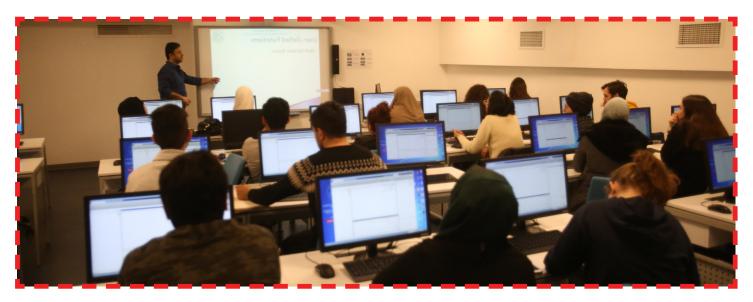


Türkiye'nin Beyin Üssü

BİLGİSAYAR MÜHENDİSLİĞİ

Öğrenim Dili: İngilizce (Zorunlu İngilizce Hazırlık) Puan Türü: SAY



Bilgisayar mühendisliği bölümünün amacı öğrencilere mühendislik teknolojilerini gerçek sistemlere güvenli bir şekilde uygulama becerisi kazandırmak, biyoloji ve sağlık alanındaki problemleri mühendislik yöntemleri ile çözmek için araştırmalar yürütmek, bilgisayar sistemlerinin yapısı, tasarımı, geliştirilmesi ve bu sistemlerin kullanımları konularında eğitim vermek ve araştırma yapılmasını sağlamaktır. Ayrıca bilgisayar mühendislerinin disiplinler arası takımların teknoloji ortak paydalarında rol almalarını sağlayarak, meslekler arası etkin iletişim yeteneklerini geliştirmelerine katkıda bulunmaktır. Tüm bu amaçlar doğrultusunda Üsküdar Üniversitesi Bilgisayar Mühendisliği bölümünde %100 oranında İngilizce dilinde eğitim yapılmaktadır.

• Bilgisayar Mühendisliği, tasarım ve üretimin en üst düzeyde olduğu, dünya çapında kendisini kanıtlamış, birçok alt alanı bulunan ve sürekli gelişmekte olan bir mühendislik alanıdır.

 Bilgisayar Mühendisliği eğitimi alan bir kişi sadece günümüz teknolojisini değil, geleceği; sadece kullanmayı değil, tasarlamayı, daha iyisini yapmayı öğrenir, gerçek dünya sorunlarına çözümler bulmayı öğrenir.

• Bilgisayar Mühendisliği tüm mühendislik dalları içinde düşünceden aksiyona en kısa yolun olduğu alandır. Birkaç gün, belki de birkaç saat içinde aklınızdan geçeni çalışan bir programa dönüştürmeniz mümkündür.

• Dünyada popülerliği artan, önümüzdeki yıllarda da hep gözde olacak bir daldır.

• Toplumsal hayatın hemen hemen her alanında, tüm kurumlarda uygulama alanı olan bir daldır. Mezunlar her sektörün bilgi teknolojileri ile ilgili birimlerinde mühendis ve yönetici olarak çalışabilir.

• Diğer mühendislikler ile karşılaştırıldığında büyük sermaye istemeden, neredeyse bir bilgisayar ve bir İnternet bağlantısı ile iş kurabileceğiniz bir daldır.

• Bilgisayar Mühendislerinin ortaya koyduğu ürünler pek çok alanda yaşamımızı değiştirmektedir. Tıp, uzay araştırmaları, robotlar, internet, filmlerdeki özel efektler, müzik, mobil telefonlar, el bilgisayarları, arabalar, uçaklar, oyunlar, aslında neredeyse günlük aktivitelerimizin birçoğu bilgisayar mühendisliğinin ürettiklerine ve katkılarına dayanmaktadır. bilgisayar teknolojisi ile modellemeye ve çözmeye çalışan bilgisayar mühendislerinin iş olanakları günümüzde çok yönlüdür.

• Firmaların ihtiyaç duyduğu yazılımları tasarlayan ve yazan yazılım uzmanları;

• Bilgisayar ağlarını planlayan ve kuran sistem mühendisleri;

• Firmaların tüm verilerinin tutulduğu veri tabanlarını tasarlayan ve bakımını sağlayan veri tabanı yöneticileri;

• Firmaların yeni ürünlerinin ortaya çıkarabilmesi için Araştırma-Geliştirme birimlerinde görev alan AR-GE çalışanları Bilgisayar Mühendisliği Bölümü mezunlarından seçilmektedir.

