

**Building Construction III.****Code: MF MAG33SS4-EN****ECTS Credit Points: 4****Evaluation: exam**Year, Semester: 3<sup>rd</sup> year/2<sup>nd</sup> semester

Number of teaching hours/week:

Lecture: 2

Practice: 2

**Prerequisites:** Building Construction II: MF MAG32SS4-EN**Topics:**

External - independent and built-together - stairs. Structural alternatives of internal stairs. Stone steps. Prefabricated RC, steel and wooden stairs. Accessories of stairs. Foundation and subsoil insulation. Building constructional considerations in selecting foundation mode. Subs, protecting and supporting structures for insulations. Insulating variants for different effects and requirements (coating, felt, expanding and mass insulations). Flat roofs. Main functional and additional layers. Sub protection against wind suction. Draining vapor pressure. Plastic and coating-like waterproofing. Utilized flat roofs. Roof terraces with conventional and elastically bedded finishes. Variants of green roofs, functional layers. Waterproofing against functional water types.

In seminar there are six tasks to elaborate: 3 homework drawings and 3 workshop drawings.

**Literature:**

AMBROSE, James E.: Building structures, ISBN 0471540609 Wiley, New York 1993.

BÖHÖNYEY, J.: Building construction encyclopedia. Iparterv, Budapest 1986.

**Schedule**

<p><b>1<sup>st</sup> week:</b>  <b>Lecture:</b> Stairs 1.  <b>Practice:</b> issuing task 1 (homework drawing).  Elaborating workshop drawing 1.</p> <p><b>2<sup>nd</sup> week:</b>  <b>Lecture:</b> Stairs 2.  <b>Practice:</b> consultation of task 1 (homework drawing)</p> <p><b>3<sup>th</sup> week:</b>  <b>Lecture:</b> Stairs 3.  <b>Practice:</b> consultation of task 1 (homework drawing)</p> <p><b>4<sup>th</sup> week:</b>  <b>Lecture:</b> Foundation and subsoil insulation 1.  <b>Practice:</b> consultation of task 1 (homework drawing)</p> <p><b>5<sup>th</sup> week:</b>  <b>Lecture:</b> Foundation and subsoil insulation 2.  <b>Practice:</b> submitting task 1 (homework drawing). Elaborating workshop drawing 2.</p>	<p><b>6<sup>th</sup> week:</b>  <b>Lecture:</b> Foundation and subsoil insulation 3.  <b>Practice:</b> Issuing task 2 (homework drawing).  Elaborating workshop drawing 3.</p> <p><b>7<sup>th</sup> week:</b>  <b>Lecture:</b> Foundation and subsoil insulation 4.  <b>Practice:</b> consultation of task 2 (homework drawing)</p> <p><b>8<sup>th</sup> week:</b>  <b>Lecture: Mid-term test</b>  <b>Practice:</b> consultation of task 2 (homework drawing)</p> <p><b>9<sup>th</sup> week:</b>  <b>Lecture:</b> Flat roofs 1.  <b>Practice:</b> consultation of task 2 (homework drawing)</p> <p><b>10<sup>th</sup> week:</b>  <b>Lecture:</b> Flat roofs 2.  <b>Practice:</b> submitting task 2 (homework drawing). Issuing task 3 (homework drawing).</p>
<p><b>11<sup>th</sup> week:</b>  <b>Lecture:</b> Flat roofs 3.  <b>Practice:</b> consultation of task 3 (homework</p>	<p><b>13<sup>th</sup> week:</b>  <b>Lecture:</b> Waterproofing against functional waters.</p>

drawing)  <b>12<sup>th</sup> week:</b> <b>Lecture:</b> Flat roofs 4. <b>Practice:</b> consultation of task 3 (homework drawing)	<b>Practice:</b> consultation of task 3 (homework drawing)  <b>14<sup>th</sup> week:</b> <b>Lecture:</b> Building visit <b>Practice:</b> submitting task 3 (homework drawing).  <b>15<sup>th</sup> week:</b> <b>End-term test</b>
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### Requirements

#### A, for a signature:

Attendance at **lectures** is recommended, but not compulsory.

Participation at **practice classes** is compulsory. Students must attend the practice classes and may not miss more than three times during the semester. In case a student does so, the subject will not be signed and the student must repeat the course. Students can't make up a practice with another group. Attendance at practice will be recorded by the practice leader. Being late is counted as an absence. In case of further absences, a medical certificate needs to be presented. Students are required to bring the drawing tasks and drawing instruments for the course to each practice. Active participation is evaluated by the teacher in every class. If a student's behavior or conduct doesn't meet the requirements of active participation, the teacher may evaluate his/her participation as an absence due to the lack of active participation in class.

Students have to **submit all the six drawing tasks** as scheduled minimum at a sufficient level.

During the semester there are two tests: the mid-term test in the 8<sup>th</sup> week and the end-term test in the 15<sup>th</sup> week. Students have to sit for the tests.

Homework drawings:	3 x 25 points = 75 points
Tests:	2 x 25 points = 50 points
<u>Workshop drawings:</u>	<u>bonus points (max. 5, for all)</u>
Mid-semester points $\Sigma$	125 points

For signature students must achieve more than 50% of points (63 points).

#### B, for a grade:

The course ends in an **exam (ESE)**.

Mid-semester points:	125 points
<u>Colloquium (ESE):</u>	<u>50 points</u>
$\Sigma$	175 points

Score	Grade
0-87	fail (1)
88-109	pass (2)
110-131	satisfactory (3)
132-153	good (4)
154-175	excellent (5)