



WP5			
D 5.7		Name: ENHANCE Certificate in Sustainable Entrepreneurship and Innovation	
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## Description

### Task objective:

Enhance knowledge and experience of students related to SEI.

### Methodology and activities:

To foster SEI education for ENHANCE students, the Alliance has mapped existing courses related to entrepreneurship and sustainability at partner institutions. We have defined the curriculum of the ENHANCE Certificate in sustainable entrepreneurship and innovation, a joint blended learning course on European aspects of SEI based on the template for ENHANCE Certificates developed in WP One Campus. The curriculum includes existing courses offered at partner universities and will also include the newly developed joint summer school in sustainable entrepreneurship that is in the making. The summer course will be developed and implemented in the summer of 2022 and again in the summer of 2023.

### Implementation:

We started by mapping relevant courses at each partner University, during spring 2021. The mapping included some description of content design, level etc. This initial information was then used to gather complementary information about previously described as well as newly identified SEI courses in line with the various criteria and categorization established (for example: content, credits, length, audience, curricular or non-curricular, etc.). All partner universities contributed to the collection of courses.

In defining the ENHANCE Certificate each partner university was asked to choose which of the mapped courses that best corresponded to the defined criteria. The results are a starting point to which we will also add the summer course when it is fully developed.

The certificate and related courses are found in Appendix. 1.

## ENHANCE Certificate in sustainable entrepreneurship

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### Executive summary

This report presents the general concept and a description of the ENHANCE certificate in sustainable entrepreneurship. The certificate will provide students with key entrepreneurial skills with specific attention to sustainable business practices. The certificate takes a broad approach to add a challenge-based educational direction that can contribute to startup activity with the support of industry partners. The certificate also prioritizes courses that engage societal stakeholders, such as large organizations, startups, municipalities etc. in partnership with students addressing contemporary problems. A Europe-wide incubator network, a mentoring network for entrepreneurs, a team building network for start-ups and a network of impact investors will enable members of our universities to put sustainable entrepreneurship into practice.

The certificate can be obtained in several ways. Flexible requirements based on learning outcomes and ECTS would make it possible to customize the learning/education pathway leading to the certificate. The ENHANCE certificate in sustainable entrepreneurship is one of the micro-credentials offered by the Alliance and its specification complies with the earlier defined ENHANCE micro-credentials template presented in the *“Template for micro-credentials, ENHANCE Certificate and Labels”* report (deliverable D2.5).

A learner is expected to complete a number of learning modules (courses or other learning activities) offered by the ENHANCE universities in order to receive ENHANCE certificate in sustainable entrepreneurship. These modules/courses must jointly cover the learning outcomes defined for the certificate. The mapping between the learning outcomes for the certificate and learning outcomes defined for a particular learning module will be carried out by the university that offers this particular module. This university will also have to verify that the module learning outcomes have been achieved by a learner.

## 1. Introduction

This report lays out details of the ENHANCE certificate in sustainable entrepreneurship awarded upon completing a set of courses or other learning activities. This initiative will provide our students with key entrepreneurial skills by providing them with various opportunities to enhance their knowledge and skills in relation to concerns around sustainability and sustainable business practices.

The certificate will be awarded to the students who have completed 30 credits from a list of courses offered at the partner universities and will be recognized by all partner universities. The courses are identified and nominated by each partner based on a set of criteria:

- No pre-requisite (no dependency on other courses)
- No need to adapt to ENHANCE (delivered as is)
- No green washing (sustainability as a pillar of the course - to the extent possible)
- 6 or 7.5 credits
- Possibility of virtual teaching and attendance
- Held in English
- Open to foreign students
- Case or project based (optional)

## 2. Target groups and beneficiaries of ENHANCE certificate in sustainable entrepreneurship

ENHANCE certificate in sustainable entrepreneurship is intended for all students at the ENHANCE partner universities, at the level of Bachelor's, Master's, and doctoral studies. ENHANCE certificate in sustainable entrepreneurship, apart from being the proof of acquired knowledge and skills, can also function as demonstration of one's engagement with the topic. The target participant will be an enrolled student wishing to:

- enhance entrepreneurial competencies in relation to sustainability,
- acquire new entrepreneurial competencies in relation to sustainability and beyond,
- increase their familiarity with sustainability frameworks and methods,
- inculcating a sustainability mindset

