CCY4402 Cyber Security Policy and Governance

COURSE INFORMATION

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
CCY2001	4	7/8	2	2	--	3

COURSE AIM

To get the students to:

- Provides knowledge on the history of cyber security policy, the governance frameworks for policy making, the selection and application of policy, and the audit and control procedures to assure compliance and effectiveness.
- Students will be exposed to the national and international policy and legal considerations related to cybersecurity and cyberspace such as privacy, intellectual property, cybercrime, homeland security (i.e., critical infrastructure protection) and cyberwarfare, and the organizations involved in the formulation of such policies.
- Analyze policies thoroughly, identify their weaknesses, then compare and contrast them.
- Recognize the significance of training and compliance in information security risk management.
- To highlight the transdisciplinary impacts and issues that must be addressed in designing or putting it into practice successful national cybersecurity laws and policies, broader technology issues are also explored.

COURSE WEEKLY CONTENTS

1 Course Aim, Course outline, and governance overview
2 Security Governance and Regulation
3 Cybersecurity and the GDPR.
4 Risk management and information security outcomes
5 The SABSA framework and methodology
6 7th week Assessment
7 Know about COBIT management framework
8 Know ISO/IEC 27001/ 27002
9 What is risk management?
10 Developing a security strategy
11 12th week Assessment
12 What is bitcoin and its usage, and why they are volatile
13 Using CMM for strategy development
14 Incident management and response metrics.
15 A case study including a sample strategy development.

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	Final Exam						40

REFERENCES

Textbook Krag Brotby, Information Security Governance: A Practical Development and Implementation Approach, Wiley
Trim, Peter and Yang-Im Lee, Cyber Security Management: A Governance, Risk and Compliance Framework, Routledge