

Degree

MECHANICAL ENGINEERING



ATLÂNTICA
INSTITUTO UNIVERSITÁRIO

Atlântica University Institution

Graduates in mechanical engineering have great ease in integrating into the labor market, as employers continue to seek in this higher education the good qualities systematically demonstrated over time by their professionals. The labor market is extremely diverse and deserves to be highlighted: the design offices, the manufacturing industries of mechanical and thermal equipment, energy production and air conditioning companies, maintenance and operations management activities, project evaluation and consulting tasks in service companies, technical-commercial and industrial development activities.

The high degree of scientific and pedagogical quality of the Atlântica University Institute, with solid knowledge in the areas of mechanical engineering, materials and aeronautics, and complemented by the areas of management and information technologies, will promote a solid learning in this area of knowledge.

Career Prospects:

1. Design offices and in project evaluation tasks and consultancy in service companies
2. Mechanical, transport and thermal equipment manufacturing industries; energy production and air conditioning companies
3. Maintenance activities in all industrial activities
4. Operations and logistics management; technical-commercial activities

This training will contribute to a problem-solving aptitude in its various engineering strands using new materials, new technologies in innovative products, and creating future professionals who will demonstrate technical and professional leadership, versatility and ability to work in multidisciplinary teams.

1st Year

1st Semester CURRICULAR UNIT	WORKING HOURS		ECTS
	Total	Contact	
Linear Algebra	168	T:30; TP:30	6
Calculus I	168	T:30; TP:30	6
Applied Programming	168	T:24; TP:30; PL:15	6
General Chemistry	168	T:24; TP:24; PL:12	6
Introduction to Mechanical Engineering	168	T:30; TP:10; PL:10; OT:10	6
2nd Semester CURRICULAR UNIT	WORKING HOURS		ECTS
Total	Contact		
Technical Drawing and Geometric Modelling	168	TP:60	6
Mecanics and Waves	168	T:30; TP:20; PL:10	6
Calculus II	168	T:30; TP:30	6
Probability and Statistics	168	T:30; TP:30	6
Materials Science and Technology	168	T:30; TP:30	6

2nd Year

1st Semester CURRICULAR UNIT	WORKING HOURS		ECTS
	Total	Contact	
Applied Mechanics	168	T:30; TP:30	6
Electromagnetism and Optics	168	T:30; TP:30	6
IMaterial Selection in Engineering	168	T:30; TP:30; PL:10	6
AIustrial Automation	168	T:40; TP:20	6
Calculus III	168	T:30; TP:30	6
2nd Semester CURRICULAR UNIT	WORKING HOURS		ECTS
Total	Contact		
Thermodynamics and Transfer Phenomena	168	T:30; TP:30	6
Vibrations	168	T:30; TP:30	6
Mechanics of Materials	168	T:30; TP:20; PL:10	6
IFluid Mechanics	168	T:30; TP:30	6
Electronic Circuits	168	T:30; TP:30	6

3rd Year

1st Semester CURRICULAR UNIT	WORKING HOURS		ECTS
	Total	Contact	
Machine Elements	168	T:30; TP:30	6
Manufacturing Processes	168	T:30; TP:30	6
Reliability and Maintenance	168	T:30; TP:30	6
Heat Transfer	168	T:30; TP:30	6
Solid Mechanics	168	T:30; TP:30	6
2nd Semester CURRICULAR UNIT	WORKING HOURS		ECTS
Total	Contact		
Production Management	168	T:30; TP:30	6
Composite Materials	168	T:30; TP:30	6
Computational Mechanics	168	T:30; TP:30	6
Final Project	168	T:10; OT:40; S:10	6