

Welcome to TUAS International Week 2019

Smart Approaches Towards a Better Life

- Entrepreneurship
- Digitalization & ICT
- Health and Well-being & Health Technology
- Smart Machines
- New Energy Solutions

April 8-12, 2019 in Turku, Finland

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TUAS International Week brings together both teachers and RDI-staff from different fields, giving a unique opportunity to build concrete and true multiprofessional cooperation across different disciplines. You will also get to experience the beautiful city of Turku.

The faculties of [Engineering and Business](#) & [Health and Well-being](#) of Turku University of Applied Sciences welcome you to share your expertise with the participants of the week by giving a lecture or workshop, or in other ways actively contributing to the programme. The main theme of the week is **Smart Approaches Towards a Better Life** with a special emphasis on RDI activities and cooperation. Please find the focus theme introductions on the next pages.

FACULTY OF HEALTH AND WELL-BEING

The Faculty of Health and Well-being educates future professionals to work in the field of health care and social services. The starting point for our teaching activities is innovation pedagogy, a learning approach emphasizing multidisciplinary, experimental and practice-oriented learning.

Thousands of social and health care professionals develop their competence through our continuing education. Our services and products are tailored on the basis on the specific needs of each customer, with the aim of developing the competence of the customer organization through our multidisciplinary expertise.

The mission of our research groups is to find new solutions to promote health and well-being during the entire lifespan.

We are one of the actors of the Health Campus Turku, a significant multidisciplinary education cluster formed by four higher education institutions and a university hospital. The cluster offers an inspiring operating environment for studies, research, innovations and corporate collaboration.

The detailed programme of the week will be published in early March 2019.

Find out more at
www.tuas.fi/internationalweek

FACULTY OF ENGINEERING AND BUSINESS

The Faculty of Engineering and Business is a significant centre of technological and business competence, educating engineers and Bachelors of Business Administration. In addition, the faculty offers Master's level and continuing education.

We constantly develop our teaching and learning methods to respond to the needs of working life. The starting point for our teaching activities is innovation pedagogy, a learning approach emphasizing multidisciplinary, experimental and practice-oriented learning.

We are an international operator with five degree programmes conducted in English and more than 200 international partner institutions of higher education. Our degree programmes and research groups offer international semesters, study modules and projects to participate in English.

Our research groups are strongly integrated with education and represent expertise from engineering to business and environmental issues with focus on current topics, such as marine industry, sales expertise, digitalization and entrepreneurial activity.

REGISTRATION

Faculty of Engineering and Business, register [HERE](#)

Faculty of Health and Well-being, register [HERE](#)

by **28 February 2019**

Participation fee: 100 € / person.

The fee covers costs for the welcome event supper and cocktails, lunches, bus transportation to the get-together and the dinner at the traditional milieu.

#ExcellenceInAction Turku University of Applied Sciences is an inspiring community of 10,000 members - an innovative and multidisciplinary higher education institution, which creates international competitiveness and well-being for Southwest Finland. Our graduates are practice-oriented professionals with top competencies.

#Innopeda is a learning method developed at TUAS. It is based on experimenting, sharing know-how and combining different approaches. With Innopeda we successfully connect teaching, research and development activities, internationality and co-operation with working life.

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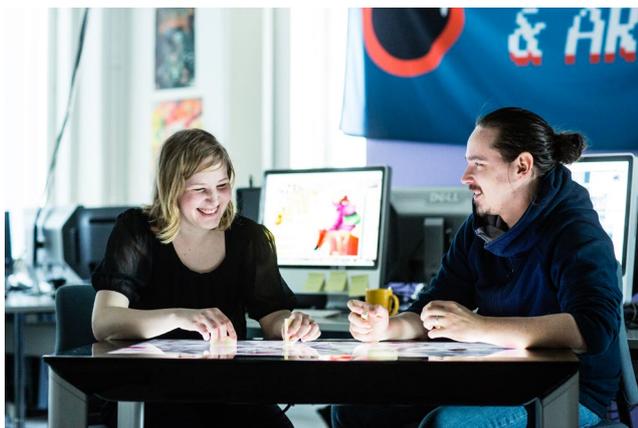
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Focus themes of the week



ENTREPRENEURSHIP

Today's work environment values an entrepreneurial attitude. Our students learn this attitude and the needed skills in various learning environments, such as BusinessAcademies in Salo and Turku. Student-owned and run co-ops design and implement tailor-made development projects to meet organizations' needs, from short assignments to largescale and longer undertakings. For students, project work provides working life competences and valuable contacts. For companies, the projects offer possibilities to make use of the latest applied research and innovative solutions.



DIGITALIZATION & ICT

Digitalization and ICT belong to the focus areas of TUAS. We are very interested in developing existing processes and creating new innovations utilizing the opportunities provided by digital tools and technologies. We are also studying how the different forms of digitalization, change the internal and external relationships of organizations and, more broadly, their operational environments. Examples of the key expertise areas related to the different aspects of digitalization at TUAS, are eHealth, different UX/UI technologies, cybersecurity and technologies behind the Internet of Things.



HEALTH AND WELL-BEING & HEALTH TECHNOLOGY

The best quality of life is based on the opportunity for a good and healthy life for each resident of the region. To support this, developing well-being is at the core of our activities. With our scientific and artistic expertise and in multiprofessional cooperation with our partners, we continuously produce new, user-oriented and productized well-being solutions.

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Focus themes of the week



SMART MACHINES

Smart Machines research group has two main research areas. One of the areas focuses on energy use, emission of land and sea vehicle and their auxiliary systems. Another research area includes laser welding and welding automation research. The research question can consist of subsystem from land or sea vehicle (e.g. engine, hybrid electric powertrain, heating boilers or heat exchanges). It can also be a complex hybrid powertrain system or energy use optimization. A welding and welding automation research focuses on new laser welding techniques and automation systems that supports welding stations.



NEW ENERGY SOLUTIONS

Energy transition puts new challenges for the energy and mobility sectors. The cross-cutting themes are Energy 3D: Decarbonization, Decentralization and Digitalization. To cover these themes, sustainable production of electricity, decentralized energy systems, storage of electrical energy and e-mobility need to be implemented. TUAS New Energy research group is strongly focusing and developing teaching as well as research activities on these topics. Electrical energy storage systems are important new element of the smart electric grid and sustainable transport. Students at energy and environment as well as mechanical engineering are learning these system in theory and in practical projects. Topics like battery systems in electrical grid, vehicle charging infrastructures and second life of EV batteries are relevant and actual.

Research groups

TUAS research groups are actively participating the week. Please find the research groups listed on our webpage: www.tuas.fi/RDI

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