

## **AEROSPACE ENGINEERING DEPARTMENT**

### **AEROSPACE ENGINEERING DEPARTMENT MECHANICS & AEROSPACE ENGINEERING DEPARTMENT THERMODYNAMICS/AERODYNAMICS MINOR PROGRAMS**

This protocol is prepared according to Atilim University's Minor Programs Directive (14.03.2017 gün ve 03 sayılı Senato Kararı) for Aerospace Engineering minor program applicants. According to the Atilim University Minor Program Directive, the students must take at least six courses, not less than 30 ECTS. However, there may be common or equivalent courses between the minor program and the student's already enrolled major program. In this case, excluding those common or equivalent courses to the major program, students need to take at least four courses, not less than 20 ECTS in total.

Hence, considering the instructions mentioned above, the following points should be taken into consideration for Aerospace Engineering Minor Programs:

1. If there are common courses between the student's already enrolled major program and desired minor program, and the student is unable to satisfy the minor program's requested course number and/or ECTS value; the student must meet the requested requirements by choosing one or multiple course(s) from area elective courses' pool provided above for the relevant minor program.

**AEROSPACE ENGINEERING DEPARTMENT MECHANICS MINOR PROGRAM**

<b>Aerospace Engineering Department Mechanics Minor Program</b>				
Course Code	Course Name	Theory	Application	ECTS
ME201	Statics	3	0	6
MECE204	Dynamics	2	2	6
ME210	Strength of Materials	3	1	6
ASE301	Applied Elasticity	3	1	5
ASE302	Aerospace Structures	3	1	5
ASE308	Flight Mechanics	3	1	6
	Area Elective	3	0	5

<b>Aerospace Engineering Department Mechanics Minor Program Area Elective Pool</b>				
Course Code	Course Name	Theory	Application	ECTS
ASE462	Spacecraft Structures	3	0	5
AE434	Electric and Hybrid Vehicles	3	0	5
ENE303	Modeling, Analysis and Simulation	3	1	5
ENE408	Modeling and Control of Engineering Systems	3	1	5

**AEROSPACE ENGINEERING DEPARTMENT THERMODYNAMICS/AERODYNAMICS MINOR PROGRAM**

<b>Aerospace Engineering Department Thermodynamics/Aerodynamics Minor Program</b>				
Course Code	Course Name	Theory	Application	ECTS
ENE203	Thermodynamics	3	0	6
AE307	Fluid Mechanics I	3	1	6
ASE304	Aerodynamics I	3	2	6
ASE405	Aerodynamics II	3	2	6
ASE306	Propulsion Systems I	3	1	5
ASE407	Propulsion Systems II	3	1	5
	Area Elective	3	0	5

<b>Aerospace Engineering Department Thermodynamics/Aerodynamics Minor Program Area Elective Pool</b>				
Course Code	Course Name	Theory	Application	ECTS
ASE422	Computational Aerodynamics	3	0	5
ASE424	Turbulent Flows	3	0	5
ASE425	Introduction to Boundary Layer Theory	3	0	5
ASE426	Aerodynamic Geometry Optimization	3	0	5
ASE427	Helicopter Aerodynamics	3	0	5
ASE432	Spacecraft Thermal Control	3	0	5
ME436	Fluid Mechanics II	3	0	5
ME437	Introduction to Computational Fluid Dynamics	3	0	5
ME453	Heat Exchanger Design	3	0	5