• Bilgisayar teknolojisinin kullanıldığı ürünlerin satışı, pazarlanması ve satış sonrası hizmetlerin organizasyonunun Bilgisayar Mühendisliği eğitimi almış kişiler tarafından sağlanması ülkemizde eksikliği fazlasıyla duyulan iş alanlarından biridir.

• Bölüm mezunlarının iş olanaklarından bir tanesi de akademik kariyer yapmaktır. Ülkemizde Bilgisayar Mühendisliği alanında yüksek lisans ve doktora yaparak belirli bir alanda uzmanlaşan öğretim üyelerine duyulan ihtiyaç her geçen gün artmaktadır.

Tüm bu ilgi alanları, farklı sektörlerde Bilgisayar Mühendislerinin çalışma alanları bulunduğunu ortaya koymaktadır.

İstihdam Olanakları: Bilgisayar mühendisliği bölümü mezunlarının yönetim, eğitim, endüstri, ticaret ve hizmet alanlarında faaliyet gösteren çeşitli kamu kuruluşları ile özel kuruluşlarda, bankalarda, üniversitelerde, bilgisayar donanım ve yazılımı üreten ve pazarlayan firmalarda çalışma olanakları vardır. Ayrıca mezunlar sağlık bilişimi alanında uzmanlaşarak hastanelerde de görev alabilirler.

Çalışabilecekleri Yerler: Bilgi teknolojilerinin kullanıldığı tüm sektörlerde Bilgisayar Mühendisleri çalışabilmektedir. Bu sektörlerden bazıları şu şekilde sıralanabilir:

- Yazılım sektörü
- Bilgisayar donanım ve yazılımı üreten ve pazarlayan firmalar
- Telekomünikasyon sektörü
- Savunma sanayi
- Bankacılık ve finans sektörü
- Otomotiv sektörü
- Eğitim sektörü

