona	Automaattinen

Kokonaisyksikön työmäärä	0.5h											
Entrepreneurial competences-Copy												
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		
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	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Automaattinen	Ei	3	Muodollinen	Automaattinen
Videos of best practice 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		
Disscussion 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 ans characteristics shared by all/most examples.	90 min	Keskustelu	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	2	Muodollinen	Vertais
Kokonaisyksikön työmäärä	4.5h											
Entrepreneurial competences-Copy- Copy												
Disscussion 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 ans characteristics shared by all/most examples.	90 min	Keskustelu	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	2	Muodollinen	Vertais
Videos of best practice 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		

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	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Automaattinen	Ei	3	Muodollinen	Automaattinen
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		
Kokonaisyksikön työmäärä	4.5h											
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												
Introductory videos Videos about the entrepreneurial competences framework - ENTRECOMP Europe.	30 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
Introduction to EntreComp Edu Get to know how to apply the EntreComp framework to education.	30 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		

Discussion Discussion on the entrepreneurial competences framework. E.g. Participants in groups discussing various aspects or dimensions of the entrepreneurial competence framework.	60 min	Keskustelu	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Ei	Kyllä	Ei	Ei	Ei		
Final test	30 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	10	Yhteenvetona	Automaattinen
Kokonaisyksikön työmäärä	2.5h											
Real-world requirements for entrepreneurial competences 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%)**												
Real-world requirements												
Introductory presentation videos and readings Videos on the future of jobs. References: Frey & Osborne 2013 and 2017, World Economic Forum, ENTRECOMP and sustainability etc.	90 min	Tutkimus	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
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.	60 min	Tuotanto	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		

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]	90 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	10	Muodollinen	Vertais
Kokonaisyksikön työmäärä	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 peadgogical approaches												
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.	60 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		

Branching scenarios 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
Discussion Discussion about the scenarios.	60 min	Keskustelu	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	2	Muodollinen	Vertais
Kokonaisyksikön työmäärä	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												
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).	30 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		

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).	30 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	0	Muodollinen	Automaattinen
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.	75 min	Harjoittelu	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
Reflection on digital skills at own institutions 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		
Peer-review Peer-review of the essays with suggestions for improvement.	75 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	5	Muodollinen	Vertais
Self-assessment of digital skills (second part) 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 (https://digital-skills-jobs.europa.eu/en/digital-skills-assessment).	60 min	Arviointi	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	0	Muodollinen	Automaattinen
Kokonaisyksikön työmäärä	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												
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	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
Quiz 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
Case-study analysis 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		

Preparing learning design 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
Kokonaisyksikön työmäärä	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												
Discussion 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	Keskustelu	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	Ei		
Video Videos on how to find relevant and reliable resources about ethical and sustainable thinking.	60 min	Hankinta	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		

Preparing resources on ethical and/ or sustainable thinking 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).	75 min	Tuotanto	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Opettaja	Ei	5	Muodollinen	Itse
Demonstration of selected resources Participants demonstrate the prepared resources. For the MOOC - the prepare recordings or other formats (e.g. infographics). For the project - participants prepare presentations.	90 min	Harjoittelu	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Kyllä	Vertais	Ei	5	Yhteenvetona	Vertais
Kokonaisyksikön työmäärä	5.25h											

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	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
Kokonaisyksikön työmäärä	3.5h											
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	Tutkimus	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
Discussion on good practices Group discussion on good practices, based on delivery modes.	90 min	Keskustelu	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Vertais	Ei	2	Muodollinen	Vertais
Kokonaisyksikön työmäärä	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	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	Synnkroninen	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
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	Tutkimus	Verkkotyöskentely	Synnkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
Kokonaisyksikön työmäärä	1.5h											
Kokonaiskurssin työmäärä	**59h**											