WOODEN STRUCTURES

Subject code: 06.4-WILŚ- BUD- KDRW- IB17
Subject type: Obligatory
Language of instruction: English
Responsible for the subject: Unit currently conducting lectures
Providing education: Department of Building Structures

<table>
<thead>
<tr>
<th>Type of class</th>
<th>Number of classes per semester</th>
<th>Number of classes per week</th>
<th>Semester</th>
<th>Type of credit</th>
<th>ECTS points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>15</td>
<td>1</td>
<td>VI</td>
<td>credit with a grade</td>
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<tr>
<td>Project</td>
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SUBJECT OBJECTIVE:
The objective of the subject is to teach about designing and dimensioning elements of wooden structures.

INITIAL REQUIREMENTS:

SUBJECT SCOPE:

Lecture

Project
Designing elements of wooden structures: wooden ceiling, flat roof, glued girder and roof truss

EDUCATIONAL METHODS:
Lecture - conventional lecture,
EDUCATION RESULTS:

<table>
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<th>Results after completion of the course</th>
<th>Symbol</th>
<th>Verification methods</th>
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<tr>
<td>Knowledge</td>
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<tr>
<td>The student acquires knowledge of methods and techniques for designing elements of wooden structures, such as beams, columns and engineering girders</td>
<td>K_W06, K_W07</td>
<td>Test with points</td>
<td>L</td>
</tr>
<tr>
<td>Abilities</td>
<td></td>
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<tr>
<td>The student can correctly design beam and column elements made of solid and glued laminated wood. The student can design mechanical and glue joints in wooden constructions</td>
<td>K_U09, K_U10</td>
<td>Credits for projects</td>
<td>P</td>
</tr>
<tr>
<td>Social skills</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The student is aware of responsibility for individual work and is ready to comply with the rules of team work</td>
<td>K_K04</td>
<td>conversation during lectures initiated by the teacher</td>
<td>L,P</td>
</tr>
</tbody>
</table>

REQUIREMENTS TO OBTAIN A CREDIT:

Lecture
Credit based on a test with points:
- 50% - 60% correct answers: satisfactory,
- 61% - 70% correct answers: satisfactory plus,
- 71% - 80% correct answers: good,
- 81% - 90% correct answers: good plus,
- 91% - 100% correct answers: very good.

Project
The condition for a credit is a positive grade for all projects (2 projects).

Credit for the subject:
The final grade is the average of the grades: \( G = \frac{(L+P)}{2} \)

STUDENT WORK:

- Interaction with the teacher: 15l+15p +3cons. total = 33 h.
- Preparation for lectures: 10 h
- Projects – individual work: 2proj x 10h = 20 h.
- Total: 33+10+20 = 63 h
- ECTS for the subject: 63/25 = 2.52

ECTS for the subject: 2 ECTS.

BASIC LITERATURE:


COMPLEMENTARY LITERATURE:


SYLLABUS PREPARED BY:
Gerard Bryś Ph.D. Eng.