



Itä-Suomen ICT-polku

COURSE DATA

BASIC INFO

Name	Computer Systems		
Code	Savonia: ETA7200 Karelia: LTD6032 UEF: 3621251		
Name in Finnish	Tietokonejärjestelmät		
Credits (ECTS)	5	Grading scale	0 - 5
Teaching period	1S		
Language	Finnish, possibly partly English		
Type	Savonia: Mandatory Karelia: Mandatory UEF/TKT: Mandatory		



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COURSE DESCRIPTION

Objectives	<p>Student understands the principles of operation of the computer and device technology, as well as follow the development of the computer hardware.</p> <p>Student will be able to apply the knowledge gained in maintaining PC hardware and acquiring new equipment.</p> <p>Student will understand the importance of different operating systems and development environments in the ICT sector.</p> <p>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.</p> <p>Student understands the principles of virtualization and know how to manage virtual machines</p> <p>Student will be able to install, maintain and manage Windows and GNU / Linux operating systems</p> <p>Student will know and be able to use the key security solutions</p>
Content	<p>Functions of a computer and computing equipment (functions, structural parts)</p> <p>Common operating systems and application services, virtualization, cloud computing and big data.</p> <p>Installation and commission of the application virtualization.</p> <p>Free software licensing models.</p> <p>Windows and GNU / Linux operating system installation, commissioning and administration remotely</p> <p>Desktop environments, software installations</p> <p>Maintenance, management and basics of security in computer systems</p> <p>Basics of programming command prompt.</p>
Modes of study	<p>The course is done by passing a theory exam and doing the exercises in class.</p> <p>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.</p> <p>The course contains a lot of practical laboratory work with different computers.</p>
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	