SUMMER SCHOOL IN APPLIED CIRCULAR ECONOMY

ABOUT The 5 ECTS course builds and strengthens competences in applied circular economy using the **Problem Based-learning** teaching model of learning by doing and reflection. It applies a **hybrid** (online + physical) **and flipped classroom approach** where materials (readings, videos) are provided to the students in advance and the time spent together is used for course activities such as **intensive group work**, **problem defining and solving applied to real-word cases**, **practical exercises**, **and discussions**.

PREREQUISITES The course is interdisciplinary and open to participants of different backgrounds. Basic as well as advanced elements of the circular economy methodological landscape will be covered, for a mixed audience.

MODULE 1. CIRCULAR ECONOMY, FROM THEORY TO PRACTICE will introduce to different theoretical approaches to circular economy as well as to their respective critiques. The focus will be on discussions on **narrowing, slowing and closing resource flows** - especially on the inner circles of circular economy – and how the potentials for circular improvements are identified. The module includes group-exercises where theories of circular economy are applied to the analysis of a case study.

MODULE 2. CIRCULAR BUSINESS MODELS AND STRATEGIES will explore the diversity in circular business models, especially with focus on the inner circles. The relevance of including new types of actors in these business models is discussed and various real-world case studies are presented to the students. Moreover, generic **principles and strategies are introduced that can be applied in the design and innovation process** to ensure more circular outcomes, i.e. for narrowing, slowing, closing and regenerating resource flows. The module includes group-exercises where a circular business strategy is designed for a specific case study.

MODULE 3. LIFE CYCLE ASSESSMENT OF CIRCULAR BUSINESS

STRATEGIES hands-on module to learn LCA for the development and evaluation of circular economy strategies. Covers theoretical elements of LCA, **from life cycle thinking to computational structure of LCA**, and practical elements such as use of LCA software, interpretation, use of results in the development of life cycle management strategies, and communication of results. The module includes group-exercises where LCA is applied to evaluate a circular strategy for a specific case study.

LECTURERS TECH4CE guest Prof. Nancy.Bocken (Maastricht Univ.), Melanie Jaeger-Erben (BTU Cottbus), Ruth Mugge (TU Delft) TECH4E members Assoc. Prof. Mette Alberg Mosgaard, Assoc. Prof. Michael Søgaard Jørgensen, Prof. Massimo Pizzol, Assoc. Prof. Louise Møller Haase, Assoc. Prof. Reza Tadayoni, Assoc. Prof. Bent Thomsen Assoc. Prof. Monia Niero + others from TECH...

REGISTRATION via google form

UNIVERSITET

https://forms.gle/yHyaTnSBZcbVjtar7 DEADLINE APRIL 15th 2023 CONTACT & INFO massimo@plan.aau.dk DATES IN 2023 Online sessions CET 8 May 10:00-12:00 16 May 10:00-12:00 23 May 10:00-12:00 25 May 10:00-12:00 30 May 10:00-12:00 1 June 10:00-12:00 Onsite sessions in Aalborg, Denmark 13-14-15 September



ATTENDEE / PRICE

PhD students @Danish University / Free @Maastricht University, BTU Cottbus, TU Delft / 2.250 DKK (300 EUR) @ other affiliation / 4.500 DKK (600 EUR) Academics (postdoc, professor, etc.) / 9.000 DKK (1200 EUR) Professionals (consultancy, industry, etc.) / 18.000 DKK (2400 EUR) Prices do not cover meals or accommodation

The course is organized by the Centre for Circular Economy (TECH4CE) and Technical Doctoral School of IT and Design, at the TECH faculty, Aalborg University https://www.en.tech.aau.dk/research/research-groups/centre-for-circular-economy