

The list of offered courses for incoming Erasmus+ students at Faculty of Power and Aeronautical Engineering for academic year 2022/2023

Winter semester courses.

Course code	Course name	Semester	ECTS	Studies
1130-00000-ISA-1006	Environment protection	1st winter semester	2	1st cycle studies
1130-00000-ISA-1007	Materials 1	1st winter semester	2	1st cycle studies
1130-AERO0-ISA-3001	Aeronautical systems 1	3rd winter semester	3	1st cycle studies
1130-00000-ISA-3002	Basics of automation and control 1	3rd winter semester	4	1st cycle studies
1130-00000-ISA-3006	Fluid mechanics 1	3rd winter semester	4	1st cycle studies
1130-POWER-ISA-3007	Heat Transfer 1	3rd winter semester	3	1st cycle studies
1130-AERO0-ISA-3008	Introduction to aerospace	3rd winter semester	2	1st cycle studies
1130-00000-ISA-3009	Machine design 1	3rd winter semester	3	1st cycle studies
1130-AERO0-ISA-3012	Mechanics of structures 2	3rd winter semester	2	1st cycle studies
1130-POWER-ISA-3013	Theory of heat machines	3rd winter semester	3	1st cycle studies
1130-POWER-ISA-3015	Thermodynamics 3	3rd winter semester	3	1st cycle studies
1130-AERO0-ISA-5001	Aeronautical systems 2	5th winter semester	3	1st cycle studies
1130-AERO0-ISA-5003	Aircraft Engine Design 1	5th winter semester	3	1st cycle studies
1130-AERO0-ISA-5004	Chemistry of combustion	5th winter semester	3	1st cycle studies
1130-POWER-ISA-5005	Chemistry of Water	5th winter semester	2	1st cycle studies
1130-POWER-ISA-5008	Energy sources and conversion	5th winter semester	2	1st cycle studies
1130-POWER-ISA-5009	Energy systems	5th winter semester	3	1st cycle studies
1130-POWER-ISA-5010	Fundamentals of Operation and Maintenance	5th winter semester	5	1st cycle studies
1130-POWER-ISA-5011	Internal Combustion Engines	5th winter semester	2	1st cycle studies
1130-AERO0-ISA-5012	Machine design 3	5th winter semester	3	1st cycle studies
1130-AERO0-ISA-5014	Mechanics of Flight 2	5th winter semester	3	1st cycle studies
1130-AERO0-ISA-5015	Risk and reliability in aviation	5th winter semester	3	1st cycle studies
1130-POWER-ISA-5016	Rotodynamic Pumps and Pumping Systems	5th winter semester	2	1st cycle studies
1130-AERO0-ISA-5017	Rotorcraft Aeromechanics	5th winter semester	5	1st cycle studies
1130-AERO0-ISA-5018	Spacecraft Design	5th winter semester	1	1st cycle studies
1130-AERO0-ISA-7006	Finite Element Method 2	7th winter semester	2	1st cycle studies
1130-POWER-ISA-7007	Gas Turbines and Gas-Steam Systems	7th winter semester	3	1st cycle studies
1130-AERO0-ISA-7010	Simulators	7th winter semester	2	1st cycle studies
Course code	Course name	Semester	ECTS	Studies
1130-AERO0-MSA-2001	Advanced Aero Engines Laboratory	2nd winter semester	2	2nd cycle studies
1130-AERO0-ISA-7003	Computational Fluid Dynamics	2nd winter semester	3	2nd cycle studies
1130-POWER-MSA-2010	Future Power Technologies	2nd winter semester	2	2nd cycle studies
1130-PONPE-MSA-2013	Nuclear Fuels and Fuel Cycles	2nd winter semester	2	2nd cycle studies
1130-POW00-MSA-2019	Statistical and Nonequilibrium Thermodynamics	2nd winter semester	2	2nd cycle studies
1130-AERO0-MSA-2020	Structural Analysis of Aero Engines	2nd winter semester	4	2nd cycle studies
1130-POWER-MSA-2003	Advanced Renewable Energy Sources	2nd winter semester	3	2nd cycle studies

Summer semester courses.