İlgilendiği konulara örnekler: Her türlü mühendislik problemini

MÜHENDİSLİK ve DOĞA BİLİMLERİ FAKÜLTESİ



BİLGİSAYAR MÜHENDİSLİĞİ

DERS PROGRAMI

							YEAR	ONE							
	1st Term			1		1			2nd Term	1	1	1	1 .	1	
Code	Course Name	т	Р	L	С	_	Prerequisite		Course Name	т	Р	L	С		Prerequisite
COME103	Introduction to Computer Engineering	3	0	0	3	4		COME102	Introduction to Algorithms and Programming*	2	0	2	3	4	
MATH101	Calculus I*	3	2	0	4	6		COME104	Discrete Mathematics	3	0	0	3	4	
PHYS101	Physics I*	3	0	2	4	6		MATH102	Calculus II*	3	2	0	4	6	
	General Chemistry I*	3	0	2	4	6		MATH104	Basic Linear Algebra*	2	0	2	3	5	
	English-I	3	0	0	3	3		PHYS102	Physics II*	3	0	2	4	6	
RPSC109	Positive Psychology and Communication Skills	3	0	0	3	5		ENG102	English II	3	0	0	3	3	
RCUL101	University Culture I*	0	2	0	1	1		RCUL102	University Culture II*	0	2	0	1	1	
Total Credits		18	4	4	22	31		Total Credits		16	4	6	21	29	
							YEAR	тwo							
	3rd Term								4th Term						
Code	Course Name	Т	Р	L	С	_	Prerequisite	Code	Course Name	т	Р	L	С	ECTS	Prerequisite
COME205	Data Structures*	2	0	2	3	5	COME102	COME204	Logic Circuits*	3	0	2	4	6	
COME209	Introduction to Signals and Systems*	2	2	0	3	5	MATH101/2	COME206	Object Oriented Programming*	3	0	2	4	6	COME205
COME215	Electronic Circuits*	3	0	2	4	6	PHYS102	COMEXXX	Departmental Elective I	3	0	0	3	5	
MATH203	Differential Equations*	2	2	0	3	5		MATH204	Statistics	3	0	0	3	5	
RPRE104	Entrepreneurship and Project Culture	2	0	0	2	3		TURK102	Turkish Language II	2	0	0	2	3	
TURK101	Turkish Language I	2	0	0	2	3		ATA102	Principles of Atatürk and History of Turkish Revolution II	2	0	0	2	3	
ATA101	Principles of Atatürk and History of Turkish Revolution I	2	0	0	2	3		COME284	Summer Practice I**	0	0	0	0	5	
Total Credits		15	4	4	19	30		Total Credits		16	0	4	18	33	
							YEAR 1								
	5th Term								6th Term						
Code	Course Name	т	Р	L	С	ECTS	Prerequisite	Code	Course Name	т	Р	L	С	ECTS	Prerequisite
COME301	Database Management Systems*	2	0	2	3	5		COME302	Operating Systems	3	0	0	3	5	COME205
COME305	Analysis of Algorithms	3	0	0	3	5	COME205	COME322	Microprocessors*	2	0	2	3	5	COME315
COME315	Computer Architecture	3	0	0	3	5		COMEXXX	Departmental Elective III (Project Based)	3	0	0	3	5	
COMEXXX	Departmental Elective II (Project Based)	3	0	0	3	5		MATH302	Numerical Analysis	3	0	0	3	6	
	Field Elective I	3	0	0	3	5		COME384	Summer Practice II**	0	0	0	0	5	
XXXXXX	Social Elective I	3	0	0	3	5		XXXXXX	Social Elective II	3	0	0	3	5	
Total Credits		17	0	2	18	_		Total Credits		14	0	2	_	31	
							YEAR								
	7th Term								8th Term						
Code	Course Name	Т	Р	L	С	ECTS	Prerequisite	Code	Course Name	Т	Р	L	С	ECTS	Prerequisite
COME413	Computer Networks	3	0	0	3	5		COME492	Graduation Thesis*	0	0	4	2	8	
COME491	Graduation Project	2	0	0	2	7		COMEXXX	Departmental Elective V	3	0	0	3	5	
	Departmental Elective IV	3	0	0	3	5		COMEXXX	Departmental Elective VI	3	0	0	3	5	
	Field Elective II	3	0	0	3	5		XXXXXX	Field Elective IV	3	0	0	3	5	
XXXXXX	Field Elective III	3	0	0	3	5		XXXXXX	Social Elective III	3	0	0	3	5	
OHS401	Occupational Health and Safety I	2	0	0	2	2		OHS402	Occupational Health and Safety II	2	0	0	2	2	
Total Credits		16	0	0	16	29		Total Credits			0	4	16	30	
			U	U	10	23		Total Credits		14	U		10		
					10	23		Total credits		14	U		10		
	Total Course Credits for Graduation		. 1	45	10			Total credits	COME284 Hardware based summer practice	14	0		10		
	Total Course ECTS for Graduation		1	45 43	10	25		Total credits		14			10		
	Total Course ECTS for Graduation Total Elective Courses ECTS		1	45 43 55	10			Total creats	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status.	14			10		
	Total Course ECTS for Graduation		1	45 43	10		1	Total Creats	COME284 Hardware based summer practice COME384 Software based summer practice	14					
	Total Course ECTS for Graduation Total Elective Courses ECTS		1	45 43 55	10				COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status.	14			10		
	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio		1 2 (2	45 43 55 7%				ourse - Pool	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status.						
Code	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses	T	1 2 (2	45 43 55 7%	K	ECTS	Elective C Prerequisite	ourse - Pool Code	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Seçmeli Yabancı Diller	т	U		К	ECTS	Prerequisite
COME218	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages	T 2	1 2 0 2 U 0	45 43 55 7%	<u>К</u> З	ECTS 5		ourse - Pool Code ARB123	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmeli Yabancı Diller Arabic I	T 3	U 0	L 0	<u>к</u> З	ECTS 5	
COME218 COME306	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing	T 2 3	1 2 0 2 U 0	45 43 55 7%	К 3 3	ECTS 5 5		ourse - Pool Code ARB123 ARB124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmeli Yabanci Diller Arabic I Arabic I	T 3 3	U 0	L 0	К 3 3	ECTS 5 5	Prerequisite ARB123
COME218 COME306 COME310	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems	T 2 3 3	1 2 0 U 0 0	45 43 55 7% L 2 0 0	К 3 3	ECTS 5 5 5		ourse - Pool Code ARB123 ARB124 CHN123	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Seçmeli Yabancı Diller Arabic I Arabic I Chinese I	T 3 3 3	U 0 0	L 0 0 0	К 3 3 3	ECTS 5 5 5	ARB123
