

The Future of Engineering Education
Parallel Sessions I

Co-Creation and the role of students in preparing education to the challenges of the future

Time: 11.00 – 13.00

Venue: Congress Centre Darmstadtium

Abstract

Many higher education institutions are facing new diversity issues as well as opportunities arising from educational settings where students and teachers often have different first languages, cultural backgrounds, and expectations about the teaching and learning processes and outcomes.

Students demonstrate an increasing interest in adopting active and participatory roles in higher education systems that allow them to interact and work collaboratively with educators. This process is known as value co-creation: it is the process of students' feedback, opinions, and other resources such as their intellectual capabilities and personalities, integrated alongside institutional resources, which can offer mutual value to both students and institutions.

We would like to offer a brief overview on some virtual examples of co-creation within the Cluster's network.

Keywords and concepts

The meaning of co-creation in the higher educational system

Team working as virtual example of co-creation

The sensitivity of the Cluster's network on the co-creation

Programme

- Slot 1 - 30 min: Meaning and Perspective of co-creation in STEM
Key-note from IST (to be announced)
- Slot 2 - 30 min: Team working, innovative way to teach and learn by doing in aerospace/mechanical field (Polito team student or an experience from Cluster' partners)
- Slot 3 - 30 min: Students' teams to design of prototypes for innovative eco-friendly vehicles - (IST team students) - Prof. Beatriz Silva
- Slot 4 - 30 min: Co-creation in University Entrepreneurship Education: the experience of Politecnico di Torino. Lecture given by Alessandra Colombelli - Politecnico di Torino
- Slot 5 - 30 min Discussion/Video/Demonstration Students' teams to design of prototypes for innovative eco-friendly vehicles: Formula Student; PSEM; TLMoto, Solar BOat (IST)

Contributors

Maria Beatriz Silva – IST

Maria Beatriz Silva is an Associate Professor with tenure at the Manufacturing and Industrial Management Unit of the Mechanical Engineering Department of Instituto Superior Técnico (IST). Her scientific activity covers the areas of experimental and numerical simulation of metal forming, being co-

author of papers published in international journals with referee corresponding to more than 1200 citations on SCOPUS, and an h-factor of 18.

She is member of the Pedagogical Council of IST, coordinator of the ULisboa Project "Observar e Aprender" (Observe to Learn), and member of the Gender Balance group at IST.

Alessandra Colombelli - Politecnico di Torino

Alessandra Colombelli is Associate Professor at the Politecnico di Torino. She is Head of the Entrepreneurship and Innovation Centre (EIC) at the Politecnico di Torino. She serves as Technical Assessors at the I3P, the incubator of Politecnico di Torino. She was formerly Marie Curie Fellow at the Manchester Business School. She is Associate Editor of *Regional Studies* and member of the Editorial Review Board of *Small Business Economics*. She is elected member of the board of the Italian Association of Management Engineering (AiMG).

Participating in the session planning

Politecnico di Torino, Instituto Superior Tecnico (IST)

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