

JULY

4.8.2020

2018

06

Friday  
ECE438

## WIRELESS COMMUNICATION

Week 27

187-178

9 TAUGHT BY

10 • Prof. Ubaidulla

11

### COURSE TOPICS

12

1. wireless channel modeling  
(single input single output):

1

2 time and frequency coherence

2

3 fading

3

4 2. probability of error vs SNR

4

5 exploiting channel diversity

5

6 3. cellular systems

6

- frequency reuse

- GSM

- CDMA

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2018

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Saturday

07

4. capacity considerations

5. beamforming

6. MIMO channel model

transmission schemes

receivers

7. multiuser MIMO

8. 5G physical channel models

transmission techniques

9. interference channel

interference alignment

topological interference alignment

Sunday 08

## TEXT BOOKS

1. fundamentals of wireless communication; tse.

2. wireless communications - principles & practice; rappaport.

Wireless communications - principles & practice ; rapport																																			
AUG 2018	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S							
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