



Course Introduction

Lecturer: Bui Ha Duc

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COURSE OBJECTIVES

- ▷ Provide technology fundamentals of IoT
- ▷ Hand-on IoT system design

Order of Intruction

- ▶ Introduction to Internet of Things
 - Historical background
 - Applications

- ▶ IoT Architectures
 - IoT layers
 - Hardware

1 week

1-2 weeks

Order of Intruction

- ▶ Communication Protocols 3-4 weeks
 - Between devices
 - Over the Internet
- ▶ Web Design and Database 2-3 weeks
- ▶ Data Analysis and Cloud services 2-3 weeks

Order of Intruction

▷ System Design

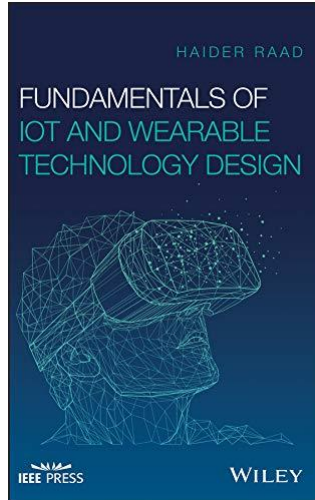
2-3 weeks

Assessments

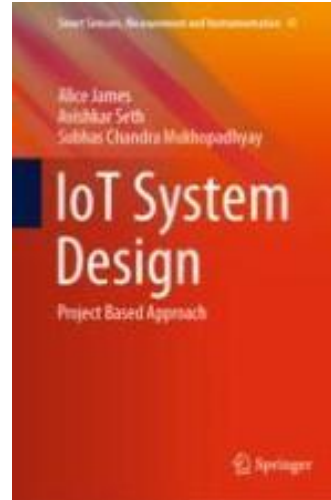
- ▷ In-class assignments – 50%
- ▷ Final Project – 50%



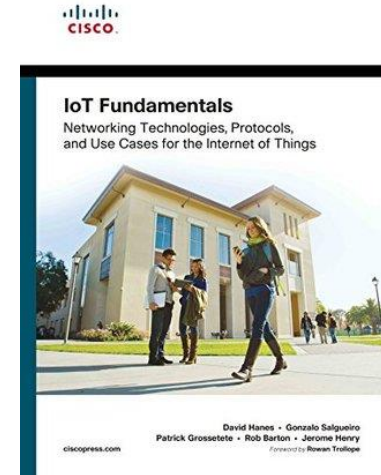
References – Textbook



**Fundamentals of IoT and
Wearable Technology Design
– Wiley, 2021**



**IoT System Design
– Springer, 2022**



**IoT Fundamentals:
Networking Technologies,
Protocols, and Use Cases for
the Internet of Things – Cisco
Press, 2017**