Name of the subject: **Informatics I**	NEPTUN code: KMXIA5ABNE	**Weekly hours:** 2 lec+1 gs+ 0 lab	**Credit:** 5 **Req:** Examination
Subject leader: **Dr. György Schuster**	**docent**	**Prerequsites:**	

Description of the subject:
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 (seve step model) of software waterfall, cyclic, evolutional 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, ...
Literature:
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   Remarks: