

MUĞLA SITKI KOÇMAN ÜNİVERSİTESİ
FACULTY OF ENGINEERING / MÜHENDİSLİK FAKÜLTESİ
DEPARTMENT OF COMPUTER ENGINEERING / BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ
EĞİTİM-ÖĞRETİM PROGRAMI

Y: Yıl, D: Dönem, T-U-L: Teorik-Uygulama-Lab Saatleri, K: Kredi, Z/S: Zorunlu/Seçmeli ders

Ders Kodu	Ders Adı	Y	D	Kredi					Ön Koşul	Yan Koşul
				T	U	L	K	Z/S		
I. DÖNEM										
PHYS 1851	General Physics I	1	1	3	0	2	6	Z		
MATH 1851	Calculus I	1	1	4	2	0	6	Z		
ENG 1803	Academic Writing and Oral Presentation Skills I	1	1	1	2	0	2	Z		
ISG 1801	Occupational Health and Safety I	1	1	2	0	0	2	Z		
BIO 1851	Introduction to Biology	1	1	3	0	0	4	Z		
TDB 1801	Turkish I	1	1	2	0	0	2	Z		
CENG 1003	Programming Fundamentals	1	1	3	2	0	6	Z		
CENG 1005	Computer Science Orientation	1	1	2	1	0	2	Z		
								AKTS	30	

II. DÖNEM

PHYS 1852	General Physics II	1	2	3	0	2	6	Z		
MATH 1852	Calculus II	1	2	4	2	0	6	Z		
ENG 1804	Academic Writing and Oral Presentation Skills II	1	2	1	2	0	2	Z		
ISG 1802	Occupational Health and Safety II	1	1	2	0	0	2	Z		
CENG 1004	Introduction to Object Oriented Programming	1	2	3	2	0	6	Z		
CENG 1006	Social and Professional Issues in Comp. Science	1	2	2	1	0	2	Z		
MATH 1854	Basic Linear Algebra for Engineers	1	2	3	0	0	4	Z		
TDB 1802	Turkish II	1	2	2	0	0	2	Z		
								AKTS	30	

III. DÖNEM

MATH 2853	Differential Equations	2	3	4	0	0	4	Z		
CENG 2001	Data Structures and Algorithms	2	3	3	0	0	6	Z		
CENG 2003	Discrete Computational Structures	2	3	3	0	0	5	Z		
CENG 2031	Digital Logic Design	2	3	3	0	2	6	Z		
ATB 2801	Principles of Kemal Ataturk I	2	3	2	0	0	2	Z		
ENG 2801	Academic Writing and Oral Presentation Skills III	2	3	3	0	0	4	Z		
	Free Elective (BİS/BDS)	2	3				3	S		
								AKTS	30	

IV. DÖNEM

CENG 2002	Programming Language Concepts	2	4	3	2	0	6	Z		
CENG 2006	Statistics and Probability for Engineers	2	4	3	0	0	4	Z		
CENG 2008	Database Management Systems	2	4	3	2	0	5	Z		
CENG 2032	Computer Organization	2	4	3	0	0	5	Z		
CENG 2034	Operating Systems	2	4	3	0	0	5	Z		
ATB 2802	Principles of Kemal Ataturk II	2	4	2	0	0	2	Z		
	Free Elective (BİS/BDS)	2	4				3	S		
								AKTS	30	

V. DÖNEM

CENG 3001	Summer Practice I	3	5	0	0	0	4	Z		
CENG 3003	Design and Analysis of Algorithms	3	5	3	0	0	5	Z		
	Free Elective (BİS/BDS)	3	5				3	S		
	Technical Elective	3	5				18	S		
CENG 3505	GUI Programming	3	5	3	2	0	6	S		
CENG 3507	Web Development and Programming	3	5	3	2	0	6	S		
CENG 3511	Artificial Intelligence	3	5	3	0	0	6	S		
CENG 3521	Data Mining	3	5	3	0	0	6	S		
CENG 3523	Scientific Counting	3	5	3	0	0	6	S		
CENG 3531	Real Time Systems	3	5	3	0	0	6	S		
CENG 3543	Computer Networks	3	5	3	2	0	6	S		
								AKTS	30	

