



## COURSE / MODULE / BLOCK DETAILS ACADEMIC YEAR / SEMESTER

Offered by:			
Faculty of E	ngineering		
Course Title	•:		Course Org. Title:
BASIC CYBER			BASIC CYBER SECURITY
Course Level			Course Code:
Bachelor's D			MTH 3501
Bacheror 3 L	egree		MIN 5501
Language of	Instruction:		Form Submitting/Renewal Date
English			09/02/2023
Weekly Cours	e Hours:		Course Coordinator:
2			DOÇ.DR. GÖKHAN DALKILIÇ
	1		
Theory	Application	Laboratory	National Credit:
_		-	2
2	0	0	ECTS Credit:
			4

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DOKUZ EYLUL UNIVERSITY

FACULTY OF ENGINEERING OFFICE OF THE DEAN



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Course Status: Compulsory/Elective

Name of the Department:

Instructor/s:

DOÇ.DR. GÖKHAN

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## Course Objective:

This course aims to provide a general introduction to basic concepts in cyber security. Anyone with a good general knowledge of information and communication technology can take this course. The nature, scope and importance of cyber security are explained, and basic concepts are justified and researched within the course. This course covers the types of threats and attacks that cybersecurity must address, as well as technologies and processes that can be deployed.

Learni	ng Outcomes:
1	1. Defines the characteristics of criminals and experts in the cyber security world.
2	2. Explains how the principles of confidentiality, integrity and availability relate to data states and cybersecurity measures.
3	3. Explains the tactics, techniques and procedures used by cybercriminals.
4	4. Explains how technologies, products and procedures are used to protect privacy, ensure integrity and high availability.
5	5. Explains how cybersecurity professionals use technologies, processes, and procedures to defend all components of the network.
6	6. Explains the purpose of cyber security laws.

Learning and Teaching Strategies: Lectures Exams Practice

Assessment Methods:		
Name	Code	Calculation formula
MIDTERM EXAM	MTE	
PROJECT	PRJ	
FINAL EXAM	FIN	
FINAL COURSE GRADE	FCG	MTE * 025 + PRJ * 025 + FIN * 050
RESIT	RST	
FINAL COURSE GRADE (RESIT)	FCGR	MTE * 025 + PRJ * 025 + RST * 050

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Further Notes about Assessment Methods:

Assessment Criteria:

In addition to midterm and final exams, the performance of the student in the course is evaluated with project / practice assignments.

Textbook(s)/References/Materials:

Course Policies and Rules:

Participation is mandatory.

Contact Details for the Instructor:

dalkilic@cs.deu.edu.tr

Office Hours: To be announced

Course	e Outline:
Week	Topics: Notes:
1	Information and Introduction of the Course and
	Preliminaries.
2	Historical Development of Security, Understanding the
	Danger
3	Risk Management Approach and Basic Principles of
	Cyber Security
4	Cyber Threat and Attacks -1
5	Cyber Threat and Attacks -2

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6	Information Security, Security in Social Environments
	in Mobile Networks
7	Midterm
8	Cryptology and Access Control in Cyber Security
9	How to Ensure Data Integrity in the Cyber World?
10	How is Accessibility Provided in the Cyber World?
11	How Do We Secure the System and Devices?
12	Cyber Security Technologies and Features
13	Human Factor, Ethics and Career in Cyber Security
14	Student presentations and face-to-face lecture





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## ECTS Table

Course Activities	Number	Duration	Total Work
In Class Activities		(hour)	Load (hour)
Lectures	13	3	39

Exams			
Final	1	4	4
Midterm	1	4	4

Preparations before/after weekly lectures	13	1	13
Preparation for midterm exam	1	4	4
Preparation for final exam	1	4	4
Preparing assignments	4	8	32
otal Work Load (hour)			100

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