BME, Faculty of Architecture	Department of Mechanics, Materials and Structures		
Subject: **Basics of Structural Design**	**Code:** **BME EPST 0151**	**Credits:** **2**	**Mark:** **midterm**
MSc subject	**2019/2020 autumn**		
Responsible person for the subject: Dr. HEGYI Dezső	**Practicals: Dr. VETŐ Dániel**		

Schedule

week	date		date	**Practicals:** Wednesday 14:15-16:00 **K. 391.**
1.			**11.09.**	1. Introduction, basics of structural design
2.			**18.09.**	2. Simply supported beam
3.			**25.09.**	3. Simply supported beam with cantilever
4.			**02.10.**	4. Beam with three supports
5.			**09.10.**	*Holiday*
6.			**16.10.**	5. Continuous beam with several supports
7.			**23.10.**	*National Holiday*
8.			**30.10.**	6. Bending in reinforced concrete structures
9.			**06.11.**	7. Shear in reinforced concrete structures, centrally compressed reinf. concr. columns
10.			**13.11.**	8. Central and eccentric compression in steel and timber columns
11.			**20.11.**	9. Eccentrically compressed reinforced concrete columns
12.			**27.11.**	10. Frames, Vierendeel-structures, arches
13.			**04.12.**	**FINAL TEST** **(open book)**
14.				*Project week*
15.				*Repetition week*

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Requirements

Requirements for study:	Enroll in the course in Neptun system.
Midterm activities:	Practicals: practical lessons final test (open book)
Presence:	At least 70% presence at practicals. The presence is checked by the teachers.
Mark:	1 final test (open book), 90 minutes, max 100 points (0 point in case of absence). Repetition – if needed – is possible on repetition week.
Requirements for signature:	– Presence on at least 70% of practicals. – Min. 50 points for final test.
The midterm mark:	The midterm mark is derived from the result of the final test. The limits are the following: 90 – 100 Excellent (5) 75 – 89 Good (4) 60 – 74 Satisfactory (3) 50 – 59 Pass (2) < 50 Fail (1)
Recommended study aids:	Useful materials can be found on the homepage of the Department (http://szt.bme.hu/index.php/en/downloads). For students who also attend classes of Special Load-bearing Structures, it is recommended to use the materials of that subject.