GENI

TÉCNICO LISBOA

General ENgineering @IST

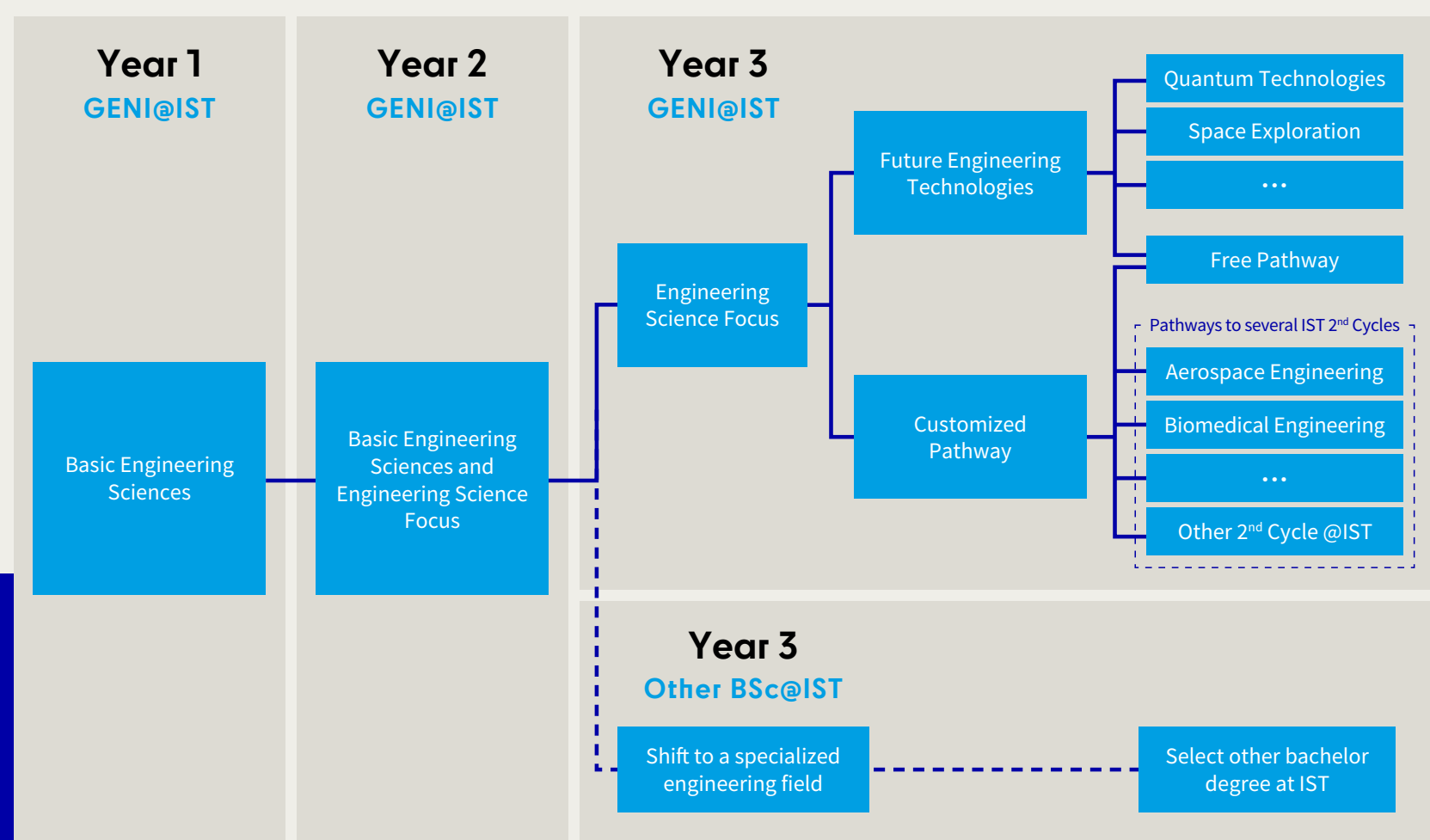## A flexible Engineering curriculum for nurturing the leaders and innovators of tomorrow

The **General Engineering (GENI) degree** was designed to provide a broad foundation in engineering, science, humanities, and social sciences, preparing students for diverse career paths or further studies in master's programs at Técnico and beyond. Unlike traditional first-cycle programs focusing on early specialisation, GENI allows students to explore engineering fundamentals before tailoring their studies to their interests.

Curriculum

The curriculum was designed to function as a learning experience, with student-centered activities that stimulate and progressively provide students with the skills that will enable them to succeed as future engineering leaders.

The curriculum comprises six categories of curricular units (3 years, 180 ECTS). The first three categories—A. Basic Sciences (60 ECTS), B. Computational Thinking (18 ECTS), and C. HASS (12 ECTS)—encompass mainly mandatory units that are the foundations for the learning of Engineering subjects.

Year 1
GENI@IST

Year 2
GENI@IST

Year 3
GENI@IST

Basic Engineering Sciences

Basic Engineering Sciences and Engineering Science Focus

Engineering Science Focus

Future Engineering Technologies

Customized Pathway

Quantum Technologies

Space Exploration

...

Free Pathway

Pathways to several IST 2nd Cycles

Aerospace Engineering

Biomedical Engineering

...

Other 2nd Cycle @IST

Year 3
Other BSc@IST

Shift to a specialized engineering field

Select other bachelor degree at IST