

# INTERNET OF THINGS

1	Course Title:	INTERNET OF THINGS	
2	Course Code:	BLPS2408	
3	Type of Course:	Optional	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr. Gör. Dr. Kadir Burak OLGUN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Öğr. Gör. Dr. Kadir Burak Olgun Dahili:62133	
17	Website:		
18	Objective of the Course:	The aim of this course is to provide information about architecture, protocol and usage areas of internet of things (IoT) and also develop IoT based applications .	
19	Contribution of the Course to Professional Development:	To be able to develop and manage internet of things based applications.	
20	Learning Outcomes:		
		1	Know internet of things.
		2	Know application areas and business models of IoT.
		3	Use and know protocols with communication technologies of IoT.
		4	Know big data processing techniques in IoT.
		5	Develop IoT based applications.
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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Overview of Internet of Things		
2	IoT Business Models		
3	Components and Architecture of IoT		
4	IoT Cloud Platforms		
5	Enabling Technologies Used To Develop IoT Application		

6	Enabling Technologies Used To Develop IoT Application (RFID, NFC, BLE Beacon, WSN, GSM etc.)	
7	IoT Communication/Messaging Protocols (Restful, CoAP, MQTT, DDS, AMQP etc.)	
8	Midterm	
9	IoT Communication/Messaging Protocols (Restful, CoAP, MQTT, DDS, AMQP etc.)	
10	IoT Application Development	
11	IoT Application Development	
12	Security of Internet of Things	
13	IoT and Big Data	
14	IoT and Cloud Computing	

22	Textbooks, References and/or Other Materials:	Lecturer Slides & Notes Nesnelerin İnterneti – Kuramdan Uygulamaya (Hüseyin Çakır-Çelebi Uluyol, Nobel Akademik Yayıncılık)
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23	Assesment	
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Contribution of Term (Year) Learning Activities to Success Grade	40.00		
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preparation	14	2.00	28.00
Total	40.00		
Homeworks	14	2.00	28.00
Measurement and Evaluation Techniques Used in the Projects	0	0.00	0.00
Field Studies	0	0.00	0.00

24	<b>ECTS / WORK LOAD TABLE</b>	
Midterm Exams	1	3.00
Others	0	0.00
Final Exams	1	3.00
Total Work Load		90.00
Total work load/ 30 hr		3.00
ECTS Credit of the Course		3.00

25	<b>CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS</b>															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	2	2	2	5	2	4	2	1	2	2	1	0	0	0	0	0
ÖK2	4	4	2	5	3	4	2	1	5	3	2	0	0	0	0	0
ÖK3	4	4	2	5	3	4	2	1	2	2	1	0	0	0	0	0
ÖK4	4	3	2	5	5	4	3	1	3	2	1	0	0	0	0	0

ÖK5	4	5	4	5	3	5	5	1	4	3	2	0	0	0	0	0
LO: Learning Objectives   PQ: Program Qualifications																
Contrib ution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							