AGU Graduate School of Engineering & Science
Civil Engineering PhD Program

Program Records

About the Program	The AGU PhD studies in Civil Engineering are designed for candidates holding a master's degree from diverse disciplines. The primary objective is to elevate students to an expert level and cultivate academic proficiency in Civil Engineering. This involves fostering interdisciplinary expertise and an educational approach rooted in research, examination, and application. The program seeks to nurture researchers in the field, generating and advancing engineering knowledge by establishing new, active research/study areas that bridge applied/social sciences and civil engineering. The program is committed to leveraging the engineering knowledge it produces for societal benefit. This involves collaboration with governmental and non-governmental organizations, as well as related sectors, aligning with AGU's mission and vision. The AGU PhD studies in Civil Engineering aspire to educate PhD-qualified civil engineers capable of integrating a life cycle approach into scientific research processes. These individuals are expected to contribute high-quality scientific insights to address the challenges of green transition. With a specific emphasis on the green transition within research subjects and fields of civil engineering, the AGU Civil Engineering PhD Program aims to address the demand for qualified human resources. This encompasses addressing the requirements of research-oriented sectoral organizations in pertinent fields like construction, as well as meeting the demands of higher education institutions involved in relevant education and research activities.
Program Objectives	Develop knowledge in the civil engineering with inter- and trans-disciplinary research. Interpret technical, structural, and technological concepts in relation with other disciplines. Create awareness of sustainability. Recognize local and global issues in civil engineering and take responsibility in their resolution.
Qualification Awarded	Doctorate (Ph.D. Degree) / Ph.D. in Civil Engineering
Length of Program & Credits	4 years, 240 ECTS
Level of Qualification	Third Cycle (Doctorate) Degree; EQF-LLL Level 8, QF-EHEA Level 3
Mode of Study	Full Time
Field of Study	Construction, hydraulics, geotechnics, transportation, structure, materials, water resources
Admission Requirements	Graduate diploma; an acceptable score from YDS (Foreign Language Exam), YÖKDİL(Foreign Language Exam for Higher Education Institutions), or TOEFL; an acceptable score from the Academic Personnel and Postgraduate Education Entrance Exam (ALES - Mathematical Score Type); a passing score at the oral interview for the concerned doctoral program. International students are admitted based on the criteria posted by the university.
Recognition of Credit Mobility	Course Substitution: For course substitutions, medium of instruction of a previous course must be English, its final grade must be at least 3.00 out of 4.00 and approval of a relevant University Board is required. Lateral Transfer: Spending at least one semester at the master's program currently enrolled in, taking at least 2 credit courses and passing them with at least 3.00 out of 4.00 and approval of a relevant University Board is required.

Graduation Requirements & Regulations

Successful completion of the Research and Ethics course, two compulsory and five Elective (at least two of them must be CE6XX) and seminar courses; a minimum GPA of 3.00; earning 240 ECTS credits; passing the PhD qualifying exam, and approval of a dissertation proposal, and successful defense of the dissertation. Completion of the following academic studies:

1. Acceptance of one journal paper screened by SCI or SCI-Expanded.
2. Attending one international conference approved by the CE PhD program executive committee and presenting one full paper at the conference.

Occupational Profiles of Graduates

Graduates may be employed in universities, research institutions, or public and administrative governmental organizations such as ministries and municipalities, non-governmental organizations, and private sector in Civil Engineering.

Access to Further Studies

Graduates may apply to post-doctorate studies

Assessment & Grading Policy

Based on Abdullah Gül University Graduate Education and Examination Regulation rules;

Letter Grade	Coefficient	Score	Status
A	4,00	90-100	Pass
A-	3,67	87-89	Pass
B+	3,33	83-86	Pass
B	3,00	80-82	Pass
B-	2,67	77-79	Pass
C+	2,33	73-76	Failed
C	2,00	70-72	Failed
C-	1,67	64-69	Failed
D+	1,33	56-63	Failed
D	1,00	50-55	Failed
F	0,00	0-49	Failed

Program Outcomes

PO1. Conduct research through interdisciplinary methods.

