**CONTEXT MATTERS!**
**LINE: RESPONSIBLE INNOVATION IN A GLOBAL CONTEXT**
It is, thus, all about getting to know “your project” and its context, challenges, opportunities etc. You have to deeply know and understand your project before you can actually start making it.

During Q1 you will successively concretize your innovation project by creating a specific context- and technology dossier for it. This context- and tech dossier contains essential contextual information that impacts and informs the design options of your responsible innovation.

0SEUD0 - Timeslot A - Department IE & IS

**INTERNET OF THINGS**
**LINE: THE SECRET LIFE OF LIGHT**

Internet of Things (IoT) is the internetworking of physical devices, vehicles, buildings and other items. You will engage in the design and optimization of the wireless network connecting the IoT nodes, the establishing of algorithms and protocols for data exchange as well as the introduction of appropriate sensors to collect essential data for performing the project. Next to the technical challenges also the business aspects of the project will be explored within the groups. At the end of the course, the students will demonstrate that their solution can indeed solve the challenge taking into consideration specifications such as speed and energy efficiency.

5XTD0 - Timeslot B - Department EE

**PROJECT: SECRET LIFE OF LIGHT**
**LINE: THE SECRET LIFE OF LIGHT**

In this module, project teams work on a challenging project formulated by the ILI and external clients. Projects may have a research or design orientation but are grounded in a basic understanding of user contextual and technical requirements of innovative light applications, and involve empirical data gathering and analysis i.e. user-research. Examples: Shop of the future, Tools for teaching, Shining light on task difficulty, Stress reducing light, Smart urban lighting.

0HAU0A - Timeslot A - Department IE & IS

**ENGINEERING DESIGN**
In this course, you and your group will design, create and evaluate an autonomous active sports-aid for people with a physical or mental disability.

A core competence of any engineer is the ability to design: to create something new, something that was not there before. In this course you will learn to formulate design goals, handle external and internal constraints and manage time. You will experience the difficulties in prototype realization and the stress while demonstrating your design in a demanding test environment.

4WB80 - Timeslot C - Department ME

**PROJECT: ENTREPRENEURSHIP IN ACTION**
**LINE: TECHNOLOGY ENTREPRENEURSHIP**

In this last project course of the USE sequence “Technology Entrepreneurship” students apply the theoretical knowledge gained from the previous two USE courses. The ultimate goal of this project course is the development of a value proposition for a technological innovation. Each student team will come up with a unique solution and concept based on given technologies.

1ZAUB0 - Timeslot A - Department IE & IS

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*A gentle reminder that the subscription for courses in Q1 at the TU/e opens on the 15th of June 2019 and closes on 25th of August 2019.*