

CCY3302 Distributed Systems Security**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
CCY2001 and CCS3203	3	6	2	2	--	3

COURSE AIM

To get the students to:

- Understand characterization and models of distributed systems.
- Understand the design of security protocols in distributed systems
- Experiment with and apply security protocols in distributed systems
- Understand the design of secure group communication protocols
- Understand access control and multilevel security in distributed systems
- Apply secure distributed systems development
- Understand mobile computing security and experiment with a case study

COURSE WEEKLY CONTENTS

- 1 Course Introduction and Syllabus discussion
- 2 Characterization of Distributed Systems
- 3 Distributed Systems Models
- 4 Distributed Systems Models (cont.)
- 5 Security Engineering and Opponents in Distributed Systems
- 6 Security Protocols in Distributed Systems
- 7 Security Protocols in Distributed Systems (cont.)
- 8 7th week Assessment
- 9 Secure Group Communication
- 10 Access Control and Multilevel Security
- 11 Secure Distributed Systems Development
- 12 12th week Assessment
- 13 Secure Distributed Systems Development (cont.)
- 14 Mobile Computing Security
- 15 Projects Presentations

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	Ross Anderson, Security Engineering: A Guide to Building Dependable Distributed Systems, Wiley Coulouris G., Jean Dollimore J., Kindberg T., and Blair G., Distributed Systems: Concepts and Design, Addison-Wesley
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