

AGU Department of Civil Engineering Undergraduate Program Outcomes

PO1	An ability to apply knowledge of mathematics and science on engineering problems
PO2	An ability to conduct civil engineering experiments and analyze and interpret the resulting data
PO3	An ability to design a system, component, or process in civil engineering context
PO4	An ability to recognize, formulate and solve complex engineering problems
PO5	An ability to communicate efficiently.
PO6	Ability to explain basic concepts in management, business, public policy, and leadership.
PO7	An ability to act individually and to function in multi-national and multi-disciplinary teams.
PO8	Knowledge on global and contemporary issues
PO9	An insight of ethical and professional responsibility,
PO10	An ability to take part in life-long learning

Course - Program Outcomes Matrix

		AGU CE Program Outcomes (Degree of Support : 0-5)											
	Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
Must Courses	MATH 151	Calculus I	5	2	4	5	1	1	1	1	2	1	
	PHYS 101	Physics I	5	2	4	5	1	1	1	1	2	1	
	COMP 101	Art of Computing	2	3	4	5	2	1	3	1	2	4	
	GLB 101	AGU Ways	1	1	1	1	5	5	5	5	4	4	
	ENG 101	English I	0	0	0	0	5	2	5	4	3	2	
	CE 101	Civil Engineering Drawing	2	2	5	3	5	0	4	0	2	1	
	MATH 152	Calculus II	5	2	4	5	1	1	1	1	2	1	
	PHYS 102	Physics II	5	2	4	5	1	1	1	1	2	1	
	CE 102	Exploring Profession	5	5	5	3	5	0	5	2	5	2	
	CHEM 101	Chemistry for Engineers	5	2	4	5	1	1	1	1	2	1	
	ENG 102	English II	0	0	0	0	5	2	5	4	3	2	
	CE 221	Mechanics	5	2	5	5	3	0	2	0	2	1	
	ECON 222	Economics for Engineers	2	0	2	3	4	5	2	5	2	3	
	MATH 205	Differential Equations	5	2	4	5	1	1	1	1	2	1	
	CE 241	Materials Science	5	5	3	4	3	0	5	1	2	1	
	CE 262	Geology for Civil Engineering	5	3	4	3	3	0	4	3	2	1	
	TURK 101	Turkish I	0	0	0	0	5	0	4	4	2	1	
	CE 222	Strength of Materials	5	2	5	5	3	0	2	0	2	1	
	MATH 203	Linear Algebra	5	2	4	5	1	1	1	1	2	1	
	CE 244	Materials of Construction	5	5	5	4	3	0	5	1	2	1	
	CE 272	Fluid Mechanics	5	5	5	5	3	0	5	1	2	1	
	CE 202	Numerical Methods for Engineers	5	0	4	5	3	0	3	1	2	1	
	TURK 102	Turkish II	0	0	0	0	5	0	4	4	2	1	
	CE 300	Summer Practice	5	3	5	5	5	5	5	4	5	5	
	MATH 301	Probability and Statistics	5	0	4	5	3	0	3	1	2	1	
	CE 371	Hydromechanics	5	5	5	5	3	0	5	1	2	1	
	CE 363	Soil Mechanics	5	5	5	5	3	0	5	1	2	1	
	CE 383	Structural Analysis	5	5	5	5	3	0	5	1	2	1	
	HIST 201	History of Modern Turkey I	0	0	0	0	3	5	1	5	3	1	
	CE 332	Construction Engineering and Management	3	0	5	5	3	5	3	3	5	3	
	CE 366	Foundation Engineering	5	5	5	5	3	0	5	1	2	1	
	CE 374	Hydrology and Water Resources Engineering	5	5	5	5	3	0	5	1	2	1	
	CE 382	Reinforced Concrete	5	5	5	5	3	0	5	1	2	1	
	CE 352	Introduction to Transportation and Traffic Engineering	5	5	5	5	3	0	5	1	2	1	
	HIST 202	History of Modern Turkey II	0	0	0	0	3	5	1	5	3	1	
	CE 403	Capstone Design	5	5	5	5	5	5	5	4	5	5	
	CE 481	Fundamentals of Steel Design	5	5	5	5	3	0	5	1	2	1	
	OHS 401	Occupational Health and Safety I	0	0	0	0	3	5	3	4	5	4	
	Global Electives	GLB XXX	Global Issues Elective I	1	1	1	1	5	5	5	5	4	4
		GLB XXX	Global Issues Elective II	1	1	1	1	5	5	5	5	4	4
		GLB XXX	Global Issues Elective III	1	1	1	1	5	5	5	5	4	4
		GLB XXX	Global Issues Elective IV	1	1	1	1	5	5	5	5	4	4
	Technical Electives	CE 431	Construction Project Management	3	0	5	5	3	5	3	3	5	3
		CE 441	Materials for Sustainable Built Environment	5	5	5	4	3	4	5	5	2	1
		CE 442	Construction Waste Management	3	0	5	4	3	5	3	5	5	4
CE 444		The Natural and Built Environment	5	5	5	4	3	4	5	5	2	1	
CE 445		Sustainable Concrete Technology	5	5	5	4	3	0	5	5	3	2	
CE 446		Laboratory Tests on Civil Engineering Materials	3	5	3	4	3	0	5	1	2	1	
CE 447		Admixtures for Concrete	5	5	5	4	3	0	5	3	3	2	
CE 448		Durability of Concrete	5	5	5	4	3	0	5	3	3	2	
CE 451		Railway Engineering	5	5	5	5	3	0	5	1	2	1	
CE 452		Railway Design	5	5	5	5	3	0	5	1	2	1	
CE 461		Foundation Engineering II	5	5	5	5	3	0	5	1	2	1	
CE 462		Introduction to GIS	3	0	5	3	3	0	5	3	2	1	
CE 463		Use of In-situ Tests in Geotechnical Engineering	3	5	3	4	3	0	5	1	2	1	
CE 464		Ground Improvement	5	5	5	5	3	0	5	1	2	1	
CE 473		Sustainable Energy Resources	3	0	5	3	3	5	4	5	3	1	
CE 474		Engineering for Sustainability	3	0	5	3	3	5	4	5	3	1	
CE 475		Water and Wastewater Treatment Engineering	4	0	5	4	3	0	5	4	2	1	
CE 476		Environmental Policy and Politics	0	0	0	0	5	5	4	5	3	1	
CE 482		Computational Structural Analysis and Design	5	5	5	5	3	0	5	1	2	1	
CE 484		A seismic Design of Structures	5	5	5	5	3	0	5	1	2	1	
CE 488	Introduction to Vibrating Systems	5	5	5	5	3	0	5	1	2	1		
CE 489	Matrix Theory of Structural Analysis	5	5	5	5	3	0	5	1	2	1		
Nontechnical Elective	XXX	Nontechnical Elective	0	0	0	0	5	5	4	5	5	4	