COME218 COME306 COME310 COME311	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security	T 2 3 3 3 3	1 2 2 U 0 0 0 0 0	45 43 55 7% L 2 0 0 0 0	К 3 3 3	ECTS 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN123 CHN124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Seçmeli Yabancı Diller Arabic I Arabic I Chinese I Chinese I	T 3 3 3 3	U 0 0 0	L 0 0 0 0	К 3 3 3 3	ECTS 5 5 5 5 5 5	
COME218 COME306 COME310 COME311 COME312	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design	T 2 3 3 3 3 3	1 2 2 U 0 0 0 0 0 0	45 43 55 7% 2 0 0 0 0 0 0 0	К 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN123 CHN123 CHN124 ESP123	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmell Yabanci Diller Arabic I Arabic I Chinese I Chinese II Spanish I	T 3 3 3 3 3 3 3	U 0 0 0 0 0	L 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 55 55 55 55 55	ARB123 CHN123
COME218 COME306 COME310 COME311 COME312 COME313	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling	T 2 3 3 3 3 3 3 3 3 3	1 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN123 CHN124 ESP123 ESP124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmeli Yabancı Diller Arabic I Arabic I Chinese I Chinese II Chinese II Spanish I Spanish II	T 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123
COME218 COME306 COME310 COME311 COME312 COME313 COME314	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems	T 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN123 CHN124 ESP123 ESP124 FRN123	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Seçmeli Yabancı Diller Arabic I Arabic I Chinese I Chinese I Chinese II Spanish II Spanish II French I	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123
COME218 COME306 COME310 COME311 COME312 COME313 COME314 COME317	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics	T 2 3 3 3 3 3 3 3 3 3 2	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN123 CHN124 ESP123 ESP124 FRN123 FRN124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmell Yabancı Diller Arabic I Arabic I Chinese I Chinese I Chinese I Chinese II Spanish I Spanish II French I French I	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123
COME218 COME306 COME310 COME311 COME312 COME313 COME314 COME317 COME318	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics	T 2 3 3 3 3 3 3 3 3 3 3 3 2 3 3	1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN123 CHN124 ESP124 ESP123 ESP124 FRN123 FRN124 GER123	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmeli Yabancı Diller Arabic I Arabic I Arabic I Chinese I Chinese II Chinese II Spanish I Spanish II French II French II German I	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123
COME218 COME306 COME310 COME311 COME312 COME313 COME314 COME317 COME318 COME319	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming	T 2 3 3 3 3 3 3 3 3 2 3 3 2 2 3	1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN123 CHN123 CHN124 ESP123 ESP124 FRN123 FRN123 GER123 GER124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Seçmeli Yabancı Diller Arabic I Arabic I Arabic I Chinese I Chinese II Chinese II Spanish I Spanish II French II French II German II German II	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123
COME218 COME306 COME310 COME311 COME312 COME313 COME314 COME317 COME318 COME319 COME324	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Visual Programming	T 2 3 3 3 3 3 3 3 3 3 3 3 2 2 2 2	1 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Ourse - Pool Code ARB123 ARB124 CHN123 CHN124 ESP123 ESP124 FRN123 FRN124 GER124 GER124 RSN123	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. * These courses are under the Internship Course status. Secmell Yabancı Diller Arabic I Arabic I Chinese I Chinese I Chinese I Chinese II Spanish II Spanish II French I French I German I German II Russian I	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123
COME218 COME306 COME310 COME311 COME312 COME312 COME314 COME317 COME317 COME319 COME324 COME326	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Web Programming Web Programming	T 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 2 2 2 2	1 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN123 CHN123 CHN124 ESP123 ESP124 FRN123 FRN123 GER123 GER124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Seçmeli Yabancı Diller Arabic I Arabic I Arabic I Chinese I Chinese II Chinese II Spanish I Spanish II French II French II German II German II	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123
COME218 COME306 COME310 COME311 COME312 COME312 COME314 COME317 COME318 COME319 COME324 COME326	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Visual Programming	T 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 2 2 2 2 2 3	1 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Ourse - Pool Code ARB123 ARB124 CHN123 CHN124 ESP123 ESP124 FRN123 FRN124 GER124 GER124 RSN123	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmeli Yabancı Diller Arabic I Arabic I Chinese I Chinese II Chinese II Spanish II Spanish II French I French I German I German II Russian I Russian II	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123
