Summary

- History
- IST Campuses
- Mission
- Internal Organisation
- Education
- Facts and Figures
- Research & Development
- Links with Society
- Internationalisation
The **INSTITUTO SUPERIOR TÉCNICO** was established with the objective of providing the country with Engineers with know-how and the necessary skills to succeed in their professional lives, while simultaneously contributing to the economic development of the country.

Alfredo Bensaúde
First Director of IST, 1911
The IST Campuses

<table>
<thead>
<tr>
<th>Alameda Campus</th>
<th>Taguspark Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>84 338 m²</td>
<td>116 000 m²</td>
</tr>
<tr>
<td>9 941 m²</td>
<td>1 526 m²</td>
</tr>
<tr>
<td>4 050 m²</td>
<td>1 346 m²</td>
</tr>
<tr>
<td>24 475 m²</td>
<td>1 315 m²</td>
</tr>
<tr>
<td>24 360 m²</td>
<td>2 467 m²</td>
</tr>
<tr>
<td>Campus Total Area</td>
<td>Study Rooms and Libraries</td>
</tr>
<tr>
<td>Classrooms and Lecture Halls</td>
<td></td>
</tr>
<tr>
<td>Study Rooms and Libraries</td>
<td></td>
</tr>
<tr>
<td>Labs, Workshops and Computer Rooms</td>
<td></td>
</tr>
<tr>
<td>Offices, Secretariats, Services and Meeting Rooms</td>
<td></td>
</tr>
</tbody>
</table>

Mission

The MISSION OF IST is to contribute to the development of society by providing quality higher education in the areas of Engineering, Science and Technology, at undergraduate and postgraduate levels as well as life-long learning, and by carrying out Research and Development activities in accordance with the highest international standards.
Internal Organisation

Organogram

Assembly of Representatives

Pedagogic Council

Scientific Council

Executive Council

Administrative Council

Advisory Council

President of IST

---

Internal Organisation

**Academic Units**

- Civil Engineering and Architecture
- Mechanical Engineering
- Electrical and Computer Engineering
- Chemical Engineering
- Mining Engineering and Earth Resources
- Materials Engineering
- Physics
- Mathematics
- Information Systems Engineering
- Engineering and Management

---

**Autonomous Section**

- Naval Architecture and Marine Engineering
Education

Undergraduate Programmes

Alameda Campus

- Aerospace Engineering
- Applied Mathematics and Computation
- Architecture
- Biological Engineering
- Biomedical Engineering
- Civil Engineering
- Chemical Engineering
- Chemistry
- Electrical and Computer Engineering
- Environmental Engineering
- Information Systems and Computer Engineering
- Materials Engineering

Taguspark Campus

- Mechanical Engineering
- Mining and Geological Engineering
- Naval Architecture and Marine Engineering
- Physics Engineering
- Territorial Engineering

Electronics Engineering
- Industrial Engineering and Management
- Information Systems and Computer Engineering
- Information and Communication Networks Engineering

Barcelona, 25th February 2005
Education

Master's (MSc) Programmes

- Aerospace Engineering
- Biotechnology (Biochemical Engineering)
- Chemical Engineering (Applied Chemistry)
- Construction
- Earth Resources
- Ecology, Management and Modelling of Marine Resources (inter-institutional)
- Electrical and Computer Engineering
- Design Engineering
- Engineering Policy and Management of Technology
- Geographical Information Systems
- Geotechnics for Civil Engineering
- Hydraulics and Water Resources
- Information Systems and Computer Engineering
- Logistics (inter-institutional)
- Materials Engineering (inter-institutional)
- Materials Science and Engineering
- Mathematics and Applications
- Mechanical Engineering
- Naval Architecture and Marine Engineering
- Operational Research and Systems Engineering
- Physics Engineering
- Physics
- Rehabilitation and Conservation of the Built Heritage
- Safety and Health in the Workplace
- Statistics
- Strategic Management and Development of Tourism
- Structural Engineering
- Surface Science and Engineering (inter-institutional)
- Technological Innovation and Industrial Management
- Transportation
- Urban Studies and Territorial Management
Education

Doctoral (PhD) Programmes

- Aerospace Engineering
- Biotechnology
- Chemical Engineering
- Chemistry
- Civil Engineering
- Electrical and Computer Engineering
- Engineering Sciences
- Environment
- Industrial Engineering and Management
- Information Systems and Computer Engineering
- Materials Engineering
- Mathematics
- Mechanical Engineering
- Mining Engineering and Earth Resources
- Naval Architecture and Marine Engineering
- Physics Engineering
- Physics
- Systems Engineering
- Technological Physics Engineering
- Territorial Engineering
- Transportation
- Urban and Regional Planning

