COURSE SYLLABUS AND COURSE REQUIREMENTS ACADEMIC YEAR 2022/2023 SEMESTER 2ND

Course title	Construction management 3.
Course Code	MSB059AN
Hours/Week: le/pr/lab	1/1/0
Credits	2
Degree Programme	Civil Engineering Bsc
Study Mode	full time course
Requirements	examination grade
Teaching Period	6 th
Prerequisites	Construction management 1. MSB057AN,
	Construction management 2. MSB058AN
Department(s)	Department of Engineering Studies
Course Director	Balázs Füredi dr.
Teaching Staff	Balázs Füredi dr.
	Szabolcs Patyi
	Balázs Novák

COURSE DESCRIPTION

Neptun: Instruction/Subjects/Subject Details/Basic data/Subject description

The subject of Construction Management 3 provides theoretical and practical training in the civil engineering BSc degree program. During the lectures and practical sessions of the semester, students will gain competitive knowledge in the field of construction implementation and construction management. Building modelling, quantity calculation, costing and budgeting, workplace scheduling, organizational deployment make up the tasks of the semester for students.

SYLLABUS

Neptun: Instruction/Subjects/Subject Details/Syllabus

1. GOALS AND OBJECTIVES

Neptun: Instruction/Subjects/Subject Details/Syllabus/Goal of Instruction

The course will focus on:

- Developing engineering thinking

- Creation and development of a digital building models

- Learning how to prepare a budget

- Getting to know the basics of workplace organization planning (Site plan)

2. COURSE CONTENT

Neptun: Instruction/Subjects/Subject Details/Syllabus/Subject content

TOPICS

LECTURE	1.	topic: cost estimation
	2.	topic: basic of project management, participants of the construction
	3.	topic: project phases, scheduling
	4.	topic: public procurement in construction industry
	5.	topic: time planning
	6.	topic: post occupancy evaluation, quality management
PRACTICE	1.	topic: cost estimation
	2.	topic: construction workflow and time planning

During the lectures and practices students will learn all of the topics which are in the previous "TOPICS" schedule. Besides the lectures, they are going to attend construction site visits where they can learn the practical knacks of the trade. *Important note: Taking into account the meteorological conditions and the currently valid legal regulations and the possible pandemic situation in Hungary, as well as the mandatory university closures, the practical site visits may be modified.*

The requirements are issued according to the course syllabus, which are uploaded to the Neptun and MS Teams interfaces of the course, as well as to the "witch" server of the Faculty, together with the lecture materials and help documents. Information related to the subject will also be available on these interfaces.

DETAILED SYLLABUS AND COURSE SCHEDULE

LECTURE

week	Торіс	Compulsory reading;	Required tasks	Completion date,
		(from to)	tests, etc.)	due date
1.	Introduction. The syllabus of the semester.	lecture notes	-	09.02.2023.
2.	-	-	-	
3.	Cost estimation. The system of cost	lecture notes	preparation from	23.02.2023.
	management, cost calculation.		the previous lecture	
4.	-	-	-	
5.	Basic of Project Management. Construction	lecture notes	preparation from	09.03.2023.
	project management. Participants of the construction		the previous lecture	
6.	-	-	-	
7.	Project phases I. Project phases II.	lecture notes	preparation from	23.03.2023.
	Scheduling I. Start-up of the construction		the previous lecture	
	project – architectural competition.			
	Tendering, contracting, construction.			
8.	-	-	-	
9.	SPRING BREAK	-	-	06.04.2023.
10.	-	-	-	
11.	Public procurement: PM in construction	lecture notes	preparation from	20.04.2023.
	industry. Example of contract notice.		the previous lecture	
12.	-	-	-	
13.	Scheduling II. Time planning. Composing an	lecture notes	Midsemester test	04.05.2023.
	PM network		different time of the	
			lecture	
14.	-	-	-	
15.	Post Occupancy Evaluation. Quality	lecture notes	Replied	18.05.2023.
	management.		midsemester test	
			lasture	
			lecture	

PRACTICE

week	Торіс	Compulsory reading; page number (from to)	Required tasks (assignments, tests, etc.)	Completion date, due date
1.	Datasheet and introduction of the term.	practice notes, help documents	-	09.02.2023.
2.		-	-	-
3.	Cost estimation, 1th task.	practice notes, help documents	preparation from the previous practice	23.02.2023.
4.		-	-	
5.	Consultation	practice notes, help documents	preparation from the previous practice	09.03.2023.
6.		-	-	
7.	Consultation	practice notes, help documents	preparation from the previous practice	23.03.2023.
8.		-	-	
9.	SPRING HOLIDAY	-	-	06.04.2023.

