Summary

- History
- Internal Organisation
- Present
  - Undergraduate Programmes
  - Master (MSc) Programmes
  - Doctoral (PhD) Programmes
- Evaluation and Accreditation Systems
- Future under Bologna Process

Stockholm, June 2005
IST History

**Chronology**

- Creation of IST
- Alameda Campus
- Interdisciplinary Complex
- Creation of Departments
- Interdisciplinary Complex
- North Tower
- Post-Grad. Building
- Science Building
- Taguspark Campus
- South Tower
- Social Action Building

**Edifications**

- N. under. students
- N. underg. courses
- Course duration

**Creation of IST**

- 1911
- 1920
- 1930
- 1940
- 1950
- 1960
- 1970
- 1980
- 1990
- 2000
- 2004

**Campus**

- Interdisciplinary Complex North Tower
- Post-Grad. Building
- Science Building
- Social Action Building

**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 and Computer Engineering
- Engineering and Management

**Departments**

- Autonomous Section

- Naval Architecture and Marine Engineering
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Present

21 Undergraduate Programmes
31 Master (MSc) Programmes
22 Doctoral (PhD) Programmes

21 Undergraduate Programmes

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

7719 Students

Alameda Campus

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

961 Students

Taguspark Campus

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

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Present

Master (MSc) Programmes

- Biotechnology (Biochemical Engineering)
- Chemical Engineering (Applied Chemistry)
- Electrical and Computer Engineering
- Information Systems and Computer Engineering
- Aerospace Engineering
- Naval Architecture and Marine Engineering
- Mechanical Engineering
- Design Engineering
- Hydraulics and Water Resources
- Geotechnics for Civil Engineering
- Structural Engineering
- Construction
- Rehabilitation and Conservation of the Built Heritage
- Urban Studies and Territorial Management
- Transportation
- Geographical Information Systems

- Materials Engineering (inter-institutional)
- Materials Science and Engineering
- Surface Science and Engineering (inter-institutional)
- Earth Resources
- Ecology, Management and Modeling of Marine Resources (inter-institutional)
- Physics Engineering
- Physics
- Mathematics and Applications
- Statistics
- Operational Research and Systems Engineering
- Logistics (inter-institutional)
- Engineering Policy and Management of Technology
- Technological Innovation and Industrial Management
- Strategic Management and Development of Tourism
- Safety and Health in the Workplace

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Present

**Doctoral (PhD) Programmes**

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

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Evaluation and Accreditation Systems

**Evaluation:** Basic Principles of the Model

- **Objective:** Quality Improvement
- **Implementation:** Compulsory (5 year cycles)
- **Evaluation Method:** Internal + External (peers)
- **Work Basis:** Self-Evaluation Report
- **External Experts:** Academics + Professionals
- **Procedures:** Transparent + Public
- **Evaluation Promoter:** Association of Universities

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Evaluation and Accreditation Systems

International Evaluation Experiences

<table>
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<td>EU (European Union)</td>
<td>Testing Evaluation Methodologies</td>
<td>IST (Mechanical Engineering Programme) 17 European Countries 43 HEI's</td>
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<tr>
<td>Total Quality Management at Universities</td>
<td>CESAER / EFQM (European Foundation for Quality Management)</td>
<td>Testing a Model for Excellence in HEI's</td>
<td>2 CESAER Members-IST and RWTH-AACHEN</td>
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Evaluation and Accreditation Systems

Accreditation: Basic Principles of the Model

- Objective: Quality Control
- Implementation: Voluntary
- Accreditation Method: Checking Compliance
- Work Basis: Course Info Folder
- External Experts: Professionals
- Procedures: Transparent + Public
- Accreditation Promoter: Professional Association
Future under Bologna Process (Prospective)

Cycles

- Basic + Secondary Education (12 years)
- Integrated Cycle
- 2nd Cycle
- 1st Cycle
- PhD Degree
- Doctoral Program
- Diploma
- Master Degree
- Doctoral Program
- 2nd Cycle
- Bridging Program
- 1 or 2 semesters
- Vocational oriented 1st cycle programmes

Degree Profile

- Final Project (MSc Thesis)
- Technology and Applications
- Engineering Sciences
- Basic Sciences
- "Soft Skills"

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Future Under Bologna Process (Prospective)

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