Seçmeli Derslere İlişkin Uygulanan-Önerilen Tablosu (Örnek Tablo 1)

UYGULANAN

* Regulations for Technical Elective Courses:

1) Students in their seventh semester selects a branch among Geotechnics, Materials of Construction, Transportation, Water Resources and Hydraulics or Structural Mechanics branches.
2) At least five of six technical courses should be selected from branch(es) listed in article 1. At least two of these courses should be technical elective design courses. At most one technical elective course can be selected from outside of the Civil Engineering Undergraduate Program upon advisor's approval.
3) At least two courses should be taken from the selected branch. At least one of these courses should be a technical elective design course.
4) At least one technical elective design course from the selected branch should have been completed succesfully to be able to take CE 402.
5) Design project topic in CE 402 course should be determined from the selected branch.

ÖNERİLEN

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3) At least two courses should be taken from the selected branch. At least one of these courses should be a technical elective design course.
4) At least one technical elective design course from the selected branch should have been completed succesfully to be able to take CE 402.
5) Design project topic in CE 402 course should be determined from the selected branch.

Geotechnics (UYGULANAN)

Program	Code	Course Name	Credits	Ects	Prerequisite
CIVIL ENGINEERING	CE461	Soil Mechanics II	3 (2+2)	5	CE361 "Soil Mechanics I (3-2)4
	CE462	Introduction to Soil Dynamics	3 (3+0)	5	CE 361 "Soil Mechanics I (3-2)4"
	CE463*	Foundation Engineering II	3 (3+0)	5	CE362 "Foundation Engineering I (3-0)3"
	CE464*	Soil Modeling and Computational Soil Mechanics	3 (3+0)	5	Pre.CE301 "Numerical Methods in Engineering (3-0)3" Pre.CE362 "Foundation Engineering I (3-0)3"

Geotechnics (ÖNERİLEN)

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CE461	Soil Mechanics II	3 (2+2)	5	CE361 "Soil Mechanics I (3-2)4
CE462	Introduction to Soil Dynamics	3 (3+0)	5	CE 361 "Soil Mechanics I (3-2)4"
CE463*	Foundation Engineering II	3 (3+0)	5	CE362 "Foundation Engineering I (3-0)3"
CE464*	Soil Modeling and Computational Soil Mechanics	3 (3+0)	5	Pre.CE301 "Numerical Methods in Engineering (3-0)3" Pre.CE362 "Foundation Engineering I (3-0)3"

Materials of Construction (UYGULANAN)

Program	Code	Course Name	Credits	Ects	Prerequisite
CIVIL ENGINEERING	CE441	Concrete Technology	3 (3+0)	5	
	CE442*	Construction Materials Design	3 (2+2)	5	
	CE443	Introduction to Historical Construction Materials	3 (3+0)	5	

Materials of Construction (ÖNERİLEN)

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CE441	Concrete Technology	3 (3+0)	5	
CE442*	Construction Materials Design	3 (2+2)	5	
CE443	Introduction to Historical Construction Materials	3 (3+0)	5	

Transportation (UYGULANAN)

Program	Code	Course Name	Credits	Ects	Prerequisite
CIVIL ENGINEERING	CE451	Planning and Analysis of Transportation Systems	3 (3+0)	5	CE 351 "Introduction to Transportation Engineering (2-2)3
	CE452*	Highway and Airport Pavement Materials	3 (3+0)	5	CE 351 "Introduction to Transportation Engineering (2-2)3
	CE453*	Highway, Railway, Port and Airport Design	3 (3+0)	5	CE 351 "Introduction to Transportation Engineering (2-2)3
	CE454	Traffic Engineering	3 (3+0)	5	

Transportation (ÖNERİLEN)

Code	Course Name	Credits	Ects	Prerequisite
CE451	Planning and Analysis of Transportation Systems	3 (3+0)	5	CE 351 "Introduction to Transportation Engineering (2-2)3
CE452*	Highway and Airport Pavement Materials	3 (3+0)	5	CE 351 "Introduction to Transportation Engineering (2-2)3
CE453*	Highway, Railway, Port and Airport Design	3 (3+0)	5	CE 351 "Introduction to Transportation Engineering (2-2)3
CE454	Traffic Engineering	3 (3+0)	5	

Water Resources and Hydraulics (UYGULANAN)

