ESOGU METALLURGICAL AND MATERIALS ENGINEERING DEPARTMENT

COURSE INFORMATION FORM

Course Name	Course Code
İnformation Technologies	

Semester	Number of Course Hours per Week		ECTS
	Theory	**Practice**	
2	2	2	4

Course Category (Credit)				
Basic Sciences	**Engineering Sciences**	**Design**	**General Education**	**Social**
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Course Language	Course Level	Course Type
Turkish	Undergraduate	Elective

Prerequisite(s) if any	-
Objectives of the Course	To introduce the basic information technology concepts and applications and to use these skills during their undergraduate studies
Short Course Content	Basic information technology concepts, hardware, Windows operating systems, software, application of Office programmes (MS Word, Excel, PowerPoint, Access), Database concepts, Internetworking

	Learning Outcomes of the Course	Contributed PO(s)	Teaching Methods *	Measuring Methods **
1	Be able to operate basic information technology equipment safely	4	1, 2, 5, 6	A, C, K
2	Have an understanding of fundamental theory in the area of information technology and computer applications and introductory level	4	1, 2, 5, 6	A, C, K
3	Be able to use hardware and standard computer applications	4	1, 2, 5, 6	A, C, K
4	Be able to use software and programming	4	1, 2, 5, 6	A, C, K
5	Be able to prepare presentations, write reports by using Office programs	4	1, 2, 5, 6	A, C, K
6				
7				
8				

*Teaching Methods 1:Expression, **2:**Discussion, **3:**Experiment, **4:**Simulation, **5:**Question-Answer, **6:**Tutorial, **7:**Observation, **8:**Case Study, **9:**Technical Visit, **10:**Trouble/Problem Solving, **11:**Induvidual Work, **12:**Team/Group Work, **13:**Brain Storm, **14:**Project Design / Management, **15:**Report Preparation and/or Presentation

Measuring Methods A:Exam, **B:Quiz, **C:**Oral Exam, **D:**Homework, **E:**Report, **F:**Article Examination, **G:**Presentation, **I:**Experimental Skill, **J:**Project Observation, **K:**Class Attendance; **L:**Jury Exam

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Main Textbook	Windows7-Office 2010, Ömer Bağcı, Seçkin Yayınevi, 2010
Supporting References	Bilgisayarın B'si, Ömer Bağcı, Seçkin Yayınevi, 2010
Necessary Course Material	Computer

Course Schedule	
1	Basic information technology concepts
2	Hardware
3	Virus removal softwares
4	Windows operating systems
5	Windows operating systems
6	MS Word
7	MS Word
8	Mid-Term Exam
9	MS Word
10	MS Excel
11	MS Excel
12	MS Excel
13	MS Excel
14	MS PowerPoint
15	MS PowerPoint
16,17	Final Exam

Calculation of Course Workload			
Activities	**Number**	**Time (Hour)**	**Total Workload (Hour)**
Course Time (number of course hours per week)	14	4	56
Classroom Studying Time (review, reinforcing, prestudy,….)	14	2	28
Homework			
Quiz Exam			
Studying for Quiz Exam			
Oral exam			
Studying for Oral Exam			
Report (Preparation and presentation time included)			
Project (Preparation and presentation time included)			
Presentation (Preparation time included)			
Mid-Term Exam	1	1	1
Studying for Mid-Term Exam	1	10	10
Final Exam	1	1	1
Studying for Final Exam	1	20	20
		Total workload	116
		Total workload / 30	3,86
		Course ECTS Credit	4

Evaluation	
Activity Type	**%**
Mid-term	40
Quiz	-
Homework	
Bir öğe seçin.	
Bir öğe seçin.	
Final Exam	60
Total	100

NO	RELATIONSHIP BETWEEN THE COURSE LEARNING OUTCOMES AND THE PROGRAM OUTCOMES (PO) (5: Very high, 4: High, 3: Middle, 2: Low, 1: Very low)	
NO	**PROGRAM OUTCOME**	**Contribution**
1	To possess sufficient knowledge in mathematics, science, and engineering subjects related to Metallurgical and Materials Engineering; the ability to apply theoretical and practical knowledge in these areas to model and solve engineering problems.	2
2	The ability to identify, define, formulate, and solve complex engineering problems by selecting and applying appropriate analysis and modeling methods.	3
3	The ability to design a complex system, process, device, or product under realistic constraints and conditions to meet specific requirements by applying modern design methods.	3
4	The ability to develop, select, and use modern techniques and tools necessary for engineering applications encountered as a Metallurgical and Materials Engineer; the ability to effectively use information technology.	5
5	The ability to design experiments, conduct experiments, collect data, analyze results, and interpret findings for the investigation of engineering problems.	3
6	The ability to work effectively individually, as well as within disciplinary and interdisciplinary teams.	3
7	The ability to communicate effectively in Turkish, both verbally and in writing; knowledge of at least one foreign language.	3
8	The awareness of the necessity for lifelong learning; the ability to access information, follow developments in science and technology, and continuously renew oneself.	4
9	Awareness of professional and ethical responsibility.	1
10	Knowledge about business practices such as project management, risk management, and change management; awareness of entrepreneurship, innovation, and sustainable development.	1
11	Knowledge about the universal and societal impacts of engineering applications on health, environment, and safety; awareness of the legal consequences of engineering solutions.	1
12	Awareness of quality consciousness and sustainability in material selection, product development, and production processes in engineering applications; awareness of quality control.	1
13	The ability to confidently approach problems encountered in engineering applications.	2

LECTUTER(S)				
Prepared by	Assoc.Prof.Dr. Bilge YAMAN ISLAK			
Signature(s)	*B. Yaman*			

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