



Course	CT10A7040 Code Camp- Software Engineering for Sustainability, 1 ECTS credit
Year and period	M.Sc. 1 - 2, 5 - 6.8.2017
Teacher(s)	Professor Birgit Penzenstadler, California State University Long Beach, US Vising lecturer, NN
Person(s) in Charge	Professor Jari Porras, LUT
Aims	<p>The role of ICT in solving the sustainability challenges is increasing all the time. This course will tackle these important aspects and challenge the participants to create their own solutions for the given sustainability problems through software development. The course will emphasise the LUT values in solving tough sustainability problems.</p> <p>During this code camp students are supposed to produce a working prototype of a solution for some local sustainability challenge. This prototype can be implementation of the ideas gathered in the "Visitor's Viewpoint to Software Engineering – Software Engineering for Sustainability" course or totally new idea. Technologies for the solutions are not limited and may vary from web based solutions to mobile solutions and all the way to physical products. Various technologies are provided by the organisers, but if something special is needed the participants are requested to bring those with them.</p>
Content	<p>Brainstorm and bring out your most creative ideas! Code Camp is an ultimate learning and hacking experience.</p> <p>The code camp approach can be defined as a collaborative learning setting that aims to promote profession-oriented skills. In code camp, the term camp refers to a situation where students assemble and stay a while together. The term code refers to coding, i.e. writing computer programmes. During a code camp, students write programmes together, solve problems related to their work together, eat together and even might relax together in a sauna.</p>
Modes of Study	Active participation as part of a team. NOTE! Bring your own laptop

Evaluation	Final grade: pass/fail <ul style="list-style-type: none">• Course project 70 %• Project presentation 30 %
Study Materials	Internet resources
Prerequisites	Creative thinking, passion, willingness to have an awesome hacker experience, courage to try out new things and background on programming.