<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total students</td>
<td>6004</td>
</tr>
<tr>
<td>PhD in 23 programmes</td>
<td>539</td>
</tr>
<tr>
<td>Teaching staff 100% PhD holders</td>
<td>321</td>
</tr>
<tr>
<td>Non-teaching staff</td>
<td>74</td>
</tr>
<tr>
<td>Centers assessed internationally with the three higher classifications</td>
<td>7 out of 9</td>
</tr>
<tr>
<td>Patent applications per year (average)</td>
<td>16</td>
</tr>
<tr>
<td>Concluded PhDs</td>
<td>82</td>
</tr>
<tr>
<td>WoS/Scopus scientific papers</td>
<td>1791</td>
</tr>
<tr>
<td>R&amp;D projects</td>
<td>316</td>
</tr>
<tr>
<td>Projects’ dotation</td>
<td>68,4 M€</td>
</tr>
<tr>
<td>Ranking</td>
<td>Position/Range</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>THE Ranking Engineering &amp; Technology</td>
<td>301-400</td>
</tr>
<tr>
<td>THE Ranking 100 UNDER 50 2017</td>
<td>101-150 (5 Portuguese HEI)</td>
</tr>
<tr>
<td>SCImago Institutions Rankings</td>
<td>472/5000</td>
</tr>
<tr>
<td>Center for World University Rankings (CWUR)</td>
<td>616/1000</td>
</tr>
<tr>
<td>U-Multirank</td>
<td>9 features with highest classification (A category – Very Good)</td>
</tr>
<tr>
<td>Academic Ranking of World Universities (ARWU)</td>
<td>401-500</td>
</tr>
</tbody>
</table>

**ARWU-FIELD:**
- Top 100 - Biomedical Engineering, Civil Engineering, Food Science and Technology;
- Top 200 - Biotechnology;
- Top 300 - Mechanical Engineering (w/ Production Engineering) and Chemical Engineering;
- Top 400 - Computer Science and Engineering, Materials Science & Engineering.
INTERNATIONAL COOPERATION

- **200** incoming students/year
- **20** international conferences held in Braga/Guimarães per year
- > **10** international MoU/year
- Partner institutions network in around **80** countries, mainly in EU, Asia and PALOP
National leader in Biotechnology and Bioengineering

Industrial and Food Biotechnology and Bioengineering
Environmental Biotechnology and Bioengineering
Health Biotechnology and Bioengineering
Multidisciplinary center focused on research and innovation in the development of smart microsystems and biomedical systems

Microelectromechanical Systems
Computational design, modeling and simulation of medical devices
Nano / Microfabrication of medical devices
Biomaterials / components characterization
Medical instrumentation
Multifunctional and multifunctional component design
Interdisciplinary research and leading-edge knowledge in Information and Communication Technologies, Electronics, Computer Systems and Industrial and Systems Engineering

- Information Systems and Technologies
- Computer Science and Technology
- Computer Communications and Pervasive Media
- Industrial Electronics
- Industrial Engineering and Management
- Systems Engineering and Operational Research
Focus on software design and development for critical systems (trustworthiness of information systems)
1st Portuguese research centre specialized in fibrous materials research

Nano and Multifunctional Materials
Sustainable and Advanced Processes and Technologies
Design and Product Engineering
New knowledge and innovative solutions for the cities of tomorrow: S4cities – sustainable, smart, safe and smiling cities

Ecomaterials
Sustainable Construction
Water Resources and Environment
Transport Systems and Infrastructures
Territorial Planning and Governance
Leading research centre in mechanical systems, energy and environmental technologies and functionalised materials

- Power Conversion
- Waste Valorization
- Advanced Engineering Systems
- Structure and Vehicle Engineering
- Food Technology and Welfare
Fundamental contribution to the advancement of science and technology of polymers and composites, helping Portuguese industry creating added-value products.
Higher quality R&D in promoting innovation and sustainability in the construction sector (structural engineering)

Historical and Masonry Structures
Structural concrete
Steel and Mixed Construction Technologies
• Cover the majority of areas in Engineering

• Offer 1st and 2nd cycle courses, as well as 3rd cycle courses together with the Research Centres

• Support the development of research projects and knowledge transfer projects in co-operation with industry and services
EDUCATIONAL OFFER

- Fashion Design and Marketing
- Biological Engineering
- Biomedical Engineering
- Civil Engineering
- Materials Engineering
- Polymer Engineering
- Telecommunications and Informatics Engineering
- Engineering and Management of Information System
- Industrial Management and Engineering
- Industrial Electronics and Computers Engineering
- Physics Engineering
- Informatics Engineering
- Mechanical Engineering
- Textile Engineering

