GTU Civil Engineering Undergraduate Courses

08.02.2021 tarih ve 2021/01-07 sayılı Fakülte Kurulu Kararı ve 17.02.2021 tarih ve 2021/03-14 sayılı Senato Kararı

CE 101 Introduction to Civil Engineering and Career Planning 2 1 1 0 0 TM CHEM 101 General Chemistry I 5 3 3 0 2 2 7 CHEM 113 General Chemistry Laboratory I 1 1 1 0 2 2 0 0 SO CMEM 111 Business English 2 2 2 0 0 TE PHYS 151 Physics Laboratory I 1 1 0 2 2 0 0 SO TUR 101 Furchitys A 6 4 4 0 0 SO TUR 101 Furchitys A 2 2 2 0 0 SO TUR 101 Turkish I 2 2 2 0 0 Th C201 Probability, Statistics, Risk and Reliability for Civil Engine 5 3 3 0 0 Th C221 Geology for Civil Engineers 3 3 0 0 Th 2 2 0 Th <					,,	- un	arec	Raran	
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CE 201 Probability, Statistics, Risk and Reliability for Civil Engine 5 3 2 2 0 TN CE 205 Strength of Materials I 5 3 2 2 0 TN CE 205 Strength of Materials I 5 3 2 2 0 0 TN CE 221 Geology for Civil Engineers 3 2 2 0 0 TN CE 231 Materials Science for Civil Engineers 4 3 3 0 0 TN CE 231 Introduction to Building Science and Design 5 3 2 2 0 MT MATH 215 Differantial Equations 5 3 2 2 0 TE MATH 215 Differantial Equations 5 3 2 2 0 TE MATH 214 Numerical Methods 5 3 3 0 0 TE Cade Course Name ECTS C T U L Typ MATH 214 Numerical Methods 5 3 2	Third Semester								
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CE 231 Materials Science for Civil Engineers 4 3 3 0 0 TM CE 281 Introduction to Building Science and Design 5 3 2 2 0 MT MATH 215 Differantial Equations 5 3 2 2 0 TE Non-Technical Elective Course I 3 3 3 0 0 SO Total credit per semester 30 20 17 6 0 0 TP MATH 214 Numerical Methods 5 3 3 0 0 TE MATH 214 Numerical Methods 5 3 2 2 0 MT CE 311 Theory of Structures I 5 3 2 2 0 MT CE 321 Soil Mechanics 5 3 2 2 1 TM CE 351 Transportation and Railway Engineering 5 3 2 2 1 M CE 341 Hydraulics 5 3 2 2 1 M <td< td=""><td>CE 205</td><td>Strength of Materials I</td><td>5</td><td>3</td><td>2</td><td>2</td><td>0</td><td>TM</td></td<>	CE 205	Strength of Materials I	5	3	2	2	0	TM	
CE 281 Introduction to Building Science and Design 5 3 2 2 0 MT MATH 215 Differantial Equations 5 3 2 2 0 TE MATH 215 Differantial Equations 5 3 2 2 0 TE MATH 215 Differantial Equations 5 3 3 3 0 0 SO Total credit per semester 30 20 17 6 0 0 Te Fifth Semester 3 3 0 0 TE Code Course Name ECTS C T U L Typ MATH 214 Numerical Methods 5 3 3 0 0 TE CE 311 Theory of Structures I 5 3 2 2 0 MT CE 321 Soil Mechanics 5 3 2 2 1 Th CE 351 Transportation and Railway Engineering 5 3 2 2 1 MT	CE 221	Geology for Civil Engineers	3	2	2	0	0	TM	
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CE 361 Hydraulics 5 3 2 2 1 M CE XXX Department Elective Courses 4 3 3 0 0 M ENG 300 Summer Practice I 1 0 0 0 0 M ENG 401 Occupational Health and Safety I 1 1 1 0 0 SO Total credit per semester 31 19 15 8 2 0 M CE 411 Steel Structures 5 3 2 2 0 M CE 411 Steel Structures 5 3 2 2 0 M CE 411 Construction Management 5 3 3 0 0 M CE 491 Graduation Project Study 6 3 0 6 M M CE XXX Department Elective Courses 5 3 2 2 0 M XXX Technical Elective 4 3 3 0 0 M XXX Technical Elec	CE 321	Soil Mechanics	5	3	2	2	1	TM	
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ENG 300Summer Practice I10000MENG 401Occupational Health and Safety I111100SOTotal credit per semester31191582Seventh SemesterCodeCourse NameECTSCTULTypCE 411Steel Structures53220M*CE 441Construction Management53300M*CE 491Graduation Project Study63060M*CE XXXDepartment Elective Courses53220M*XXXTechnical Elective43300M*XXXTechnical Elective43300M*	CE 361	Hydraulics	5	3	2	2	1	MT	
ENG 401Occupational Health and Safety I111100SOTotal credit per semester31191582Seventh SemesterCodeCourse NameECTSCTULTypCE 411Steel Structures53220M*CE 441Construction Management53300M*CE 491Graduation Project Study63060M*CE XXXDepartment Elective Courses53220M*CE XXXDepartment Elective Courses43300M*XXXTechnical Elective43300M*ENG 400Summer Practice II10000M*	CE XXX	Department Elective Courses	4	3	3	0	0	MT	
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Seventh SemesterCodeCourse NameECTSCTULTypCE 411Steel Structures53220M*CE 411Construction Management53300M*CE 491Graduation Project Study63060M*CE XXXDepartment Elective Courses53220M*CE XXXDepartment Elective Courses43300M*XXXTechnical Elective43300M*ENG 400Summer Practice II10000M*	ENG 401	Occupational Health and Safety I	1	1	1	0	0	SOS	
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CE 411Steel Structures53220MCE 411Construction Management53300MCE 491Graduation Project Study63060MCE XXXDepartment Elective Courses53220MCE XXXDepartment Elective Courses53220MXXXTechnical Elective43300MENG 400Summer Practice II1000M	Seventh Semester								
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CE 491Graduation Project Study6306MCE XXXDepartment Elective Courses53220MCE XXXDepartment Elective Courses43300MXXXTechnical Elective43300MENG 400Summer Practice II1000M	CE 411	Steel Structures	5	3	2	2	0	MT	
CE XXXDepartment Elective Courses53220M°CE XXXDepartment Elective Courses43300M°XXXTechnical Elective43300M°ENG 400Summer Practice II1000M°	CE 441	Construction Management	5	3	3	0	0	MT	
CE XXXDepartment Elective Courses43300MXXXTechnical Elective43300MENG 400Summer Practice II1000M	CE 491	Graduation Project Study	6		0	-	0	MT	
XXX Technical Elective 4 3 0 0 M ENG 400 Summer Practice II 1 0 0 0 M		Department Elective Courses	5	3	2	2	0	MT	
ENG 400 Summer Practice II 1 0 0 0 M	CE XXX	Department Elective Courses	4	3	3	0	0	MT	
	XXX	Technical Elective	4	3	3	0	0	MT	
	ENG 400	Summer Practice II	1	0	0	0		MT	
Total credit per semester 30 18 13 10 0		Total credit per semester	30	18	13	10	0		

