

4.2.6. Cybersecurity Courses (CCY)

CCY2001 Introduction to Cybersecurity

COURSE INFORMATION

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
CCS2201	2	4	2	2	0	3

COURSE AIM

- Identify security vulnerabilities
- Identify cyberattacks types
- Understand countermeasures for cyberattacks
- Discuss cryptography basics
- Discuss network security basics
- Discuss E-commerce security basics
- Understand cybersecurity risk management basics
- Differentiate between cybersecurity standards

COURSE WEEKLY CONTENTS

- 1 Course Introduction
- 2 Cybersecurity Basics
- 3 Cyberattacks and Vulnerabilities
- 4 Recent Cyberattacks and their impact
- 5 Computer Malware and classification
- 6 Cryptography basics – Part I
- 7 Cryptography basics – Part II
- 8 Countermeasures for Cyberattacks – Part I
- 9 Countermeasures for Cyberattacks – Part II
- 10 Network Security basics
- 11 E- commerce Security basics
- 12 Cybersecurity Risk Management basics
- 13 Cybersecurity Standards
- 14 Cybersecurity for the Future
- 15 Revision

STUDENT GRADING & ASSESSMENT

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

REFERENCES

Textbook Kutub Thakur and Al-Sakib Khan Pathan, “Cybersecurity Fundamentals: A Real-World Perspective”, CRC Press.