GRADUATE PROFILE:

The graduate profile is configured with the programme outcomes achieved by the graduates, which start with the knowledge and understanding of the engineering fundamentals, specifically those of aerospace engineering. It also includes the knowledge and understanding of the specific topics of the selected minor, Aerospace Vehicles or Aerospace Propulsion, each of them granting the authorization for the regulated profession of aerospace engineer (Ingeniero Técnico Aeronáutico).

Graduates should be able to solve engineering problems with a process of analysis and synthesis, showing initiative, decision-making skills, creativity and critical reasoning of the possible solutions. Also, they should be able to realize engineering designs in the areas of aerospace vehicles, propulsion systems, navigation and air traffic control, airports, and aerospace materials and equipment; meeting defined and specified requirements and working in multidisciplinary teams with engineers and non-engineers.

Graduates should also be able to pursue investigations of technical issues, consistently with their level of knowledge and understanding. This implies literature searches, design and execution of experiments, interpretation of data, ability to draw conclusions and computer simulations.

Finally, graduates should be able to apply their knowledge and understanding to solve practical problems and to design devices, systems, processes or procedures in the area of aerospace engineering, considering the implications in cost, quality, safety, efficiency and environmental impact.

It should be noted that the present degree also provides the generic abilities that graduates require for the professional practice of engineering in the society: writing and communication skills to specialized or non-specialized public, working in multidisciplinary and/or international teams, continuous learning, etc.