	Second Semester						
Code	Course Name	ECTS	С	т	U	L	Туре
E 102	Technical Drawing for Civil Engineers	3	2	1	2	2	TM
E 105	Engineering Mechanics	5	4	3	2	0	ТМ
	Academic English	2	2	2	0	0	SOS
E 103	Introduction to Computers and Programming for Civil Er	4	3	2	2	2	ТВ
/ATH 102	Calculus II	7	5	4	2	0	ТВ
	Physics II	6	4	4	0	0	TB
	Physics Laboratory II	1	1	0	2	2	TB
HIS 102	Principles of Atatürk and the History of Turkish Revolution	2	2	2	0	0	SOS
TUR 102	Turkish II	2	2	2	0	0	SOS
01102	Total credit per semester	32	25	20	10	6	500
	Fourth Semester	02	25	20	10		
Code	Course Name	ECTS	С	Т	U	L	Туре
E 202	Topography	3	2	1	2	0	TM
E 202	Strength of Materials II	5	3	2	2	1	TM
E 232	Construction Materials	5	3	2	2	1	MT
CE 241	Engineering Economics for Civil Engineers	4	3	3	0	0	TM
CE 261	Fluid Mechanics	5	3	2	2	1	TM
	Linear Algebra	5	3	2	2	0	TB
VIAIII IIU	Non-Technical Elective Course II	3	3	3	0	0	SOS
		30	20	5 16	8	3	303
	Total credit per semester	30	20	10	0	3	
Guda	Sixth Semester	FOTO	6	-			_
Code	Course Name	ECTS	C	T	U	L	Тур
CE 312	Theory of Structures II	5	3	2	2	0	MT
CE 313	Reinforced Concrete Structures	5	3	2	2	0	MT
CE 322	Foundation Engineering	5	3	2	2	0	MT
CE 362	Water Resources Engineering	5	3	2	2	0	MT
CE XXX	Department Elective Courses	4	3	3	0	0	MT
CE 301	Introduction to Civil Engineering Design	4	3	2	2	0	MT
NG 402	Occupational Health and Safety II	1	1	1	0	0	SOS
	Total credit per semester	29	19	14	10	0	
	Eigth Semester						
						L	Туре
Code	Course Name	ECTS	С	Т	U	-	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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CE 492	Course Name						MT
Code CE 492 CE XXX CE XXX	Course Name Graduation Project	6	3	0	6	0	MT MT
CE 492 CE XXX	Course Name Graduation Project Department Elective Courses	6 6	3 4	0 3	6 2	0 0	MT MT MT
CE 492 CE XXX CE XXX CE XXX	Course Name Graduation Project Department Elective Courses Department Elective Courses	6 6 6	3 4 4	0 3 3	6 2 2	0 0 0	MT MT MT MT
ce 492 Ce XXX Ce XXX Ce XXX	Course Name Graduation Project Department Elective Courses Department Elective Courses Department Elective Courses	6 6 6	3 4 4 4	0 3 3 3	6 2 2 2	0 0 0 0	MT MT MT MT
CE 492 CE XXX CE XXX CE XXX	Course Name Graduation Project Department Elective Courses Department Elective Courses Department Elective Courses Department Elective Courses Total credit per semester	6 6 6	3 4 4 4	0 3 3 3	6 2 2 2	0 0 0 0	MT MT MT MT
CE 492 CE XXX CE XXX CE XXX	Course Name Graduation Project Department Elective Courses Department Elective Courses Department Elective Courses Department Elective Courses	6 6 6 6	3 4 4 4	0 3 3 3 3	6 2 2 2 2	0 0 0 0	MT MT MT MT
CE 492 CE XXX CE XXX	Course Name Graduation Project Department Elective Courses Department Elective Courses Department Elective Courses Department Elective Courses Total credit per semester or	6 6 6 6	3 4 4 4	0 3 3 3 3	6 2 2 2 2	0 0 0 0	MT MT MT MT
CE 492 CE XXX CE XXX CE XXX CE XXX CE XXX	Course Name Graduation Project Department Elective Courses Department Elective Courses Department Elective Courses Department Elective Courses Total credit per semester or Eigth Semester Course Name	6 6 6 6 30	3 4 4 4 4 19	0 3 3 3 3	6 2 2 2 2 14	0 0 0 0	МТ МТ МТ МТ Туре
CE 492 CE XXX CE XXX CE XXX CE XXX CE XXX	Course Name Graduation Project Department Elective Courses Department Elective Courses Department Elective Courses Department Elective Courses Total credit per semester or Eigth Semester	6 6 6 30 <i>ECTS</i>	3 4 4 4 4	0 3 3 3 3 12	6 2 2 2 2 14	0 0 0 0 0	мт мт мт мт мт Туре МТ