PO2. Think systematically, creatively, and critically.

PO3. Interpret engineering literature.

PO4. Compose the skill to identify and construct innovative solutions to complex civil engineering challenges.

PO5. Develop proficiency in utilizing state-of-the-art engineering tools.

PO6. Communicate technical knowledge and information.

PO7. Synthesize advanced technical expertise within a specialized area of civil engineering.

PO8. Define and formulate problems in civil engineering.

PO9. Acquire knowledge and interpretive skills for the resolution of global problems and responsibilities concerning the built and natural environment.

PO10. Create a difference and additional value in their environment with the acquired professional ethics, skills, and global citizenship consciousness, required by the age we live in.

PO11. Make their process of attaining knowledge and learning sustainable through life-long learning strategies.

PO12. Attain professional communication as well as scientific research, writing and presenting skills.

AGU Graduate School of Engineering & Science
Civil Engineering PhD Program

TQF-HE & Program Outcomes Coverage		**Knowledge**	**Skills**	**Competences**			
		Theoretical Conceptual	Cognitive Practical	Work Independently and Take Responsibility	Learning	Communication and Social	Field Specific
	P01	X		X			
	PO2	X	X				X
	PO3	X	X				
	PO4		X		X		X
	PO5		X		X		
	PO6	X				X	
	PO7			X			X
	PO8		X		X		
	PO9	X				X	X
	PO10					X	X
	PO11	X			X		X
	PO12			X		X	

Institutional & Program Outcomes* Coverage		IO1	IO2	IO3	IO4	IO5	IO6	IO7
	P01	X			X			
	PO2		X			X		
	PO3		X					
	PO4		X					
	PO5	X						
	PO6	X					X	
	PO7	X						
	PO8		X					
	PO9			X				X
	PO10			X	X			X
	PO11				X	X		
	PO12	X					X	

* Link for the AGU Institutional Student Learning Outcomes (IOs)
https://cat.agu.edu.tr/Pages/KurumsalOgrencmeCiktilari.aspx?lang=en-US

AGU Graduate School of Engineering and Science

PhD Program in Civil Engineering Curriculum*

Semester	Code	Course	T	P	C	ECTS
1st	GCC 1001	Introduction to Scientific Research Methods and Scientific Publication Ethics	3	0	3	7,5
	CE 611	Fundamentals of Natural Hazards	3	0	3	7,5
	or					
	CE 673	Urban Environmental Sustainability	3	0	3	7,5
	CE 6XX	Elective	3	0	3	7,5
	XXX XXX	Elective	3	0	3	7,5
		semester credits	**12**	0	**12**	**30**
2nd	CE 610	Computational and Experimental Methods in Civil Engineering Research	3	0	3	7,5
	CE 6XX	Elective	3	0	3	7,5
	XXX XXX	Elective	3	0	3	7,5
	XXX XXX	Elective	3	0	3	7,5
		semester credits	**12**	0	**12**	**30**
3rd – 8th	CE 600	Seminar	0	2	0	5
	CE 697	Ph.D. Special Topics	4	0	0	30
	CE 699	Ph.D. Thesis	0	1	0	145
		semester credits	**4**	3	**0**	**180**
		TOTAL	**28**	**3**	**24**	**240**

***The presented program is tentative, and the department reserves the right to change the course semester.

Curriculum Summary

%		Courses	Credit	ECTS
3,1	**YÖK/HEC Courses** GCC 1001	1	3	7,5
6,3	**Compulsory** CE 610 CE 611 or CE 673	2	6	15
15,5	**Elective*** CE6XX, other graduate programs	5	15	37,5
2,1	**Seminar** **CE 600**	1	0	5
73,0	**Dissertation** CE697, CE699	3	0	175
100,0	**TOTAL**	**12**	**24**	**240**

* At least two of these elective courses should be CE6XX coded and other elective courses can be taken with the same ECTS from other graduate programs.