



Requirements of the subject, 2017/18 1st semester

Civil engineering representation preparatory course

Technical drawing

BUTE Department of Construction Materials and Technologies				
1. Name of the subject, code	Technical drawing(BMEEOMEPRE2) 3 main parts: 1. Basics of geometry 2. Technical drawing 3. Applications of technical drawings			
2. Character of the subject	compulsory			
3. Lecture/Practice/Credit/Exam or Semester mark	2/2/.S			
4. Requirement of preliminary study	none			
5. Suggested semester	1 st preparatory course			
6. Availability in the opposite semester	No			
7. Lecturer	Dr. Annamaria DUDÁS			
8.a Attendance of lectures	70 %			
8.b Attendance of practice lessons	70 %			
8.c Checking of attendance	On all occasions			
9. Conditions of signature	Adequate attendance, passing the tests, home assignment tasks submitted in due time, marks of tasks min 2,0			
10.a. Control tests (max. 30 min.)	1) 3 rd Oct 2017, 2) 7 th Nov 2017			
10.b. 2 nd opportunities to pass control tests	1rep) 25 th Oct 2017, 2rep) 22 nd Nov 2017			
11.a. Date of semester test	28 th Nov 2017			
11.b. 2 nd opportunity to pass semester test	6 th Dec 2017			
11.c. Latest opportunity to pass semester test	15 th Dec 2017 (Friday) 12 am			
12.a. Dates of handing out Home assignments	4 tasks – 4 pages of A/3 drawings			
	13 th Sept	27 th Sept	11 th Oct	25 th Oct
13.a. Dates of handing in Home assignments	26 th Sept	10 th Oct	24 th Oct	21 st Nov
13.b. Latest opportunity of handing in exercises	3 rd Oct	17 th Oct	31 st Oct	28 th Nov
14. Character of the exam	-			
15. Calculation of the mark	Control tests: 2 x 15 %, Home Assignments: 4 x 5 %, Sem. test: 50 %			
16. Conditions of passing the subject	pass mark to the 2 control tests, to the assignments and to the exam, pass mark from the average calculated as in line 15.			
17. Materials to be used in test, at the exam	Drawing instruments, sheets distributed for the test			
18. Notes and books recommended for the subject	Giesecke, Mitchell, Spencer, Hill, Dygdon, Novak: Technical drawing, Pearson, 2003			
19. Number of hours required from student	Lecture: 2×14=28; seminar 2×14=28; Preparing the tasks: H.A.: 4 x 5=20; Studying for control test: 2 x 7, for semester test: 20 hours; Total 120 hours			

This study requirement is valid only together with the dated schedule.



Short program of the subject, 2017/18 1st semester

Civil engineering representation preparatory course

Technical drawing

Lectures (2 classes / week) & Practice lessons (2 classes / week)			
Tuesdays 10-12		Wednesdays 8-10	
G1 5 th Sept	Types of technical drawing tools, list of necessary tools Basics of geometry: positions of lines, angles, planes	G2 6 th Sept	Types of rulers and pencils, applications, methods, drawing, redrawing, coloured pencils, patterns Drawing of parallels, perpendiculars
12 th Sept	Types of lines, meanings and application Practice: construction lines Construction of angles: bases	G3 13 th Sept	Parallel ruler: fixing; Angles: measuring, using compass, construction of angles: 60°, 90°, 120°, 30°, 45° Hand out of 1st H.A. drawing task
G4 19 th Sept	Construction of angles (135°, 225°, etc.) Technical writing, technical letters: introduction, application, practice	G5 20 th Sept BREAK!	Break (Sport Day) Parallel ruler: application Drawing of text frame, namebox
G6 26 th Sept	Construction of geometrical forms: triangles, rectangles, squares HAND IN of 1st H.A. drawing task	G7 27 th Sept	Construction of geometrical forms: triangles, rectangles, squares, parallelograms, circle → ellipse, Parallel ruler: application Test review Hand out of 2nd H.A. drawing task
T1 3 rd Oct	1st CONTROL TEST 30 minutes Technical writing practice	T2 4 th Oct	Construction of cover folder; Technical writing practice; Copy task – magnifying
T3 10 th Oct	2D, 3D representation, System of orthogonal projection HAND IN of 2nd H.A. drawing task	T4 11 th Oct	3D, axonometric views, Practicing drawing tasks Hand out of 3rd H.A. drawing task
T5 17 th Oct	System of orthogonal projection (simple examples, practicing)	T6 18 th Oct	System of orthogonal projection (simple examples, practicing)
T7 24 th Oct	Scales: representation of a room or flat in sketch (small scale), in construction (1:50, 1:100) HAND IN of 3rd H.A. drawing task	T8 25 th Oct	Copying of a ground plan and an elevation view of a small building (techniques) Hand out of 4th H.A. drawing task Repetition of control test
T9 31 st Oct	Copying of a ground plan of a small traditional living house in scale 1:100	T10 1 st Nov BREAK!	Break Furnishing plan Representation of diagrams, figures
T11 7 th Nov	2nd CONTROL TEST 30 minutes Ground plan of a small building	T12 8 th Nov	Ground plan of a small building
T13 14 th Nov	2D → 3D special reasoning exercises Basics of descriptive geometry	T14 15 th Nov	2D → 3D special reasoning exercises.
T15 21 st Nov	2D → 3D special reasoning exercises. HAND IN of 4th H.A. drawing task	AP1 22 nd Nov	Envelope (construction, cutting out, sticking, addressing) Repetition of control test
T16 28 th Nov	SEMESTER TEST 90 minutes	29 th Nov	Practice, test review
AP2 5 th Dec	Picture mount (passe-partout) (construction, cutting out, sticking on an optional picture)	6 th Dec	Repetition of semester test Representation of plans at the corridors of K. bldg., Preparation for other subjects

There are no classes on 20th Sept & 1st Nov. This has to be considered while scheduling the classes.