

	<b>FACULTY OF ENGINEERING COURSE SYLLABUS FORM</b>	Doküman Kodu	MF.FR.004
		Yayın Tarihi	07.09.2024
		Revizyon No	0
		Revizyon Tarihi	0
		Gizlilik Sınıfı	Hizmet içi

<b>SENG 204 – SOFTWARE ENGINEERING</b>				
Course Code	Course Name		Semester	
SENG 204	Software Engineering		Fall <input type="checkbox"/> Spring <input checked="" type="checkbox"/> Summer <input type="checkbox"/>	
Course Hours			Credit	ECTS
Course Hours	Application	Laboratory	3	6
3	0	0		

<b>Course Details</b>	
<b>Section</b>	SOFTWARE ENGINEERING
<b>Course Language</b>	Turkish
<b>Course Level</b>	License <input checked="" type="checkbox"/> Master's <input type="checkbox"/>
<b>Type of Education</b>	Formal Education <input checked="" type="checkbox"/> Remote <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/>
<b>Course Type</b>	Mandatory <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
<b>Course Objective</b>	To teach students; Software Processes, Requirements Engineering, System Modeling, Architectural Design, Design and Implementation, Software Testing, Software Evolution, Agile Software Development testing and review processes.
<b>Course Content</b>	Software Processes, Requirements Engineering, Systems Modeling, Architectural Design, Design and Implementation, Software Testing, Software Evolution, Agile Software Development, Testing and Review.
<b>Course Methods and Techniques</b>	Lecture <input checked="" type="checkbox"/> Question - Answer <input checked="" type="checkbox"/> Presentation <input type="checkbox"/> Discussion <input checked="" type="checkbox"/>
<b>Prerequisites</b>	
<b>Work placement(s)</b>	

<b>Course Resources</b>
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- Software Engineering 10th Edition Ian Sommerville
- Software Engineering: A Practitioner's Approach, 9th Edition, Roger S. Pressman, Bruce R. Maxim, 2020
- Software Engineering Body of Knowledge Guide SWEBOK® Version 3.0

<b>Course Structure</b>				
Mathematics and Basic Sciences	<input type="checkbox"/>		Education Sciences	<input type="checkbox"/>
Engineering Sciences	<input type="checkbox"/>		Science	<input type="checkbox"/>
Engineering Design	<input checked="" type="checkbox"/>		Health	<input type="checkbox"/>
Social Sciences	<input type="checkbox"/>		Profession	<input type="checkbox"/>

<b>Weekly Schedule</b>		
No	Topics	Documents/Notes
1	Introduction to Software Engineering	Software Engineering 10th Edition - Bölüm 1
2	Software processes	Software Engineering 10th Edition - Bölüm 2
3	Agile software development	Software Engineering 10th Edition - Bölüm 3
4	Requirements engineering	Software Engineering 10th Edition - Bölüm 4
5	System modeling	Software Engineering 10th Edition - Bölüm 5
6	Architectural design	Software Engineering 10th Edition - Bölüm 6
7	Design and implementation	Software Engineering 10th Edition - Bölüm 7
8	Midterm Exam	
9	Software testing	Software Engineering 10th Edition - Bölüm 8
10	Software evolution	Software Engineering 10th Edition - Bölüm 9
11	Reliable systems	Software Engineering 10th Edition - Bölüm 10
12	Reliability engineering	Software Engineering 10th Edition - Bölüm 11
13	Safety engineering	Software Engineering 10th Edition - Bölüm 12
14	Resilience engineering	Software Engineering 10th Edition - Bölüm 13
15	Project presentation	
16	General Exam	

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<b>Evaluation Methods and Criteria</b>		
<b>Semester Studies</b>	<b>Quantity</b>	<b>Percentage</b>
Attendance		
Lab		
Practice		
Fieldwork		
Course-Specific Workplace Training		
Quizzes/Studio/Critical		
Homework		
Presentation		
Projects	1	20
Report		
Seminar		
Midterm Exams	1	30
Final Exam	1	50
	<b>Total</b>	<b>%100</b>
<b>Contribution of Mid-Term Studies to Success Grade</b>		
<b>Contribution of End-of-Semester Studies to Success Grade</b>		
	<b>Total</b>	<b>%100</b>

<b>ECTS/Workload Table</b>			
<b>Activities</b>	<b>Sayı</b>	<b>Süresi (Saat)</b>	<b>Toplam İş Yüğü</b>
Class Hours	3		
Lab			
Practice			
Fieldwork			
Course-Specific Workplace Training			
Out-of-Class Study Time			
Quizzes/Studio/Critical			
Homework			
Presentation / Seminar Preparation			
Projects			
Report			
Midterm Exam and Midterm Exam Preparation			
General Exam and General Exam Preparation			
<b>Total Workload</b>			
<b>Total Workload / 25</b>			
<b>ECTS Credit</b>			

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<b>Course Learning Outcomes</b>	
<b>No</b>	<b>Outcome</b>
<b>L1</b>	Be familiar with software principles.
<b>L2</b>	Be able to analyze requirements and create a project plan.
<b>L3</b>	Implementing software processes.
<b>L4</b>	
<b>L5</b>	

<b>Contribution of Course Learning Outcomes to Program Learning Outcomes</b>																
<i>Contribution Level: 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High</i>																
	<b>P1</b>	<b>P2</b>	<b>P3</b>	<b>P4</b>	<b>P5</b>	<b>P6</b>	<b>P7</b>	<b>P8</b>	<b>P9</b>	<b>P10</b>	<b>P11</b>	<b>P12</b>	<b>P13</b>	<b>P14</b>	<b>P15</b>	<b>Total</b>
<b>L1</b>																
<b>L2</b>																
<b>L3</b>																
<b>L4</b>																
<b>L5</b>																
<b>Total</b>																