	C THE					TICHE A	Academy: Partners res	ources mapp	ping					
Leading organization	Name of the Initiative/course/training	Area of content	Objective	Target	Language of delivery	Time frame of the implementation	Modules	Duration	Mode of delivery	Didactic Methodology	Evaluation Methods	Certification	Funded/ Marketed	Link to training programme or relevant document
IRFEDD	Motion IRFEDD - Des métiers pour l'environnement (S-F)		illustrate the definitions, issues, sectors and professions of the green economy and the circular economy.	All publics	French	2018	1 vidéo	2:47mn	Online	motion design	none	none	IRFEDD & FEDEREC	https://vimeo.com/310439072/1302680f89
IRFEDD	Fiche interactive economie verte		Information on jobs, professions and training of the green economy in the Provence-Alpes-Côte d'Azur region for guidance and integration professionals	All publics	French	2014	1 PDF report		Online		none	none	Realized in partnership with ADEME, PACA Region	https://irfedd.fr/wp- content/uploads/2016/09/Fiches-interactives- economie-verte-irfedd.pdf
IRFEDD	Module on Introduction to Sustainable Development		Giving a general knowledge on Sustainable Development, Circular Economy and CSR	University students	French	Each year	5 times 0.5 days	17.5h	Presential	Videos, questionnaires, working groups, theoritical approach	Quiz, individual & collective exercices, collective case study	integrated into the general cursus	Service provided for University of Aix-en- Provence	
IRFEDD	Cahiers du Conseil de l'orientation	Eco innovation	Thematique oriented reports & analysis on skills, training and issues evolution	All publics	French	2013 - 2018			Online	Report, figures, analysis	none	none	Was financed by PACA Region	https://irfedd.fr/les-cahiers-dorientation/
AUEB	Master's Programme in Law and Economics in Energy Markets	Law	has as its object the scientific training and the application of students' knowledge and skills in current economic, political and legal issues that characterize the modern energy markets in the	Students	Greek	2020-today	10 courses	12 or 24 months	Blended	Presentations, small projects	Final Exams	Masters of Science	Academic Excellence sponsored by ATTIKI NATURAL GAS DISTRIBUTION	https://www.dept.aueb.gr/en/lawecon
AUEB	Professional Seminar on Sustainability Transition		In collaboration with the International Network of Solutions for the Sustainable Development of the United Nations, the Training and Lifelong Learning Center of the Athens University of Economics and Business Prof. Koundouri as the Scientific	All publics	Greek	2020-today	12	36h	Online	Presentations, small projects	Final Exam or Dissertation	Certificate of Vocational Educatio and Training	In collaboration with the International Network of Solutions for the Sustainable Development of the	https://diaviou.aueb.gr/programs/101-programs- dia-zwsis/1698-efarmozontas-tin-aeiforiki- metavasi-i-atzenta-2030-i-symfonia-ton-parision- gia-tin-klimatiki-allagi-kai-i-evropaiki-prasini- symfonia-1000042
University of Out	Product data and product life cycle management	Industrial engineering and management	The course familiarises students with the broad concepts of product data management (POM) and product life cycle management (PCM). Upon completion of the course, the student will be able to: - understand the basic terminology related to product, productisation, PDM and PLM - analyse the current status of the productisation, product and students and technical product portfolios and related applications in case companies - create strategic PDM and PLM concept based on the critical building blocks for one product data, product master data and product related business data - model the company's HW, SW and Service portduct related commercial and technical product portduct port PDM and PLM processes including two profess und as concept - create strateginerent the governance model for PDM and PLM process and IT development as a part of company's business process development including PDM/LM related information	Industrial Engineering and Management students of UniOulu.	English				Contact teaching	The tuition will be implemented as face-to-face treaching, course readings and by a practical assignment which is a common with a course S53465 Froduct portfolio management. Face-to-face teaching 20 h (lectures), practical assignment (group work) and self-ctudy 114 h. Lecture materials and selected articles.	Group work report (50% of the grade) and exam (50% of the grade).			