### 3. Constitutive elements of ENHANCE certificate in sustainable entrepreneurship

The ENHANCE certificate in sustainable entrepreneurship is one of the certificates offered by the consortium, and its specification is consistent with the template presented in the report *“Template for micro-credentials, ENHANCE Certificate and Labels”*. In what follows, we focus on those elements of the certificate description that are specific to this particular certificate:

1. **Identification of the learner:** Jane DOE
2. **Title of the certificate:** ENHANCE certificate in sustainable entrepreneurship
3. **Country/region of the issuer:** see item 4
4. **Awarding body:** If the certificate comprises learning activities carried out by different universities, the certificate will be awarded by the university which offers most learning activities associated with this certificate.
5. **Date of issuing:** YYYY-MM-DD
6. **Notional workload needed to achieve the learning outcomes:** 30 ECTS (1 ECTS is 25-30 hours of total workload of the learner).
7. **Level:** EQF level 6 and 7
8. **Learning outcomes:** The learners should be able to:
  - Understand how businesses maximize shareholder value over the long run with leaders who are innovative, and who manage interactions across the economic, social, environmental, and political
  - Understand the role of innovation and entrepreneurship in creating better products, services, or processes.
  - Apply sustainability practices
  - Analyze specific topics including consumer behavior, market research, product design, value chains and communications using the sustainability lens in business
  - Design solutions and develop enterprise plans for sustainable business initiatives
  - Apply the bottom-up approach for sustainable business initiatives in varied contexts
  - Examine the social, environmental, and economic impact of a business
  - Discuss the role of entrepreneurship and innovation in sustainable business
  - Identify the market barriers to sustainable products

- Demonstrate understanding of the intersection of entrepreneurship, innovation, and sustainability and how business (re)acts to climate change in their respective economic and political environment.
- Gain awareness of greenwashing and understand how to differentiate between viable and non-viable action.
- Develop skill to assess and analyze global sustainability challenges and trade-offs in economic, social, and environmental domains that affect businesses.
- Develop ability to determine prioritized action towards tackling issues in the next stages of innovation/entrepreneurial development in relation to sustainability concerns
- Demonstrate understanding of key challenges and opportunities in regard to stakeholder engagement, strategy development, developing the business case for sustainability and ethical trading across different industries.

**9. Form of participation in the learning activity:** Participating in classes and courses that build up to form the certificate. The form and content of the different pieces are dependent on the nature of the courses or learning modules. They can be in-person classes, hybrid courses, MOOCs, or summer schools.

**10. The prerequisites needed to enroll in the learning activity:** One of the criteria for the inclusion of courses as part of the certificate is their independence from other courses, i.e., no prerequisites

**11. Type of assessment:** Depending on the course that students select, various methods of assessment will be used for different learning modules.

## Certificado ENHANCE en Emprendimiento Sostenible

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### Resumen ejecutivo

Este informe presenta el concepto general y una descripción del certificado ENHANCE en Emprendimiento Sostenible. El certificado proporcionará a los estudiantes habilidades empresariales clave con atención específica a las prácticas empresariales sostenibles. El certificado adopta un enfoque amplio para añadir una dirección educativa basada en el desafío que puede contribuir a la actividad de las empresas emergentes con el apoyo de los socios de la industria. El certificado también da prioridad a los cursos que implican a las partes interesadas de la sociedad, como grandes organizaciones, startups, municipios, etc., en colaboración con los estudiantes que abordan problemas contemporáneos. Una red de incubadoras a escala europea, una red de mentores para emprendedores, una red de creación de equipos para startups y una red de inversores de impacto permitirán a los miembros de nuestras universidades poner en práctica el emprendimiento sostenible.

El certificado puede obtenerse de varias maneras. Unos requisitos flexibles basados en los resultados del aprendizaje y en el ECTS permitirían personalizar el itinerario de aprendizaje/educación que conduce al certificado. El certificado ENHANCE en emprendimiento sostenible es una de las microcredenciales ofrecidas por la Alianza y su especificación cumple con la plantilla de microcredenciales ENHANCE anteriormente definida y presentada en el informe "Plantilla para microcredenciales, certificado ENHANCE y etiquetas" (entregable D2.5).

