

Degree

AERONAUTICAL ENGINEERING



Atlântica University Institution

Career Prospects:

1. Design and manufacture and aircraft operations
2. Maintenance of aeronautics
3. Management of the systems related to aircraft and their operations
4. Research and development in aeronautics area
5. Aeronautic industry
6. Environmental management and control services
7. Consulting laboratories for research and development

The high scientific and pedagogic quality of the teaching staff with solid knowledge in the engineering material areas, mechanics and aeronautics promotes a solid learning in this area of knowledge and the ability to solve problems in the many aspects of aeronautical engineering using new materials new technologies in innovative and primary products in the aerospace industry, creating future professionals that will prove technical and professional leadership, versatility and the ability to work in multidisciplinary teams.

The curricular structure was created considering the European and international context in order to ensure educational quality corresponding to what is being practiced in the best national and international universities.

This Degree was created in order to adapt the professional innovative areas that the county lacks and that are in accelerated development, such as education in new materials and new technologies, that are introduced in this course along with the basic knowledge needed in the aeronautics area, an extremely important area to respond to the industrial development needs of the Portuguese society.

1st Year

1st Semester CURRICULAR UNIT	WORKING HOURS		ECTS
	Total	Contact	
Calculus I	168	TP:45; OT:15	6
Technical Drawing and Geometric Modeling	168	TP:60	6
Applied Programming	168	TP:45	6
Linear Algebra	168	T:30;P:30	6
Introduction to Aeronautical Engineering	168	T:20;PL:20;OT:20	6
2nd Semester CURRICULAR UNIT	WORKING HOURS		ECTS
Total	Contact		
Calculus II	168	TP:45; OT:15	6
Mecanics and Waves	168	T:30; PL:30	6
General Chemistry	168	T:24; P:24; PL:12	6
Material Science and Technology	168	T:30; PL:30	6
Probability and Statistics for Engineering	168	T:30; PL:30	6

2nd Year

1st Semester CURRICULAR UNIT	WORKING HOURS		ECTS
	Total	Contact	
Calculus III	168	TP:45; OT:15	6
Applied Mechanics	168	T:30; PL:30	6
Electromagnetism and Optics	168	T:30; PL:30	6
Electronics Circuits Analysis	168	T:30; PL:30	6
Metallic Materials for Aerospace	168	TP:60	6
2nd Semester CURRICULAR UNIT	WORKING HOURS		ECTS
Total	Contact		
Mechanics of Materials	168	T:40; P:10; OT:15	6
Electromechanics and Avionics	168	T:30; PL:30	6
Thermodynamics and Transport Phenomena	168	T:30; PL:15	6
IFluid Mechanics	168	T:30; PL:30	6
Aircraft Performance	168	T:30; PL:30	6

3rd Year

1st Semester CURRICULAR UNIT	WORKING HOURS		ECTS
	Total	Contact	
MAerodynamics	168	T:30; PL:30	6
Aeronautical Structures	168	T:30; PL:30	6
Computational Modeling of Materials	168	TP:60	6
Aircraft Propulsion	168	T:30; PL:30	6
Production Process	168	TP:40; PL:20	6
2nd Semester CURRICULAR UNIT	WORKING HOURS		ECTS
Total	Contact		
Strategic and Operational Management	168	TP:60	6
Flight Operations Support	168	T:30; PL:30	6
CComposite Materials	168	T:40; P:20	6
Aeronautical Design	168	T:20; OT:40	6