ESOGÜ Mathematics and Computer Sciences COURSE INFORMATION FORM

SEMESTER	Fall

COURSE CODE	821617011	COURSE NAME	Hardware

SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Labratory	Credit	ECTS	TYPE	LANGUAGE
7	3	0	0	3	5	COMPULSORY ( ) ELECTIVE (x)	Turkish

COURSE CATAGORY			
Mathematics	Computer		Social Science
	x		

ASSESSMENT CRITERIA			
	Evaluation Type	Quantity	%
MID-TERM	1st Mid-Term	1	50
	2nd Mid-Term		
	Quiz		
	Homework		
	Project		
	Report		
	Others (……)		
FINAL EXAM		1	50

PREREQUIEITE(S)	None.
COURSE DESCRIPTION	Hardware. Things to know for maintenance-repair. Server hardware. Game consoles. Von Neumann architecture. Hardware-operating system relationship. Hardware-based computer security
COURSE OBJECTIVES	• Will be able to omprehend functions of computer parts and interactions with each other. • Will be able to have knowledge on basic operation principle of computer • Will be able to have knowledge on basic hardware components of computer • Will be able to comprehend relation between hardware and software • Will be able to describe hardware terms
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	Preparing students for more advanced works in Hardware
COURSE OUTCOMES	Students will explore this through problem-solving paradigms, logic and theorem proving, language and image understanding, search and control methods, and learning.
TEXTBOOK	Güngörsün, T., Canay, Ö., "Bilgisayar Donanımı ve Bileşenleri", Değişim Yayınları (2016).
OTHER REFERENCES	Güngörsün, T., Canay, Ö., "Bilgisayar Donanımı ve Bileşenleri", Değişim Yayınları (2016).
TOOLS AND EQUIPMENTS REQUIRED	None.

COURSE SYLLABUS	
WEEK	**TOPICS**
1	Definition and historical development of the computer
2	Description and structure of the hardware
3	CPU, hard disk, memory, motherboard, ROM memory
4	Input units: Keyboard and mouse
5	Output units: Display and printer
6	Output units: Display and printer
7	Output units: Display and printer
8	drivers
9	Other peripherals
10	Starting the computer
11	Network and application software
12	BIOS and BIOS settings
13	BIOS and BIOS settings
14	BIOS and BIOS settings
15,16	Final Exam

NO	PROGRAM OUTCOMES	3	2	1
1	The ability to apply knowledges of Mathematics and Computer Sciences,		**x**	
2	To have sufficient theoretical and practical knowledge of Mathematics at international level,	**x**		
3	The ability of describing, modelling and solving of mathematical problems at Mathematics and related subjects,		**x**	
4	The skill to solve and design a problem process in accordance with a defined target,		**x**	
5	Skills to analyze data, interpret and apply to other datum and using these data on computer,	**x**		
6	The skill to use the modern techniques and computational tools needed for mathematical applications,	**x**		
7	The skill to make team work within the discipline and interdisciplinary,	**x**		
8	The ability to improve oneself by following the developments on other modern, scientific and technological subjects as well as Mathematics and Computer Sciences,		**x**	
9	The skill to communicate orally and in written way, in a clear and concise manner by having individual work skills and ability to independently decide and analytical thinking,	**x**		
10	The skill to have professional and ethical responsibility,		**x**	
11	The skill to have consciousness for quality issues and scientific research,		**x**	
12	The skill to be sensitive to environmental issues related with problems and development of living area and consistent in the social relations,		**x**	
13	Ability to solve problems in the working life faced to find an appropriate algoritms via mathematical modeling and to write computer programs,		**x**	
14	The skill to developed design of software systems at different complex levels,		**x**	
15	The credence of necessity of life-long learning and ability to apply the formation long-life learning.	**x**		
1:None. **2**:Partially contribution. **3**: Completely contribution.				

Instructor(s): Dr.Özer ÇELİK

Signature: **Date:**