Subject	Technology and Security			
	Туре	Semester	ECTS	Code
	MANDATORY (O)	2	4	
Course Lecturer				
Aims and Objectives	The course will include the historical background of security, the fundamentals of information systems security, privacy and the importance of security for information systems. Additional topics include protection schemes, Global cybersecurity threatens, cybersecurity Behaviours, malicious security threats (viruses, worms, Trojan horses) and online security.			

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	Upon completion of thisStudents will be all		concepts of	confidentiality	
Learning Outcomes	availability, and in		•	• ·	
0	security.Students will under	erstand the r	potential thre	ats of information	n
	systems				
	 Students will be a suther tigstion po 		•		
	authentication, non- evaluation, access control and privacy				
	Understand information security theories and principles				
	 Defence mechanisms understand both their strengths and limitations 				
	Demonstrate how	to ensure th	ne use of files	and users	
	Course Plan			Week	
	Technology Changing and Digital Transformation security				1
	What is information Security				2
	Information securi	ty goals			3
	Data Analytics / Im		Accessing Da	ata	4
	Risk Management		-		5
	Types of attacks /	National Cyt	ber Attacks		6
Course Content	Cybersecurity Beh	aviours			7
	Information securit	y policies, g	uidelines and	d procedures.	8
	Global Cyber Threa	atens			9
	National Cybersec	urity Ecosys	stem		10
	Critical Security Inf				11
	Cybersecurity Gan	nification			12
	Presentations of re	esearch pape	ers		13
	Presentations of re	esearch pap	ers		14
	Course summary:		Review		15
	Teaching/Learning Activity Weight (%			Weight (%)	
	1. Lectures			60%	
	2. Term Project			20%	
Teaching/Learnin	3. Case studies			10%	
	4. Laboratory	Number	Week	10%	
g Assessment	Assessment Activity 1. Attendance	12	1-12	Weight (%) 5%	
	2. Seminar Paper*	1	9	25%	
Methods	3. Final Exam	•	0	70%	
	* The seminar paper is m	andatory ar	nd conditions		m.
	Resources			Number	
	1. Class			1	
Course resources	2. Laboratory			1	
	3. Moodle			1	
	4. Projector			1	
	Activity		Weekly	Total workload	
	1. Lectures		2	30	
ECTS Workload	2. Seminars		1	15	1

3.Laboratory 4. Independent learning 6. Exam/presentations	12	10 40 5	
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	Text Book
	 Principles of Information Security (MindTap Course List) 7th Edition by Michael E. Whitman (Author), Herbert J. Mattord Fundamentals of Information Systems Security 4th Edition by David Kim (Author), Michael G. Solomon Infosec Strategies and Best Practices: Gain proficiency in information security using expert- level strategies and best practices by Joseph MacMillan Hackable: How to Do Application Security Right by Ted Harrington Practical Cybersecurity Architecture: A guide to creating and implementing robust designs for cybersecurity architects by Ed Moyle (Author), Diana Kelley
Literature/Referen ces	 Practical Cybersecurity Architecture: A guide to creating and implementing robust designs for cybersecurity architects by Ed Moyle (Author), Diana Kelley Privilege Escalation Techniques: Learn the art of exploiting Windows and Linux systems by Alexis Ahmed Security Engineering: A Guide to Building Dependable Distributed Systems 3rd Edition by Ross Anderson The Age of Surveillance Capitalism: The Fight for a Human Future at the New Frontier of Power by Shoshana Zuboff Cult of the Dead Cow: How the Original Hacking Supergroup Might Just Save the World Joseph Menn
Contact	