

<b>BME, Faculty of Architecture</b>		<b>Department of Mechanics, Materials and Structures</b>	
<b>Subject:</b> Basics of Structural Design	<b>Code:</b> BME EPST 0151	<b>Credits:</b> 2	<b>Mark:</b> midterm
<b>MSc subject</b>	2021/2022 autumn		
<b>Responsible person for the subject: Dr. HEGYI Dezső</b> <b>Practicals: VAJK Rita, Dr. VETŐ Dániel</b>			

## Schedule

week	date	date	<b>Practicals:</b> Wednesday 14:15-16:00
1.		08.09.	1. Statics (support reaction forces, internal forces)
2.		15.09.	2. Strength of materials (inertia, stresses, elastic and plastic calculation)
3.		22.09.	<i>Holiday (BME Student Day – Sport's Day)</i>
4.		29.09.	3. Strength of materials (statically indeterminate structures)
5.		06.10.	4. Elastic and plastic behaviour of statically indeterminate structures, RC structures
6.		13.10.	5. Loading schemes, bending and shear in reinforced concrete structures
7.		20.10.	<i>Holiday (Preliminary Design Week)</i>
8.		27.10.	<i>Holiday (Architectural Professional Day)</i>
9.		03.11.	6. Central and eccentric compression in steel and timber columns
10.		10.11.	7. Central and eccentric compression in reinforced concrete columns
11.		17.11.	8. Frames, Finite Element Method
12.		24.11.	9. Arches, Finite Element Method
13.		01.12.	<b>FINAL TEST (open book)</b>
14.			<i>Draughting week</i>
15.			<i>Late completion week</i>

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## Requirements

<b>Requirements for study:</b>	Enroll in the course in Neptun system.																									
<b>Midterm activities:</b>	<p>Practicals:</p> <ul style="list-style-type: none"> <li>real-time solution of practical problems</li> <li>available practical lesson materials (uploaded every week)</li> <li>consultation (in the time of practical lessons)</li> <li>practical problems for bonus points (max. 24 points)</li> <li>final test (open book)</li> </ul> <p>Materials are uploaded to the Moodle system (edu.epitesz.bme.hu). Weekly live consultation is organised in the time of practicals. For information and for a possible online part of the semester the subject has a Teams channel: gi47p1o</p>																									
<b>Presence:</b>	The presence on practicals is not checked by the teachers.																									
<b>Mark:</b>	1 final test (open book), 90 minutes, max. 100 points (0 point in case of absence). Repetition – if needed – is possible on Late Completion Week. Bonus points are added to the points of final test.																									
<b>Requirements for signature:</b>	Min. 50 points (calculated without bonus points) for final test should be reached.																									
<b>The midterm mark:</b>	<p>The midterm mark is derived from the result of the final test plus the bonus points. The limits are the following:</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td style="text-align: right;">90</td> <td style="text-align: center;">–</td> <td style="text-align: right;">100</td> <td style="text-align: left;">Excellent</td> <td style="text-align: right;">(5)</td> </tr> <tr> <td style="text-align: right;">75</td> <td style="text-align: center;">–</td> <td style="text-align: right;">89</td> <td style="text-align: left;">Good</td> <td style="text-align: right;">(4)</td> </tr> <tr> <td style="text-align: right;">60</td> <td style="text-align: center;">–</td> <td style="text-align: right;">74</td> <td style="text-align: left;">Satisfactory</td> <td style="text-align: right;">(3)</td> </tr> <tr> <td style="text-align: right;">50</td> <td style="text-align: center;">–</td> <td style="text-align: right;">59</td> <td style="text-align: left;">Pass</td> <td style="text-align: right;">(2)</td> </tr> <tr> <td style="text-align: right;">&lt;</td> <td></td> <td style="text-align: right;">50</td> <td style="text-align: left;">Fail</td> <td style="text-align: right;">(1)</td> </tr> </table>	90	–	100	Excellent	(5)	75	–	89	Good	(4)	60	–	74	Satisfactory	(3)	50	–	59	Pass	(2)	<		50	Fail	(1)
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<b>Recommended study aids:</b>	Useful materials can be found in the Moodle system. For students who also attend classes of Special Load-bearing Structures, it is recommended to use the materials of that subject.																									