

**MUĞLA SITKI KOÇMAN ÜNİVERSİTESİ**  
**DEPARTMENT OF SOFTWARE ENGINEERING/YAZILIM MÜHENDİSLİĞİ BÖLÜMÜ**  
**EĞİTİM-ÖĞRETİM PROGRAMI**

Ders Kodu	Ders Adı	S	YY	Kredi					Ön Koşul	Yan Koşul
				T	U	L	K	Z/S		
TDB 1801	Turkish I	1	1	2	0	0	2	Z		
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		
SE 1001	Introduction to Software Engineering	1	1	3	0	0	6	Z		
SE 1003	Introduction to Programming I	1	1	3	2	0	6	Z		

**2. Dönem**

TDB 1802	Turkish II	1	2	2	0	0	2	Z		
PHYS 1852	General Physics I	1	2	3	0	2	6	Z		
MATH 1852	Calculus II	1	2	4	2	0	6	Z		
ISG 1802	Occupational Health and Safety II	1	2	2	0	0	2	Z		
MATH 1856	Basic Linear Algebra for Engineers	1	2	3	0	0	6	Z		
SE 1002	Software Ethics and Law	1	2	2	0	0	2	Z		
SE 1004	Introduction to Programming II	1	2	3	2	0	6	Z		

**3. Dönem**

ATB 2801	Principles of Kemal Ataturk I	2	1	2	0	0	2	Z		
MATH 2855	Differential Equations	2	1	3	0	0	6	Z		
CHEM 2801	General Chemistry	2	1	3	2	0	6	Z		
SE 2001	Software Engineering Concepts	2	1	3	0	0	5	Z		
SE 2005	Discrete Mathematics for Software Engineers	2	1	3	0	0	6	Z		
SE 2007	Data Structures	2	1	3	0	0	5	Z		

**4. Dönem**

ATB 2802	Principles of Kemal Ataturk II	2	2	2	0	0	2	Z		
SE 2002	Software Design Patterns	2	2	3	0	0	5	Z		
SE 2004	Probability Theory and Statistics	2	2	3	0	0	5	Z		
SE 2006	Algorithms	2	2	3	0	0	5	Z		
SE 2008	Fundamentals of Database Systems	2	2	1	2	0	5	Z		
	<b>Free Elective (BDS)</b>	2	2				8	S		

**5. Dönem**

SE 3001	Summer Practice I	3	1	0	0	0	1	Z		
SE 3003	Software Project Management	3	1	3	0	0	6	Z		
SE 3005	System and Network Programming	3	1	3	0	0	6	Z		
SE 3007	Introduction to Machine Learning	3	1	3	0	0	5	Z		
	<b>Technical Elective (BİS)</b>	<b>3</b>	<b>1</b>				<b>12</b>	<b>S</b>		
SE 3501	Client-side Programming	3	1	2	1	0	6	S		
SE 3503	Introduction to Optimization	3	1	3	0	0	6	S		
SE 3505	Mobile Application Development	3	1	3	0	0	6	S		
SE 3507	Information Security	3	1	3	0	0	6	S		
SE 3509	Introduction to Data Science & Engineering	3	1	3	2	0	6	S		

### 6. Dönem

SE 3002	Fundamentals of Programming Languages	3	2	3	0	0	6	Z		
SE 3004	Software Testing	3	2	3	0	0	6	Z		
SE 3006	Software Architectures	3	2	2	2	0	6	Z		
	<b>Technical Elective (BİS)</b>	<b>3</b>	<b>2</b>				<b>12</b>	<b>S</b>		
SE 3502	Server-side Programming	3	2	2	1	0	6	S		
SE 3504	Software Maintenance and Evolution	3	2	3	0	0	6	S		
SE 3506	Introduction to Software-defined Networking	3	2	3	0	0	6	S		
SE 3508	Introduction to Artificial Intelligence	3	2	3	0	0	6	S		
SE 3510	Introduction to Big Data Analysis	3	2	3	2	0	6	S		

### 7. Dönem

SE 4001	Summer Practice I	4	1	0	0	0	1	Z		
SE 4003	Multidisciplinary Engineering Projects	4	1	2	0	0	5	Z		
SE 4005	Human Computer Interaction	4	1	3	0	0	6	Z		
	<b>Technical Elective (BİS)</b>	4	1				12	S		
	<b>Free Elective (BİS / BDS)</b>	4	1				6	S		
SE 4501	Advanced Topics in Software Engineering I	4	1	3	0	0	6	S		
SE 4503	Cloud Computing Concepts	4	1	3	0	0	6	S		
SE 4505	Software Quality Assurance	4	1	3	0	0	6	S		
SE 4507	Computer Vision	4	1	3	0	0	6	S		
SE 4509	Programming for Scientific Computing	4	1	1	2	0	6	S		

### 8. Dönem

SE 4002	Software Engineering Capstone Project	4	2	2	0	0	6	Z		
	<b>Technical Elective (BİS)</b>	4	1				12	S		
	<b>Free Elective (BİS / BDS)</b>	4	1				12	S		
SE 4502	Advanced Topics in Software Engineering II	4	2	3	0	0	6	S		
SE 4504	Programming Web Services	4	2	3	0	0	6	S		
SE 4506	Internet of Things Programming	4	2	3	0	0	6	S		
SE 4508	Interactive Multimedia Systems	4	2	3	0	0	6	S		