VI. DÖNEM

CENG 3004	Software Engineering	3	6	3	0	0	6	Z		
	Free Elective (BİS/BDS)	3	6				6	S		
	Technical Elective	3	6				18	S		
CENG 3502	Dynamic Web Programming	3	6	4	0	0	6	S		
CENG 3512	Evolutionary Computation	3	6	3	0	0	6	S		
CENG 3514	Fuzzy Logic Systems	3	6	3	0	0	6	S		
CENG 3516	Statistical Computing	3	6	3	0	0	6	S		
CENG 3522	Applied Machine Language	3	6	3	0	0	6	S		
CENG 3526	Natural Language Processing	3	6	3	2	0	6	S		
CENG 3528	Web Mining	3	6	4	0	0	6	S		
CENG 3530	Information Retrieval System	3	6	3	0	0	6	S		
CENG 3532	Microprocessors	3	6	3	0	0	6	S		
CENG 3544	Computer and Network Security	3	6	3	2	0	6	S		
CENG 3546	Mobile Application Development	3	6	3	2	0	6	S		
								AKTS	30	

VII. DÖNEM

CENG 4001	Summer Practice II	4	7	0	0	0	4	Z		
CENG 4005	Formal Languages and Abstract Machines	4	7	3	0	0	6	Z		
CENG 4011	Senior Design Project I	4	7	2	0	0	3	Z		
	Free Elective (BİS/BDS)	4	7				5	S		
	Technical Elective	4	7				12	S		
CENG 4501	Software Design Patterns	4	7	3	0	0	6	S		
CENG 4511	Operations Research	4	7	3	0	0	6	S		
CENG 4513	Modelling and Simulation	4	7	3	0	0	6	S		
CENG 4515	Data Science and Analytics	4	7	3	0	0	6	S		
CENG 4523	Introduction to Computer Graphics	4	7	3	0	0	6	S		
CENG 4525	Introduction to Bioinformatics	4	7	3	0	0	6	S		
CENG 4531	System Programming	4	7	3	0	0	6	S		
CENG 4535	Distributed Computing	4	7	3	0	0	6	S		
CENG 4541	Advanced Computer Networks	4	7	3	0	0	6	S		
								AKTS	30	

VIII. DÖNEM

CENG 4012	Senior Design Project II	4	8	2	0	0	6	Z			
	Free Elective (BİS/BDS)	4	8				12	S			
	Technical Elective	4	8				12	S			
CENG 4502	Software Validation, Verification and Testing	4	8	3	0	0	6	S			
CENG 4504	Secure Programming Fundamentals	4	8	3	0	0	6	S			
CENG 4506	Logic Programming	4	8	3	0	0	6	S			
CENG 4512	Compiler Design	4	8	3	0	0	6	S			
CENG 4514	Parallel Computing	4	8	3	0	0	6	S			
CENG 4524	Fundamental Image Processing Techniques	4	8	3	0	0	6	S			
								AKTS	30		

Minimum ECTS credit for graduation / Mezuniyet için alınması gereken minimum AKTS kredisi		240
Zorunlu Dersler AKTS / Required Course ECTS	Common Required / Ortak Zorunlu	8
	Departmental Required / Bölüm Kodlu Zorunlu	140
Seçimli Dersler AKTS / Elective Courses ECTS	Technical Elective / BİS	60 (*)
	Free Elective / BİS veya BDS	32 (**)
Açıklama	<p>(*) Mezuniyet için gereken 240 AKTS kredisinin, 60 AKTS kredisi Technical Elective (BİS) derslerinden toplanmalıdır.</p> <p>(**) Müfredatta 32 AKTS olarak görünen Free Elective derslerin en az 9 AKTS'lik kısmı bölüm dışından alınmalıdır. Geriye kalan 23 AKTS'lik kısmı ise BİS veya BDS olarak alınabilir.</p> <p>(***) Mezuniyet şartı için seçmeli derslerin sadece toplam kredi miktarı esastır. Müfredatta belirtilen dönemlerde ve dönem başına kredi miktarlarında alınmaları (alttan dersler, değişim programları vb. sebeplerle) gerekmemektedir.</p> <p>(****) CENG 3001 Summer Practice I ve CENG 4001 Summer Practice II derslerinin Bahar yarıyılında da açılması uygundur.</p> <p style="text-align: right;">Doç. Dr. Bekir Taner DİNÇER Bilgisayar Mühendisliği Bölüm Başkanı</p>	