

<b>BUTE, Faculty of Architecture</b>		<b>Dept. of Mechanics, Materials, and Structures</b>	
<b>Title of subject: Introduction to structural design</b>		<b>Code of the subject: BME EP STA 101</b>	
<b>Form of examining: exam</b>	<b>Credit point: 2</b>	<b>1<sup>st</sup> term</b>	
<b>Lecturer teacher: Dr. Peter Várkonyi</b>		<b>Teaching assistant: Krisztina Tóth</b>	

## SCHEDULE 2017/2018 FALL

<b>NO. OF WEEK</b> date	<b>CLASS: Tuesday 10.15 – 12.00-ig, K391</b>
<b>1.</b> Sept.5.	Introduction, vectors
<b>2.</b> Sept.12.	Equilibrium of a point mass in plane
<b>3.</b> Sept. 19.	Equilibrium of a planar body in plane
<b>4.</b> Sept. 26.	Constraints, supports; concentrated moment
<b>5.</b> Okt. 3.	Distributed forces, resultant of forces; reduction to a point
<b>6.</b> Okt. 10.	centroid, center of mass
<b>7.</b> Okt. 17.	-
<b>8.</b> Okt. 24.	<b>TEST 1</b> (Equilibrium of planar rigid object in plane) Equilibrium of complex structures
<b>9.</b> Okt. 31.	Equilibrium of complex structures Three-hinged structures
<b>10.</b> Nov. 7.	Statical determinacy
<b>11.</b> Nov. 14.	Global equilibrium Linear superposition
<b>12.</b> Nov. 21.	Loads
<b>13.</b> Nov. 28.	<b>TEST 2</b> (reaction and connecting forces of statically determinate structures) Summary
<b>14.</b> Dec. 5.	-
<b>15.</b> Dec. 13! Wednesday	<b>Repetition of Test 1: 10.15-11.00</b> <b>Repetition of Test 2: 11.15-12.00</b>

**TESTS:** are written between 10.15 and 11.00. They are followed by a regular class at 11.15-12.00.

**STUDY AID:** lecture notes at website of department

## REQUIREMENTS 2017/2018 FALL

<b>PRELIMINARY CONDITIONS</b>	Registration for the subject in Neptun																									
<b>Type of classes:</b>	Lectures and tests. Presence is not obligatory but strongly advised. Compensation for missed activities is the sole responsibility of the students. The students should take notes on lectures.																									
<b>Tests:</b>	There are two 45 min. closed book tests for max. 120 points each. Both tests should be at least 60 points for successful fulfilment. Both tests may be repeated once. Students must identify themselves by Photo ID card during the tests.																									
<b>Conditions of signature:</b>	<ul style="list-style-type: none"> <li>– Fulfilling the requirements of the subject.</li> <li>– Both tests should be at least 60 points.</li> </ul>																									
<b>Conditions of applying for the exam:</b>	<ul style="list-style-type: none"> <li>– Valid registration for the exam date in the Neptun system</li> <li>– Obtaining the signature for the subject</li> <li>– Showing a Photo ID at the beginning of the exam</li> <li>– In case of absence in the exam, an extra fee must be paid, which is inflicted by the Student Office.</li> </ul>																									
<b>Examination:</b>	The written exam is 90 minutes long and it has only one part. No study aids can be used during the exam. The semester point can be at most 120 points. In the exam further 120 points can be obtained. In the exam at least 60 points should be achieved.																									
<b>Repetition of the exam:</b>	In case of unsuccessful exam the exam can be repeated once respecting the conditions of applying for the exam. Repetition of successful exams is allowed according to the regulation 16.§. of the Code of Studies and Exams.																									
<b>Subject mark:</b>	Exam mark, according to the maximal 240 points: <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td style="padding-right: 10px;">0</td> <td style="padding-right: 10px;">–</td> <td style="padding-right: 10px;">119</td> <td style="padding-right: 10px;">fail</td> <td style="padding-right: 10px;">(1)</td> </tr> <tr> <td>120</td> <td>–</td> <td>149</td> <td>pass</td> <td>(2)</td> </tr> <tr> <td>150</td> <td>–</td> <td>169</td> <td>satisfactory</td> <td>(3)</td> </tr> <tr> <td>170</td> <td>–</td> <td>199</td> <td>good</td> <td>(4)</td> </tr> <tr> <td>200</td> <td>–</td> <td>240</td> <td>excellent</td> <td>(5)</td> </tr> </table>	0	–	119	fail	(1)	120	–	149	pass	(2)	150	–	169	satisfactory	(3)	170	–	199	good	(4)	200	–	240	excellent	(5)
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### Extra points:

Students may obtain **extra points**, which are added to the exam points. These points can be obtained by solving optional excercises during the semester.