

Name of the subject: <i>Digital Technics</i>	NEPTUN code: <i>KEKDTIABNE</i>	Weekly hours: 2 lec + 0 pr + 0 lab	Credit: 2 Req: end-of-term grade
Subject leader: Dr. Bálint Pődör, CSc	Gradation: (honorary) full professor	Prerequisites:	
Description of the subject:			
<p>This course will give an overview of the basic concepts and applications of digital technics, from Boolean algebra to microprocessors. The material covered roughly corresponds to that contained in the introductory two-semester course of the Hungarian language B.Sc. programme. However in many respects it will go into deeper depths. The lectures will focus more on the general concepts of the subject and less on the practical details. In this respect it is presupposed that the students have already acquired a certain level of hands-on experience in digital electronics.</p> <p>Basic concepts of digital technics. Combinational logic design. Synchronous sequential circuit analysis and synthesis. Arithmetic circuits, adders and multipliers. MOS, CMOS and VLSI digital circuits. Microprocessor basics.</p>			
Literature			
Bálint Pődör: Digital technics (course materials for final year elective English language course), available from the web page of the Institute of Microelectronics and Technology, mti.kvk.uni-obuda.hu			