The master's degree in Enabling Technologies for the Food and Bioprocessing Industry equips students with the knowledge and technological skills they will need for employment in the food and bioprocessing sector. The curriculum is designed to match the major lines of inquiry in the European strategy on Key Enabling Technologies (KET), which targets intelligent, sustainable and integrated growth.

**GENERAL DETAILS**

**Duration and start date**
One academic year, 60 ECTS credits. Starting September

**Timetable and delivery**
Afternoons. Face-to-face

**Fees and grants**
Approximate fees for the master’s degree, excluding degree certificate fee, €3,267 (€4,900 for non-EU residents).
More information about fees and payment options
More information about grants and loans

**Language of instruction**
Spanish

**Location**
College of Agriculture Barcelona (ESAB)

**Official degree**
Recorded in the Ministry of Education's degree register

**ADMISSION**

**General requirements**
Academic requirements for admission to master's degrees

**Places**
20

**Pre-enrolment**
Pre-enrolment closed (consult the new pre-enrolment periods in the academic calendar).
How to pre-enrol

**Enrolment**
How to enrol

**Legalisation of foreign documents**
All documents issued in non-EU countries must be legalised and bear the corresponding apostille.
DOUBLE-DEGREE AGREEMENTS

Double-degree pathways with foreign universities

- Master's degree in Ket4food + Bio + one of the following master's degrees from Cranfield University
  - Master in Food Chain Systems
  - Master in Future Food Sustainability
  - Master in Applied Bioinformatics

ORGANISATION

UPC school
  Barcelona School of Agricultural Engineering (ESAB)

Academic coordinator
  Mercè Raventós

Academic calendar
  General academic calendar for bachelor's, master's and doctoral degrees courses

Academic regulations
  Academic regulations for master's degree courses at the UPC

CURRICULUM

<table>
<thead>
<tr>
<th>Subjects</th>
<th>ECTS credits</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applied Photonics</td>
<td>5</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Case Studies</td>
<td>5</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Communication Systems and Production Management</td>
<td>5</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Control and Automatisation Systems</td>
<td>5</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Food and Bioprocess Engineering: Background and Specificities</td>
<td>5</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Sensors and Data Acquisition</td>
<td>5</td>
<td>Compulsory</td>
</tr>
<tr>
<td><strong>SECOND SEMESTER</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measuring Systems and Instruments</td>
<td>5</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Technical Innovations in Agrifood and Biotechnological Processes</td>
<td>5</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Master's Thesis</td>
<td>20</td>
<td>Project</td>
</tr>
</tbody>
</table>

January 2019. **UPC. Universitat Politècnica de Catalunya · BarcelonaTech**