Study program: Modern computer technologies

Course title: Microcomputer Systems

Professor/assistant: Zoran Milivojevic / Milos Kosanovic

Type of course: compulsory

ECTS credits: 6

Pre-requisites: none

Aims of the course:
The study of microprocessor architecture, microcontrollers and peripheral modules.

Learning outcomes:
The students will be able to design simple hardware modules based on MCS-51 family microcontrollers. They will also be able to develop and write programs in assembly language for Intel 8086 processors.

Syllabus

Theoretical part:

Practical part: Exercises.
Practical part follows theoretical topics with different examples and practical exercises.

Literature
1. Milivojevic Z., Mikrokontroleri – Arhitektura 8051, Punta, Nis, 2005.

Number of active classes
Lectures: 30 Practical classes: 30 Research work:15

Other forms of teaching:

Teaching methods
Combination of interactive approach with practical examples.

Grading system (maximum 100 points), grading scale from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.

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<th>Pre-exam obligations</th>
<th>points</th>
<th>Final exam</th>
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<tr>
<td>activity during theoretical lectures</td>
<td>10</td>
<td>written exam</td>
<td>30</td>
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<tr>
<td>practical training</td>
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<td>oral exam</td>
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<tr>
<td>colloquium(s)/seminar papers</td>
<td>40</td>
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<td><strong>Sum</strong></td>
<td><strong>70</strong></td>
<td><strong>Sum</strong></td>
<td><strong>30</strong></td>
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