Program	Code	Course Name	Credits	Ects	Prerequisite
CIVIL ENGINEERING	CE472	Computer Applications in Water Resources	3 (3+0)	5	Pre.CE 272 "Fluid Mechanics (3-0)3" Pre.CE 301 "Numerical Methods in Engineering (3-0)3"
	CE473*	Design of Water Distribution Systems	3 (3+0)	5	Pre.CE 371 "Hydromechanics (3-2)4
	CE474	Introduction to Groundwater Flow Modeling	3 (3+0)	5	Pre.CE 301 "Numerical Methods in Engineering (3-0)3" Pre.CE 372 "Engineering Hydrology (3-0)3"
	CE475*	Design of Hydraulic Structures	3 (3+0)	5	Pre.CE 371 "Hydromechanics (3-2)4" Pre.CE 471 "Water Resources Engineering (3-0)3"
	CE476	Groundwater Monitoring and Assessment	3 (3+0)	5	Pre.CE 371 "Hydromechanics (3-2)4"
	CE477	Planning and Development of Hydropower Structures	3 (3+0)	5	

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CE472	Computer Applications in Water Resources	3 (3+0)	5	Pre.CE 272 "Fluid Mechanics (3-0)3" Pre.CE 301 "Numerical Methods in Engineering (3-0)3"
CE473*	Design of Water Distribution Systems	3 (3+0)	5	Pre.CE 371 "Hydromechanics (3-2)4
CE474	Introduction to Groundwater Flow Modeling	3 (3+0)	5	Pre.CE 301 "Numerical Methods in Engineering (3-0)3" Pre.CE 372 "Engineering Hydrology (3-0)3"
CE475*	Design of Hydraulic Structures	3 (3+0)	5	Pre.CE 371 "Hydromechanics (3-2)4" Pre.CE 471 "Water Resources Engineering (3-0)3"
CE476	Groundwater Monitoring and Assessment	3 (3+0)	5	Pre.CE 371 "Hydromechanics (3-2)4"
CE477	Planning and Development of Hydropower Structures	3 (3+0)	5	

	CE478	Introduction to GIS applications in Water Engineering	3 (3+0)	5		CE478	Introduction to GIS applications in Water Engineering	3 (3+0)	5	
	CE479	Coastal Hydraulics	3 (3+0)	5		CE479	Coastal Hydraulics	3 (3+0)	5	
	CE480*	Design of Coastal Structures	3 (3+0)	5		CE480*	Design of Coastal Structures	3 (3+0)	5	
	CE482*	**Design of Coastal Protection Structures**	**3 (3+0)**	**5**	**Pre.CE479 "Coastal Hydraulics (3-0)3"**	**CE482***	**Design of Coastal Protection Structures**	**3 (3+0)**	**5**	**Pre.CE479 "Coastal Hydraulics (3-0)3"**

Structural Mechanics

Program	Code	Course Name	Credits	Ects	Prerequisite	Code	Course Name	Credits	Ects	Prerequisite
CIVIL ENGINEERING	CE422*	Structural Design: Concrete Structures	3 (3+0)	5	Pre.CE 324 "Fundamentals of Reinforced Concrete Design(3-0)3"	CE422*	Structural Design: Concrete Structures	3 (3+0)	5	Pre.CE 324 "Fundamentals of Reinforced Concrete Design(3-0)3"
	CE423	Introduction to Structural Dynamics	3 (3+0)	5	Pre.CE 222 "Engineering Mechanics II: Dynamics (3-0)3"	CE423	Introduction to Structural Dynamics	3 (3+0)	5	Pre.CE 222 "Engineering Mechanics II: Dynamics (3-0)3"
	CE424*	Introduction to Earthquake Resistant Design	3 (3+0)	5		CE424*	Introduction to Earthquake Resistant Design	3 (3+0)	5	
	CE425	Structural Analysis	3 (3+0)	5		CE425	Structural Analysis	3 (3+0)	5	
	CE426	Theory of Matrix Structural Analysis	3 (3+0)	5	Pre.CE 301 "Numerical Methods in Engineering (3-0)3"	CE426	Theory of Matrix Structural Analysis	3 (3+0)	5	Pre.CE 301 "Numerical Methods in Engineering (3-0)3"
	CE428*	Structural Design: Steel Structures	3 (3+0)	5	Pre.CE 224 "Mechanics of Materials (3-0)3"	CE428*	Structural Design: Steel Structures	3 (3+0)	5	Pre.CE 224 "Mechanics of Materials (3-0)3"
	CE429	Computer Applications in Structural Engineering	3 (3+0)	5		CE429	Computer Applications in Structural Engineering	3 (3+0)	5	
	CE430	Reinforced Concrete	3 (3+0)	5	Pre.CE 324 "Fundamentals of Reinforced Concrete Design (3-0)3"	CE430	Reinforced Concrete	3 (3+0)	5	Pre.CE 324 "Fundamentals of Reinforced Concrete Design (3-0)3"

* Design Elective Courses

NOT : Değişiklikleri teklif edilen dersler önerilen tablosunda farklı renk veya kalın yazı tipi ile gösterilmelidir.   Tablo
Türkçe ve İngilizce olarak 2 ayrı tablo şeklinde hazırlanmalıdır.