



PhD

STRUCTURAL INTEGRITY OF AIRCRAFT



ATLÂNTICA
INSTITUTO UNIVERSITÁRIO

**Atlântica
University
Institution**

The PhD in Structural Integrity of Aircraft aims to respond to the needs of the current job market in the area of aeronautical engineering and aims to train professionals with advanced skills and knowledge in engineering, mechanics, materials and aeronautics, essential to the exercise of aeronautical maintenance activities, an industry in expansion in Portugal.

It is intended that students gain skills and a degree of specialization in aeronautics to continue to develop and apply, autonomously, the acquired knowledge, becoming an important asset in the academic or industrial institutions where they will develop their activity. It aims to train, through research, professionals who demonstrate technical and professional leadership skills and the necessary adaptability in a constantly changing society.

The study cycle also seeks to attract students from other backgrounds, and professionals in the fields of engs. mechanics, materials and aeronautics who wish to invest in a specialization in aeronautical engineering and progress in their careers.

1st Year

| 1st Semester CURRICULAR UNIT | WORKING HOURS | | ECTS |
|--|---------------|-----------------------|------|
| | Total | Contact | |
| Mechanics of Fracture and Structural Integrity | 168 | T:20;PL:40 | 12 |
| Flight Data Monitoring | 168 | T:30;TP:20;PL:10 | 6 |
| Mechanisms of Damage in Composite Materials | 168 | T:30;PL:30 | 6 |
| Research Methods in Integrity Aircraft Structure | 168 | T:20;PL:30;OT:40;S:30 | 6 |

| 2nd Semester CURRICULAR UNIT | WORKING HOURS | | ECTS | OBS |
|--|---------------|------------|------|-----|
| | Total | Contact | | |
| Reliability, Maintainability and Risk in Aeronautical Activity | 168 | T:20;PL:40 | 6 | Opt |
| Monitoring the Structural Integrity of Aircraft | 168 | T:20;PL:40 | 6 | Opt |
| Advanced Methods of Production and Recycling of Composites | 168 | T:20;PL:40 | 6 | Opt |
| Innovation and Production Management | 168 | TP:60 | 6 | Opt |
| Proposed thesis | 504 | OT:30;S:10 | 18 | Req |

*Choose two

2nd Year

| 1st Semester CURRICULAR UNIT | WORKING HOURS | | ECTS |
|--|---------------|------------|------|
| | Total | Contact | |
| Thesis on Structural Integrity of Aircraft | 1680 | OT:60;S:20 | 60 |

3rd Year

| 1st Semester CURRICULAR UNIT | WORKING HOURS | | ECTS |
|--|---------------|------------|------|
| | Total | Contact | |
| Thesis on Structural Integrity of Aircraft | 1680 | OT:60;S:20 | 60 |