Study program: Modern Computer Technologies
Course title: Client Server Systems
Professor/assistant: Mirko Kosanović, Ph. D
Type of course: compulsory
ECTS credits: 6
Pre-requisites:
Aims of the course:
Getting basic knowledge about interconnect technology.
Learning outcomes:
After the passed exam, the student is enabled to understand and apply modern technologies for interconnecting computers.

Syllabus
Theoretical part
Open processes and systems, standard types and standardization process, network topology and connectivity methods, client server development, client server system components - Client, client software, client server system components - Server, server software, client server connections, protocols for connecting client server systems, client server architectures, client server applications, distributed systems. WWW and WEB services, further development of client server systems.

Practical part
Setting up the network environment and resources, familiarizing with the elements for connecting client server systems, familiarizing with the techniques the client has at their disposal - Clipboard, DDE, OLE, getting familiar with network operating systems - the basics of LINUX.
Getting acquainted with TCP / IP protocol and its basic commands, getting acquainted with single-user and multiuser work, getting acquainted with TCP / IP services TELNET, FTP and ROUTE command, familiarizing with network programming - socket concept, security concept - SSL protocol.

Literature
1. "Klijent server sistemi", M. Kosanović, interna skripta
2. "Klijent server sistemi", interna skripta VETŠ Beograd
5. P. Smith, Steve Guengerich, Client/Server Computing (Second Edition), Published by PHI Learning, 2011

Number of active classes 60

Other forms of teaching:
Lectures: 30 Practical classes: 30 Research work:

Teaching methods
Lectures and practical realization through laboratory exercises.

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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<thead>
<tr>
<th>Pre-exam obligations</th>
<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>
<td>30</td>
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<tr>
<td>colloquium(s)/seminar papers</td>
<td>20+20</td>
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<tr>
<td>Sum</td>
<td>70</td>
<td>Sum</td>
<td>30</td>
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