

MARMARA UNIVERSITY SCHOOL OF ARCHITECTURE
2022-2023 / SPRING Semester

Course Title	Code	Semester	Hour (T+P)	Credit	ECTS
Communications 4	ARCH 204	4	1+2	3	3.00
Prerequisites					
Language of Instruction	English				
Course Type (Required / elective)	Required				
Course Coordinator					
Instructors /e-mail	Mehmet Emin Bayraktar / mbayraktar@marmara.edu.tr				

Goals	Having the ability to create architectural representations with 3D digital models through CAD software.	
Learning Outcomes	Modelling and presentation methods with Rhino, Sketchup, Revit, Enscape software. Gaining graphics expression skills. Gaining the design representation ability. Technical documentation providing and review. Gaining experience in creating formal composition.	
Course Content	Explaining the theoretical and technical background of the use of computer aided design tools in different phases of design; experiencing architectural project representations with different practices; ensuring and developing the integration of digital tools into the project design process.	
Assessment Criteria	Assessment Components	No component may have more than 50% weight.
	Homeworks	%15
	Inclass Exercises	%15
	Mid -term exam	% 30
	Final Exam	% 40
	TOTAL	% 100

WEEKLY TOPICS AND PREPARATIONS			
WEEKS	DATE	TOPICS	PREPARATIONS
1. Week	02.03.2023	Introduction: Course Contents, CAD applications and examples	
2. Week	09.03.2023	Rhino interface and digital drawing	
3. Week	16.03.2023	2D curves & curve editing tools	
4. Week	23.03.2023	From 2D curves to 3D objects	
5. Week	30.03.2023	Working with surfaces and solids / Importing other CAD drawings / Extrusion Modelling	
6. Week	06.04.2023	Using dimension, text and other supporting elements	
7. Week	13.04.2023	Layout and board	
8. Week	20.04.2023	Sketchup Modelling	
9. Week	27.04.2023	BIM Modelling	

10. Week	4.05.2023	Midterm Exam	
11. Week	11.05.2023	Creating Plan, Section, Elevation Drawings	
12. Week	18.05.2023	Creating Building Components	
13. Week	25.05.2023	Terrain Creation & Massing Study	
14. Week	01.06.2023	Camera Usage & Architectural Photography	
15. Week	08.06.2023	Modelling & Presenting an Architectural Project	
FINAL		Final Exam	

REFERENCES

<https://www.rhino3d.com/learn>
<https://help.autodesk.com/view/RVT/2023/ENU/>
<https://learn.enscape3d.com/>
<https://learn.sketchup.com/>

ECTS / WORKING HOUR TABLE

Activities	Number of Weeks	Duration (Hour)	Working Hours
Duration of the Course (Including Exams: 14 x Total Weekly Course Hour)	16	3	48
Extracurricular Working Hour (Preparatory Work, Review)	15	2	30
Assignments, Presentations, Internet Studies, etc.	4	3	12
Mid-term Exam	1	3	3
Final Exam	1	3	3
Working Hours in Total			96
Working Hours in Total / 30			3,2
ECTS Credit of the Course			3