Study program: Modern computer technologies

Course title: Application of Microcontrollers

Professor/assistant: Zoran Milivojević / Nataša Bogdanović

Type of course: elective

ECTS credits: 6

Pre-requisites: Microcomputer systems

Aims of the course:
Hardware, software and mechanical implementation and reparation of devices based on microcontrollers.

Learning outcomes:
The students will be able to:
- solve and design microcontrollers,
- create and repair microcontroller devices.

Syllabus

Theoretical part

Practical part
Laboratory exercises. Project tasks.

Literature
1. Milivojević, Z., Microcontrollers – Architecture 8051, Punta, Niš, 2005. (in Serbian)

Number of active classes

| Lectures: 30 | Practical classes: 30 | Research work: |

Teaching methods
Combination of interactive approach with practical problem solving.

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.

Pre-exam obligations

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<thead>
<tr>
<th>points</th>
<th>Final exam</th>
<th>points</th>
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<tbody>
<tr>
<td>activity during theoretical lectures</td>
<td>10</td>
<td>written exam</td>
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<tr>
<td>practical training</td>
<td>20</td>
<td>oral exam</td>
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<tr>
<td>colloquium(s)/seminar papers</td>
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<tr>
<td>Sum</td>
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