

CCY3201 Networks Security**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
CCY3002	3	6	2	--	2	3

COURSE AIM

To get the students to:

- Understand networks security basics and protocols.
- Experiment with transport-layer security protocols
- Experiment with Wireless networks security
- Understand Email security and tools
- Understand network endpoint security (firewalls and intrusion detection)
- Understand basics of Cloud and IoT security

COURSE WEEKLY CONTENTS

1. Course Introduction and Syllabus Discussion
2. User Authentication and Federated Identity Management
3. Transport Layer Security basics
4. Transport Layer Security – HTTPS
5. Transport Layer Security – HTTPS (cont.)
6. Transport Layer Security – SSH
7. 7th Week Assessment
8. Wireless Networks Security
9. Email Security
10. IP Security
11. Network Endpoint Security - Firewalls
12. 12th Week Assessment
13. Network Endpoint Security – Intrusion Detection and Malicious Software
14. Introduction to Cloud Security
15. Introduction to IoT Security

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	William Stallings, Cryptography and Network Security: Principles and Practice, Pearson ,2023 Charlie Kaufman et al., Network Security: Private Communications in a Public World, Addison-Wesley Professional
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