

School of Civil Aviation, Department of Air Traffic Control, 2025–2026 Academic Year Curriculum

FIRST YEAR

I. Semester

II. Semester

Code	Proposed Code	Course Name	C/O	T	A	C	ECTS	Code	Proposed Code	Course Name	C/O	T	A	C	ECTS
SHY103	MAT1151	Mathematics I	Z	4	0	4	6	SHY104	MAT1152	Mathematics II	Z	4	0	4	6
TRD109	TRD109	Turkish Language I	Z	2	0	2	2	TRD110	TRD110	Turkish Language II	Z	2	0	2	2
AIT201	AIT101	Atatürk's Principles and History of Reforms I	Z	2	0	2	2	AIT202	AIT102	Atatürk's Principles and History of Reforms II	Z	2	0	2	2
HTK105	YDI107	English I	Z	2	0	2	2	HTK106	YDI108	English II	Z	2	0	2	2
HTK101	HTK1101	Air Traffic Services	Z	3	0	3	5	HTK102	HTK1102	Aerodrome Control Methods	Z	5	0	5	8
HTK103	HTK1103	Introduction to Air Traffic Control	Z	2	0	2	3	HTK104	HTK1104	Communication and Navigation Systems	Z	4	0	4	5
HTK109	HTK1105	Meteorology	Z	3	0	3	5	HTK110	HTK1106	Aircraft Knowledge	Z	3	0	3	5
HTK107	HTK1107	Basic Information Technology	Z	2	2	3	5								
Total Credits for the Semester				20	2	21	30	Total Credits for the Semester				22	0	22	30

SECOND YEAR

III. Semester

IV. Semester

Code	Proposed Code	Course Name	C/O	T	A	C	ECTS	Code	Proposed Code	Course Name	C/O	T	A	C	ECTS
HTK211	MAT2153	Linear Algebra and Analytic Geometry	Z	2	0	2	3	HTK202	HTK2102	Non-Radar Control Methods	Z	5	0	5	5
SHY213	HTK2101	Algorithms and Programming	Z	2	2	3	5	HTK212	HTK2104	Navigation	Z	3	0	3	3
HTK205	HTK2103	Aerodrome Control Simulation I	Z	2	4	4	7	HTK208	HTK2106	Aerodrome Control Simulation II	Z	2	4	4	7
HTK207	HTK2105	English Speaking Skills I	Z	3	0	3	4	HTK214	HTK2108	English Speaking Skills II	Z	3	0	3	4
		Field Optional Course	S	3	0	3	4			Field Optional Course	S	3	0	3	4
		Field Optional Course	S	3	0	3	4			Field Optional Course	S	3	0	3	4
	SSDXXXX	Social Optional Course I	S	2	0	2	3		SSDXXXX	Social Optional Course II	S	2	0	2	3
Field Optional Course List								Field Optional Course List							
HTK203	HTK2107	Airports	S	3	0	3	4	HTK206	HTK2110	Flight Mechanics and Aircraft Performance	S	3	0	3	4
HTK408	HTK2109	Air Traffic Management	S	3	0	3	4	HTK108	HTK2112	Mechanics for Air Traffic Control	S	3	0	3	4
HTK204	HTK2111	Aeronautical Information System	S	3	0	3	4	HTK210	HTK2114	Air Traffic Communication and Information Management	S	3	0	3	4
HTK321	HTK2113	Sustainable Transportation Systems	S	3	0	3	4	HTTK213	HTK2116	Aerodynamics	S	3	0	3	4
	HTK2115	Alternative Energy Sources	S	3	0	3	4		HTK2118	Introduction to Unmanned Aerial Vehicle Technologies	S	3	0	3	4
Total Credits for the Semester				17	6	20	30	Total Credits for the Semester				21	4	23	30

