



Eskişehir Osmangazi University, Faculty of Engineering and Architecture
Electrical-Electronics Engineering Department

COURSE INFORMATION FORM

SEMESTER	Fall/Spring
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COURE CODE	151227465	COURSE TITLE	SEMINAR IN ELECTROTECHNOLOGY I
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SEMESTER IN PROGRAM	WEEKLY COURSE HOURS			COURSE			
	THEORY	PRACTICE	LAB.	CREDIT	ECTS	TYPE	LANGUAGE
7	0	2	0	1	2	Elective	English

ECTS CREDIT DISTRIBUTION				
Math and Science	Basic Engineering	Design	Electrical-Electronics Engineering	Social Studies
			2	

ASSESSMENT (%)				
Midterm Exam		Lab Performance		Project
Quizzes		Lab Preliminary Work		Oral Exam
Homework		Lab Reports		FINAL EXAM
				100

RECOMMENDED PREREQUISITES	NONE
BRIEF CONTENTS	Research on the fundamentals and applications of a cutting-edge technology, preparation of a presentation on the assigned topic, and presenting it in the classroom.
COURSE OBJECTIVES	Practicing research skills Practicing presentation skills
CONTRIBUTION TO VOCATIONAL EDUCATION	Communicating effectively in oral form in English. Making effective presentations
LEARNING OUTCOMES	Ability to do research Ability to present technical information
TEXTBOOK	None
REFERENCES	None
MATERIALS	None

WEEKLY COURSE PLAN	
WEEK	SUBJECTS
1	Introduction
2	Cutting edge technologies in subfields of electrical-electronics engineering
3	Assignment of the presentation topics
4	Research for the topic
5	Research for the topic
6	Research for the topic
7	Research for the topic
8	MIDTERM EXAMS
9	Research for the topic
10	Research for the topic
11	Presentation skills
12	Presentation skills
13	Presentations in class
14	Presentations in class
15	Presentations in class
16,17	FINAL EXAMS

NO	COURSE CONTRIBUTION TO THE PROGRAM OUTCOMES	CONTRIBUTION LEVEL		
		1 low	2 med	3 high
1	Adequate knowledge of mathematics, science and Electrical and Electronic Engineering; ability to practice theoretical and practical knowledge of these areas into modeling and solving complex problems of Electrical and Electronic Engineering	x		
2	Ability to identify complex engineering problems in Electrical and Electronic Engineering and related fields, for this purpose having skills to formulate, select and apply appropriate methods.	x		
3	Skills to apply modern design methods to design a complex system, process, equipment or product that should work under realistic conditions and constraints and satisfy specific requirements concerning the Electrical and Electronic Engineering	x		
4	Skills to develop, select and apply modern techniques and tools needed to analyze and solve complex applications in Electrical and Electronic Engineering, skills to use information technology effectively.	x		
5	Skills to design and conduct tests, collect data, analyze results, and interpret data for the experimental investigation of complex problems in Electrical and Electronic Engineering	x		
6	Ability to function effectively as an individual and as a member of teams within the discipline and in multidiscipline areas.	x		
7	Communicating effectively in oral and written form both in Turkish and English. Effective report writing and understanding written reports, preparing design and manufacturing reports, making effective presentations, skills to give and receive clear and concise instructions			x
8	Awareness of the necessity of lifelong learning, access to information, monitoring developments in science and technology and the ability to self-renewing			x
9	Understanding of professional and ethical responsibility	x		
10	Information on project management, change management and risk management practices, awareness on entrepreneurship and innovation, knowledge on sustainable development.	x		
11	Information about universal and societal effects of engineering applications on health, safety and environment; awareness of the legal consequences of engineering solutions.	x		

Instructor:	Prof.Dr. H. H. Erkaya	Date of update:	05.07.2023
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