Se espera que un alumno complete una serie de módulos de aprendizaje (cursos u otras actividades de aprendizaje) ofrecidos por las universidades ENHANCE para recibir el certificado ENHANCE en emprendimiento sostenible. Estos módulos/cursos deben cubrir conjuntamente los resultados de aprendizaje definidos para el certificado. El mapeo entre los resultados de aprendizaje para el certificado y los resultados de aprendizaje definidos para un módulo de aprendizaje particular será llevado a cabo por la universidad que ofrece este módulo particular. Esta universidad también tendrá que verificar que los resultados de aprendizaje del módulo han sido alcanzados por el alumno.

# ENHANCE-Zertifikat für nachhaltiges Entrepreneurship

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## Zusammenfassung

Dieser Bericht stellt das allgemeine Konzept und eine Beschreibung des ENHANCE-Zertifikats für nachhaltiges Entrepreneurship vor. Das Zertifikat vermittelt den Studierenden Schlüsselkompetenzen Gründertum mit besonderem Augenmerk auf nachhaltige Geschäftspraktiken. Das Zertifikat verfolgt einen breit angelegten Ansatz, um eine auf Herausforderungen basierende Ausbildungsrichtung hinzuzufügen, die mit Unterstützung von Industriepartnern zu Start-up-Aktivitäten beitragen kann. Ein weiterer Schwerpunkt des Zertifikats sind Kurse, die gesellschaftliche Akteure wie große Organisationen, Start-ups, Gemeinden usw. in die Zusammenarbeit mit den Studierenden einbeziehen und sich mit aktuellen Problemen befassen. Ein europaweites Netzwerk von Gründerzentren, ein Mentor\*innennetzwerk für Gründer\*innen, ein Teambildungsnetzwerk für Start-ups und ein Netzwerk von Impact-Investoren werden es den Mitgliedern unserer Universitäten ermöglichen, nachhaltiges Gründertum in die Praxis umzusetzen.

Das Zertifikat kann auf verschiedene Weise erworben werden. Flexible Anforderungen auf der Grundlage von Lernergebnissen und ECTS werden es ermöglichen, den Lern-/Bildungsweg, der zum Zertifikat führt, individuell zu gestalten. Das ENHANCE-Zertifikat für nachhaltiges Entrepreneurship ist eines der von der Allianz angebotenen Micro-Credentials und seine Spezifikation entspricht der zuvor definierten Vorlage für ENHANCE-Micro-Credentials, die im Bericht "*Template for micro-credentials, ENHANCE Certificate and Labels*" (Deliverable D2.5) vorgestellt wurde.

Von einer\*m Lernenden wird erwartet, dass eine Reihe von Lernmodulen (Kurse oder andere Lernaktivitäten) absolviert werden, die von den ENHANCE-Hochschulen angeboten werden, um das ENHANCE-Zertifikat für nachhaltiges Entrepreneurship zu erhalten. Diese Module/Kurse müssen gemeinsam die für das Zertifikat definierten Lernergebnisse abdecken. Die Zuordnung zwischen den Lernergebnissen für das Zertifikat und den für ein bestimmtes Lernmodul definierten Lernergebnissen wird von der Hochschule vorgenommen, die dieses spezielle Modul anbietet. Diese Hochschule muss auch überprüfen, ob die Lernergebnisse des Moduls von einem Lernenden erreicht wurden.



## Certificazione ENHANCE per l'imprenditoria sostenibile

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### Executive summary

Il presente rapporto presenta e descrive la certificazione ENHANCE per l'imprenditoria sostenibile. La certificazione mira a dare agli studenti competenze imprenditoriali chiave, con un'attenzione particolare alle pratiche commerciali sostenibili. La certificazione adotta un approccio ad ampio spettro in modo da integrare un apprendimento basato sulle sfide che contribuisca all'avviamento di attività con il supporto di partner industriali. Per la certificazione, inoltre, sono prioritari i corsi che coinvolgono gli stakeholder sociali come grandi organizzazioni, startup, Comuni, ecc., che affrontano i problemi dell'età contemporanea in collaborazione con gli studenti. Si tratta di una rete di incubatori di livello europeo, una rete di mentoring per gli imprenditori, una rete di team building per le start-up e una rete di investitori d'impatto che permetterà agli studenti delle nostre università di implementare un'imprenditorialità sostenibile.

