ECE5884 Wireless Communications Assignment Wesperson Exam Help

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ARC Future Fellow at The University of Melbourne
Sessional Lecturer at Monash University

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Welcome to the wireless world ©

About me

- Saman Atapattu (Saman Udaya Bandara Atapattu, Atapattu Mudiyanselage)
- Studies: BSc: University of Peradeniya, Sri lanka; MEng: Asian Institute

 SSTegrid 19 (1) Thailand; and the University of Alberta, Graph 19
 - Researcher: University of Alberta (2013-2014); Monash University (2014-2016); and The University of Melbourne (2016-To date)
 - Visiting Researcher/ Centrale Supélec, University of Paris-Saclay, France (2017) and Beiling Jiantong University, China (2018)
 - Research Interest: Wireless Communications and Signal Processing
 - Awards/Grants in AUS:
 - ART DE TRA Fello vship (016 Green Realing) in creasing Spectment and Energy Efficiency of Wireless Network
 - ARC Future Fellowship 2021- Smart Wireless Radio Environments for the 6G Era
 - ARC Discovery Project 2021- Sensing and Communications for Tactical Radio: Mapping the RF Weather

Course Information - People and Contacts

- Unit Coordinator: Saman Atapattu SSI San an Can Lat Luck Cooper Exam Help In person @ Office B72/Room 231 on Monday 9.00 am-12.30 pm by
 - appointments
 - Zoom in weekdays by appointments
 - Lecture Dr. Gayatari Kongara (gayathri.kongara@monash.edu or
 - Zoom)
 - Demonstrators: Three PhD students @ G13/B35
 - Ashbyah Diversion and Control of the Control of the
 - Moitaba Ghermezcheshmeh (mojtaba.ghermezcheshmeh1@monash.edu)
 - Also Contact: via the "Discussion Forum" highly recommended!!!

Course Information - Time and Location



- Lectures: Online videos (≈ 90 120 mins)
 - Recorded videos will be available in the previous week
- Workshops: 1-2 pm on Monday via Zoom @ Real Time
 - Summery/Q&A/Problem solving/etc...
- Labs: On Campus @ G13/B35 and Online only for offshore students
 - For more info, please visit Labs tile in the Moodle

Course Information - Assessments

- The assessments in this unit are divided into two parts:
 - 1 Continuous assessment (Quizzes, Assignments and Labs), which

ssign share of the party is charge at market p • This unit contains hurdle requirements that you must achieve to be

able to pass the unit. You are required to achieve at least 45% in the total toutinuous assessment component and at least 45% in the final requirement is a fail grade (NH) and a maximum mark of 45 $(= 2 \times 22.5)$ for the unit.

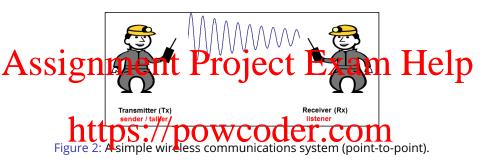
Assessment It will e Weight 1049 PateWCOCE1		
Weekly Quizzes (×12)		End of each week
Assignments (×3)	18	Each (roughly) fourth week
Labs (×5)	20	Each second week, excl. Week 1
Final Exam	50	TBA



Figure 1: A wireless network with base stations and mobile users.

Week 1: Overview of Wireless Communications

ECE5884 - Course Outline



- Week 2: Wireless Channel (Path Loss and Shadowing)
- · Week A wheles Wheel Mat powcoder
- Week 4: Capacity of Wireless Channels
- Week 5: Digital Modulation and Detection
- Week 6: Performance Analysis
- Week 7: Equalization
- Week 8: Multicarrier Modulation (OFDM)

ECE5884 - Course Outline



- Week 10: Multiple-Antenna Systems (MIMO Communications)
- Week 11: Multiuser Systems (Figure 1)
- Week 12: Guest Lecture (Emerging 5G/6G Technologies)
- Then! Final Fxam

ECE5884 - Reference



Andrea Goldsmith. 2005. *Wireless Communications*. Cambridge University Press, USA. (Chapters 1, 2, 3, 4, 5, 6, 7, 10, 11, 12, 14)

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http://web.stanford.edu/class/ee359/doc/WirelessComm_Chp1-16_March32020.pdf

Assignment Project Exam Help Thank You!

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