

Principles of Cyber-Physical Systems					Computer Engineering			
Semester	Teaching Methods						Credits	
	Lecture	Recite	Lab.	Field Study	Other	Total	Credit	ECTS Credit
8	42	50	-	50	46	188	3	8
Language	English							
Compulsory / Elective	Elective							
Prerequisites	None							
Cousee Content	Principle of Internet of Things Systems							
Course Objective	Analysis of Real Internet of Things Systems							
Learning Outcomes and Competences	Learning of Internet of Things Systems							
Textbook and/or Referanslar	<p>1. S. Jeschke, C. Brecher D.B.Rawat, Editor, Industrial Internet of Things, 2017</p> <p>2. J.M. Batalla, Editor, Internet of Thinhs (9IoT) in 5G Mobile Technologies, Springer2016</p> <p>3. E. A. Lee and S. A. Seshia, Introduction to Embedded Systems - A Cyber-Physical Systems Approach, Second Edition, 2015.</p> <p>4. Rajeev Alur – PRINCIPLES OF CYBER-PHYSICAL SYSTEMS. Pres MIT- Boston, 2016</p>							
Assessments Criteria					(X)			Ağırlık(%)
	Midterm Exam							20
	Quizzes							20
	Homework							
	Projects					X		20
	Term Paper							
	Laboratory work							
	Other							
Final Exam						X		40
Instructor	Prof. Dr. Remzi YILDIRIM							
Week	Subject							
1	Industri 4.00							
2	Soceity 5.0							
3	IoT							
4	Smart city							
5	Digital city							
6	Intelligent city							
7	Artifical Intelligent city							
8	Internet of Everythings							
9	MIDTERM							
10	Internet of Things 5G							
11	The Internet of Things in the Cloud							
12	Smart city Network							
13	Social network							
14	Real-Time Systems							
15	Machine to Machine speak							
16	System Engineering							
17	Reliability Engineering							
18	FINAL							