University of Oulu	Sustainable development and corporate social responsibility	Industrial engineering and management	Upon completion of the course, the student will be able to: - describe essential concepts related to sustainable organisations and corporate social responsibility - identify development trends that may have an impact on organisations' performance - define and apply the principles of corporate social responsibility and social sustainability and their impacts at different levels - identify and analyse different challenges organisations may confront related to sustainable development measures for the challenges - apply development measures for the challenges	Industrial Engineering and Management students of UniOulu.	Finnish. Supplementary material in English				Contact teaching	Weekly assignments and group work. Lectures 18h, group work 6h and independent studying and weekly assignments 56h	Weekly assignments and group work			

University of Oulu University of	Global Economics	Economics and business administration Environmental	After passing the course the student is capable to explain the impact of international trade on the economy. In addition, the student can compare different instruments of trade policy and their welfare effects. The student also understands basic functioning of foreign exchange markets. After completing the course, students will	Degree Programme in Economics and Business Administration	English Finnish	Contact teaching Contact teaching	Face-to-face teaching. 36 hours of lectures (including exercises) and 93 hours of independent study of the textbook. Mid-term exams or final exam.	During the course there are two mid- term exams. The average of the mid- term exams determines the overall grade of the course. The mid- term exams can be replaced by a final exam. Formal lecture		
Oulu	Environmental Philosophy (OPEN UNI)	philosophy	understand the central features of the fundamental problems and approaches in environmental philosophy.				independent study Lecture course and/or book exam	exam and/or book exam or other method agreed upon with the person responsible		
University of Oulu	Humans and the Environment (OPEN UNI)	Cultural Anthropology, Archaeology	Students will be able to define the relationship between protecting cultural heritage and protecting the environment. Students will also be able explain the fundamentals of the interaction between people and the environment, as well as the fundamentals of the concept of nature from a chronological perspective. Students will be able to discuss how specific cultures have adapted to their environments. Students will also be able to define human being's relation to animals and to their immediate environment. In addition, students will be able to define the cultural factors that control these relations. Students will also be able to discuss and their effects on local communities.	Open university	Finnish	Contact teaching	Contact teaching Lectures, written assignments or exercises	Assignments on lecture examination or written assignments or exercises		
University of Oulu	Sociological environment research (OPEN UNI)	Sociology	Having completed the course, the student - has familiarized her/himself with important current studies in sociological environmental research. - can describe the main concepts, theoretical tradition and current research in this field. - knows how to use this knowledge in research and practical working duties and how to take part in societal discussion on the theme.	Open university, Students pursuing Basic Studies in Sociology	Finnish (can be replaced with English literature)	Independent work	Independent studying E-exam or an essay (15 pages) Compensatory lectures if possible.			
University of Oulu	Changing World - Sociologiacal approaches (OPEN UNI)	Sociology	The student has familiarised her/himself with important currentresearch on globalisation. Having completed the course, the studenthas a masteru of the main concepts, the theoretical tradition andcurrent research on this area. The student knows how to use thisknowledge in research and practical working duties and how to takepart in societal discussion on relevant topics.	Open university, Students pursuing Basic Studies in Sociology	Finnish (may be substituted by English literature)	Contact teaching	Face-to-face teaching Book exam, substitutive lectures as far as possible	Book exam, substitutive lectures as far as possible		
University of Oulu	Geographies of global development	Global development	This course gives knowledge of global development problems from geographical point of view. After the course the student can explain what development indicates and what kind of social and economic phenomena will explain both development and under development. He/she is also able to compare different actions that are almed to diminish the uneven development based on different theories and strategies.	Geography students, especially teachers. Students minoring in Geography and Basic Studies in Environmental Conservation.Geogr aphy exchange students.	Finnish or English	Independent work	Book exam (no face to face teaching). Book exam.	Exam on examinarium.		
University of Oulu	Global Public Health (OPEN UNI)	Health	This course introduces the multidisciplinary field of public health in a global context. • This course will give an overview of the economic, social, environmental and cultural contexts of public health which are intrinsically connected. After the course students will understand how global public health can be improved through prevention and health promotion for achieving a sustainable development in health	Open university	English	Independent work	The course will be arranged utilizing activating teaching methods in Moodle learning environment. Course consists of 54 hours of studies independently.	The course is taught online through Moodle learning environment where student will have different assignments and lectures.		

University of Oulu	Waste management and recycling	Waste	After completing the course, the student will be familiar with the main features and objectives of waste legislation, and other policy instruments used in waste management. The student knows the key concepts of waste management and can use the waste-related terminology correctly. The student also understands the roles and responsibilities of stakeholders and different actors in the municipal waste management solso familiar with the separate collection requirements at source. The student can plan municipal waste collection system for households and is able to calculate the recycling and recovery rates of recyclables. The student knows the key recycling technologies for the main waste fraction and can acalulate treatment costs for the main waste fractions.	Bachelor's students English of Environmental Engineering; Bachelor's students of Civil Engineering; Master's students of Process and Environmental Engineering; Sustainable Development minor students; Climate Change and Northern Sustainability minor students; Other students; Other Sustainability minor students; Other Sustainability minor students; Other		Online	Distance learning Lectures, lecture assignments and an exercise in Zoom and Moodle. Online and video lectures; lecture assignments and an exercise as a personal work.	Continuous evaluation. Completion of all personal lecture assignments and the exercise as a personal work during the course period are mandatory, no exam.		
