## Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering Electrical-Electronics Engineering Department 2023-2024 Spring Semester

Syllabus				
Code/Name	EEE 108 / Introduction to Electrical Engineering			
Туре	Required			
Credit/ECTS	6/6			
Hour per Week	2 (2+0+0)			
Level/Year	Undergraduate/1			
Semester Spring				
Classroom	WWF   A103			
Content	An orientation course introducing the students to engineering in general and to electrical and electronics engineering in particular with a discussion of the past, present and future of major areas. The course also aims to emphasize the ethical issues and current debates in electrical engineering and bring career and research opportunities to the attention of students. A general portrayal of electrical engineering is presented by means of practical, hands-on design projects and technical tutorials.			
Prerequisites	None			
Textbooks	<ul> <li>Primary</li> <li>Class Notes</li> <li>AR Hambley, Electrical Engineering Principles and Applications, Pearson Education, 6th Ed., 2016.</li> <li>Supplementary</li> <li>JW Nilson, SA Riedel, Electric Circuits, Pearson Education, 8th Ed., 2008.</li> </ul>			
Objectives	<ul> <li>To learn the history of electrical engineering</li> <li>To develop engineering ethics and understand the impacts of unethical engineering decisions on the environment, society, public health, privacy etc.</li> <li>To gain a practical perspective to main engineering systems and challenges prior to theoretical courses of the following years with practical design projects</li> </ul>			
Course Outcomes	<ul> <li>In this course you will be able to:</li> <li>CO1 get an ability to communicate effectively with a range of audiences.</li> <li>CO2 get an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.</li> <li>CO3 get an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.</li> </ul>			
Weekly Schedule of	Topics			

W	Topic
1	The History of Electrical Engineering
2	Electrical Engineering: An overview
3	Major classifications of Electrical Engineering
4	International System of Units
5	Problem Solving in Engineering
6	The Ethical Issues and Current Debates in Electrical Engineering
7	Career and Research Opportunities
8	Basics of Electrical Circuits

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9	Current, Voltage and Resistance										
10	Electrical Power and Energy										
11	Circuit Ana	alysis Met	hods								
12	Thevenin a	and Norto	n Equival	ent Circu	its						
13	Maximum	Power Tr	ansfer								
14	Phasors										
	1 1100010										
Professional Contribution       Be provided with an overview of the EE profession, careers, and the field in general, learn the current research areas and career opportunities and will be more equipped to make career decisions.         Contribution to Program Outcomes*											
	P01	PO2	PO3	PO4	PO5	P06	P07	P08	P09	P010	P011
C01	5	4	2	4	1	4	2	2	3	5	1
C02	4	5	1	4	1	4	4	2	2	3	1
CO3	3	5	3	4	3	4	2	2	2	3	0
CO4	4	4	3	3	0	4	3	2	4	4	0
C05	5	2	4	4	1	5	5	3	1	1	2
* Contribution Level   0: None   1: Very Low   2: Low   3: Medium   4: High   5: Very High											
Course Policy       • Be in the class on time.         • English should always be used to communicate with one another.         • At least 70% attendance is required, otherwise a grade of DZ will be assigned.         • You must be present in class for the exercises and solve problems.         • Conving or letting someone conv your work on exame assignments or reports is											
Plagiarism cheating tout figures and tables from such courses of the distance											

<ul> <li>Cutting and</li> </ul>	pasting text, figu	res and table	es from wel	b sources or a	ny other electronic
source is pl	agiarism.				

	• The consequence of academic dishonesty is to receive a grade of <b>FF</b> for the course.			
Evaluation	Exercises	10%		
	Midterm	30%		
	Final Exam	60%		
	Total	100%		
Instructor				

mstructor			
Name/Surname	Emrah Irmak	Email	emrah.irmak@alanya.edu.tr
Room	228	Office Hours	Tu 10.30-11.30   F 15.30-17.30

Prepared by Emrah Irmak on June 7th, 2024.