

## İçerik

Ders Kodu	Dersin Adı	Yarıyıl	Teori	Uygulama	Lab	Kredisi	AKTS
IT 530	Nesnelerin interneti ve Endüstri 4.0	3	4	0	0	3	8

Ön Koşul	
Derse Kabul Koşulları	

Dersin Dili	İngilizce
Türü	Zorunlu
Dersin Düzeyi	Yüksek Lisans
Dersin Amacı	This course will describe the market around the Internet of Things (IoT), the technology used to build these kinds of devices, how they communicate, how they store data, and the kinds of distributed systems needed to support them. We will start with simple examples and integrate the techniques we learn into a class project in which we design and build an actual IoT system.
İçerik	Overview of Internet of Things How IOT became 21 st Century Hottest Topic How Internet of Things works IoT Architecture Hardware Popularity & Scope Industrial IoT Operationg Systems Security Lora/Lorawan/Lorasim Applications and Case Studies
Kaynaklar	Lee, In, and Kyoochun Lee. "The Internet of Things (IoT): Applications, investments, and challenges for enterprises." Business Horizons 58.4 (2015): 431-440. Chiang, Mung, and Tao Zhang. "Fog and IoT: An overview of research opportunities." IEEE Internet of things journal 3.6 (2016): 854-864.

## Teori Konu Başlıkları

Hafta	Konu Başlıkları
1	Introduction
2	IoT Architecture
3	Hardware
4	Operating Systems
5	Security
6	Protocols
7	Industrial IoT
8	Mid Term Exam
9	Lora/LoraWAN/LoraSim
10	Applications
11	Case Studies