University of Oulu	Environmental Chemistry	Environmental chemistry	streams. Upon completion the student should have acquired an understanding of chemistry of atmosphere, hydrosphere and terrestrial	Students of Finnish, in English UniOulu as a book examination		Blended	Blended teaching Book examination 134 h of studying	Book examination		
Helensele of	Genterrent	D	environment. The student should have understanding of twelve principles of green chemistry. After the course the student is acquainted with the limitations of the use of dangerous chemicals and is able to find updated information of them.	Reference Freeb		Contraction (Starrage starring of the	Contractor .		
University of Oulu	Lircular economy in metallurgy	Process engineering	Student can identity and describe the characteristic features of the most relevant metallurgical residues. Additionally, they can estimate what kind of properties are needed when metallurgical residues are used in different applications (e.g. recovery of valuable elements, recycling, valorisation, safe landfilling) and what kind of processes and treatments are needed to obtain these properties. Finally, they can estimate possibilities to use secondary raw materials in metal production.	Students of process Finnish metallurgy.		Contact teaching / online	Liassroom education and/or remote education	Continuous assessment consisting of exercises that are made during the course.		
University of Oulu	Inorganic Materials in Circular Economy	Process engineering	Upon completion of the course, a student explain the main incentives, possibilities, challenges and barriers behind the utilization of high-volume industrial residues. Student is familiarized with environmental and legislative aspects related to utilization of industrial residues. The student can plan new busines while taking the limitations set by the environmental and legislative aspects and the industrial residue into account.	Master's English Programme in Process Engineering				Group work and final seminar.		
University of Oulu	Research training of bio and circular economy	Circular economy, process engineering	Upon completion of the course, a student knows how to do experimental laboratory work and report the results of the experimental research work.	Master's Finnish, English Programme in Process Engineering		Contact teaching / online	Face-to-face teaching. Literature review about 15 hours. Experimental study in laboratory about 80 hours. Reporting about 40 hours.			
University of Oulu	Environmental science and technology	Environmental engineering	Knowledge on: state of the environment, pollution, containation, essential global and regional environmental problems and their relations etc.	Bachleros's degree Finnish students of Environmental engineering, students of the Sustainable Develpment Minor, other minor students.		Contact teaching	Contact teaching 20 h, learning tasks 30 h, group work 30 h, independent studying 55 h.	Tasks, group work and exam are evaluated.		
University of Oulu	Environmental engineering in industry and municipalities	Environmental engineering	The student is able to define different methods and techniques to control and reduce environmental loads from industrial and municipality sectors. He/she is able to explain main specific characters, challenges and driving forces in the field. The student can describe the environmental impacts on air, water and soil, and methods and technological solutions to reduce these.	Bachelor's degree Finnish students of Process and Environmental Engineering study programmes.		Contact teaching	Contact lectures, group works, report Lectures 24h, group work 8h, self studies 103 h	Written mid-exams and a group work report.		

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University of Oulu	Environmental Impact Assessment	Environmental engineering Environmental	The student will acquire a broad and multidisciplinary and sustainable approach to environmental impact assessment (EIA). The student will know the all steps in EIA process and the different methods used in environmental impact assessment. During the course students develop their working life skills (e.g. writing, communication skills) and the ability to review environmental problems. Thy also learn how to resolve extensive environmental projects related problems, causes and consequences.	Only master students in Water resources and Environmental Engineering major in the Environmental Engineering Master Program.	English		Contact teaching	Face-to-face teaching, video lectures and project works. The amount of lecture hours can varied depending teaching resources in every year but independent project working is the main activities in the course. Work load in the course is totally 133 h. The project work is completed as group or individual work.	Weittee final error	
Oulu	Air Poliution Control Engineering - Practical Solutions	engineering	Subert is able to explain what kino of air emissions originate from different industrial and energy production sectors. Student deepens knowledge obtained in 482134 Course and is able to apply it to different practical emission problems. She/he is able to comprehensively describe, choose, design and optimize emission control technologies. Student understands essential regulations and laws concerning emission control.	Master's degree students of the Process and Environmental Engineering study programmes.	English		Contact teaching	Face-to-race treacning 1 Lectures 30 h, exercises 12 h, homework 8 h, teamwork presentations 10 h, and self- study 75.	written final exam or intermediate exams.	
University of Oulu	Industry and Environment	Environmental engineering	The student is able to identify the main features of the environmental load cause by different industrial sectors. He / she is able to explain typica sources of environmental load in the industry and the emissions caused, and the most important emission treatment techniques and emission control systems. The student is also able to identify uniform features in the environmental loads of different industries. In addition, the student is able to explain how an environmental management system is developed and implemented in a company.	Master's degree students in Process and Environmental Engineering study programs.	English		Online	Online lectures 40 h, learning tasks 45 h, a final exam / a portfolio 60 h. Lectures mainly consist of guest lectures given by experts representing different industrial sectors.	Learning tasks and a final exam / a portfolio.	
