

ENVIRONMENTAL EFFECTS AND BUILDING CONSTRUCTION

2025/26. 2ND SEMESTER

MAIN INFORMATION			
COURSE NAME	Környezeti hatások és épületszerkezetek		Environmental effects and building construction
COURSE CODE(S)	YARKHÉFBNF		
DEPARTMENT	Óbuda University, Ybl Miklós Faculty of Architecture, Institute of Architecture		
PROGRAMME, TRAINING	-		full time
COURSE DIRECTOR INSTRUCTOR (Instructor directing the subject)	Gergely Vizi, assistant professor	vizi.gergely.norbert@ybl.uni-obuda.hu	Your office hours during the study period: According to the institute's website
INSTRUCTORS, LECTURERS			
PRE-REQUIREMENT	-		
HOURS OF LECTURES (WEEKLY)	2 hours		
CLASSROOM PRACTICE/ LABORATORY PRACTICE (WEEKLY)	0 hours		
FIELD AND FIELD INTERNSHIP (WEEKLY)	0 hours		
METHOD OF ASSESSMENT	Mid-term assignment		
CREDIT POINTS TO BE EARNED	5 credits		
BRIEF DESCRIPTION	<p>To get to know and recognize the natural and artificial environmental effects in our built environment. To find architectural tools to deal with them. Deepening personal responsibility for the protection of the environment in design and construction practice.</p> <p>In the framework of the subject, we examine the above with lectures and after the lectures in the framework of an interactive discussion. We examine what impact we have on our environment and how our environment affects us from a health and comfort point of view. We look at methods that can be used to reduce or eliminate environmental - whether artificial or natural - effects, even temporarily, e.g. in the case of surgery or sterile industrial needs (clean spaces).</p>		

RECOMMENDED LITERATURE	Our Ecological Footprint: Reducing Human Impact on the Earth: Williams E. Rees; How to Give Up Plastic by Will McCallum; The Architecture of Sound: Acoustic Design For Buildings by Robert Bullen; Health Hazards of Electromagnetic Radiation by Dr Bruce Fife; https://www.thestructuralengineer.info/education/structure-types/protective-structures
TECHNICAL EQUIPMENT REQUIRED	<p>In the case of online education: Contact: Neptun system, E-learning and E-mail. Teaching materials: According to the information available in the e-learning system.</p> <ul style="list-style-type: none"> Holding classes: On the links indicated in the e-learning system, in the Zoom, Teams, Big Blue Button, etc. system

SCHEDULE OF THE SEMESTER				
WEEK	LECTURE	LECTURER		
1 18 feb.	Course information Sustainable development? Ecological footprint			
2 25 feb.	The relationship between the built and natural environment			
3 04 mar	The effect of urban environments on our senses			
4 11 mar	Vision, spatial perception, light effects and conditions of indoor visual comfort			
5 18 mar	Sense of smell, Sick building syndrome			
6 25 mar	Noise and sound			
7 01 apr	Heat and humidity			
8 08 apr	Artificial radiations			
9 15 apr	Environmental disasters, structural safety			
10 22 apr	Air pollution			
29 apr	Rectoral break			
11 06 may	Presentation and evaluation of studies			
12 13 may	Presentation and evaluation of studies			
13 20 may	Summary presentation			

REQUIREMENTS FOR COMPLETING THE SEMESTER		
MID-SEMESTER ASSIGNMENTS AND ASSESSMENT		
REQUIREMENT	DESCRIPTION	VALUE (points, %, marks)
REQUIREMENTS FOR PARTICIPATION IN THE SESSIONS	Internships may be absent a maximum of three times, and the subject requirements are subject to the provisions of the University Study and Examination Regulations and the Faculty's supplement. (especially Section 46 of the ETVSZ)	-
IN CASE OF ABSENCE FROM LESSONS AND EXAMINATIONS	Absence is considered justified with a medical certificate, but the semester may be denied even if there are more than three justified absences.	-
TASKS	Preparation of studies and presentations on covered and discussed topics. (Topics of the lecture and related areas e.g.: Impact of Advertising, Media, Barrier-Free Architecture, Architecture of Clean Spaces) Active participation in lectures.	Grades 1-5

TOTAL MID-TERM ASSIGNMENTS		
EXAMINATION	no	
CAN BE OBTAINED IN A SEMESTER		Grades 1-5

REQUIREMENTS FOR THE END OF THE SEMESTER					
CONDITIONS FOR OBTAINING A SIGNATURE	<p>Active participation in the classes, preparation of the study at least at a sufficient level, presentation of it with a presentation.</p> <p>The points received for each task must reach at least 50% of the available points.</p>				
DEVELOP A PRACTICE MARK	0-49 points	50-64	65-79	80-89	90-100
	1 - INSUFFICIENT	2 - SUFFICIENT	3 - SATISFACTORY	4 - GOOD	5 - EXCELLENT
SIGNATURE RETAKE EXAM	<p>If you fail the requirements, you have the opportunity to hand it in at the beginning of the exam period. You must sign up for the retake exam and pay an additional fee.</p>				