

ELEC4920 COURSE CATALOG INFO

Course Code : ELEC4920				Course Name : Summer Practice - II			
Semester	Lecture (Le+T+L)	Local Credit	ECTS	Language	Category	Instructional Methods	Prerequisites
7	(0+0+0)	0	3	English	Core	Industrial Practice	-
Course Content	Minimum 20 working days of summer practice in the system development and integration, design, manufacturing, assembly and testing departments of an industrial corporation related with the electrical and electronics engineering fields. Delivering a report on the accumulated knowledge.						
Course Outcomes	CO 1. Gain knowledge about business life practices. CO 2. Gain awareness about all aspects of engineering applications. CO 3. Gain consciousness about professional and ethical responsibility. CO 4. Gain knowledge on standards used in engineering practice. CO 5. Gain experience on following instructions, gathering information and writing reports.						

COURSE ASSESMENT AND ECTS WORK LOAD

Type of Work	Count	ECTS WORK LOAD	
		Time (Hour)(Including prep. time)	Work Load
Reports	1	30	30
Observation, Hands-On Work, Oral Presentation	1	20	20
Other (Meetings, Reading, Info gathering, Self-study)	1	20	20
		Total work load	70
		ECTS Credit	3

PROGRAM OUTCOMES - COURSE OUTCOMES RELATIONS

PO	Program Outcomes	CO
1	1.1. Adequate knowledge in fundamentals of mathematics (algebra, differential equations, integrals, probability etc), science (physics, chemistry, biology etc.) and computer science (programming and simulation);	
	1.2. ability to use theoretical and applied knowledge in these areas in complex engineering problems.	
2	2.1. Ability to identify, formulate, and solve complex engineering problems;	
	2.2. ability to select and apply proper analysis and modeling methods for this purpose.	

3	3.1. Ability to design and integrate components of a complex system or process, as they relate to Electrical and Electronics Engineering discipline, under realistic constraints and conditions, in such a way as to meet desired requirements;	
	3.2. ability to apply modern design methods.	
4	4.1. Ability to devise, select, and use techniques and tools needed for analyzing and solving complex problems encountered in engineering practice;	
	4.2. ability to employ information technologies effectively.	
5	5.1. Ability to design experiments,	
	5.2. ability to conduct experiments, gather, analyze and interpret data.	
6	6.1. Ability to work in intra-disciplinary teams;	
	6.2. ability to work in multi-disciplinary teams;	
	6.3. ability to take individual responsibilities.	
7	7.1. Ability to effectively communicate via written and oral means;	
	7.2. knowledge of at least one foreign language;	
	7.3. ability to write effective reports and comprehend written reports;	5
	7.4. ability to write design and manufacturing reports	
	7.5. ability to present effectively,	
	7.6. ability to give and follow clear instructions.	5
8	8.1. Recognition of the need for lifelong learning;	
	8.2. ability to access information, to follow developments in science and technology, and to continue to educate him/herself.	
9	9.1. Consciousness to behave according to ethical principles, and about professional and ethical responsibility;	3
	9.2. knowledge on standards used in engineering practice.	4
10	10.1. Knowledge about business life practices such as project management, risk management, and change management;	1
	10.2. awareness in entrepreneurship, innovation;	
	10.3. knowledge about sustainable development.	
11	11.1. Knowledge about the global and social effects of engineering practices on health, environment, and safety, and contemporary issues of the century reflected into the field of engineering;	2
	11.2. awareness of the legal consequences of engineering solutions.	

Revision Date	Prepared by	Approved by
1.9.2019, 1.9.2021	Prof.Dr. Ahmet Aksen	Prof.Dr. Ahmet Aksen