University of Oulu	Industrial Water and Wastewater Technologies	Environmental engineering	After completing the course student knows water use and management of water-intensive industrial sectors. He/sh knows industrial raw water, process water and waste water treatment technologies and can evaluate optimal usage of water by considering external requirements as well as technical and economical factors. He/she can select water treatment operations on the basis of case-specific needs.	Master's Programme in Process Engineering	English		Contact teaching	Lectures, group work and self-study	The students will be making an essay and a group exercise, which both will be evaluated. Student will participate in final exam after the course.	
University of Oulu	Integrated water resources management	Environmental engineering	This course introduces design concepts and principles that must be taken into account in planning of sustainable use of water resources. After the course students understand different processes, principles and mathematical methods used to manage water resources issues in nordic and global perspectives.	Master students in the water engineering study options of Environmental Engineering program	English		Contact teaching	Face-to-face teaching, assignments, exam Variable learning methods: Lectures, assignments, exam	Variable assessment methods where each submission is graded and weighted separately	
University of Oulu	Renewable Energy	Energy	The student is able to define different methods and techniques on renewable energy production field. The student can describe the energy production from renewable sources and is able to compare the environmental impacts of different ways of producing energy. He/she is able to identify main specific characters, challenges and driving forces in the field.	Master's degree students of Process and Environmental Engineering study programmes.	English		Contact teaching	Contact lectures Lectures 40h, self-study 95h	Written final exam.	

University of Oulu	Sustainable Urban Energy Energy	The student can explain the concepts and legislative requirements for zero energy buildings and positive energy districts. The student will gain an understanding of the key technologies and key performance indicators (KPIs) of energy sustainable dwellings and sustainable city structures. The student will be able to calculate energy needs of buildings as well as greenhouse gas (GHS) emissions associated with energy consumption. The student can apply the psychometric chart and able to size and select suitable heating, ventilation and air conditioning (HVAC) technologies for different climate zones. The student can ablo apply energy modelling tools and is able to size building-integrated renewable energy technologies. The student calculate the renewable energy generation potential and make an economic assessment of the applied technologies. In terms of payback time and net energy tots.	Master's students of Environmental Engineering, especially of sustainable energy systems orientation; Doctoral students are also welcome to participate.	English		Online	Online course, with pre- recorded video lectures, learning material and exercises. Live video conference and discussion. Self-learning, and self- sessessment. Video lectures and tutorials for the calculation exercises. I learning tasks and calculation exercises. On- line and face-to-face consultation.	Grading of learning tasks.calulation and sking exercises. Self-evaluation and self-assessment.	
University of Oulu	Climate.Now (OPEN UNI) Climate	Upon completion of the course, student can -look at climate change from many different perspectives and create connections between them as well as look for solutions to the climate challenge in a variety of ways -reflect her or his own role in climate change and apply what has been learned on the course -examine different perspectives, solutions, information sources, and the current debate on climate change critically	Open university, high school students	Finnish		Online	Web-based teaching. Studying online material and independent study 46 h, learning task 8 h.	Course grading is based on the learning task.	
University of Oulu	Sustainable development and environmental change (OPEN UNI)	The aim of the course is to familiarize the student with the core issues of sustainable development and environmental change. After completing the course, the student understands and is able to explain what sustainable development is and what its main challenges are. The student is able to apply the key concepts of the topic and evaluate the significance of major environmental changes for Finland and globally.	Open university, high school students	Finnish		Online	Online teaching (Moodle) The course includes online teaching and preparation of an assignment.	The final grade of the course is determined by the assignment.	
University of Oulu	Sustainable Development Sustainable development	The student is able to explain the principles of sustainable development and its environmental, economic and social dimensions, knows the goals and indicators of sustainability; and is able outline the future persectives on the prosperity of human, economic and technological systems.	Master's students of Environmental Engineering.	English		Contact teaching	Implemented as face-to-face teaching. The course largely relies on participatory learning, therefore, there are compulsory participation requirements. Lectures 34 h, guided exercise sessions 8 h,group work 43 h and independent work 50 h.	The course evaluation will be based on the individual work done in the learning tasks and performace in the exercise report. The course unit utilizes a numerical grading scale 1-5 (accepted grades) and zero stands for a fail.	

