<table>
<tr><th colspan="2">COURSE DESCRIPTION FORM</th></tr>
<tr><td>Course Code and Name</td><td>CENG494 SPECIAL TOPICS IN COMPUTER ENGINEERING II (TECH.ELECT.)</td></tr>
<tr><td>Course Semester</td><td>8</td></tr>
<tr><td>Catalog Content</td><td>Current topics and developments in computer science and engineering</td></tr>
<tr><td>Textbook</td><td>Proceedings of the IEEE, ISSN:0018-9219</td></tr>
<tr><td>Supplementary Textbooks</td><td>ACM Computing Surveys, ISSN:0360-0300

Information Sciences, Elsevier, ISSN:0020-0255</td></tr>
<tr><td>Credit</td><td>6</td></tr>
<tr><td>Prerequisites of the Course
(Attendance Requirements)</td><td>-</td></tr>
<tr><td>Type of the Course</td><td>Elective</td></tr>
<tr><td>Instruction Language</td><td>English</td></tr>
<tr><td>Course Objectives</td><td></td></tr>
<tr><td>Course Learning Outcomes</td><td>Theoretical developments in information and computer technology will be examined methodologically.
Current topics in computer engineering will be given by experienced engineers in business.</td></tr>
<tr><td>Instruction Methods</td><td>The mode of delivery of this course is face to face</td></tr>
<tr><td>Weekly Schedule</td><td></td></tr>
<tr><td>Teaching and Learning Methods
(These are examples. Please fill which activities you use in the course)</td><td>Weekly Theoretical Course Hours: 3
Reading Tasks
Studies
Material Design and Implementation
Preparing Reports
Preparing Presentation
Presentation
Midterm and Studying for Midterm
Final and Studying for Final</td></tr>
<tr><td>Assessment Criteria</td><td>
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<tr><th></th><th>Quantity</th><th>Total Contribution (%)</th></tr>
<tr><td>Midterm Exams</td><td>1</td><td>20</td></tr>
<tr><td>Assignment</td><td>5</td><td>20</td></tr>
<tr><td>Application</td><td>0</td><td>0</td></tr>
<tr><td>Projects</td><td>1</td><td>20</td></tr>
<tr><td>Practice</td><td>0</td><td>0</td></tr>
<tr><td>Quiz</td><td>0</td><td>0</td></tr>
<tr><td>Percent of In-term Studies (%)</td><td></td><td>60</td></tr>
<tr><td>Percentage of Final Exam to Total Score (%)</td><td></td><td>40</td></tr>
<tr><td>Attendance</td><td>-</td><td>-</td></tr>
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Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours	14	3	42
Weekly Tutorial Hours	0	0	0
Reading Tasks	8	4	32
Studies	8	4	32
Material Design and Implementation	12	1	12
Report Preparing	1	3	3
Preparing a Presentation	1	3	3
Presentations	1	1	1
Midterm Exam and Preparation for Midterm Exam	1	10	10
Final Exam and Preparation for Final Exam	1	15	15
Other (should be emphasized)	0	0	0
Total Workload			150
Total Workload / 25			6
Course Credit (ECTS)			6

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Sufficient knowledge on mathematics, science and computer engineering; ability to apply theoretical and practical knowledge in these areas to model and solve engineering problems				X	
2	Ability to identify, define, formulate and solve complex engineering problems; ability to choose and apply appropriate analysis and modelling methods for these purposes				X	
3	Ability to design a complex system, process, device, software, algorithm, or product under realistic constraints and circumstances to meet certain requirements; ability to apply modern design techniques for this purpose					X
4	Ability to choose, develop and use modern techniques and tools necessary for engineering applications; ability to effectively use computing technologies				X	
5	Ability to design and implement systems or experiments to solve engineering problems, collect and interpret data to evaluate and analyze the results of solutions					X
6	Ability to work effectively in intradisciplinary and interdisciplinary teams or individually			X		
7	Ability to efficiently prepare, evaluate and interpret reports					X
8	Ability to make presentations and conduct effective verbal and written communication in Turkish and English					X
9	Awareness of the necessity of lifelong learning; ability to access information, follow scientific and technological developments; ability to perpetually renew oneself				X	

	10	Awareness of professional and ethical responsibility, ability to act in accordance with ethical principles					X	
	11	Ability to apply knowledge on project management, risk management and change management				X		
	12	Awareness of entrepreneurship and innovation, ability to design and build sustainable systems				X		
	13	Ability to devise local and global solutions to contemporary issues considering the effects of engineering applications on health, environment and security		X				
	14	Awareness of the legal consequences of engineering solutions		X				
	15	Ability to apply knowledge on software development process and documentation rules				X		
	16	Knowledge on standards used in engineering applications					X	
	17	Awareness of occupational health and security, information security and privacy			X			
The Course's Lecturer(s) and Contact Information		Prof. Dr. Şeref SAĞIROĞLU ss@gazi.edu.tr						