

Name of the subject: Informatics I	NEPTUN code: KMXIA4ABNE	Weekly hours: 2 lec+1 gs+ 0 lab	Credit: 5 Req: Examination
Subject leader: Dr. György Schuster	docent	Prerequisites:	
Description of the subject:			
<p>History of informatics. Hardware basics. Structure of computers. Parts their functions, classification, working. Software basics. Software as critical part of success. Software classification. Number systems and calculation with them. Operating system, office systems. Database basics, data models (relational, hierarchical, network like ...). CAE systems and their categories, CAD, CAM, CASE. Life cycles models (seven step model) of software waterfall, cyclic, evolutionary and their features. Measuring of software quality ISO 9126. Special systems. Embedded systems. Integrated information systems. Networking, topology, ISO – OSI TCP/IP models, parts of information systems, servers, system organizing. Special parts of information systems, DMZ, firewalls, ...</p>			
Literature:			
<p>Andrew S Tanenbaum: Computer Networks, Amazon ISBN 0-13-066102-3 Andrew S Tanenbaum: Modern Operating System, Amazon ISBN 0-13-031358-0 Andrew S Tanenbaum: Structured Computer Organization, Amazon, ISBN 0-13-148521-0</p>			
Remarks:			