

GENEL TANIM / GENERAL DESCRIPTION

Ders Adı / Course Name	Communication & Navigation Systems / Communication & Navigation Systems	
Ders Kodu / Course Code	ECAM309	
Ders Türü / Course Type		
Ders Seviyesi / Course Level	Bachelor / Bachelor	
Ders Akts Kredi / ECTS	5.00	
Haftalık Ders Saati (Kuramsal) / Course Hours For Week (Theoretical)	3.00	
Haftalık Uygulama Saati / Course Hours For Week (Objected)	0.00	
Haftalık Laboratuar Saati / Course Hours For Week (Laboratory)	0.00	
Dersin Verildiği Yıl / Year	3	
Öğretim Sistemi / Teaching System	Daytime Class / Daytime Class	
Eğitim Dili / Education Language	English / English	
Ön Koşulu Olan Ders(ler) / Precondition Courses	.N/A	N/A
Amacı / Purpose	This course aims to examine the principles of operation and use of different navigation systems used in air transportation.	This course aims to examine the principles of operation and use of different navigation systems used in air transportation.
İçeriği / Content	Contents of the course include the subjects such as classification of navigation systems according to their characteristics, functions and components of radio transmitters, process of obtaining information in airplane navigation systems, operation of satellite based navigation systems and advantages over other systems.	Contents of the course include the subjects such as classification of navigation systems according to their characteristics, functions and components of radio transmitters, process of obtaining information in airplane navigation systems, operation of satellite based navigation systems and advantages over other systems.
Önerilen Diğer Hususlar / Recommended Other Considerations	.N/A	.N/A
Staj Durumu / Internship Status	.N/A	.N/A
Kitabı / Malzemesi / Önerilen Kaynaklar / Books / Materials / Recommended Reading	.ICAT Module-5 ICAT Module-11.5 Stacey, D. (2008). Aeronautical radio communication systems and networks. John Wiley & Sons. Tooley, M., & Wyatt, D. (2017). Aircraft communications and navigation systems. Routledge.	.ICAT Module-5 ICAT Module-11.5 Stacey, D. (2008). Aeronautical radio communication systems and networks. John Wiley & Sons. Tooley, M., & Wyatt, D. (2017). Aircraft communications and navigation systems. Routledge.
Öğretim Üyesi (Üyeleri) / Faculty Member (Members)	.Dr. Mehdi Safaei	

ÖĞRENME ÇIKTILARI / LEARNING OUTCOMES

1	The principles of navigation systems, range and can be classified according to their intended use	The principles of navigation systems, range and can be classified according to their intended use
2	Explain the purpose of the navigation systems for the aviation.	Explain the purpose of the navigation systems for the aviation.

HAFTALIK DERS İÇERİĞİ / DETAILED COURSE OUTLINE

Hafta / Week					
1	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	.				
	What is "Communication and Coordination"?				
2	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Communication techniques				
	Communication techniques				
3	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Ability for problem solving within legal framework,				
	Ability for problem solving within legal framework,				
4	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Communication Skills				
	Communication Skills				
5	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Concept of process and components of the communication				
	Concept of process and components of the communication				

6	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Description mass communication				
	Description mass communication				
7	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Communication Models				
	Communication Models				
8	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Identifying internal and external factors that impact your communications				
	Identifying internal and external factors that impact your communications				
9	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Midterm				
	Midterm				
10	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Recognizing your role in communications				
	Recognizing your role in communications				
11	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Creating a strong connection when face-to-face communication is missing				
	Creating a strong connection when face-to-face communication is missing				

12	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Communicating nondefensively				
	Communicating nondefensively				
13	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Demonstrating respect, empathy and sensitivity				
	Demonstrating respect, empathy and sensitivity				
14	Teorik Dersler / Theoretical	Uygulama	Lab	Öğretim Yöntem ve Teknikleri/Teaching Methods Techniques	Ön Hazırlık / Preliminary
	Final Exam				
	Final Exam				

DEĞERLENDİRME / EVALUATION

Yarıyıl (Yıl) İçi Etkinlikleri / Term (or Year) Learning Activities	Sayı / Number	Katkı Yüzdesi / Percentage of Contribution (%)
Ara Sınav / Midterm Examination	1	100
Toplam / Total:	1	100
Başarı Notuna Katkı Yüzdesi / Contribution to Success Grade(%):		40

Yarıyıl (Yıl) Sonu Etkinlikleri / End Of Term (or Year) Learning Activities	Sayı / Number	Katkı Yüzdesi / Percentage of Contribution (%)
Final Sınavı / Final Examination	1	100
Toplam / Total:	1	100
Başarı Notuna Katkı Yüzdesi / Contribution to Success Grade(%):		60

Etkinliklerinin Başarı Notuna Katkı Yüzdesi(%) Toplamı / Total Percentage of Contribution (%) to Success Grade:		100
Değerlendirme Tipi / Evaluation Type:		

İŞ YÜKÜ / WORKLOADS

Etkinlikler / Workloads	Sayı / Number	Süresi (Saat) / Duration (Hours)	Toplam İş Yüğü (Saat) / Total Work Load (Hour)
Ara Sınav / Midterm Examination	1	60.00	60.00
Final Sınavı / Final Examination	1	60.00	60.00
Toplam / Total:	2	120.00	120.00
Dersin AKTS Kredisi = Toplam İş Yüğü (Saat) / 25.00 (Saat/AKTS) = 120.00/25.00 = 4.80 ~ / Course ECTS Credit = Total Workload (Hour) / 25.00 (Hour / ECTS) = 120.00 / 25.00 = 4.80 ~			

PROGRAM VE ÖĞRENME ÇIKTISI / PROGRAM LEARNING OUTCOMES

Öğrenme Çıktıları / Learning Outcomes	Program Çıktıları / Program Outcomes													
	1.1.1	1.1.2	1.1.3	1.1.4	1.1.5	1.1.6	1.1.7	1.1.8	1.1.9	1.1.10	1.1.11	1.1.12	1.1.13	1.1.14
1.The principles of navigation systems, range and can be classified according to their intended use / The principles of navigation systems, range and can be classified according to their intended use	2	3	3	4	4	5	5	4	3	3				
2.Explain the purpose of the navigation systems for the aviation. / Explain the purpose of the navigation systems for the aviation.	4	4	3	3	3	3	4	5	4	4				

Katkı Düzeyi / Contribution Level : 1-Çok Düşük / Very low, 2-Düşük / Low, 3-Orta / Moderate, 4-Yüksek / High, 5-Çok Yüksek / Very high