La certificazione può ottenersi in diversi modi. La flessibilità dei requisiti, basati sui risultati dell'apprendimento e sui CFU, consente di personalizzare il percorso di apprendimento/istruzione per la certificazione. La certificazione ENHANCE per l'imprenditorialità sostenibile è una delle micro-credenziali offerte dall'Alleanza; le sue specifiche sono conformi al modello di micro-credenziali ENHANCE, definite in precedenza e presentate nel rapporto *"Template for micro-credentials, ENHANCE Certificate and Labels"* (deliverable D2.5).

Per ottenere la certificazione ENHANCE per l'imprenditorialità sostenibile, è necessario completare una serie di moduli formativi (corsi o altre attività di apprendimento) offerti dalle università ENHANCE. Questi moduli/corsi devono, nel loro insieme, portare ai risultati di apprendimento necessari per la certificazione. La mappatura tra i risultati di apprendimento per la certificazione e quelli di ciascun modulo di apprendimento sarà eseguita dall'università che offre lo specifico modulo didattico. La stessa università provvederà anche a verificare l'avvenuto conseguimento dei risultati di apprendimento da parte degli studenti.

## ENHANCE Sertifkat i bærekraftig entreprenørskap

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### Kortfattet sammendrag

Denne rapporten presenterer det generelle konseptet og en beskrivelse av ENHANCE-sertifkatet i bærekraftig entreprenørskap. Sertifkatet vil gi studentene nøkkelferdigheter innen entreprenørskap rettet spesifikt mot bærekraftig forretningspraksis. Sertifkatet har en bred tilnærming for å legge til en utfordringsbasert utdanningsretning som kan bidra til innovasjonsaktivitet med støtte fra industripartnere. Sertifkatet prioriterer også kurs som engasjerer samfunnsaktører, som store organisasjoner, startups, kommuner etc. i samarbeid med studenter som jobber med samtidens problemer. Et inkubatornettverk som spenner over hele Europa, et mentornettverk for gründere, et teambuildingsnettverk for oppstartsbedrifter og et nettverk av effektinvestorer vil gjøre det mulig for medlemmer av våre universiteter å sette bærekraftig entreprenørskap ut i livet.

Sertifkatet kan oppnås på flere måter. Fleksible krav basert på læringsutbytte og ECTS vil gjøre det mulig å tilpasse utdanningsveien som fører til sertifkatet. ENHANCE-sertifkatet i bærekraftig entreprenørskap er en av flere microcredentials som tilbys av Alliansen, og spesifikasjonen samsvarer med den tidligere definerte malen for ENHANCE microcredentials presentert i rapporten "Mal for microcredentials, ENHANCE sertifkat og etiketter" (leveranse D2. 5).

Det forventes at en student/elev skal fullføre en rekke læringsmoduler (kurs eller andre læringsaktiviteter) som tilbys av ENHANCE-universitetene for å motta ENHANCE-sertifkat i bærekraftig entreprenørskap. Disse modulene/kursene skal til sammen dekke det læringsutbyttet som er definert for sertifkatet. Kartleggingen av forholdet mellom læringsutbytte for dette sertifkatet og det læringsutbytte som er definert for en bestemt læringsmodul vil bli utført av universitetet som tilbyr modulen. Dette universitetet må også verifisere at studenten/ eleven har oppnådd modulens læringsutbytte.

# Certyfikat ENHANCE w zakresie zrównoważonej przedsiębiorczości

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## Streszczenie

Raport zawiera ogólną koncepcję i opis certyfikatu ENHANCE w zakresie zrównoważonej przedsiębiorczości. Certyfikat będzie poświadczal opanowanie przez studentów kluczowych umiejętności przedsiębiorczych ze szczególnym uwzględnieniem zrównoważonych praktyk biznesowych. Certyfikat zakłada szersze podejście i kształcenie zorientowane na wyzwania, które może wspierać działania start-upów wspieranych przez partnerów biznesowych. Priorytetowo zostały potraktowane kursy angażujące interesariuszy społecznych takich jak duże organizacje, start-upy, władze miast itp., którzy współpracują ze studentami i zajmują się rozwiązywaniem współczesnych problemów. Europejska sieć inkubatorów, sieć mentoringowa dla przedsiębiorców, sieć umożliwiająca tworzenie zespołów dla start-upów i sieć wpływowych inwestorów umożliwi przedstawicielom społeczności naszych uczelni praktyczną realizację zrównoważonej przedsiębiorczości.

