

CCY4205 Wireless Networks Security**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
CCY3201	4	7/8	2	--	2	3

COURSE AIM

To get the students to:

- Understand the design of wireless LAN security protocols.
- Understand the design of Bluetooth, Zigbee, and RFID security protocols
- Understand the design of security protocols in vehicular communications
- Understand the design of security protocols in wireless sensor networks
- Experiment with and implement security protocols for wireless networks
- Experiment with penetration testing for wireless networks

COURSE WEEKLY CONTENTS

- 1 Course Introduction and Syllabus discussion
- 2 Mathematical Background Review
- 3 Wireless LAN Security Protocols
- 4 Wireless LAN Security Protocols (cont.)
- 5 Bluetooth Security Protocols
- 6 Zigbee Security Protocols
- 7 7th week Assessment
- 8 RFID Security Protocols
- 9 Penetration testing in Wireless Networks
- 10 Penetration testing in Wireless Networks (cont.)
- 11 Wireless Sensor Networks Security
- 12 12th week Assessment
- 13 Wireless Sensor Networks Security (cont.)
- 14 Security in Vehicular Communications
- 15 Security in Vehicular Communications (cont.)

STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7			30				30
8 to 12			20				20
13 to 15			10				10
16 or 17			Final Exam				40

REFERENCES

Textbook	Yi Qian, Feng Ye, and Hsiao-Hwa Chen, Security in Wireless Communication Networks, Wiley-IEEE Press
	Parag Verma et al., Security Issues in Wireless Sensor Networks, CRC Press