10.		-	-	
11.	Consultation. Time planning of the building	practice notes, help	dealine of the 1^{st}	20.04.2023.
	construction, 2nd task	documents	task	
12.		-	-	
13.	Consultation	practice notes, help	preparation from	04.05.2023.
		documents	the previous	
			practice	
14.		-	-	
15.	Deadline of the tasks	practice notes, help	deadline of the	18.05.2023.
		documents	tasks	

3. ASSESSMENT AND EVALUATION

(Neptun: Instruction/Subjects/Subject Details/Syllabus/Examination and Evaluation System)

ATTENDANCE

In accordance with the Code of Studies and Examinations of the University of Pécs, Article 45 (2) and Annex 9. (Article 3) a student may be refused a grade or qualification in the given full-time course if the number of class absences exceeds 30% of the contact hours stipulated in the course description.

Method for monitoring attendance

Method for monitoring attendance: attendance sheet, which led to lectures and practices, every time

ASSESSMENT

Course-unit with final examination

Mid-term assessments, performance evaluation and their weighting as a pre-requisite for taking the final exam

(The samples in the table to be deleted.)

	Туре	Assessment	Weighting as a proportion of the pre-requisite for taking the exam
1.	Cost estimation	max 30 points	50%
2.	Time planning	max 20 points	
3.	Test	max 28 points	
4.	Attendance at lectures and laboratory practices	max 14 points	
5.	Visiting optional construction site tours	max 8 points	
6.	Exam	max 100 points	50 %

Requirements for the end-of-semester signature

The conditions for successful completion of the semester are active class attendance, attendance at construction site visits in appropriate protective equipment, and successful completion of the mid-semester test and the exam.

Certified attendance at practical sessions is done in accordance with the regulations laid down in the topic! The practice leaders keep an attendance sheet/consultation sheet, with published and not attended/didn't prepare for class. The maximum number of absences allowed during practical classes is 30% according to the Annex 5 of the Statutes of the University of Pécs, the Code of Studies and Examinations (CSE) of the University of Pécs shall prevail (https://english.mik.pte.hu/codes-and-regulations), 2 occasion.

During the semester, students report on their work and knowledge several times.

Attendance at lectures and laboratory practices are worth a total of 14 points during the semester in a distribution of 7 points each.

During the semester, we organize on-site visits and construction visits, with an educational purpose. Their time and group assignments are determined individually and announced during the first education week. During the semester, the student can confirm his participation in two optional tours of the construction site at a time determined in advance by the instructors by signing the attendance led by the Organizer. Therefore, 4-4 points are awarded, which are included in the semester score.

Re-takes for the end-of-semester signature

The semester closes at the end of the 15th week. Mid-semester tests that do not reach the minimum score can be corrected once during the due diligence period.

Points of exam:	
85 p – 100 p 85-100% (5, e	excellent)
70 p – 85 p 70-85% (4, gc	od)
55 p – 70 p 55-70% (3, av	varage)
40 p – 55 p 40-55% (2, sa	tisfactory)
0 p – 40 p -40% (1, fail)	

Type of examination (written, oral): oral

The exam is successful if the result is minimum 40 %. (The minimum cannot exceed 40%.)

Calculation of the grade (TVSz 47§ (3))

The mid-term performance accounts for **50** %, the performance at the exam accounts for **50** % in the calculation of the final grade.

Calculation of the final grade based on aggregate performance in percentage.

Course grade	Performance in %
excellent (5)	85 %
good (4)	70 % 85 %
satisfactory (3)	55 % 70 %
pass (2)	40 % 55 %
fail (1)	below 40 %

The lower limit given at each grade belongs to that grade.

4. SPECIFIED LITERATURE

(In Neptun ES: Instruction/Subject/Subject details/Syllabus/Literature)

COMPULSORY READING AND AVAILABILITY

[1.] R. Chudley, R. Greeno - Building construction handbook seventh edition (2008), ISBN: 978-0-7506-86228 <u>RECOMMENDED LITERATURE AND AVAILABILITY</u>

[1.] Sidney Levy - Construction process planning and Management (2010), ISBN : 978-1-85617-548-7

[2.] Emad Elbeltagi - Lecture notes on construction project management (2009)

[3.] S.W. Nunnally - Construction Methods and Management (2007), ISBN 0-13-171685-9

[4.] Frank R. Dagostino, Steven J. Peterson - Estimating in Building Construction (2011), ISBN-13: 978-0-13-119952-1

[5] Københavns Erhvervsakademi and VIA University College, Horsens(E-BOOK) (2011)