Certyfikat można zdobyć w różny sposób. Elastyczne wymagania, oparte na efektach kształcenia i punktach ECTS umożliwiają indywidualizację ścieżek kształcenia prowadzących do uzyskania certyfikatu. Certyfikat ENHANCE w zakresie zrównoważonej przedsiębiorczości jest jedną z mikrokwalifikacji oferowanych przez konsorcjum a jego struktura jest zgodna z wcześniej zdefiniowanym modelem mikrokwalifikacji ENHANCE, przedstawionym w raporcie „Model mikrokwalifikacji ENHANCE - certyfikaty i *labels*” (rezultat 2.5).

Przewiduje się, że uczący się zrealizują określoną liczbę modułów (kursy lub inne zajęcia dydaktyczne) oferowane przez uczelnie ENHANCE, aby otrzymać certyfikat ENHANCE w zakresie zrównoważonej przedsiębiorczości. Te moduły / kursy muszą łącznie obejmować efekty uczenia się zdefiniowane dla certyfikatu. Mapowanie między efektami kształcenia dla certyfikatu i efektami kształcenia zdefiniowanymi dla konkretnego modułu kształcenia jest dokonywane przez uczelnię, która oferuje dany moduł. Ta uczelnia będzie również musiała zweryfikować, że efekty kształcenia dla modułu zostały osiągnięte przez uczącego się.

## ENHANCE Certifikat i hållbart entreprenörskap

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### Sammanfattning

I den här rapporten presenteras den allmänna innebörden i och en beskrivning av ENHANCE certifikat i hållbart entreprenörskap. Certifikatet intygar studenternas grundläggande entreprenöriella förmågor med särskild tonvikt vid hållbart företagande i praktiken. Certifikatet har en bred ansats och inkluderar en utmaningsbaserad utbildningsinriktning som kan bidra till nyföretagande med stöd av industripartners. Certifikatet prioriterar också kurser som involverar samhällsaktörer som intressenter, t ex stora organisationer, nyetablerade företag, kommuner mm. i partnerskap med studenter som tar sig an aktuella problem. Ett nätverk av inkubatorer runt om i Europa, ett mentorskapsnätverk för entreprenörer, ett nätverk för att sätta samman kompetens för nystartade företag och ett nätverk av investerare i kritiska faser gör det möjligt för medlemmar i våra universitet att omsätta hållbart entreprenörskap i praktiken.

Certifikatet kan uppnås på flera sätt. Flexibla krav baserade på lärandemål och ECTS gör det möjligt att skräddarsy lär-/utbildningsgångar som leder till certifikatet. ENHANCE certifikat i hållbart entreprenörskap är en av de mikromeriter som alliansen erbjuder och dess specifikation är i överensstämmelse med den antagna mallen för ENHANCE mikromeriter som presenteras i rapporten "*Mall för mikromeriter, ENHANCE certifikat och märken*" (leverabel D2.5)

För att få ett certifikat i hållbart entreprenörskap förväntas en studerande slutföra ett antal lärandemoduler (kurser eller andra utbildningsmoment) som ENHANCE-universiteten erbjuder. Dessa moduler/kurser måste tillsammans täcka det lärandemål som definieras för certifikatet. Överensstämmelse mellan lärandemål för certifikatet och lärandemålen definierade för en specifik lärandemodul beskrivs och bekräftas av det universitet som genomför den aktuella modulen. Samma universitet ska också intyga att den studerande uppnått modulens lärandemål.

