

Eskişehir Osmangazi University Aeronautical Engineering Department
Between 2021-2024, Undergraduate Curriculum

Course Code	Course Name	T	U	K	AKTS	Course Code	Course Name	T	U	K	AKTS
1. YARIYIL	FIRST YEAR FALL	20	4		30	2. YARIYIL	FIRST YEAR SPRING	21	4		30
152411004	PHYSICS I	3	0	3	3	152412001	PHYSICS II	3	0	3	3
152411005	PHYSICS I LAB.	0	2	1	2	152412002	PHYSICS II LAB.	0	2	1	2
152411006	CALCULUS I	4	0	4	5	152412003	CALCULUS II	4	0	4	5
152411007	CHEMISTRY	3	0	3	3	152412004	FUNDAMENTALS OF COMPUTER PROGRAMMING	2	2	3	5
152411010	INTRODUCTION TO AERONAUTICAL ENG.	3	0	3	6	152412005	INTRODUCTION TO AERIAL VEHICLES	3	0	3	5
152411008	TECHNICAL ENGLISH	2	0	2	2	152412006	STATICS	3	0	3	3
152411002	COMPUTER AIDED DRAWING	2	2	4	6	152412007	ACADEMIC WRITING	3	0	3	4
152411003	OCCUPATIONAL HEALTH AND SAFETY (I)	1	0	1	1	152412008	OCCUPATIONAL HEALTH AND SAFETY (II)	1	0	1	1
152411009	TURKISH LANGUAGE I	2	0	0	2	152412009	TURKISH LANGUAGE II	2	0	0	2
3. YARIYIL	SECOND YEAR FALL	21	0		30	4. YARIYIL	SECOND YEAR SPRING	20	0		30
152413001	DIFFERENTIAL EQUATIONS	3	0	3	5	152414001	NUMERICAL METHODS	3	0	3	4
152413002	MECHANICS OF MATERIALS	4	0	4	6	152414002	ENGINEERING THERMODYNAMICS	3	0	3	5
152413003	DYNAMICS	3	0	3	4	152414003	AEROSPACE MATERIALS	3	0	3	5
152413004	MATERIALS SCIENCE	3	0	3	5	152414004	FLUID MECHANICS	3	0	3	5
152413005	FUNDAMENTALS OF ELECTRICITY AND ELECTRONICS	3	0	3	4	152414005	MEASUREMENT TECHNIQUES	3	0	3	4
152413006	LINEAR ALGEBRA	3	0	3	4	152414006	MACHINE ELEMENTS	3	0	3	5
152413007	ATATÜRK İLKELERİ VE İNKILAP TARİHİ (I)	2	0	2	2	152414007	ATATÜRK İLKELERİ VE İNKILAP TARİHİ (II)	2	0	2	2
5. YARIYIL	THIRD YEAR FALL	86	8		135	6. YARIYIL	THIRD YEAR SPRING	92	12		164
152415001	FUNDAMENTALS OF AERODYNAMICS	3	0	3	5	152416001	COMPRESSIBLE AERODYNAMICS	3	0	3	5
152415002	HEAT TRANSFER	3	0	3	5	152416002	AEROSPACE STRUCTURES	3	0	3	5
152415003	ELASTICITY	3	0	3	4	152416003	AIRCRAFT STABILITY AND CONTROL	3	0	3	5
152415004	FUNDAMENTALS OF CONTROL SYSTEMS	3	0	3	5	152416004	PROPULSION SYSTEMS	3	0	3	5
152415005	MANUFACTURING TECHNOLOGIES	3	0	3	5	152416005	MECHANICAL VIBRATIONS	3	0	3	4
152415006	AIRCRAFT PERFORMANCE	3	0	3	3	152416006	PRACTICAL TRAINING 1	0	0	0	3
NTE I POOL	NON-TECHNICAL ELECTIVE	3	0	3	3	NTE II POOL	NON-TECHNICAL ELECTIVE (II)	3	0	3	3
