

COMMUNICATION AND NAVIGATION SYSTEMS

1	Course Title:	COMMUNICATION AND NAVIGATION SYSTEMS	
2	Course Code:	SHUZ203	
3	Type of Course:	Compulsory	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	1.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr.Gör. SILA AVGAN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	silaavgan@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	Different navigation systems used in the study and use of an air transport aircraft to examine the principles	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Explain in which segment of the flight and in what purpose the air navigation systems are used
		2	Explain the necessity of the radio waves for data transmission
		3	Explain the working principles of the ground based air navigation systems and their operations
		4	Explain the working principles of aircraft based air navigation systems and their operations
		5	Tell the working principles and the usage in air navigation of satellite based air navigation systems.
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	General concepts of radio wave		
2	VDF, ADF systems		
3	VDF, ADF systems		

4	VOR, DME, VORTAC, ILS, MLS, RADAR Systems	
5	VOR, DME, VORTAC, ILS, MLS, RADAR Systems	
6	GPWS, IRS, GPS, GNSS, TCAS, FMS, R-NAV, CNS/ATM	
7	Navigation methods	
8	Map types, Distance between two points account, Direction estimation and map reading on the map	
9	Map types, Distance between two points account, Direction estimation and map reading on the map	
10	Map types, Distance between two points account, Direction estimation and map reading on the map	
11	Influence of the wind on the flight path and various speeds used in aviation	
12	Influence of the wind on the flight path and various speeds used in aviation	
13	Influence of the wind on the flight path and	

Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	

24	ECTS / WORK LOAD TABLE
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ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			