

# Syllabus

## Internet of Things

Course Name	Course type (credit/hours)	전선(3/3)		Course code	
	Target students Division/major/grade	/		Opening semester	2019년 2학기
	Class time and classroom	화15:00~16:30 (팔1025) 목15:00~16:30 (팔1025)(팔1025)			
Reference to this course	Related basic courses				
	Recommended concurrent courses				
	Related advanced courses				
Instructor	Name (title/division)	김기형 (부교수/정보통신대학 정보및컴퓨터)			
	Office Room Number		Office phone Number	2433	e-mail kkim86@ajou.ac.kr
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

### 1. Introduction

In this course, we deal with advanced topics in the area of Internet of Things. We find research issues and develop them into technical reports. Major topics to be discussed include MAC, Network, Transport layer protocols, Service discovery protocols, Power management mechanisms, Addressing, Standardization, Security, Platform, etc.

### 2. Course Objectives

### 3. Class types and activities

#### 4. Teaching Method

There will be presentation of the papers and related theories.  
Students will write technical papers as a term project.

#### 5. Knowledge and ability required for taking this course

#### 6. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam			
final exam			
quiz			
presentation			
discussion			
homework			
etc			

Midterm Exam: 30%  
Final Exam: 30%  
Technical Report: 30%  
Attendance: 10%

## 7. Textbooks

Main/Sub	Title	Writer	Publisher	Publication year
참고자료	Industry 4.0: The Industrial Internet of Things	Gilchrist, Alasdair		2016
참고자료	Enterprise IoT: A Definitive Handbook	Balani, Naveen		

## 8. Lecture Schedule

Week	Lecture contents	Lesson type	Remark
1	Overview of Internet of Things	Lecture	
2	MAC Layer Protocols	Lecture	
3	Network Layer Protocols	Lecture	
4	Network Layer Protocols 2	Lecture	
5	Routing Protocols	Lecture	
6	Routing Protocols 2	Lecture	
7	Transport Protocols	Lecture	
8	Midterm Exam		
9	Power management issues	Lecture, Seminar	
10	Management	Lecture, Seminar	
11	Service discovery	Lecture, Seminar	
12	Security Issues	Lecture, Seminar	
13	Security Issues	Lecture, Seminar	
14	Final presentaton of Term Reports	Presentation	
15	Final presentation of Term Reports	Presentation	
16	Final Exam		

## 9. Others

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