

# Tampere University of Applied Sciences

## Course: Avenues to Circular Economy (5 ECTS)

**Avenues to Circular Economy** – course is self-study course with different tasks, projects and group works. Course can be done independently, and the results of individual assignments will be presented to course participants in an online seminar at the end of the course.

Virtual attendance is compulsory on some of the lectures, but course can be done independently.

### After completing this course student:

- is familiar with the basics of Circular Economy concepts and business models
- knows many cases, industries and companies related to Circular economy
- is introduced to innovative new uses and methods of recycling and efficient use of materials

### Target

Students form their own idea of circular economy by using a real case study from working life. Students process this case study further with other course participants. After the course, students are able to recognize the future potential and possible risks involved with circular economy. Students will also be able to connect the global megatrends to the development of circular economy and understand how designing and life cycle thinking helps to increase the level of circularity in organizations.

The course approaches circular economy from local, national, and global levels, which gives an ability to see the impacts of circular economy in a wider picture. During the course, students will use the principles of co-creation method in managing design processes, products and services in circular economy. After the course, students will have an ability to justify phenomena in circular economy in critical perspective and understand various challenges in pursuing sustainability from techno economic and management viewpoints.

### Content

Circular economy, value creation, sustainable design, life cycle thinking, sustainability, resilience, risks, megatrends, society, leadership.

### Grading criteria

#### Grade 1-2 (satisfactory)

Course tasks shows that student can identify and define core concepts and phenomena of Circular Economy. Student has basic understanding in defined themes of the course.

#### Grade 3-4 (good or very good)

Student can explain the core concepts and phenomena of Circular Economy. Student has understanding in themes of the course and can apply these into course tasks and assignments.

#### Grade 5 (excellent)

Student can understand extensively the core concepts and phenomena of Circular Economy and reflect their applied knowledge on course tasks. Report shows that

student has analytical understanding in themes of the course and can apply and develop these in course tasks, assignments and discussions.

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