MODULE INFORMATION SHEET

<table>
<thead>
<tr>
<th>Name of Module Unit</th>
<th>Civil engineering and constructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name in polish language</td>
<td>Budownictwo i konstrukcje inżynierskie</td>
</tr>
<tr>
<td>Module type</td>
<td>compulsory / elective</td>
</tr>
<tr>
<td>Form of studying</td>
<td>full-time day courses</td>
</tr>
<tr>
<td>Level of study</td>
<td>undergraduate course (B.Sc. level)</td>
</tr>
<tr>
<td>Type of study (for extra-mural courses)</td>
<td>-</td>
</tr>
<tr>
<td>Programme</td>
<td>Environmental Engineering</td>
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<tr>
<td>Speciality</td>
<td>Environmental Engineering</td>
</tr>
<tr>
<td>Responsible department</td>
<td>Environmental Engineering Faculty</td>
</tr>
<tr>
<td>Responsible person</td>
<td>Dr inż. Agnieszka Machowska, Dr inż. Paweł Falaciński</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Lectures (E)</th>
<th>Tutorials</th>
<th>Laboratory</th>
<th>Computer Exercises</th>
<th>Projects</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>30 (Exam)</td>
<td></td>
<td></td>
<td></td>
<td>15</td>
<td>4</td>
</tr>
</tbody>
</table>

Objectives (summary)
Student is able to recognize basic terminology, definitions and standards concerning construction, basic load bearing systems of constructions and their elements, criteria for their selection, work of construction systems and their elements, typical technologies, general rules for working and finishing activities as well as the materials provided for these stages.

Prerequisites
Subject is run with an assumption of students having knowledge from “General Mathematics and Physics” Subject

Rules for integrated grade definition
Maximum number of students in a tutorial group is 15. During term, students complete projects – Constructional project of the building in a typical technology and drawings e.g. cross sections and constructional details. Project should be submitted (after min. 3 corrections) no later than on the last meeting before the end of semester. Lectures are followed by the written exam.

Recommended readings
1. Materials for civil construction – Mamlouk Michael
2. Building construction handbook – Chudley Roy
3. Fundamentals of building construction – Allen Edward
4. Environmental handbook for building and civil engineering – Venables Roger
5. Polish construction law
6. Building Standards
### Contents of lectures (syllabus)

<table>
<thead>
<tr>
<th>Topics</th>
<th>Time (hrs.)</th>
<th>Scope (S / Ex)</th>
</tr>
</thead>
</table>
| 1. general terminology, definitions and standards of buildings  
2. requirements for buildings and building products in the frame of law  
3. protection and construction part of the building – loads working on the building  
4. types of building constructions, load bearing systems  
5. building materials  
6. construction details: roof, floor, wall, staircase, foundation  
7. insulation: damp, waterproof, thermal | 30 | S |

**Total 30 hours**

*S – topics listed in the legal study programme standards from 12.07.2007  
Ex – extended topics*

**Lecturers**

Dr inż. Agnieszka Machowska, Dr inż. Paweł Falaciński

**Assessment method**

Lectures are followed by the written exam.

### Contents of guided projects

<table>
<thead>
<tr>
<th>Topics</th>
<th>Time (hrs.)</th>
<th>Scope (S / Ex)</th>
</tr>
</thead>
</table>
| 1. Project of a masonry building:  
1. Wood construction of the roof  
2. Design of ceiling  
3. Thermal insulation of selected part of the building  
4. Foundation design  
5. Cross section of the building (scale: 1:50) | 15 | S |

**Total 15 hours**

*S – topics listed in the legal study programme standards from 12.07.2007  
Ex – extended topics*

**Persons responsible for guided projects**

Dr inż. Agnieszka Machowska, Dr inż. Paweł Falaciński

**Assessment method for guided projects**

Till the end of term; every project should have 3 corrections. Total project must be printed in scale 1:50.