## Appendix 1 Eligible courses

Institution	Course	# of credits	Period of delivery	contact person	Website/course syllabus
TUB	Fundamentals of Project Management	6	Summer & winter term	Prof. Salomo	<a href="https://moseskonto.tu-berlin.de/moses/modultransfersystem/bolognamodule/beschreibung/anzeigen.html?number=70210&amp;version=9&amp;sprache=2">https://moseskonto.tu-berlin.de/moses/modultransfersystem/bolognamodule/beschreibung/anzeigen.html?number=70210&amp;version=9&amp;sprache=2</a>
TUB	Entrepreneurship Research	6	Summer & winter term	Prof. Kratzer	<a href="https://www.tu-berlin/en/university-administration/centre-for-entrepreneurship/research-and-teaching/teaching/module-overview/">https://www.tu-berlin/en/university-administration/centre-for-entrepreneurship/research-and-teaching/teaching/module-overview/</a>
TUB	Sustainable Innovation	6	Winter term	Prof. Blind	<a href="https://www.inno.tu-berlin.de/menue/teaching/">https://www.inno.tu-berlin.de/menue/teaching/</a>
TUB	EcoDesign	6	Summer term	Prof. Finkbeiner	<a href="https://moseskonto.tu-berlin.de/moses/modultransfersystem/bolognamodule/beschreibung/anzeigen.html;jsessionid=2206b5bf6dace27a2157cb2ead0c?number=30457&amp;version=1&amp;sprache=2">https://moseskonto.tu-berlin.de/moses/modultransfersystem/bolognamodule/beschreibung/anzeigen.html;jsessionid=2206b5bf6dace27a2157cb2ead0c?number=30457&amp;version=1&amp;sprache=2</a>
Chalmers	Social innovation and social entrepreneurship	7,5	Summer term	Martin Hultman	<a href="https://www.student.chalmers.se/sp/course?course_id=32361&amp;lang=en">https://www.student.chalmers.se/sp/course?course_id=32361&amp;lang=en</a>
Chalmers	Tailored materials and commercialisation aspects	7,5	Winter term	Uta Klement	<a href="https://www.student.chalmers.se/sp/course?course_id=31705&amp;lang=en">https://www.student.chalmers.se/sp/course?course_id=31705&amp;lang=en</a>
Chalmers	Technical change and the environment	7,5	Winter term	Björn Sandén	<a href="https://www.student.chalmers.se/sp/course?course_id=31771&amp;lang=en">https://www.student.chalmers.se/sp/course?course_id=31771&amp;lang=en</a>
Chalmers	Leadership for sustainability transitions	7,5	Winter term	John Holmberg	<a href="https://www.student.chalmers.se/sp/course?course_id=32178&amp;lang=en">https://www.student.chalmers.se/sp/course?course_id=32178&amp;lang=en</a>
Chalmers	Design for sustainable behaviour	7,5	Summer term	Jonas Tuveson	<a href="https://www.student.chalmers.se/sp/course?course_id=32509&amp;lang=en">https://www.student.chalmers.se/sp/course?course_id=32509&amp;lang=en</a>
Chalmers	Sustainability in Everyday Life	NA	MOOC	Anna Nyström Claesson & Matty Janssen	<a href="https://www.edx.org/course/sustainability-in-everyday-life">https://www.edx.org/course/sustainability-in-everyday-life</a>
NTNU	TI04858 - Ekspert i team - Become a Change Agent!	7,5	Spring	Roger Sørheim	<a href="https://www.ntnu.no/studier/emner/TI%C3%984858/2021/1#ab=omEmnet">https://www.ntnu.no/studier/emner/TI%C3%984858/2021/1#ab=omEmnet</a>
NTNU	TI04306 - Strategies for Industrial Sustainability	7,5	Autumn	Ottar Michelsen	<a href="https://www.ntnu.edu/studies/courses/TI%C3%984306/2021/1#ab=omEmnet">https://www.ntnu.edu/studies/courses/TI%C3%984306/2021/1#ab=omEmnet</a>
NTNU	I02000 - How to Become a Change Agent? Innovation and Entrepreneurship in Practical Use	7,5	Spring/Autumn	Roger Sørheim	<a href="https://www.ntnu.edu/studies/courses/I%C3%982000/2021/1#ab=omEmnet">https://www.ntnu.edu/studies/courses/I%C3%982000/2021/1#ab=omEmnet</a>
