



PhD

**STRUCTURAL
MATERIALS
ENGINEERING**



ATLÂNTICA
INSTITUTO UNIVERSITÁRIO

**Atlântica
University
Institution**

The PhD in Structural Materials Engineering aims to provide, through a scientific and practical research approach, a solid, advanced and updated training in order to create highly qualified researchers in the area and able to solve problems related to the practical applications of materials engineering in industry, or to pursue a research career in this scientific field.

It is intended that students gain skills and a degree of specialization so that they can continue to develop and apply, in an autonomous way, the acquired knowledge, becoming an important asset in academic or business/industrial institutions where they will develop their activity.

The study cycle also seeks to attract students from other courses taught at other Universities, and professionals in the fields of Aeronautics, Automobiles, Construction, etc. who wish to invest in this area of specialization and progress in their careers.

1st Year

1st Semester CURRICULAR UNIT	WORKING HOURS		ECTS
	Total	Contact	
Research Methods in Structural Materials Engineering	336	T:30;PL:30;OT:60	12
Spectroscopic Characterization of Materials	168	T:20;PL:40	6
Mechanical Characterization of Materials	168	T:20;PL:40	6
Computational Modulation of Materials	168	T:20;PL:40	6

2nd Semester CURRICULAR UNIT	WORKING HOURS		ECTS	OBS
	Total	Contact		
Advanced Methods of Production and Recycling of Composites	168	T:20;PL:40	6	Opt*
Mechanics of Composite Materials	168	T:20;PL:40	6	Opt*
Evaluation and Selection of Technologies	168	T:20;PL:40	6	Opt*
Product Development	168	T:20;PL:40	6	Opt*
Advanced Biomaterials	168	T:20;PL:40	6	Opt*
Innovation and Production Management	168	TP:60	6	Opt*
Thesis Proposal	504	OT:30;S:10	18	Opt*

*Choose two

2nd Year

1st Semester CURRICULAR UNIT	WORKING HOURS		ECTS
	Total	Contact	
Thesis in Structural Materials Engineering	1680	OT:60;S:20	60

3rd Year

1st Semester CURRICULAR UNIT	WORKING HOURS		ECTS
	Total	Contact	
Thesis in Structural Materials Engineerings	1680	OT:60;S:20	60