System Security							
Course Code		Student	Credits	Semeste	r Frequency	Duration	
CIF62030		Workload	(according to ECTS)	Sem. 6	each even-seme	ster 16 meetings	
		90 hours	4.5				
1	Types of	courses	conta	lot hours	independent study	class size	
	elective		63	hours	27 hours	40 students	
2	Prerequisites for participation						
	Completed Information Security.						
3	Learning outcomes						
	Students are able to explain system security fundamental concept.						
	Students are able to explain ethical hacking fundamental concept.						
	Students are able to demonstrate the ability to analyze system vulnerability.						
	Students are able to demonstrate the ability to implement penetration testing.						
	Students are able to explain malware threats concept.						
	Students are able to demonstrate the ability to implement session hijacking.						
	Students are able to explain server web and application web security fundamental concept.						
	Students are able to demonstrate the ability to implement SQL Injection.						
	Students are able to explain mobile platform security fundamental concept.						
	Students are able to explain IoT security fundamental concept.						
	Students are able to explain cloud security fundamental concept.						
	Students are able to demonstrate the ability to implement access control.						
	Students are able to explain authorization models.						
	Students are able to demonstrate the ability to implement cryptography for system security.						
4	Subject aims						
	IF-PLO-3						
	Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements.						
	IF-PLO-7	7					
	Mastering the theoretical concept and principles of computer science, especiall aspect of algorithms, programming, intelligent systems, information management, and distributed computing, information security, human-computer interaction, sengineering, and fundamentals of computer systems and networks.				e, especially in th anagement, parallent nteraction, softwar		
	IF-PLO-11						

	Graduates are able to plan, develop, manage, and analyze the computer network-based system and the services running on top of them by considering the network security aspects.					
5	Teaching methods					
	lectures, case study, class discussion, presentation					
6	Assessment methods					
	assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment					
7	This module is used in the following degree programs as well					
8	Responsibility for module					
9	Other information					
	Certified Ethical Hacker v10, EC-Council					
	Whitman, Michael E.& Mattord, Herbert J. (2014). Principles of Information Security (5th Edition), Cengage Learning.					