EUROPEAN ENGINEERING TEAM

CREATING SUSTAINABLE INNOVATIONS
In today’s work environments engineers are required to have state-of-the-art technical knowledge, and be able to apply it in international teams.

Engineers need to

✓ work with colleagues, suppliers, and clients from different cultural backgrounds,
✓ operate as part of an international team, and
✓ master the challenges of virtual cooperation in specific engineering tasks

The EET introduces students to the competencies required in a dynamic European economy by developing skills for working across disciplines, borders, and cultures.

**Value Proposition**

The current industrial value creation must overcome the prevailing thinking of many company leaders focusing only on the economic dimension of sustainability.

New startups can essentially contribute sustainability with new ideas for competitive and sustainable innovations.

By means of the market dynamics of cooperation and competition in global value creation and knowledge networks, sustainable innovations can empower a global sustainable development.

The new master module “European Engineering Team” (EET) copes with the challenge of sustainability in engineering science and strongly fosters entrepreneurial thinking.
Concept A multidisciplinary, intercultural team of 12 master students and supervisors from four European universities work together on research projects for sustainable technological innovations leading to an entrepreneurial initiative.

Vision Prepare student engineers for the challenges they will face in global settings and inspire an entrepreneurial mind-set.

Mission Bring together a multidisciplinary and multicultural team of master students from four European universities to work together for nine months on a novel research project aiming for a sustainable technological innovation which will subsequently be transferred into a sustainable business concept.

A NEW MASTER COURSE

Expectations
Students participating in EET will have a realistic understanding of skills they need to integrate into European work domains.

Goals
Apply theoretical knowledge to practical problems involving sustainability

Experience the diversity of skills relevant to new product development

Cross-campus enrichment

Experience challenges and satisfaction of working with other engineers with various cultural backgrounds and competencies
The project module covers two semesters, beginning in March, as illustrated in the timeline. The European Engineering Team (EET) are supervised by a group of professors and research assistants from partner universities. The master students and supervisors each bring complementary competencies from different disciplines in engineering science and management. The module is based on an action- and project-oriented teaching and learning approach focusing on the development of a technological innovation for coping with the sustainability challenges. The EET includes face-to-face interactions, so called transnational EET meetings, and supervised project work between each meeting. Academic content is provided via scheduled e-learning modules (MOOC) that address a broad range of topics on sustainable engineering and product design. During the last three months of the project, the technological innovation will be readied for industrial practice via a business model for a start-up company.
Start-ups can contribute to a sustainable, industrial development by transforming technological inventions into sustainable innovations.

Innovative products and services can contribute to a global sustainable development by means of the market dynamics of cooperation and competition in global value chains and knowledge networks.

The main activities are the development of a product as well as the development of a related business model.

The macro-cycle (right) describes the sequence of important process phases for the development of startups. It provides a methodology for the integrated development of the product as well as the business model.
EET addresses the challenge to meet the continuously growing worldwide demand for capital and consumer goods and services while simultaneously ensuring a sustainable devolvement of human existence in its social, environmental, and economic dimensions.

New start-ups can contribute to this development by transforming technological innovations into competitive and sustainable products and services.
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