

INTERNATIONAL SEMESTER 2018-2019

ICT-City unit offers a selection of the following three international semesters:

1. **Game Development Semester**
2. **Embedded System Semester**
3. **ICT Projects & Cybersecurity Semester**

Please note that the choice between the semesters is exclusive; it is not possible to participate in the courses of more than one semester. In addition to the semester courses, the optional courses Get Finternational and Finnish for Exchange Students are available for our exchange students both in autumn and spring term. The total of accomplished credits should be 30 ECTS per semester or 60 ECTS per academic year.

1. Game Development Semester

Description

The Game Development Semester creates interfaces between technology and arts. The courses contain topics in game application development using state-of-the-art platforms and tools. Many of the activities are based on project assignments which train competences in software product development and teamwork.

It is possible to join the semester only for the autumn or spring part, or for a full academic year.

Prerequisites

Fundamental skills in Mathematics, Computer Science, Programming and/or Graphical Design (2D/3D). The semester courses are mainly 3rd year ICT engineering (B.Eng.) courses.

Planned Capacity 2018-2019

Max. 10 exchange students (ECS network students have priority)

Autumn semester 2018

Code	Game Development Semester	ECTS
1002309	Innovation Project (continues in spring, possible to study only 5 cr in the autumn semester)	5
5051150	Game Development (Intro to Game Dev Tools) Continues in spring, possible to study 5 cr	5
5051187	ICT Services & Projects	15

Spring semester 2019

Code	Game Development Semester	ECTS
1002309	Innovation Project	10
5051150	Game Development (Project Course)	5
5051150	Game Development (Game Graphics)	5
1002377	Introduction to Digitalization Virtual course – be studied in autumn too	5
5051272	Internet of Things Workshop OR Research Activities in Turku Game Lab	10

2. Embedded Systems Semester

Description

The Embedded Systems semester focus on software development for microchip controlled devices. The course contents contain programming embedded devices using C programming language. After completing the semester, you are able to design embedded software for standard processor peripherals such as timers, serial controllers and I/O ports. The semester includes several project assignments. It is possible to tailor the courses to focus more on hardware-related topics.

It is possible to join the semester only for the autumn part, or for full academic year.

ECS network students have priority to join the semester.

Prerequisites

Fundamental skills in Mathematics, Computer architecture and Programming. The semester courses are mainly 3rd year ICT engineering (B.Eng.) courses.

Planned Capacity 2018-2019

Max. 10 exchange students (ECS network students have priority)

Autumn semester 2018

Code	Embedded Systems Semester (ECS-cooperation semester)	ECTS
1002309	Innovation Project Continues in spring, possible to study only 5 cr	5
5051155	Embedded Software Continues in spring, possible to study only 5 cr	5
	Electronics Workshop Module is divided in 3 x 5 ECTS parts	15
1002336	- Basic Electronics	5
1002335	- Programming Microcontrollers	5
1002337	- Sensors and Actuators	5

Spring semester 2019

Code	Embedded Systems Semester (ECS-cooperation semester)	ECTS
1002309	Innovation Project	10
5051155	Embedded Software	10
1002377	Introduction to Digitalization Virtual course – be studied in autumn too	5
5051272	Internet of Things Workshop	10

3. ICT Projects & Cybersecurity Semester

Description

The ICT Projects & Cybersecurity semester provides project management and security competences when working in the global digitalized ICT world. The courses present various project management methods, practices for innovations and business creation, and basics of information security and privacy. After completing the semester, you are able to lead and innovate in ICT projects, able to identify security and privacy threats, and able to plan protections against the effects of the threats.

It is possible to join the semester only for the autumn or spring part, or for a full academic year.

Prerequisites

Fundamental skills in Office applications, Programming and Operating systems. The semester courses are mainly 3rd year Business ICT (B.BA.) courses.

Planned Capacity 2018-2019

Max. 10 exchange students (ECS network students have priority)

Autumn semester 2018

Code	ICT Projects & Cybersecurity Semester	ECTS
1002309	Innovation Project Continues in spring, possible to study only 5 cr	5
3011279	Data Protection and Privacy	5
5051187	ICT Services & Projects	15

Spring semester 2019

Code	ICT Projects & Cybersecurity Semester	ECTS
1002309	Innovation Project	10
3011468	Network Security	5
3011369	Information Security Risk Management	5
1002377	Introduction to Digitalization Virtual course – be studied in autumn too	5
5051272	Internet of Things Workshop	10

Optional courses suitable for all exchange students (autumn or spring semester)

Code	Additional recommended courses	ECTS
1000474	Finnish for exchange students	3
1000393	Get Finternational	3