Basic Course Information Course Number	01005081	Subject Category	Compulsory (M	
Class Format	Lecture	Credit Type and Number of Credits	1	
Department Desired at On who	Mechatronics	Student Category	Year 4	
Period of Study Required Materials	Semester 2 Cisco Networking Academy			
Instructor	Pirapat Tangsuknirundom	Mio Kobavashi	Tanapon Keatsamarn	I
Course Objective The course provides students with information security, protocol Auth	introduction and basic knowledge	a of Cloud system, Web a	application, Introduction of	
information security, protocol, Auth	entication technology. Security me	asure.		
Evaluation (Rubric)	Ideal Level of Achievement (Very Good)		Unacceptable Level of Achievement (Fail)	
Understanding the CIA	Explain the meaning and specific examples of each of the CIA in cybersecurity.	Explain the meaning of each of the CIA in cybersecurity.	Cannot explain CIA in cybersecurity,	
Explain Firewalls	Explain the function and purpose of each layer of the firewall	Explain the function and purpose of several firewalls.	Cannot explain about any firewalls	
Understanding Security Vulnerabilit	ies Explain each Security Vulnerabilities	Explain some Security Vulnerabilities	Cannot Explain any Security Vulnerabilities	
M(5) Ability to design, propose a Please change	Relationship with Learnin nd develop network systems to	g Outcomes control robotic/ mech	atronic systems.	
Please change				
Teaching Method Outline: Using CISCO Networking Academy				
Class Format: Please Note :	Contents can be adjusted depending on the situation Note: Contents can be adjusted depending on the situation			
Course Plen				
Semester 2	Contents and Met	nod of Course	Goals	Related MCC
1st week	Guidance	Guidance (Online)		
2nd week	The Need for Cyberse	The Need for Cybersecurity Quiz (Online)		
			Understanding needs for cybesecurity. Understanding CIA, Hackers. Threat. Personal data. Organizational data and Cyberwarfare.	
3rd week	The Need for Cyber	security Labwork	Check your computer status for example, hash and MD5. Understanding Security breach,	
4th week			Understanding Security Vulnerabilities, Malware, Phising, DIOS, Social Engineering and SEO Polsning,	
	Attacks. Concepts and	Attacks Concepts and Techniques lecture		
			Experiment the process for Attack, Concepts and Techniques, Understanding Biended Attack and tool kits,	
5th week	Attacks. Concepts and Te Quiz	Attacks. Concepts and Techniques lecture and Quiz		
6th week	Protecting Your Data a	Protecting Your Data and Privacy Lecture		
			Experiment the process for Attack Concepts and Techniques Understanding Public Key Infrastructure	
7th week	Protecting Your Data and Quiz	Protecting Your Data and Privacy Lecture and Quiz		
8th week	MittermExam		MidtermExam	
9th week	No class (Sch	No class (School Event)		
10th week	No class (Monday Class)		No class (Monday Class)	
11th week	Protecting Your Data and Labwo	Protecting Your Data and Privacy Lecture and Labwork		
12th week	Protecting Your Data a	Protecting Your Data and Privacy Labwork		
			Understanding Firews ¹¹	
13th week	Will Your Future Be in	cycersecunty Quiz	Understanding Firewall Port scaning	
14th week	WII Your Future Be in C	WII Your Future Be in Cybersecurity Labwork		
15th week	WII Your Future Be in C	WII Your Future Be in Cybersecurity Labwork		
16th week	WII Your Future Be in Q	Will Your Future Be in Cybersecurity Labwork		
17th week	Will Your Future Be in Q	Will Your Future Be in Cybersecurity Labwork		
			Wrap up and do cybersecurity	
18th week	Prepare for F	FinalExam	Prepare for FinalExam	

FinalExam

Return Exam sheet and feedback

Fianl Exam

Return Exam sheet and feedback

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19th week

20th week

10 10 20

Basic Ability Technical Abil Interdisciplinar