University of Oulu	Sustainable Development Minor (25 ECTS)	Sustainable development	University of Dulu educates future pioneers to build a more sustainable, intelligent, and humane world. In "Sustainable development" studies you have a chance to learn about different dimensions of sustainability and to choose study modules from different faculties.	Degree and exchange students of UniOulu	Finnish and/or English			University of Oulu offers Sustainable Development Minor (25 ECTS) to all degree and exchange students. The minor is implemented as a collaboration between all faculties. It consists of a multidisciplinary introduction between all Development? (complete 5 ECTS) and studies from different dimensions of sustainability (20 ECTS). Student chooses at least 5 ECTS from each of the three dimensions (environmental and ecological, technologica, technologica			http://oulu.yuja.com/V/Video?v=171311&node= 741566&=1617923445&autoplay=1
								and economic, social and cultural), 15 ECTS in total. On top of this, student chooses freely 5 ECTS from any dimension or from the sustainability-related courses of collaborating networks (FITEch, UniPID,			
ουιυ	Towards circularity	CE and ethics and SDGs	After completing the course, the student is able to explain the concepts of linear and circular economies and the underlying sustainability challenges that force us to a shift from a linear model to a circular economy with circular business models. The students can summarize the national and EU polices and action plans for CE. In addition, the student can explain and utilize circular economy tools and instruments that are used to promote the transition to a circular economy. The student is able to analyze the capability of the selected products, processes and economy. In connection with the above, the student can judiciously suggest development needs and practical actions in order to achieve circularity targets.	Master's degree students of process and environmental engineering	English			Lectures 30 h, team work 30 h, self-study 75 h.	Final exam and exercises.		
LUT Universit University of Helsinki/Aal University/ University/ Eastern Finland/The Finland/The Finland/The Finland/The Stra	// CIRCULARECONOMY.now	Circular economy	Using good ideas to promote sustainable development – research, ponder, discuss, exchange opinions. Objective 1 Develop an overall image of the circular economy and understand its basic principles. Objective 2 Understand the problems related to the way we consume resources today and how the circular economy can help in solving these problems. Objective 3 Familiarise yourself with the methods that could promote the circular economy. Objective 4 Form a vision of the practical actions that could be utilised in different sectors to promote the circular economy.	The Circular Economy.Now study module is hosted on the University of Helsinki's MOOC (Massive Open Online Course) platform, which is open to everyone.	English	The module consists of five different sections. In the first section, students examine the current use of resources and the related challenges and learn about the circular economy model. Sections 2–5 dive deep into the following themes from the perspective of the circular economy: sustainable food system, forest-based cycles, technical cycles, and transportation and the sharing economy.	Online	The module can be utilised as either a three-credit e- learning course, or as a broader five-credit hybrid course managed by a responsible teacher as part of a university's own curriculum. Circular Economy.now is a 3 to 5- credit module that focuses on learning and teaching the principles of the circular economy. The module can be utilised as either a three- credit e-learning course, or as a broader five-credit hybrid course managed by a responsible teacher as part of a university's own curriculum.		The module has been implemented in cooperation with Lappeernanta University of Technology, the University of Helsinki, Aaito University of Eastern Finland. The main funding provider is Sitra, the Finnish Innovation Evonomy, now study module was designed and produced in cooperation with the Conomy, now study module was designed Company, now study module was designed Company. The Circular Economy, now study module was designed Company. The Circular Company. Comp	https://circularnow.fi/

SUSTAINABLE PRODUCTION AND CE IN THE MECHANICAL SECTOR	Eco innovation	The course is devoted to those who intend to learn the basic principles necessary to deal with issues related to the management of waste or production waste in their company or organization, in order both to comply with the requirements of the relevant legislation and to identify opportunities for the development of circular economy projects. The recipients of the course are employed or non-employed individuals with an interest in working in the area of waste and circular economy issues. Thus, the main corporate figures potentially interested are: HSE management system managers, production/plant management system managers, production/plant the documentary and operations inherent to waste.	Italian 202	one 32-training hours module. Mai contents: general principles of the circular economy Waste regulatory framework, ma responsibilities and obligations, document management aspects (loading and unloading registers, forms, MUD), temporary storage management waste classification, EER code assignment, hazardous characterist permits for waste management facilities and waste transport bu-y-products and opportunities for producers and users woluntary environmental certifications, product eco-labels, L0 concept circular economy project development opportunities and funding calls	n n cs 32h 7	blended	teaching session, cooperative learning, case studies' analisys	tests, evaluation of works/excercises	Certificate of attendance	Funded by the EMILLA ROMAGNA REGION (ESF)	https://centoform.it/portfolio/produzione- sostenibile-economia-sircolare/