Barcelona, 25th February 2005
**Education**

**IST Position on the Bologna Process**

<table>
<thead>
<tr>
<th>Cycle</th>
<th>Duration</th>
<th>Degree</th>
<th>Obs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>3 years</td>
<td>Bachelor in Engineering Sciences</td>
<td>Scientific-based teaching oriented towards conceptual engineering</td>
</tr>
<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>2 years</td>
<td>Master (Engineering Diploma)</td>
<td></td>
</tr>
<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>3 years</td>
<td>Ph. D.</td>
<td></td>
</tr>
</tbody>
</table>

**Specialisation**

- Specialisation courses of specific scope to complement 1<sup>st</sup> and 2<sup>nd</sup> cycle training

**Mobility**

- "Bridging Programmes" for vocational 1<sup>st</sup> and 2<sup>nd</sup> cycle students to carry on scientifically oriented programmes

---

**Facts and Figures**

**Students & Staff**

- Undergraduate Students: 8,680
- Master’s Students: 1,089
- Doctorate Students: 596
- Total Students: 10,365
- Professors: 774
- Non-teaching staff: 565

Barcelona, 25<sup>th</sup> February 2005
Barcelona, 25th February 2005

Facts and Figures

Percentage of Vacancies

<table>
<thead>
<tr>
<th>Institution</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST</td>
<td>21%</td>
</tr>
<tr>
<td>U. Porto</td>
<td>15%</td>
</tr>
<tr>
<td>UNL</td>
<td>13%</td>
</tr>
<tr>
<td>U. Coimbra</td>
<td>10%</td>
</tr>
<tr>
<td>U. Minho</td>
<td>10%</td>
</tr>
<tr>
<td>U. Aveiro</td>
<td>9%</td>
</tr>
<tr>
<td>UBI</td>
<td>4%</td>
</tr>
<tr>
<td>U. Lisboa</td>
<td>4%</td>
</tr>
<tr>
<td>UTAD</td>
<td>3%</td>
</tr>
<tr>
<td>U. Évora</td>
<td>3%</td>
</tr>
<tr>
<td>ISCTE</td>
<td>2%</td>
</tr>
<tr>
<td>FA - UTL</td>
<td>2%</td>
</tr>
<tr>
<td>U. Algave</td>
<td>2%</td>
</tr>
<tr>
<td>U. Madera</td>
<td>2%</td>
</tr>
<tr>
<td>U. Açores</td>
<td>1%</td>
</tr>
</tbody>
</table>

Destination of the 100 Best Students in S&T

- U. Porto (24%)
- IST (53%)
- U. Aveiro (6%)
- U. Lisboa (2%)
- U. Coimbra (7%)
- U. Minho (8%)

Survival Rate (OECD)

- Portugal: 71%
- IST: 71%
- U. Aveiro: 64%
- U. Porto: 60%
- U. Lisboa: 58%
- U. Algarve: 58%
- U. Coimbra: 56%
- U. Minho: 54%
- ISCTE: 54%
- UTAD: 54%
- U. Madeira: 52%
- UNL: 52%
- UBI: 52%
- U. Açores: 52%
- U. Évora: 52%

Source: National Observatory for Science and Higher Education (Ministry for Science, Innovation and Higher Education)
Facts and Figures

Number of Diplomas from IST per Year

<table>
<thead>
<tr>
<th>Year</th>
<th>PhD+ Aggregation</th>
<th>MSc</th>
<th>Graduation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999/00</td>
<td>25</td>
<td>883</td>
<td>25</td>
</tr>
<tr>
<td>2000/01</td>
<td>143</td>
<td>827</td>
<td>143</td>
</tr>
<tr>
<td>2001/02</td>
<td>112</td>
<td>885</td>
<td>112</td>
</tr>
<tr>
<td>2002/03</td>
<td>122</td>
<td>966</td>
<td>122</td>
</tr>
<tr>
<td>2003/04</td>
<td>145</td>
<td>924</td>
<td>145</td>
</tr>
</tbody>
</table>