COME218 COME306 COME310 COME311 COME312 COME313 COME314 COME317 COME318 COME319 COME324 COME326 COME401 COME402	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Visual Programming Visual Programming Web Programming Data Mining Artificial Neural Networks	T 2 3 3 3 3 3 3 3 3 3 3 3 3 3 2 2 3 3 2 2 2 2 3 3	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 2 2 0 0 2 2 0	K 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Ourse - Pool Code ARB123 ARB124 CHN123 CHN124 ESP123 ESP124 FRN123 FRN124 GER124 GER124 RSN123	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. * These courses are under the Internship Course status. Secmell Yabancı Diller Arabic I Arabic I Chinese I Chinese I Chinese I Chinese II Spanish II Spanish II French I French I German I German II Russian I	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123
COME218 COME306 COME310 COME311 COME312 COME313 COME314 COME314 COME314 COME319 COME324 COME324 COME402 COME402 COME403	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Course Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Web Programming Web Programming Web Programming Mush Neural Networks Software Engineering	T 2 3 3 3 3 3 3 3 3 3 3 2 2 2 2 2 2 2 3 3 3 3 3	1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 77% 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 2 0 2 2 0 0 2 0	K 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN124 CHN124 ESP123 ESP124 FRN124 GER123 GER123 GER124 RSN123 RSN124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmeli Yabancı Diller Arabic I Arabic I Chinese I Chinese I Chinese II Spanish I Spanish I French I French I French II German II German II German II Russian I Russian I	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123 RSN123
COME218 COME306 COME310 COME311 COME312 COME314 COME314 COME317 COME318 COME319 COME324 COME326 COME402 COME402 COME403 COME404	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Courses ECTS Elective Courses Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Visual Programming Visual Programming Data Mining Artificial Neural Networks Software Engineering Fuzzy Controllers	T 2 3 3 3 3 3 3 3 3 3 3 3 2 2 2 2 2 2 2	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0 0 2 2 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN124 CHN124 ESP123 ESP124 FRN124 GER123 GER123 GER124 RSN123 RSN124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmell Yabancı Diller Arabic I Arabic I Chinese I Chinese II Chinese II Spanish II Spanish II French I French II German I German II Russian I Russian I Russian II Field Elective Courses	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123 RSN123
COME218 COME306 COME310 COME311 COME312 COME313 COME314 COME314 COME314 COME319 COME319 COME324 COME326 COME401 COME402 COME403 COME404 COME404	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Courses ECTS Elective Courses ECTS Elective Courses atto Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Visual Programming Visual Programming Data Microllang Artificial Neural Networks Software Engineering Fuzzy Controllers Eruzy Controllers Artificial Intelligence Event	T 2 3 3 3 3 3 3 3 3 3 3 3 2 2 2 2 2 2 3	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 57 7% 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0 0 0 0 2 2 2 2 0	K 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN124 CHN124 ESP123 ESP124 FRN124 GER123 GER123 GER124 RSN123 RSN124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmeli Yabancı Diller Arabic I Arabic I Chinese I Chinese I Chinese II Spanish I Spanish I French I French I French II German II German II German II Russian I Russian I	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123 RSN123
COME218 COME306 COME310 COME311 COME312 COME313 COME314 COME314 COME317 COME319 COME319 COME326 COME401 COME401 COME402 COME403 COME405 COME405 COME406	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Courses ECTS Elective Courses ECTS Elective Courses Ratio Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Visual Programming Visual Programming Data Mining Artificial Neural Networks Software Engineering Fuzzy Controllers Artificial Intelligence Prarallel Computing	T 2 3 3 3 3 3 3 3 3 3 3 2 2 2 2 2 2 3	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 57 7% 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0 0 2 2 2 2 2 2 0	K 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN124 CHN124 ESP123 ESP124 FRN124 GER123 GER123 GER124 RSN123 RSN124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmell Yabancı Diller Arabic I Arabic I Chinese I Chinese II Spanish I Spanish I Spanish II French I French II German II German II Russian I Russian I Russian I Russian I Field Elective Courses ctive courses, any departmental elective course having app Faculty of Engineering and Natural Sciences	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123 RSN123
COME218 COME306 COME310 COME311 COME312 COME313 COME314 COME314 COME317 COME318 COME319 COME324 COME326 COME401 COME402 COME403 COME403 COME404 COME405 COME406 COME407	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Courses ECTS Elective Courses ECTS Elective Courses Action Digital Signal Processing Real Time Systems Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Visual Programming Visual Programming Data Mining Artificial Neural Networks Software Engineering Fuzzy Controllers Artificial Intelligence Parallel Computing Image Processing	T 2 3 3 3 3 3 3 3 3 3 2 2 2 3 3 3 2 2 2 3	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 77 2 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN124 CHN124 ESP123 ESP124 FRN124 GER123 GER123 GER124 RSN123 RSN124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmell Yabancı Diller Arabic I Arabic I Chinese I Chinese II Chinese II Spanish II Spanish II French I French II German I German II Russian I Russian I Russian II Field Elective Courses	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123 RSN123
