

Marmara University Faculty of Architecture
School of Architecture and Design
2025-2026 Fall Semester

Course Title		Code	Semester	Hour (T+P)	Credit	ECTS
Detail and Design		ARCH 403	Fall (3rd semester)	2+0	2	2
Prerequisites		-				
Language of Instruction		English				
Course Type (Required / elective)		Required				
Course Coordinator		-				
Instructor /e-mail		Assist. Prof. Dr. H. Nur KIZILYAPRAK / nur.kizilyaprak@marmara.edu.tr				
Assistants		Res. Assist. Elif Demirci				
Goals	Understanding of architectural details, viewing them within part-to-whole relationship with the building, understanding their visual and functional contribution to the building and perceiving the detailing process as the smallest unit of design “codes” of buildings.					
Learning Outcomes	1. Students gain the ability to consider the concept of "architectural detail" as a design problem. 2. Students gain awareness of different perspectives on architectural detailing and the meaning of detail. 3. Students gain the ability to analyze an existing architectural detail in terms of design input and the performances it meets. 4. Students gain awareness of different systematic detail development approaches. 5. Students gain the ability to consider the act of detailing as a systematic and rational process.					
Course Content	To understand, apply and synthesize basic knowledge of use of materials, building techniques, construction, building physics and climate by focusing on tectonic design of building parts and given conditions: ▪ “Building”, architectural technology terminology and detailing approaches ▪ Analysis of building and building elements with systems thinking, understanding the effects of construction methods and material use ▪ Interaction user-environment/location-building systems ▪ Design principles and performance requirements of building elements ▪ Intuitive and systematical detail design approaches					
Assessment Criteria	Assessment Components					
	Weekly Studies		%10 (before midterm) %20 (before final)			
	Mid-term		%30 (midterm submission)			
	Final Exam		40% (final submission)			
	TOTAL		100%			
Midterm grade:- Final grade: 50 Course success: 50						

Marmara University Faculty of Architecture
School of Architecture and Design
2025-2026 Fall Semester

WEEKLY TOPICS AND PREPARATIONS	
Weeks	Topics
Week 1 23.09.2025	Lecture – Introduction- Distribution of details among students for DETAIL Magazine
Week 2 30.09.2025	Lecture + Class Discussions – Timber External Wall Details Analysis According to “Grammar of Detailing” Approach
Week 3 07.10.2025	Lecture + Class Discussions – Timber External Wall Details Analysis According to “Grammar of Detailing” Approach
Week 4 14.10.2025	Lecture + Class Discussions – Timber Floor Details Analysis According to “Grammar of Detailing” Approach
Week 5 22.10.2025	Lecture + Class Discussions – Timber Floor Details Analysis According to “Grammar of Detailing” Approach
Week 6 28.10.2025	Republic Day
Week 7 04.11.2025	Lecture + Class Discussions – Timber Roof Details Analysis According to “Grammar of Detailing” Approach
Week 8 10.11.2025 16.11.2025	MIDTERM SUBMISSION
Week 9 18.11.2025	Lecture– Distribution of details among students for DETAIL Magazine
Week 10 25.11.2025	Lecture + Class Discussions – Steel External Wall Details Analysis According to “Grammar of Detailing” Approach
Week 11 02.12.2025	Lecture + Class Discussions – Steel Timber External Wall Details Analysis According to “Grammar of Detailing” Approach
Week 12 09.12.2025	Lecture + Class Discussions – Steel Timber Floor Details Analysis According to “Grammar of Detailing” Approach
Week 13 16.12.2025	Lecture + Class Discussions – Steel Timber Floor Details Analysis According to “Grammar of Detailing” Approach
Week 14 23.12.2025	Lecture + Class Discussions – Steel Timber Roof Details Analysis According to “Grammar of Detailing” Approach
Week 15 30.12.2025	Lecture + Class Discussions – Steel Timber Roof Details Analysis According to “Grammar of Detailing” Approach
Week 16 06.01.2026	Final Discussions for Final Submissions
Week 17 12.01.2026 25.01.2026	FINAL SUBMISSION

REFERENCES

Allen, E. (1993). *Architectural detailing function constructibility aesthetics*. New York: Wiley.

Detail Magazines

Bachman, L. R. (2003). *Integrated buildings: the systems basis of architecture*. Mexico: John Wiley & Sons, Inc.

Dickinson, D. (1997). *Expressive details: materials, selection, use*. New York: McGraw-Hill.

Emmitt, S., Olie, J. and Schmid, P. (2004). *Principles of architectural detailing*. Oxford, UK; Malden, MA: Blackwell Pub.

Ford, E. (2011). *The architectural detail*. New York: Princeton Architectural Press.

Herrmann, E.M., Krammer, M., Sturm, J., & Wartzeck, S. (2015). *Enclose-build: The building envelope - facade, wall, roof*. Basel: Birkhäuser Verlag.

Leatherbarrow, D. & Mostafavi, M. (2002). *Surface architecture*. Cambridge: MIT Press.

Meijs, M. & Knaack, U. (2009). *Principles of construction: components and connections*. Berlin: Birkhäuser Verlag.

Moro, J. L., Rottner, M., Alihodzic, B. & Weissbach, M. (2009). *Baukonstruktion vom Prinzip zum Detail, Band 2*. Berlin: Springer-Verlag.

Moussavi, F. (2009). *The function of form*. NY: Actar and Harvard Graduate School of Design.

Rush, Richard D. (1986). *The building systems integration handbook*. New York: John Wiley & Sons, Inc.

Schittich, C. (2006). *In Detail: Building Skins*. Basel: Birkhäuser Verlag.

Watts, A. (ed.) (2011). *Modern Construction Envelopes*. Wien: Springer-Verlag.

ECTS / WORKING HOUR TABLE

Activities	Number of Weeks	Duration (Hour)	Working Hours
Duration of the Course (Including Exams: 14 x Total Weekly Course Hour)	14	2	28
Extracurricular Working Hour (Preparatory Work, Review, Internet studies etc.)	12	2	24
Midterm exam	1	2	2
Homeworks and Presentations	3	2	6
Final Exam	1	2	2
Working Hours in Total			62
Working Hours in Total / 30			2,06
ECTS Credit of the Course			2