**Study program:** Communication Technologies  
**Course title:** Elementary of Telecommunications  
**Professor/assistant:** Srdan Jovković / Milan Savić  
**Type of course:** compulsory  
**ECTS credits:** 6  
**Pre-requisites:**

### Aims of the course:
The aim is to introduce students to basic terms referring to analogue signals; modulation techniques; signal carrier; application of amplitude, phase and frequency modulation; Laplace transform; Fourier transform.

### Learning outcomes:
It is expected that after this course students are able to analyze analogue signals, amplitude, phase and frequency modulation and make rational solutions for various engineering problems and requirements.

### Syllabus

#### Theoretical part

#### Practical part
Introduction to elementary transmission techniques in telecommunication systems.

### Literature

### Number of active classes 60

<table>
<thead>
<tr>
<th>Lectures: 30</th>
<th>Practical classes: 30</th>
<th>Research work:</th>
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</thead>
<tbody>
<tr>
<td>Other forms of teaching:</td>
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### 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.

<table>
<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>5</td>
<td>written exam</td>
<td></td>
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<tr>
<td>practical training</td>
<td>15</td>
<td>oral exam</td>
<td>40</td>
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<tr>
<td>colloquium(s)/seminar papers</td>
<td>30+10</td>
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<td></td>
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<tr>
<td>Sum</td>
<td>60</td>
<td>Sum</td>
<td>40</td>
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