NTE I POOL	NON-TECHNICAL ELECTIVE I	T	U	K	AKTS	NTE II POOL	NON-TECHNICAL ELECTIVE II	T	U	K	AKTS
152415007	PRODUCTION PLANNING	3	0	3	3	152416007	BEGINNING FRENCH 2	3	0	3	3
152415008	BEGINNING FRENCH 1	3	0	3	3	152416008	GERMAN 2	3	0	3	3
152415009	GERMAN 1	3	0	3	3	152416009	DECISION SUPPORT SYSTEMS	3	0	3	3
152415010	LABOUR LAW	3	0	3	3						
152415012	PROBABILITY	3	0	3	3						
7. YARIYIL	FOURTH YEAR FALL	16	4	18	30	8. YARIYIL	FOURTH YEAR SPRING	13	6	16	30
152417001	RESEARCH IN AERONAUTICAL ENGINEERING (I)	1	4	3	5	152418001	AERONAUTICAL ENGINEERING LAB	0	2	1	2
152417002	AIRCRAFT MAINTENANCE ENGINEERING	3	0	3	5	152418002	RESEARCH IN AERONAUTICAL ENGINEERING (II)	1	4	3	5
152417003	AIRCRAFT DESIGN	3	0	3	5	152418015	PRACTICAL TRAINING 2	0	0	0	3
FSE I POOL	FIELD-SPECIFIC ELECTIVE	3	0	3	5	FSE II POOL	FIELD-SPECIFIC ELECTIVE	3	0	3	5
FSE I POOL	FIELD-SPECIFIC ELECTIVE	3	0	3	5	FSE II POOL	FIELD-SPECIFIC ELECTIVE	3	0	3	5
DE I POOL	DESIGN ELECTIVE (I)	3	0	3	5	FSE II POOL	FIELD-SPECIFIC ELECTIVE	3	0	3	5
						DE II POOL	DESIGN ELECTIVE (II)	3	0	3	5
FSE I POOL	FIELD-SPECIFIC ELECTIVE (FSE I POOL)	T	U	K	AKTS	FSE II POOL	FIELD-SPECIFIC ELECTIVE II (FSE II POOL)	T	U	K	AKTS
152417004	INTRODUCTION TO JET ENGINES	3	0	3	5	152418003	AIRCRAFT SYSTEMS	3	0	3	5
152417005	STRUCTURES OF FUSELAGE	3	0	3	5	152418004	BOUNDARY LAYER FLOWS	3	0	3	5
152417006	AVIATION AND SPACE LAW	3	0	3	5	152418005	COMPUTATIONAL AERODYNAMICS	3	0	3	5
152417009	INTRODUCTION TO TURBOMACHINERY AERODYNAMICS	3	0	3	5	152418006	CORROSION	3	0	3	5
						152418007	FAILURE ANALYSIS	3	0	3	5
DE I POOL	DESIGN ELECTIVE I	T	U	K	AKTS	152418008	GAS TURBINE ENGINE SYSTEMS	3	0	3	5
152417007	COMPOSITE MATERIALS DESIGN	3	0	3	5	152418009	POWER ELECTRONICS	3	0	3	5
152417008	AIRCRAFT DESIGN WITH FINITE ELEMENT ANALYSIS	3	0	3	5	152418010	TESTING&EVALUATION OF ENGINEERING MATERIALS	3	0	3	5
						152418011	TURBULENT FLOWS	3	0	3	5
						152418016	FUNDAMENTALS OF COMBUSTION	3	0	3	5
						DE II POOL	DESIGN ELECTIVE II	T	U	K	AKTS
						152418012	ROTORCRAFT DYNAMICS AND DESIGN	3	0	3	5
						152418013	AIRCRAFT ENGINE DESIGN	3	0	3	5
						152418014	DESIGN OF CONTROL SYSTEMS	3	0	3	5

Notes: 1-This curriculum is valid for the students who enrolled in ESOGU Aeronautical Department the freshman year 2021-2022 Fall semester and 2023-2024 Fall Semester (included).