SMART CITY COURSE

Objective:

The students have the opportunity to learn using the innovative forms of education (mainly Project Based Learning and Design Thinking while solving the real problems submitted by the public administration offices, e.g. City of Warsaw, City of Łowicz, City of Płock.

Participants:

The Bachelor or Master students from the following Faculties: Geodesy and Cartography, Electronics and Information Technology, Architecture and Management from Warsaw University of Technology.

Method:

The students work using the innovative forms of education (mainly Project-Based Learning and Design Thinking).

Timing:

It is an extracurricular learning unit, the project lasts 2 semesters, but recruitment is conducted every semester. Each student may participate in the course for one or two semesters.

External partner:

Public administration offices, e.g. City of Warsaw, City of Łowicz, City of Płock

Service implemented:

The work on a prototype for solving one of the external partners' problems such as Smart City Project - New Market Square in Łowicz Technological Part. The solutions to these problems are crucial for the city inhabitants.

Learning outcomes:

After completing the learning unit, the student has the knowledge necessary to understand the social determinants of engineering activities and take them into account in engineering practice. He/she can, taking into account the existing limitations and non-technical requirements, formulate a specification and design a system consisting of Internet of Things devices for a Smart City or make a business plan. The student is ready to think and act in a creative and entrepreneurial way, work in an interdisciplinary team and solve complex problems.