	Course name: EE332 Introduction to Telecommunications - Laboratory		**Department:** Electrical and Electronics Engineering		Semester
					6
	Methods of Education				Credit (ECTS)
	Lecture	Lab.	Quiz (including pre.)	Total	1
	0	16	35	51	

Language	English
Compulsory/Elective	Elective
Prerequisites	EE207 and EE208
Course Contents	Hands-on lab experiments on fundamentals of communications, AM, DSB-AM, FM, sampling and quantization, PAM, PSK.
Course Objective	To learn how to implement certain modulation/demodulation techniques used in analog/digital communications and to learn how to implement sampling and quantization.
Learning Outcomes and Competences	**Students who pass the course will be able:** 1) to implement certain analog and digital modulation/demodulation methods. 2) to measure fundamental quantities involved in communication systems. 3) to implement sampling and quantization techniques.
Textbook and /or References	“Contemporary Communication Systems Using MATLAB”, 3rd Edition, John G. Proakis, Masoud Salehi, and Gerhard Bauch.

Assessment Criteria		If any, mark as (X)	Percentage (%)
	Midterm Exams		
	Quizzes		
	Homework		
	Projects		
	Term Paper		
	Laboratory work	X	100
	Other		
	Final Exam		

Instructors	Assoc. Prof. Serdar Özyurt

Weekly Schedule

Week	Subject
1	
2	
3	
4	
5	Amplitude Modulation and Demodulation
6	DSB & SSB Modulation and Demodulation
7	Frequency Modulation and Demodulation
8	Sampling and Reconstruction
9	**Mid-term exam**
10	Pulse Code Modulation and TDM
11	Channel Effects in Digital Communication
12	PAM, modulation and demodulation
13	PSK, modulation and demodulation
14	
15	