Computer Science (collaboration ECUM)
Product Design (collaboration EAUM)
EDUCATIONAL OFFER

1st Cycle (180 ECTS)
- Bioinformatics
- Biotechnology
- Sustainable Construction and Rehabilitation
- Fashion Design and Communication
- Design and Marketing of Textile Products, Apparel and Accessories
- Entrepreneurship in Technology and Information Services
- Structural Engineering
- Engineering of Computer Networks and Telematic Services
- Systems Engineering
- Product Engineering
- Engineering and Quality Management
- Human Engineering
- Industrial Engineering
- Mechatronics Engineering
- Urban Engineering
- Environmental Management
- Engineering Project Management
- Sustainable Management of the Urban Water Cycle (UM/UC)
- Informatics
- Micro/Nano Technologies
- Textile Chemistry
- Information Systems
- Technology and Digital Art
- Food Science and Technology
- European Master’s in Structural Analysis of Monuments and Historical Construction
- International Master’s in Sustainable Built Environment

2nd Cycle (120 ECTS)

3rd Cycle (180 or 240 ECTS)

Integrated MSc (300 ECTS)
EDUCATIONAL OFFER

1st Cycle (180 ECTS)
- Marine Biotechnology and Aquaculture (UM/UP)
- Science and Engineering of Polymers and Composites
- Food Science and Technology and Nutrition (UM/UA/UCP)
- Fashion Design (UM/UBI)
- Biomedical Engineering
- Civil Engineering
- Materials Engineering
- Tissue Engineering, Regenerative Medicine and Stem Cells
- Electronics and Computer Engineering
- Industrial and Systems Engineering
- Mechanical Engineering
- Chemical and Biological Engineering
- Textile Engineering
- Solid Waste Management and Treatment
- Informatics
- Advanced Materials and Processing (UNL/UM/UBI/UA/UC/IST-UL/UP)
- Optimization of Industrial Systems and Services (UM/UL)
- Advanced Engineering Systems for Industry (Bosch Car Multimedia Portugal)
- Sustainable Built Environment (international)
- Information Systems and Technology
- Bioengineering (MIT Portugal Programme)
- Leaders for Technical Industries (MIT Portugal Programme)
- Informatics (MAP-i) (CMU Portugal Programme)
- Telecommunications (MAP-tele) (CMU Portugal Programme)
- Infrarisk - Analysis and Mitigation of Risks in Infrastructures (IST-UL/UM/UP/UA/LNEC/ICIST)
- EcoCoRe - Eco-Construction and Rehabilitation (IST-UL/UM/LNEC/UC/UP/UNL/ICIST)
- iRail - Innovation in Railway systems and technologies (UP/UM/USP/I3N/LAETA)
- PATH - Advanced Therapies for Health (ICVS/3B’s / EXPERTISSUES)
- AEM - Applied and Environmental Microbiology (UM/UL/UNL)

2nd Cycle (120 ECTS)
- Integrated MSc (300 ECTS)
- 3rd Cycle (180 or 240 ECTS)
INTERFACES

Applied research and development in the fields of computer graphics, information, communication and electronic technologies, as well as to their application at national and international level.

- Computer Vision, Graphics and Interaction
- Engineering Process, Maturity & Quality for information systems and technologies
- Perception, Interaction & Usability
- Urban and Mobile Computing
Research, scientific analysis and application of real solutions in the area of waste valorisation.

- Waste characterisation
- Gas emissions
- Materials and Geotechnics
- Occupational safety
Fulfil R&DT needs of associates and clients in plastic and mould industry, based on differentiated knowledge in strategic technological domains, assisting in know-how development and turning ideas into products.

- Materials
- Processing technologies
- Product engineering
- Tests and trials
Support to the development of new technologies/products/processes.

Design and implementation of educational and training activities (classroom and e-learning), organizational development and transnational mobility of human resources.

Support to university entrepreneurship and creation of innovative companies, focusing on academic spin-offs.
KNOWLEDGE VALORISATION

33 SPIN-OFFS

• 29% Biotechnology
• 20% Information Systems
• 15% Textile
• 9% Mechanics
• 9% New Materials
• 9% Production and Systems
• 3% Industrial Electronics
• 3% Health
• 3% Education
LINK WITH INDUSTRY

Protocols of Cooperation, Dissertations and Traineeships
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Escola de Engenharia
da Universidade do Minho

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