



## SUSTAINABILITY CHALLENGE

The global industrial development is faced by the challenge to meet the continuously growing worldwide demand for capital and consumer goods while simultaneously ensuring a sustainable evolvement of human existence in its social, environmental, and economic dimensions.

The realization of a sustainable development in the EU and other early industrialized countries is currently pushed forward by a variety of scientific, economic and political activities or legal guidelines. Despite these basic efforts, the transfer of sustainable thinking into companies is an ongoing and long-term process.

In the newly industrialized countries, the social and environmental dimensions of sustainability are in most cases not sufficiently integrated into companies' corporate strategies. This often leads to bad working conditions, to a wasteful use of water, material, and energy as well as to heavy environmental pollutions in these countries. The current industrial value creation in the early and newly industrialized countries thus holds an enormous potential for sustainable development.

New startups can essentially contribute to this development by transforming technological innovations into competitive and sustainable products and services. By means of the market dynamics of cooperation and competition in global value chains and knowledge networks, these products and services can empower a global sustainable development.



## PARTNERS



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## APPLICATION & INFORMATION

If you are interested in participating in the EET or if you want to get further information please visit [www.engineering-team.net](http://www.engineering-team.net) - the application for the course should be submitted before February 15<sup>th</sup> and sent via email to [info@engineering-team.net](mailto:info@engineering-team.net)

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# EUROPEAN ENGINEERING TEAM

CREATING SUSTAINABLE INNOVATIONS



## MASTER COURSE 2017



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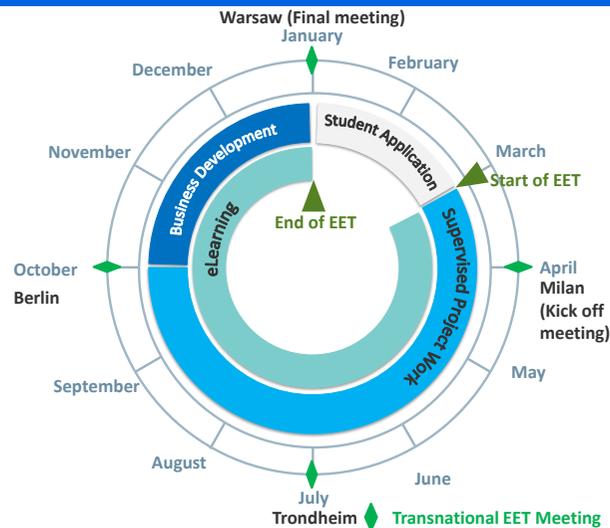
## EUROPEAN ENGINEERING TEAM

The EUROPEAN ENGINEERING TEAM (EET) is a new master course jointly organized by Technische Universität Berlin, Politecnico di Milano, Norwegian University of Science and Technology, and Warsaw University of Technology.

The course is based on a novel action- and project-oriented teaching and learning approach in order to improve and enhance the higher university education in engineering science through mobility and cross-border cooperation of master students and professors in Europe.

Motivated by the needs of today's globalized European society, a multidisciplinary and intercultural team of master students from four European universities will work together on a joint research project aiming for a sustainable technological innovation. The innovation will be subsequently transferred into a sustainable startup established by the team of master students.

The EET copes with the challenge of sustainability in engineering science and strongly fosters entrepreneurial thinking. Consequently, this master course provides the competencies required in a dynamic European economy by developing skills for working across disciplines, borders, and cultures in the area of tension between new technologies, social change, ecological responsibility and entrepreneurial opportunities.



## CONCEPT & SCHEDULE

The master course is going to have a duration of two semesters and will start in spring 2017. The EUROPEAN ENGINEERING TEAM (EET) will consist of 16 master students, four from each partner university. They will be closely supervised by a group of professors and research assistants from these universities. The master students and supervisors will bring in complementary competencies from different fields in engineering science.

The course 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 challenge. Possible research fields for the technological innovation might be e.g. Closed Loop Life Cycles, Sustainable Factories of the Future, Urban Production, Smart Cities, Learning Factories, or Product development with sustainable materials.

The EET is going to include supervised project work with presence phases at each partner university, so called transnational EET meetings, as well as eLearning phases. The eLearning phase will contain eLectures addressing different topics on sustainable engineering. During the last three months of the project work, the developed technological innovation will be put into industrial practice by developing a sustainable startup in cooperation with the Centre for Entrepreneurship from Technische Universität Berlin.



## THE EET OFFERS...

- ...project-oriented learning in an international team of master students
- ...the development of a startup based on a sustainable technological innovation
- ...connected eLectures on “Sustainable Engineering”
- ...three fully funded visits of all partner universities for five days each
- ...a presentation of the project results at an international conference
- ...the possibility of integrating a project-related master thesis
- ...a certificate of participation signed by the four partner universities



Funded by  
the European Union

