Itä-Suomen ICT-polku

COURSE DATA

BASIC INFO

Name	Computer Systems		
Code	Savonia: ETA7200 Karelia: LTD6032 UEF: 3621253		
Name in Finnish	Tietokonejärjestelmät		
Credits (ECTS)	5	**Grading scale**	0 - 5
Teaching period	1S		
Language	Finnish		
Type	Savonia: mandatory course Karelia: mandatory course UEF/TKT: mandatory course		

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COURSE DESCRIPTION

Objectives	After the course, student understands the principles of operation of the computer and device technology, as well as follow the development of the computer hardware. Student will be able to apply the knowledge gained in maintaining PC hardware and acquiring new equipment. Student will understand the importance of different operating systems and development environments in the ICT sector. Student will understand the theoretical principles and the functioning of the operating system, as well as knows the basics of the most common operating systems, the operating principle and trends. Student understands the principles of virtualization and know how to manage virtual machines Student will be able to install, maintain and manage Windows and GNU / Linux operating systems Student will know and be able to use the key security solutions.
Content	Functions of a computer and computing equipment (functions, structural parts). Common operating systems and application services, virtualization, cloud computing and big data. Installation and commission of the application virtualization. Free software licensing models. Windows and GNU / Linux operating system installation, commissioning and administration remotely. Desktop environments, software installations. Maintenance, management and basics of security in computer systems. Basics of programming command prompt.
Modes of study	The course is done by passing a theory exam and doing the exercises in class. Understanding of the areas to be addressed require a bigger knowledge of the field. Advanced knowledge is tested with special homework. Acceptable performance of the course requires that the student will receive 50% points from the maximum course points. The course contains a lot of practical laboratory work with different computers
Study material	Digital materials informed in the beginning of the course
Teaching methods	Contact/online teaching 48h, estimated total workload 133 hours/student
Prerequisites	Introduction to Computing
Other issues	