

TANTÁRGY LAP

TANTÁRGY NEVE: Informatics	KÓDJA(I): Adja meg a tárgy kódját/kódjait!	ÓRASZÁMAI: <table border="1"> <thead> <tr> <th></th> <th><u>ELMÉLET</u></th> <th><u>GYAKORLAT</u></th> <th><u>LABOR</u></th> </tr> </thead> <tbody> <tr> <td><i>NAPPALI:</i> Heti</td> <td>1</td> <td>2</td> <td>0</td> </tr> <tr> <td><i>LEVELEZŐ:</i> Féléves</td> <td>8</td> <td>12</td> <td>0</td> </tr> </tbody> </table>		<u>ELMÉLET</u>	<u>GYAKORLAT</u>	<u>LABOR</u>	<i>NAPPALI:</i> Heti	1	2	0	<i>LEVELEZŐ:</i> Féléves	8	12	0
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KREDITÉRTÉKE: 4 KÖVETELMÉNYE: Évközi jegy	ELŐKÖVETELMÉNYE(I): -----													
TANTÁRGYFELELŐS NEVE: Dr. Bretz Károly János	BEOSZTÁSA: egyetemi adjunktus	KARA ÉS TANSZÉKE: Kandó Kálmán Villamosmérnöki Kar Műszerttechnikai és Automatizálási Tanszék												
ÉRTÉKELÉSI ÉS ELLENŐRZÉSI ELJÁRÁSOK: Évközi jegy (é)														
ISMERETANYAG LEÍRÁSA: IMPORTANT COMMENTS, ADDITIONS: 1: Exercises should be held in a computer lab. 2. 3: The number of hours in the LEVEL course is approximately half of the number of hours in the full-time course, so that the total number of hours in the LEVEL course is 8 theoretical and 12 practical hours per semester. ----- The aim of this course is to provide a comprehensive knowledge and a professional basis in the field of computer science and programming, in order to algorithms and solving problems with algorithms. The subject covers modern The course covers the architecture of modern computers and computer networks, software development trends and methods, computer architectures, operating systems functions. DESCRIPTION OF MATERIAL: Concepts of bits and bytes, number notation, number systems. Numbering in different number systems. Binary representation and storage of floating point numbers in the computer. BOOLE (logical) algebra basics, rules, AND, OR, NOT operations, bit operations, masking. Algorithm theory. Algorithm concepts, algorithm description tools (instructions, branching, front-end test loop, back-end test loop), solution strategies, task decomposition. Simple algorithms, methods of description. Flowchart, structure diagram. Basics of block based programming. Complex algorithms, ordering algorithms (bubble and box ordering). Classification and architecture of computers. HW, SW. Concept of computer network. Classification of computer networks. Network operating systems and their characteristics. Basic concepts of software. Software categories. Software as a critical success factor . Classification of software. Operating systems. Office systems. Database systems. Models, relational, hierarchical, mesh, etc. . CAE systems. Software life cycle. Life cycle models, advantages disadvantages. Measuring software quality. Embedded systems. Integrated IT systems.														
KOMPETENCIÁK: -----														

IRODALOM:

Az oktatók által kiadott segédanyagok.

oktatas.mai.kvk.uni-obuda.hu oldalon található segédanyagok (PDF, VIDEO, mintapéldák).