CENTOFORM CENTOFORM EVALUATION AND CE IN THE BUILDING AND CONSTRUCTION SECTOR	Eco innovation	The objective of the course is to acquire knowledge and skills at an advanced level related to environmental impact assessment and circular economy in relation to the building and construction supply chain.	Italian 202	Environmental sustainability and climate change, Circular economy applied to the building and construction supply chain Management of atmospheric emissions Management of wastewater discharges Waste management Main proceedings in the environmental field: EIA/AIA/AUA/AU Environmental certifications Environmental certifications Main methodologies for assessit the environmental impact of buildir	32h gg	blended	teaching sessions, cooperative learning, case studies' analisys	tests, evaluation of works/excercises	Certificate of attendance	Funded by the EMILLA ROMAGNA REGION (ESF)	https://centoform.it/portfolio/valutazione- impatto-ambientale-ed-economia-circolare- applicata-apli-interventi-edil/
Environmental sustainability in the industrial processes and circolar economy	New Business Models	The course aims at providing to participants knowledge and skills in the design, management, monitoring, and evaluation of projects for the dissemination of a culture of sustainability, for the adoption of approaches and methodologies that promote the adoption of the circular economy paradigm and support the transition to an economy oriented to sustainable production, rational use of resources, reduction of the environmental impact of industrial production processes	Italian 202	Sustainable industrial production a CE, Ecodesign Energy performanc- business models for circular econor Life Cycle Thinking and Life Cycle Assessment, Carboon footprint an Carbon neutrality	nd >, Yy, 56h d	blended	teaching sessions, cooperative learning, case studies' analisy, project- based learning	tests, evaluation of works/excercises	Certificate of attendance	Funded by the EMILIA ROMAGNA REGION (ESF)	https://centoform.it/portfolio/sostenibilita- ambientale-nei-processi-produttivi-ed-economia- circolare/
IFTS COURSE - JUNIOR EXPERT IN CIRCUALR ECONOMY	New Business Models	The course equips the participants with the necessary tools and skills needed for sustainable development and circular transition in economy and society. Following the 3 Rs (reduce, reuse and recycle), they e.g. gain skills in the analysis, ad hoce processes, inpact assessment methods, total quality management for environmental sustainability, entrepreneurship and digital literacy	Italian 202	Gaining a basic understanding of circular economy, its potential an they reflect about their own role; training in evaluating industrial production processes and making suggestions for improvement, applying tools and concepts directly the daily work of a company, bein enabled to explore chances and ris of redesign and new business mod and to facilitate innovation worksho	d in 8 ks is ps	Blended	teaching sessions, cooperative learning, case studies' analisy, project- based learning, internship (30-40%)	tests, evaluation of works/excercises, final exam	Higher technical specialization certificate EQF IV	First pilot funded in 2020 by the EIT Raw Materials and after funded by the EMILIA ROMAGNA REGION (ESF)	https://studycirculareconomy.com/; https://centdorm.il/portfole/iftsi-unior-expert-in- circular-economy-2021/

University of	CEIS-Circular innovation	Circular Economy	Sustainable Growth,	Post graduate, Phd	English	Winter-Summer	Sustainable development and industrial	5 weeks	Hybrid	theoretical and case studies	Final Exam	Emilia Romagan		www.unife.it
Ferrara	and international Skills	and Project	Circular Economy, Acconting, project management,	candidates	-	school	production		-			Region		
		Management	Cost benefit Analysis				Introduction to circular economy					-		
		-					Environmental legislation							
							Energy performance Redesigning							
							products and new business models for							
							services The economic evaluation of							
							environmental innovation projects							
							(CBA analysis) Life cycle thinking							
							and analysis Circular economy project							
							management Project financing							
							Budgeting Physical-financial							
							monitoring and risk management							
							Corporate social responsability							
							Circular economy in productive							
							processes - companies best practices							
University of	Economics Management	Green economy	Green Economy, Economics, Econometrics,	Bachelo degree	English	Master Degree 2	Development economics and emerging	2 years	in presence	Theoretical and project eork	Master thesis	Italian Ministri of		www.unife.it
Ferrara	and Policies for Global					years	markets					research and		
	Challenges						Environmental economics and policy					University		
							Statistics, Bevioural Economic,							
							Economics of innovation, Energy							
							economics, Financial management,							
							Internation trade, etc							
1							Creating and Capturing Business						1	
			Attendees will gain insight into existing and	Entrepreneurs,	1		Value		1		1		1	
			emerging Circular Business Models. They will gain	Senior	1		Facilitated Reuse Remanufacturing		1	Live web-based teaching	1		1	
