

## TFK programme, funded projects 2023

<b>Project title:</b> Impact eXchange through International Hackathon for Sustainable Solutions	
<b>Coordinator</b>  Lappeenranta-Lahden teknillinen yliopisto LUT  Jari Porras, Jari.Porras@lut.fi	ImpactXChange project consists of two universities from Finland and one in Malaysia and focuses on integrating sustainability into computer science/software engineering education. As sustainability is an increasingly pressing issue IT field but rather badly included in the current teaching of the field, the  ImpactXchange project will a) develop four courses that integrate essential aspects of sustainability in the education of computer science/software engineering, b) implement each one of the courses both in Finland and Malaysia by using the Observe-Run-Repeat methodology, and c) design and manage the maintenance of these courses in some open education platform for unrestricted usage.
<b>Partners</b>  Sunway University  University of Turku	The courses developed and implemented in the project will link with the local industries and their needs. As an outcome of the ImpactXchange project will produce 1) Four new courses implemented and tested in both countries and material for these universities to rerun these courses at any time. 2) Structured "Nanodegree" Program with four subjects and one capstone hackathon Four subjects will have online self-instructed materials ready for activity implementation. Partners and other parties are welcome to (re)use the materials for any other purposes - short-term courses, integration in classic degree programs, etc. 3) Results based on measurement of the implementation and also participant feedback for review and publication 4) Project partners plan to turn the ImpactXchange program into an annual program for participants from Finland/Europe and South East Asia after project completion. This will enable further exchanges between the two regions and also students from the HEIs in these regions. 5) The participating industry companies from the industry network of the ImpactXChange partners may work with the students and the respective HEIs on the student projects in any appropriate capacity. It is hoped that the projects can be adopted by the industry to be validated and evaluated to turn them into actual solutions.

