

CCY4006 Multimedia Security**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
CCY3002	4	7/8	2	--	2	3

COURSE AIM

To get the students to:

- Identify multimedia security issues
- Understand and experiment with multimedia cryptography techniques
- Understand and experiment with watermarking techniques
- Understand and experiment with multimedia authentication techniques
- Understand and experiment with multimedia forensics techniques
- Understand and experiment with authentication techniques via biometrics
- Understand and experiment with multimedia surveillance applications

COURSE WEEKLY CONTENTS

- 1 Course Introduction and Syllabus discussion
- 2 Multimedia Security Fundamentals
- 3 Multimedia Compression Technologies and Standards
- 4 Multimedia Cryptography
- 5 Multimedia Cryptography (cont.)
- 6 Steganography
- 7 7th week Assessment
- 8 Watermarking
- 9 Multimedia Authentication
- 10 Multimedia Authentication (cont.)
- 11 Multimedia Forensics
- 12 12th week Assessment
- 13 Authentication via Biometrics
- 14 Authentication via Biometrics (cont.)
- 15 Digital Surveillance and applications

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	WeiQi Yan and Jonathan Weir, Fundamentals of Media Security, Ventus Publishing ApS Ze-Nian Li, Mark Drew, and Jiangchuan Liu, Fundamentals of Multimedia, Springer
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