

GENERATIVE DESIGN 1.

2021/21. 1. SEMESTER

DATA			
COURSE NAME	GENERATIVE DESIGN 2.		GENERATIVE DESIGN 2.
COURSE CODE(S)	SGYMESZGNE1		
DEPARTMENT	Óbuda University, Ybl Miklós Faculty of Architecture, Institute of Architecture		
PROGRAMME, TRAINING	Architect MSc		full time
COURSE INSTRUCTOR (Instructor managing the course)	Dr. habil Ferencz Marcel István DLA	ferencz.marcel.istvan@ybl.uni-obuda.hu	in e-mail
INSTRUCTORS, LECTURERS	Gyulai Levente	gyulai.levente@ybl.uni-obuda.hu	in e-mail
PRE-REQUIREMENT	suggested: at least one semester Digit. Visual. Studies		
HOURS OF LECTURES (WEEKLY)	3 hours		
HOURS OF CLASSROOM TRAINING/ LABORATORY TRAINING (WEEKLY)	3 hours		
FIELD WORK AND TRAINING (WEEKLY)	0 hours		
ASSIGNMENT	Midterm assignment		
CREDITS	4 credits (ECTS)		
AIM OF THE COURSE, BRIEF DESCRIPTION	GOAL: ATTAIN SEMI-PROFESSIONAL LEVEL MODELING AND RENDERING SKILLS STUDYING 3D ARCHITECTURAL VISUALIZATION METHODS WHILE DEVELOPING AN OWN PERSONAL ARTISTIC STYLE. STUDYING BASIC PARAMETRIC FORM PROCREATION METHODS WITH GENERATORS AND NODE-BASED SYSTEMS. DEVELOPING AN INTUITIVE METHOD OF 3D BASED CONCEPTUAL DESIGN.		
RECOMMENDED LITERATURE	<p>IMPORTANT NOTES:</p> <p>IN THE SEMESTER WE'RE USING CAD, RENDERING AND FREEFORM MODELING SOFTWARES. PLEASE MAKE SURE TO OBTAIN THE LISTED SOFTWARES BELOW. IN CASE OF YOU'RE INVOLVED IN OTHER 3D ARCH. APPLICATIONS LIKE REVIT, 3DSMAX , VRAY THEN IT IS NOT NECESSARY TO CHANGE YOUR CURRENT WORKFLOW</p> <p>Corona render academic license (1YEAR 25USD): https://corona-renderer.com/prices-licensing/student</p> <p>Maxon Cinema 4D academic license https://www.maxon.net/en/educational-licenses</p> <p>Archicad academic license https://myarchicad.com/</p>		
REQUIRED TECHNICAL APPLIANCES/ SOFTWARE	<p>The use of mobile phones is prohibited during the examinations.</p> <p>In the case of online education: Contact: Neptun, E-learning and E-mail. Education materials: According to E-learning Lessons: E-learning, Zoom</p>		

SCHEDULE OF THE SEMESTER			
WEEK	LECTURE		PROGRAM OF TRAINING
1.	ONLINE konz.	C4D INTERFACE	Course project uploads
2.	ONLINE konz.	MODELING SPLINES	
3.	ONLINE konz.	BUILDING 3D MODELS FROM POLYGONS - POLYGON MODELLEZÉS (NURBS VS POLY)	
4.	ONLINE konz.	USING DEFORMERS TO BEND, TWIST, AND WARP MODELS - PARAMETRIC DEFORMERS	
5.	ONLINE konz.	WORKING WITH 3D LIGHTING - CORONA RENDERER ; ADDING SURFACE DETAIL WITH MATERIALS AND SHADERS, PROCEDURAL SHADERS (CORONA); USING THE PARAMETRIC MOGRAPH TOOLS	Course project uploads
6.	ONLINE konz.		
7.	ONLINE konz.		
8.	ONLINE konz.		
9.	ONLINE konz.		
10.	ONLINE konz.	CREATING AN OWN PERSONAL PROJECT, EVALUATION AND EXHIBITION AND PRESENTATIONS	
11.	ONLINE konz.		
12.	ONLINE konz.		
13.	ONLINE konz.		

REQUIREMENTS FOR THE COMPLETION OF THE SEMESTER		
MID-SEMESTER TASKS AND TESTS		
Requirement	Description	Value (point, %, grade)
PARTICIPATION AT LESSONS	The practice lessons can be missed up to three times (see § 46 ETVSZ)	-
IN CASE OF ABSENCE FROM LESSONS AND EXAMINATIONS	Absence is considered to be justified with a medical certificate presented.	-
UPLOADED COURSE PROJECTS	10x5 points	50 points
EXHIBITION READY PORTFOLIOS AND ARCHITECTURAL BOARDS	overall visual quality and modeling skills	25 points
PRESENTATION	overall communication skills in terms of parametric and generative designs	25 points
TOTAL		100 points

SEMESTER CLOSING REQUIREMENTS					
CONDITIONS FOR OBTAINING A SIGNATURE	COURSE RATING ASPECTS: - VISUAL AND ARCHITECTURAL QUALITY OF UPLOADED WORKS - PRESENTATION SKILLS WITH CORRECT TERMINOLOGY - PARTICIPATION IN EMERGING DISCUSSIONS, DIALOGS				
SEMESTER GRADE	0-59 Point	60-69	70-79	80-89	90-100
	1 - FAIL	2 - PASS	3 - SATISFACTORY	4 - GOOD	5 - EXCELLENT
CONDITIONS FOR OBTAINING AN OFFERED GRADE	-				
CONDITIONS FOR ADMISSION TO THE EXAM	-				
EXAM GRADE	-				