COME218 COME306 COME310 COME311 COME312 COME313 COME314 COME314 COME314 COME319 COME324 COME326 COME401 COME402 COME402 COME404 COME405 COME405 COME405 COME407 COME408	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Courses ECTS Elective Courses ECTS Elective Courses Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Visual Programming Data Mining Artificial Neural Networks Software Engineering Fuzzy Controllers Artificial Intelligence Parallel Computing Image Processing Network Security Network Security	T 2 3 3 3 3 3 3 3 3 3 3 3 2 2 2 2 2 3	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 2 0 0 0 0 0 0 0 0 0 0 0 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	K 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN124 CHN124 ESP123 ESP124 FRN124 GER123 GER123 GER124 RSN123 RSN124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmell Yabancı Diller Arabic I Arabic I Chinese I Chinese II Spanish I Spanish I Spanish II French I French II German II German II Russian I Russian I Russian I Russian I Field Elective Courses ctive courses, any departmental elective course having app Faculty of Engineering and Natural Sciences	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123 RSN123
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COME218 COME306 COME310 COME311 COME312 COME313 COME314 COME314 COME314 COME319 COME324 COME326 COME401 COME402 COME402 COME404 COME405 COME405 COME405 COME407 COME408	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Courses ECTS Elective Courses ECTS Elective Courses Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Visual Programming Data Mining Artificial Neural Networks Software Engineering Fuzzy Controllers Artificial Intelligence Parallel Computing Image Processing Network Security Network Security	T 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 2 0 0 0 0 0 0 0 0 0 0 0 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN124 CHN124 ESP123 ESP124 FRN124 GER123 GER123 GER124 RSN123 RSN124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmell Yabancı Diller Arabic I Arabic I Chinese I Chinese II Spanish I Spanish I Spanish II French I French II German II German II Russian I Russian I Russian I Russian I Field Elective Courses ctive courses, any departmental elective course having app Faculty of Engineering and Natural Sciences	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123 RSN123
COME218 COME206 COME306 COME310 COME312 COME313 COME314 COME314 COME317 COME318 COME319 COME324 COME326 COME401 COME402 COME402 COME405 COME405 COME405 COME405 COME406 COME407 COME409 COME409 COME409 COME410	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Courses ECTS Elective Courses ECTS Elective Courses Ratio Departmental Elective Courses Programming Languages Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Visual Programming Visual Programming Data Mining Artificial Neural Networks Software Engineering Fuzzy Controllers Artificial Intelligence Parallel Computing Image Processing Network Security Automata Theory Mathematical Theory	T 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 0	K 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN124 CHN124 ESP123 ESP124 FRN124 GER123 GER123 GER124 RSN123 RSN124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmell Yabancı Diller Arabic I Arabic I Chinese I Chinese II Spanish I Spanish I Spanish II French I French II German II German II Russian I Russian I Russian I Russian I Field Elective Courses ctive courses, any departmental elective course having app Faculty of Engineering and Natural Sciences	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123 RSN123
COME218 COME206 COME306 COME310 COME312 COME313 COME314 COME314 COME317 COME318 COME319 COME324 COME326 COME401 COME402 COME402 COME405 COME405 COME405 COME405 COME406 COME407 COME409 COME409 COME409 COME410	Total Course ECTS for Graduation Total Elective Courses ECTS Elective Courses ECTS Elective Courses ECTS Elective Courses Ratio Digital Signal Processing Real Time Systems Data Security User Interface Design Mathematical Modelling Introduction to Control Systems Intelligent Robotics Computer Graphics Mobile Programming Visual Programming Visual Programming Software Engineering Fuzzy Controllers Artificial Intelligence Parallel Computing Image Processing Network Security Automata Theory Systems Programming	T 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 43 55 7% 2 0 0 0 0 0 0 0 0 0 0 0 2 2 2 2 0 0 0 2 2 2 0	К 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ourse - Pool Code ARB123 ARB124 CHN124 CHN124 ESP123 ESP124 FRN124 GER123 GER123 GER124 RSN123 RSN124	COME284 Hardware based summer practice COME384 Software based summer practice * These courses are under the Applied Course status. ** These courses are under the Internship Course status. Secmeli Yabancı Diller Arabic I Arabic I Chinese I Chinese II Spanish I Spanish II French I French II German II German II Russian II Russian II Field Elective Courses Social Elective Courses	T 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ECTS 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123 RSN123
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