			an understanding into how to create and capture	Management,			Incentive Return			and discussion, online live				
		New Business	circular value, all while ensuring customers can	Designers, Product			On Demand Production Product			cooperative learning, case		Certificate of		
ANOIS	Circular Business Models	Models	partpicate in the Ciruclar Economy.	Managers	English	2023/2024	Service Systems	2-10 hours	Online	studies' analysis	None	attendance	TICHE	
1				Entrepreneurs,	1		1		1				1	
		1	Attendees will gain insight and understanding of	Senior		1				Live web-based teaching				
			the different circular design strategies to enable	Management,			Linear to Circular Design			and discussion, online live				
			them to redesign their existing linear products or	Designers, Product			Design for Repair / Durability /			cooperative learning, case		Certificate of		
ANOIS	Circular Design Strategies	Circular Design	to design new circular products.	Managers	English	2023/2024	Recyclin / Disassembly	2-10 hours	Online	studies' analysis	None	attendance	TICHE	
				Entrepreneurs,										
			Attendees will gain insight and understanding into	Senior										
			how they can assess their existing value chains to	Management,						Live web-based teaching				
			determine where circular transitions can be made	Designers, Product			Social & Environmental Lifecycle			and discussion, online live				
		CE and ethics and	and to explore the development of circular supply	Managers, Supply			Assessment, Sustainable Criteria.			cooperative learning, case		Certificate of		
ANOIS	Circular Value Chains	SDGs	collaborations	Chain Managers	English	2023/2024	Traceability	2-10 hours	Online	studies' analysis	None	attendance	TICHE	
					<u>.</u>									
			Attendees will gain insight and understanding into							Live web-based teaching				
			the existing and emerging circular materials and	Entrepreneurs			Selecting Materials			and discussion, online live				
			how to incorporate them into their products to	Designers, Product			Biological/Renewable/Technical/Finit			cooperative learning, case		Certificate of		
ANOIS	Circular Materials	Eco innovation	ensure circular systems are activated	Managers	English	2023/2024	e Materials, Traceability	2-10 hours	Online	studies' analysis	None	attendance	TICHE	
			Attendees will gain insight and understanding on											
			how they can prolong the lifespan of their							Live web-based teaching				
			products, what policy support is needed and how	Entrepreneurs			Design for Repair, Durability, Material			and discussion, online live				
	Designing Long Life		they can encourage consumers to change	Designers, Product			Choices Remanufacturing, Product			cooperative learning, case		Certificate of		
ANOIS	Products	Circular Design	behaviour	Managers	English	2023/2024	Service Systems, Incentivised Return	2-10 hours	Online	studies' analysis	None	attendance	TICHE	
										country analysis				
1			Attendees will gain insight and understanding on	1	1		1		1				1	
		1	how they can ensure short life products are			1	Design for Recycling Disassembly			Live web-based teaching				
			circular in a sustainable manner, what nolicy	Entreprepeurs	1		Incentivised Return On Demand		1	and discussion online live	1		1	
	Designing Short Life	1	support is needed and how they can encourage	Designers Product		1	Production, Facilitated Reuse			cooperative learning case		Certificate of		
ANOIS	Products	Circular Design	consumers to change behaviour	Managers	English	2023/2024	Material Choices	2-10 hours	Online	studies' analysis	None	attendance	TICHE	
			0										1	
		1	Attendees will gain insight and understanding into			1	Design for Recycling, Disassembly			Live web-based teaching				
		1	relevant circular design strategies, business	Entrepreneurs		1	Incentivised Return, On Demand			and discussion online live				
			models and policies for the packaging sector and	Designers, Product	1		Production, Eacilitated Reuse		1	cooperative learning, case	1	Certificate of	1	
ANOIS	Circular Packaging	Circular Design	will evolore circular business case studies	Managers	English	2023/2024	Material Choices	2-5 Hours	Online	studies' analysis	None	attendance	TICHE	
	0.0				0.000									
1				1		1								
		1	Attendees will gain insight and understanding into			1	Design for Repair, Durability, Material			Live web-based teaching				
			relevant circular design strategies business	Entreprepeurs	1		Choices Remanufacturing Product		1	and discussion online live	1		1	
		1	models and policies for the Furniture sector and	Designers Product		1	Service Systems, Incentivised Return			cooperative learning case		Certificate of		
ANOIS	Circular Furniture	Circular Design	will explore circular business case studies	Managers	English	2023/2024	Ikea & Orange Box Case Studies	2-5 Hours	Online	studies' analysis	None	attendance	TICHE	
			, prese en estas e contress euse seu unes		0								1	
		1	Attendees will gain insight and understanding into			1				Live web-based teaching				
			relevant circular design strategies, business	Entrepreneurs	1		Design for Repair, Durability		1	and discussion, online live	1		1	
			models and policies for the Textile sector and will	Designers, Product	1		Recycling Material Choices		1	cooperative learning, case	1	Certificate of	1	
ANOIS	Circular Textiles	Circular Design	explore circular business case studies	Managers	English	2023/2024	Incentivised Return	2-5 Hours	Online	studies' analysis	None	attendance	TICHE	
	and a second second second													