THIRD YEAR

V. Semester

VI. Semester

Code	Proposed Code	Course Name	C/O	T	A	C	ECTS	Code	Proposed Code	Course Name	C/O	T	A	C	ECTS
HTK303	HTK3101	Instrument Flight Methods	Z	4	0	4	4	HTK312	HTK3102	Human Factors in Aviation	Z	3	0	3	5
HTK305	HTK3103	Trajectory Analysis and Estimation	Z	2	0	2	2	HTK306	HTK3104	Non-Radar Area Control Simulation	Z	4	4	6	7
HTK307	HTK3105	Non-Radar Approach Control Simulation	Z	4	4	6	7	HTK308	HTK3106	Air Law	Z	2	0	2	3
HTK311	HTK3107	English Speaking Skills III	Z	3	0	3	4		HTK3108	English Speaking Skills IV	Z	3	0	3	4
		Field Optional Course	S	4	0	4	5			Field Optional Course	S	3	0	3	4
		Field Optional Course	S	4	0	4	5			Field Optional Course	S	3	0	3	4
	SSDXXXX	Social Optional Course III	S	2	0	2	3		SSDXXXX	Social Optional Course IV	S	2	0	2	3
Field Optional Course List								Field Optional Course List							

HTK301	HTK3109	Radar Control Methods	S	4	0	4	5	HTK302	HTK3110	Aircraft Display Systems	S	3	0	3	4
HTK309	HTK3111	Airline Transportation Management	S	4	0	4	5	HTK318	HTK3112	Helicopter Basics	S	3	0	3	4
HTK209	HTK3113	Mathematical and Statistical Methods in Decision	S	4	0	4	5	HTK304	HTK3114	Equipment and System	S	3	0	3	4
	HTK3115	Digital Transformation in Aviation	S	4	0	4	5	HTK320	HTK3116	Flight Simulation	S	3	0	3	4
	HTK3117	Human Computer Interaction	S	4	0	4	5		HTK3118	Augmented Reality Applications	S	3	0	3	4
		Total Credits for the Semester		23	4	25	30			Total Credits for the Semester		20	4	22	30

FOURTH YEAR

VII. Semester								VIII. Semester							
Code	Proposed Code	Course Name	C/O	T	A	C	ECTS	Code	Proposed Code	Course Name	C/O	T	A	C	ECTS
	HTK4101	Operational Environment	Z	2	0	2	3	HTK410	HTK4102	Radar Area Control Simulation	Z	4	4	6	9
HTK407	HTK4103	Radar Approach Control Simulation	Z	4	4	6	9	HTK4104	HTK4104	Graduation Project	Z	0	2	1	2
HTK316	HTK4105	Unmanned Aerial Vehicles	Z	3	0	3	4	HTK412	HTK4106	English Speaking Skills VI	Z	3	0	3	4
HTK413	HTK4107	English Speaking Skills V	Z	3	0	3	4	HTK409	HTK4108	Safety Management in Air Traffic System	Z	3	0	3	5
		Field Optional Course	S	3	0	3	5			Field Optional Course	S	3	0	3	5
		Field Optional Course	S	3	0	3	5			Field Optional Course	S	3	0	3	5
		Field Optional Course List								Field Optional Course List					
HTK403	HTK4109	Airspace Organization	S	3	0	3	5	HTK402	HTK4110	Research Methods and Presentation Tech.	S	3	0	3	5
HTK324	HTK4111	UAV Operations	S	3	0	3	5	HTK404	HTK4112	Approaches in Air Traffic Management	S	3	0	3	5
HTK324	HTK4113	Autonomous Aircraft Safety	S	3	0	3	5	HTK420	HTK4114	Situational Awareness	S	3	0	3	5
	HTK4115	Aviation Accident Scene Investigation	S	3	0	3	5	HTK322	HTK4116	Introduction to Nanotechnology	S	3	0	3	5
	HTK4117	Civil-Military Air Traffic Coordination	S	3	0	3	5		HTK4118	Artificial Intelligence in Aviation	S	3	0	3	5
		Total Credits for the Semester		18	4	20	30			Total Credits for the Semester		16	6	19	30

Total Theroretical Class Hours	157
Total Practice Class Hours	30
Total Credits	150
Total Class Hours	187
Total ECTS	240
Theory/Practice Ratio	16.04
Total Optional Course ECTS	66