Course code	Course name	Semester	ECTS	Studies
1130-00000-ISA-2002	Computer Science 2	2nd summer semester	2	1st cycle studies
1130-00000-ISA-2004	Electric Circuits 1	2nd summer semester	3	1st cycle studies
1130-00000-ISA-2006	Mechanics 2	2nd summer semester	5	1st cycle studies
1130-00000-ISA-2007	Mechanics of structures 1	2nd summer semester	4	1st cycle studies
1130-00000-ISA-2008	Thermodynamics 1	2nd summer semester	5	1st cycle studies
1130-AERO0-ISA-4001	Aerodynamics 1	4th summer semester	2	1st cycle studies
1130-AERO0-ISA-4002	Astronautics	4th summer semester	4	1st cycle studies
1130-POWER-ISA-4003	Combustion and Fuels	4th summer semester	3	1st cycle studies
1130-POWER-ISA-4004	Electric Machines 1	4th summer semester	3	1st cycle studies
1130-POWER-ISA-4005	Electric Power Systems	4th summer semester	5	1st cycle studies
1130-00000-ISA-4006	Electronics 1	4th summer semester	2	1st cycle studies
1130-POWER-ISA-4009	Fluid mechanics 3	4th summer semester	2	1st cycle studies
1130-AERO0-ISA-4012	Integrated CAD/CAM/CAE Systems	4th summer semester	2	1st cycle studies
1130-POWER-ISA-401	Theory of flow machines	4th summer semester	3	1st cycle studies
1130-00000-ISA-4014	Machine design 2	4th summer semester	3	1st cycle studies
1130-POWER-ISA-4016	Measurements and technique of experiment	4th summer semester	2	1st cycle studies
1130-AERO0-ISA-4017	Mechanics of Flight 1	4th summer semester	4	1st cycle studies
1130-AERO0-ISA-4018	Propulsion systems 1	4th summer semester	5	1st cycle studies
1130-POWER-MSA-2003	Advanced Renewable Energy Sources	6th summer semester	3	1st cycle studies
1130-AERO0-ISA-6004	Aircraft Maintenance	6th summer semester	2	1st cycle studies
1130-AERO0-ISA-6003	Aircraft Engine Design 2	6th summer semester	2	1st cycle studies
1130-POWER-ISA-6005	Control of Heat Processes	6th summer semester	2	1st cycle studies
1130-POWER-ISA-6006	Energy Management	6th summer semester	2	1st cycle studies
1130-AERO0-ISA-6007	Finite Element Method 1	6th summer semester	4	1st cycle studies
1130-POWER-ISA-6008	Heat Pumps	6th summer semester	2	1st cycle studies
1130-POWER-ISA-6012	RES - Solar Engineering 1	6th summer semester	2	1st cycle studies
1130-AERO0-ISA-6014	Structure and Assembling of Airframe	6th summer semester	2	1st cycle studies

1130-POWER-ISA-6015	Technologies of Environmental Protection	6th summer semester	2	1st cycle studies
1130-POWER-ISA-6016	Thermal Power Stations	6th summer semester	2	1st cycle studies
<b>Course code</b>	<b>Course name</b>	<b>Semester</b>	<b>ECTS</b>	<b>Studies</b>
1130-AERO0-MSA-1001	Advanced Computational Fluid Dynamics	1st summer semester	3	2nd cycle studies
1130-POWER-MSA-1003	Algorithms and Program of Heat Balances	1st summer semester	2	2nd cycle studies
1130-AERO0-ISA-7003	Computational Fluid Dynamics	1st summer semester	3	2nd cycle studies
1130-AERO0-MSA-1006	Control in Aerospace	1st summer semester	2	2nd cycle studies
1130-AERO0-MSA-1016	Mechanics of Thin-Walled Structures	1st summer semester	3	2nd cycle studies
1130-AERO0-MSA-1020	Space Technologies	1st summer semester	2	2nd cycle studies
1130-AERO0-ISA-6007	Finite Element Method I	1st summer semester	4	2nd cycle studies
1130-PONPE-MSA-3001	GenIV Nuclear Reactor Systems (HTR, FBR)	3rd summer semester	2	2nd cycle studies
130-PONPE-MSA-3002	Hazard Analysis in Nuclear Power Plants	3rd summer semester	2	2nd cycle studies
1130-PONPE-MSA-3004	NPP Operation and Maintenance	3rd summer semester	2	2nd cycle studies
1130-PONPE-MSA-3005	NPP Safety	3rd summer semester	3	2nd cycle studies