

Program	Management Information Systems (in English)
Course Code	MIS2103
Course Title	Computer Hardware and System Software
Language of Instruction	English
Type of Course	Compulsory
Theoric	3
Practical	0
ECTS	5
Course Objectives	<p>The aim of this course is to teach the working principle of the computer, the structure and functions of the hardware, the software architectures of the operating systems.</p>
Short Course Content	<p>This course covers the topics of computer hardware, processing of data in machine language, number systems, computer architecture, processor and memory management, computer networks and operating system.</p> <p>The Architecture of Computer Hardware, Systems Software, and Networking: An Information Technology Approach, 5th Edition, Irv Englander, John Wiley and Sons, 2014.</p>
Recommended or Required R	2014.
Learning Outcomes - 1	Understands the working principle of the computer.
Learning Outcomes - 2	Recognize processor architectures.
Learning Outcomes - 3	Knows the machine language equivalent of data.
Learning Outcomes - 4	Recognizes modern computer systems.
Learning Outcomes - 5	Knows operating system architectures.

<b>Planned Learning Activities and Teaching Methods</b>	
<b>WEEK</b>	<b>Course Contents</b>
Week 1	Introduction to computer technology
Week 2	Number systems
Week 3	Data types
Week 4	Integers and decimals in machine language
Week 5	computer architecture
Week 6	computer architecture
Week 7	Processors
Week 8	Midterm(s)
Week 9	Processors and memory management (RAM)
Week 10	Input / output equipment
Week 11	external hardware
Week 12	modern computer networks
Week 13	Computer network protocols and layers
Week 14	operating system architecture
Week 15	operating system architecture
Week 16	Study week
Week 17	Final