ECE5884 Wireless Communications

Week 12 Workshop: Selected 4G/5G/6G Topics

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Course outline

- Week 1: Overview of Wireless Communications
- Week 2: Wireless Channel (Path Loss and Shadowing)
- Week 3: Wireless Channel Models
- Week 4: Capacity of Wireless Channels
- Week 5: Digital Modulation and Detection
- Week 6: Performance analysis
- Week 7: Equalization
- Week 8: Multicarrier Modulation (OFDM)
- Week 9: Multiple-Antenna Systems: Diversity Techniques
- Week 10: Multiple-User/Multiple-Antenna Systems (MIMO)
- Week 11: Guest Lecture "Multi-antenna systems: From theory to standardization in 5G-NR (New radio)"
- Week 12 : Selected 4G/5G/6G Topics

Notice

1. Quiz 10 - ECE5884 Wireless Communications is available. The deadline is Monday, 17 October 2022 at 23:55 hrs. (today).

2. Assignment #3 - ECE5884 Wireless Communications is available. The deadline isThe deadline is Wednesday, 26 October 2022 at 23:55 hrs.

3. Assignment #2 solutions are available.

4. Consultation hrs: Week 12 on 17 Oct. 2022 (Today)
   1. 1.00–4.00 pm
   2. 2.00–2.30 pm

5. Mock exam is also available.

6. Two recorded videos are available in Week 12. These summarise selected Quiz/Assignment problems.

Course Information - Assessments

- The assessments in this unit are divided into two parts:
  1. Continuous assessment (Quizzes, Assignments and Labs), which accounts for 50% of the mark.
  2. Final assessment, which accounts for the rest 50% of the mark.
- This unit contains hurdle requirements that you must achieve to be able to pass the unit.
  1. At least 45% in the total continuous assessment component (22.5%)
  2. At least 45% in the total assessment component (22.5%))
- The consequence of not achieving a hurdle requirement is a fail grade (NH).

Assessment Item	Weight
Weekly Quizzes ($\times$12)	12
Assignments ($\times$3)	18
Labs ($\times$5)	20
Final Exam	50

Final Assessment ECE5884-ECE6884 Wireless Communications

- 09 November 2022 at 02:30 PM as an eExam.
- Venue description:
  1. IN CAMPUS: ROOM 1.25, 49 RAINFOREST WALK and ROOM 2.20, 49 RAINFOREST WALK, CLAYTON;
  2. E-EXAM AAA: OFF CAMPUS or E-EXAM: OFF CAMPUS.
- Exam duration 2hr 10 mins + scan and upload 30 mins
- Paper, Calculator, Pens, etc.
- Laptop for the eExam and phone for scanning hybrid questions
- This is an closed book exam, Calculator allowed.
- This exam consists of 4 questions. Please answer ALL questions.
- A mathematical formula sheet will also be given.
- Answer all of the hand-written/drawn response questions on your own pieces of paper.
- If you believe there is an error or a question is unclear, clearly state any assumptions you need to make and proceed.
- Practice the Mock eExam.

Assignment Project Exam Help

Thank You!

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See you again ☺

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