1			Attendees will gain insight and understanding into	1		1				Live web-based teaching				
			how Service Design techniques can be used to	Entrepreneurs	1		1		1	and discussion, online live	1		1	
			facilitate a circular transition for business and	Designers, Product	1		Service Design, Product Service		1	cooperative learning, case	1	Certificate of	1	
ANOIS	Circular Service Design	Circular Design	consumers	Managers	English	2023/2024	Systems, Sharing Economy	2-5 Hours	Online	studies' analysis	None	attendance	TICHE	
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						1		1						
			Attendees will gain insight and understanding into											
			how to effectivly and responbilly market their											
			circular products and servies. They also explore											
			guidence on how to communcate the	Entrepreneurs.						Live web-based teaching				
			enviromental and social benefits to avoid	Designers Product						and discussion online live				
			groopwashing while improve sensumers	Managars			Communications Costifications			seeperative learning case		Contificate of		
ANIOIC	Classifier Description	Circular Desire	greenwashing while improve consumers	Manlagers,	For all also	2022/2024	The same life i	2.5.11	0	cooperative rearring, case	N	certificate of	TICUE	
ANUIS	Circular Branding	Circular Design	perceptions of the Circular Economy	Marketeers	English	2023/2024	Traceability	2-5 Hours	Unline	studies analysis	None	attendance	TICHE	
			Attendees will gain insight and understanding into											
			existing and emerging global policies with a strong											
			focus on the European Commission's Circular											
			Economy Action Plan 2, the Sustainable Product											
			Intative and result Directive and Legistative							Live web-based teaching				
			Changes. They will explore to future proof regions							and discussion, online live				
			endinges: They will explore to lattice proof regions	Della: Maliana			Classifier Malue, Chailes, Classifier					Cartificante of		
			and countries and ensure a Just Translation to a	Policy Makers,			Circular value chains, Circular			cooperative learning, case		Certificate of		
ANOIS	Circular Policy	Policy Scenarios	Circular Economy for all citizens	NGOs, Citizens	English	2023/2024	Infrastructure, Circular Skills	2-5 Hours	Online	studies' analysis	None	attendance	TICHE	
			Attendees will gain insight and understanding on							Live web-based teaching				
			how emerging technologies such as AI, machine	Entrepreneurs,						and discussion, online live				
			learning and automation can enable a circular	Designers, Product						cooperative learning, case		Certificate of		
ANOIS	Circular Industry 4.0	Eco innovation	transition	Managers	English	2023/2024	AI, Automation, Materials	2-5 Hours	Online	studies' analysis	None	attendance	TICHE	
										Live web-based teaching				
			Attendees will, explore how we can future proof	Policy Makers			Circular long & short life products			and discussion, online live				
			Attendees will explore now we can future proof	NCOs Dasisson			Circular long & short me produces.			and discussion, online live		Cartificante of		
			our European inestyle while ensuring a Just	NGUS, Designers,			Circular Lifestyles, Circular Policies,			cooperative learning, case		Certificate of		
ANOIS	Circular Societies	Circular Design	Translation to a Circular Economy for all citizens	Citizens	English	2023/2024	Circular Skills	2-5 Hours	Online	studies' analysis	None	attendance	TICHE	
			Attendees will gain insight and understanding of							Live web-based teaching				
			historic design movements and will work							and discussion, online live				
			collaboratively to create emerging design	NGOs, Designers,			Design Movements History, Material			cooperative learning, case		Certificate of		
ANOIS	Circular Design philosophy	Circular Design	philosophies for a circular transition.	Citizens	English	2023/2024	History, Design	2-5 Hours	Online	studies' analysis	None	attendance	TICHE	
			As the urbinsations becomes more dominate as a				1				1	1		
1		1	form of living, attendees will gain insight and				1			1	1	1		
1		1	understanding into the infractructure policies				1			1	1	1		
	1		behavious shares are vised to seate a simular				1			the cost has a data shire.		1		
			behaviour change required to create a circular							Live web-based teaching				
			economy within cities. Urban Mining, Urban	Policy Makers,						and discussion, online live	1			
		Climate neutral	Manufactring and a localised Circular Economy	NGOs, Designers,			Urban Manufacturing, Circular Skills,			cooperative learning, case	1	Certificate of		
ANOIS	Circular Cities	cities	deveopments will be explored	Citizens	English	2023/2024	Circular Lifestyles, Circular Policies,	2-5 Hours	Online	studies' analysis	None	attendance	TICHE	
		1									1			
1		1	Attendees will gain insight and understanding on				1			Live web-based teaching	1	1		
			how we can design new buildings to be circular.	Policy Makers.			Modular Buildings, Adaptotive Reuse			and discussion, online live	1	1		
		Climate neutral	while also ensuring we retain as much existing	NGOs, Designers			Meanwhile Use, Ablolish Demolish			cooperative learning case	1	Certificate of		
ANOIS	Circular Built Environment	citios	huildings and contructions materials as noscible	Citizans	English	2022/2024	Material Pause & Pecycling	2-5 Hours	Online	studios' analysis	None	attendance	TICHE	
ANOIS	Circular Dunc EllVII Uniment	CILIES	politionings and contractions materials as possible	CILIZEII3	LIIGIIJII	2023/2024	material neuse of netycling	2-3 Houl S	Online	studies analysis	NOTE	accentrance	TIGHE	