**Study program:** Modern computer technologies

**Course title:** Network Services

**Professor/assistant:** Dušan M. Stefanović

**Type of course:** elective

**ECTS credits:** 7

**Pre-requisites:** none

**Aims of the course:**
Students should be able to recognize different types, characteristics and functions of network services and successfully install, configure and administer them accordingly.

**Learning outcomes:**
Define different types of network services. Setting, explaining, and using various commands in order to install and set network services. Recognize and explain the usage of different protocols. Explain and deploy services and applications for network operating systems. Setting and explaining different tools for troubleshooting.

**Syllabus**

**Theoretical part**

**Practical part**
Setting basic TCP / IP protocol parameters. TCP / IP basic network services installation and configuration in Packet Tracer and GNS3 software. Network infrastructure configuration in complex network topology.

**Literature**

**Number of active classes**

| Lectures: 30 | Practical classes: 15 | Research work: 15 |

**Other forms of teaching:**

**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>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>20</td>
<td>written exam</td>
<td>30</td>
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<tr>
<td>practical training</td>
<td>10</td>
<td>oral exam</td>
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<tr>
<td>colloquium(s)/seminar papers</td>
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<td><strong>Sum</strong></td>
<td>70</td>
<td><strong>Sum</strong></td>
<td>30</td>
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