



**E2203 Jan. 3:0**

## **Wireless Communications**

### **Instructor**

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### **Teaching Assistant**

Email:

**Department: ECE**

Course Time:

Lecture venue:

Detailed Course Page:

## **Announcements**

### **Brief description of the course**

Covers fundamentals of wireless communication from wireless channel modeling, wireless system design, and techniques to combat and exploit fading

### **Prerequisites**

E2211 Digital Communications

### **Syllabus**

The wireless channel; diversity; multiple-access and interference management; capacity of wireless channels; opportunistic communication and multiuser diversity; MIMO: spatial multiplexing and channel modeling; capacity and architectures; MIMO with multiple users.

### **Course outcomes**

How to model wireless channels? How to design and analyze diversity techniques? Understand cellular system design. Understand MIMO and OFDM techniques.

### **Grading policy**

20% assignments, 40% mid-term, 40% finals

### **Assignments**

## Resources