	Department Elective Courses						
Code	Course Name	ECTS	С	Т	U	L	Туре
CE 302	Advanced Programming Techniques for Engineers	4	3	2	2	2	MT
CE 323	Natural Hazards and Disasters	4	3	3	0	0	MT
CE 324	Geoenvironmental Engineering	4	3	3	0	0	MT
CE 331	Concrete Technology	4	3	3	0	0	MT
CE 332	Durability of Concrete	4	3	3	0	0	MT
CE 342	Construction Law and Engineering Ethics	4	3	3	0	0	MT
CE 352	Traffic Engineering	4	3	3	0	0	MT
CE 363	Introduction to Coastal Engineering	4	3	3	0	0	MT
CE 364	Hydrology	4	3	3	0	0	MT
CE 415	Earthquake Resistant Design of Structures	5	3	2	2	0	MT
CE 417	Seismic Design of Reinforced Concrete and Steel Structures	5	3	2	2	0	MT
CE 418	Computer-Aided Structural Analyses	5	3	2	2	0	MT
CE 419	Pre-stressed Concrete	5	3	2	2	0	MT
CE 423	Modern Techniques in Foundation Engineering	5	3	2	2	0	MT
CE 424	Soil Improvement	5	3	2	2	0	MT
CE 425	Geotechnical Tests for Design and Construction	5	3	2	2	0	MT
CE 426	Design of Reinforced Soil Structures	5	3	2	2	0	MT
CE 443	Introduction to Geotechnical Earthquake Engineering	5	3	2	2	0	MT
CE 443	Construction Planning and Scheduling	5	3	2	2	0	MT
CE 445	Construction Health and Safety	5	3	2	2	0	MT
CE 412	Design of Reinforced Concrete Structures	6	4	3	2	0	MT
CE 413	Design of Steel Structures	6	4	3	2	0	MT
CE 422	Design of Foundations, Retaining Structures and Slopes	6	4	3	2	0	MT
CE 442	Civil Engineering system analysis and Design	6	4	3	2	0	MT
CE 451	Highway Engineering Design	6	4	3	2	0	MT
CE 461	Water Supply and Waste Water Disposal Design	6	4	3	2	0	MT
CE 462	Coastal and Harbor Structures Design	6	4	3	2	0	MT
CE 414	Bridge Design	6	4	3	2	0	MT
CE 421	Design and Construction of Underground Structures	6	4	3	2	0	MT
CE 463	Marine Structures Design	6	4	3	2	0	MT

Prerequisites

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Code	Course Name	Prerequisite/s
MATH 102	2 Calculus II	MATH 101
MATH 21	5 Differantial Equations	MATH 102
CE 105	Engineering Mechanics	PHYS 121
CE 201	Probability, Statistics, Risk and Reliability for Civil Engineers	CE 103
CE 205	Strength of Materials I	CE 105
CE 206	Strength of Materials II	CE 205
CE 231	Materials Science	CHEM 101
CE 261	Fluid Mechanics	MATH 215, CE 105
CE 281	Introduction to Building Science and Design	CE 101, CE 102
CE 312	Theory of Structures II	CE 311
CE 313	Reinforced Concrete Structures	CE 232, CE 205
CE 321	Soil Mechnanics	CE 221, CE 205
CE 322	Foundation Engineering	CE 321
CE 361	Hydraulics	CE 261
CE 362	Water Resources Engineering	CE 361
CE 411	Steel Structures	CE 205, CE 232