Barcelona, 25th February 2005

Facts and Figures

Sources of Financing

<table>
<thead>
<tr>
<th>Source</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Budget</td>
<td>52%</td>
</tr>
<tr>
<td>Balances</td>
<td>13%</td>
</tr>
<tr>
<td>Science and Technology Foundation</td>
<td>9%</td>
</tr>
<tr>
<td>Provision of services</td>
<td>8%</td>
</tr>
<tr>
<td>Tuition fees and other income</td>
<td>8%</td>
</tr>
<tr>
<td>European Union</td>
<td>7%</td>
</tr>
<tr>
<td>Others</td>
<td>4%</td>
</tr>
</tbody>
</table>

Barcelona, 25th February 2005
Research & Development

Distribution of PhD Holders According to the Rate of their Research Units

- Excellent: 44%
- Very Good: 48%
- Good: 5%
- Fair: 3%

78% of the research units rated excellent or very good

Barcelona, 25th February 2005

Research & Development

R&D Units Rated as Excellent

- **Mathematics**
  - Centre for Mathematical Analysis, Geometry and Dynamical Systems

- **Physics**
  - Centre for Physics of Fundamental Interactions (CFIF)
  - Centre for Plasma Physics (CFP)
  - Centre for Nuclear Fusion (CFN)

- **Chemistry**
  - Centre for Structural Chemistry (CQE)
  - Center for Molecular Chemical Physics (CQFM)

- **Chemical Engineering and Biotechnology**
  - Institute for Biotechnology and Fine Chemistry

- **Electrical and Computer Engineering**
  - Institute for Systems and Robotics (ISR)
  - Institute for Telecommunications (IT)

- **Mechanical Engineering**
  - Center for Innovation, Technology and Policy Research (IN+)
Research & Development

R&D Units Rated as Very Good

Mathematics
- Centre for Logic and Computation
- Centre for Mathematics and Applications

Physics
- Multidisciplinary Centre for Astrophysics (CENTRA)

Materials Sciences and Engineering
- Institute for Science and Engineering of Materials and Surfaces (ICEMS)

Information and Computer Engineering
- Institute for Systems and Computer Engineering (INESC-ID) – Lisboa

Mechanical Engineering
- Institute for Mechanical Engineering (IDMEC) – Lisboa

Naval Architecture and Marine Engineering
- Unit for Naval Engineering and Technology (UETN)

Earth and Space Sciences
- Centre for Petrology and Geochemistry (CEPGIST)
- Centre for Geotechnics (CEGEO)
- Centre for Geo-systems (CVRM)

Maritime Sciences
- Centre for Environment and Maritime Technologies (MARETEC)

Civil Engineering
- Centre for Hydro-systems Studies (CEHIDRO)
- Centre for Urban and Regional Centres (CESUR)
- Institute for Structural Engineering, Territory and Construction (ICIST)

Engineering and Management
- Centre for Management Studies (CEG-IST)
Research & Development

Type of R&D Projects

-provision of services:
  - International (23% N=167)
  - National (31% N=221)

R&D Projects (Thousands of Euros)

-provision of services:
  - National (38% N=8600)
  - European Union (29% N=7500)

Links with Society

Interface R&D Institutes

IDMEC Institute for Mechanical Engineering
ISR Institute for Systems and Robotics
IT Institute for Telecommunications
ICTM Institute for Materials Science and Technology
ICTPOL Institute for Polymer Science and Technology
ICEMS Institute for Science and Engineering of Materials and Surfaces
Links with Society

S&T Parks
- TAGUSPARK
- LISPOLIS
- PTM/A

Energy Agencies
- E-NOVA
- OEINERGE

Incubation Centres
- CPIN
- CINTEC

Internationalisation

Mobility / Cooperation (2004/2005)

- Mobility under SOCRATES/ERASMUS PROGRAMME
  - Students Abroad: 132
  - Foreign Students in IST: 124

- Mobility under ATHENS PROGRAMME
  - Students Abroad: 40

- Cooperation Protocols with universities
  - Exchange students/professors: 256

Other Cooperation Programmes

- Portuguese Speaking African Countries: 190 students enrolled at IST; 10 students received and 9 sent abroad
- Latin America & Caribbean
Internationalisation

Collaborations with Cluster Universities

- Imperial College - London
- INPG – Grenoble
- UP C – Barcelona
- TU/e – Eindhoven
- UCL – Louvain
- TU – Darmstadt
- TH – Karlsruhe
- TKK – Helsinki
- KTH – Stockholm
- Pol – Turin
- KTH – Stockholm

Nº of collaborations by type

- Research Projects
- Joint Publications
- Joint Organization of Scientific Events
- Other Collaborations