RWTH	Entrepreneurship 101 - Thinking like an entrepreneur and becoming one	1-10	Summer & winter term	Jana Weinand, Margareta Merke	<a href="https://www.rwth-innovation.de/en/for-start-ups-investors/offerings-founders/entrepreneurship-101-en">https://www.rwth-innovation.de/en/for-start-ups-investors/offerings-founders/entrepreneurship-101-en</a> <a href="https://online.rwth-aachen.de/RWTHonline/pluui/\$cb:lang=DE/wbLy.wbShowLVDetail?pStpSpNr=445678&amp;pSpracheNr=2&amp;pMUJSuche=FALSE">https://online.rwth-aachen.de/RWTHonline/pluui/\$cb:lang=DE/wbLy.wbShowLVDetail?pStpSpNr=445678&amp;pSpracheNr=2&amp;pMUJSuche=FALSE</a>
RWTH	Managing Technology & Innovation: How to deal with disruptive change (6 Modules e.g. Customer-Centric Innovation)	~1 Credit per Module = ~6 Credits	Summer & winter term	Thomas Zimmermann, Martin Siebrand	<a href="https://www.time.rwth-aachen.de/cms/TIME/Studium/Veranstaltungsbuebersicht/-oafk/MicroMaster-Kurse/?lidx=1">https://www.time.rwth-aachen.de/cms/TIME/Studium/Veranstaltungsbuebersicht/-oafk/MicroMaster-Kurse/?lidx=1</a>
WUT	Project, Innovation, Technology, Engineering & PLC Management	10	Summer & winter term	Aleksander Buczacki	<a href="https://wsoweb.usos.pw.edu.pl/kontroler.php?_action=katalog2/przedmioty/pokazPrzedmiot&amp;prz_kod=1101-ZP000-MSA-PRITE&amp;callback=g_da1b2267">https://wsoweb.usos.pw.edu.pl/kontroler.php?_action=katalog2/przedmioty/pokazPrzedmiot&amp;prz_kod=1101-ZP000-MSA-PRITE&amp;callback=g_da1b2267</a>
WUT	Climate Catastrophe – between physics, biology, economy and psychology	3	Winter term	Dariusz Aksamit	<a href="http://www.konwersatorium.pw.edu.pl/sylabusy/2022_SZ3_sylabus.pdf">http://www.konwersatorium.pw.edu.pl/sylabusy/2022_SZ3_sylabus.pdf</a> (syllabus in Polish so far)
WUT	Entrepreneurship and Commercialisation of Results of Scientific Research	2	Winter term	Janusz Marszalec	<a href="https://wsoweb.usos.pw.edu.pl/kontroler.php?_action=katalog2/przedmioty/pokazPrzedmiot&amp;prz_kod=234A-KDAN-PKWRN&amp;callback=g_c1b46f0">https://wsoweb.usos.pw.edu.pl/kontroler.php?_action=katalog2/przedmioty/pokazPrzedmiot&amp;prz_kod=234A-KDAN-PKWRN&amp;callback=g_c1b46f0</a>
UPV	Sustainability in Architecture: An Interdisciplinary Introduction	2	Asynchronous	Elena de la Poza	<a href="https://www.edx.org/es/course/sustainability-in-architecture-an-interdisciplinary?utm_medium=partner-marketing&amp;utm_source=referral&amp;utm_campaign=upvalencix&amp;utm_content=upvsite2020">https://www.edx.org/es/course/sustainability-in-architecture-an-interdisciplinary?utm_medium=partner-marketing&amp;utm_source=referral&amp;utm_campaign=upvalencix&amp;utm_content=upvsite2020</a>
UPV	Measure and Improve Innovation at the Workplace	3	Asynchronous	Fernando González	<a href="https://www.edx.org/es/course/measure-and-improve-innovation-at-the-workplace?utm_medium=partner-marketing&amp;utm_source=referral&amp;utm_campaign=upvalencix&amp;utm_content=upvsite2020">https://www.edx.org/es/course/measure-and-improve-innovation-at-the-workplace?utm_medium=partner-marketing&amp;utm_source=referral&amp;utm_campaign=upvalencix&amp;utm_content=upvsite2020</a>
UPV	Boosting Innovation And Entrepreneurship In The Food Sector	2	Asynchronous	Cristina Barrera	<a href="https://www.edx.org/es/course/boosting-innovation-and-entrepreneurship-in-the-food-sector?index=spanish_product&amp;queryID=256f4eca04f6530d928306231c43505&amp;position=19">https://www.edx.org/es/course/boosting-innovation-and-entrepreneurship-in-the-food-sector?index=spanish_product&amp;queryID=256f4eca04f6530d928306231c43505&amp;position=19</a>