

# ALL ABOUT ENGINEERING

SUPERIOR INSTITUTE OF ENGINEERING OF PORTO, PORTUGAL







BE CURIOUS,  
AND DISCOVER  
AN OFFER  
OF FUTURE.  
**ISEP.**

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# SUPERIOR INSTITUTE OF **ENGINEERING** PORTO, PORTUGAL

Instituto Superior de Engenharia do Porto (ISEP) is a trademark of engineering education and innovation. Since 1852, we have been pioneering the training and specialization of engineers with a strong creative and entrepreneurial mind-set.

Our academic community combines ambitious and dynamic people, who believe in the potential of innovation and technology to promote a sustainable development. Over 6500 students and 500 staff motivated by the promise that engineering moves the world and create opportunities.

Students benefit from an excellent learning environment, a prestigious faculty and quality infrastructures. By exploring EUR-ACE and CDIO international best practices, we are creating opportunities for students to connect to the real-world and develop academic projects with companies and research groups.

We are located in Asprela, Porto's innovation district and just a 10 minutes subway ride from downtown, and connected to the world through our internationalization strategy. ISEP has more than a 100 international partnerships that allow students to enjoy Erasmus+ mobility, international exchange protocols with South American and Asian higher education institutions, double-degrees with Brazilian and Spanish institutions and is open to international students from across the globe.


MORE THAN

**100** International partnerships

**160** Years of engineering

**500** Staff

**6500** Students



ISEP IS ENGINEERING,  
TECHNOLOGY  
AND INNOVATION.  
**SPARK YOUR CREATIVITY.**

[www.isep.ipp.pt](http://www.isep.ipp.pt)  
[universitystudyineurope.com](http://universitystudyineurope.com)

# PORTUGAL

Portugal is Europe's West Coast. Member of the European Union since 1986, we have a rich history and a long tradition of reaching out to the world. Our finest quality has always resided in the ability to combine dreams with hard work to create new possibilities.

Our strategic positioning enables us to combine influences from Europe, America and Africa to advance solutions that are more comprehensive. From the Age of Discoveries, when the Portuguese connected the globe, to present challenges, such as sustainable development, ingenious thinking is always part of the process.

Furthermore, we are also a sun-kissed country which helps to enjoy life. Portugal ranks in the Very High list from the UN's Human Development Index and is second best in the latest British Council's Migrant Integration Policy Index.

Portugal has always been a meeting point for different cultures.

MORE THAN

**9** Centuries of history

**850** Km of stunning beaches

**3000** Hours of sunshine per year

# A GATEWAY TO **EUROPE.**

Find more about Portugal  
[www.turismodeportugal.pt](http://www.turismodeportugal.pt)





# LIVING IN PORTO

ISEP also means Porto. We are a brand of this modern and entrepreneurial European city, known for its beauty, booming cultural agenda and friendly environment. Porto is the second biggest city in Portugal and north-western Iberia. It was named UNESCO World Heritage in 1996, selected as European Cultural Capital in 2001 and nominated a top world destination in 2012 and the best city to travel in Europe in 2012 and 2014.

The city is famous for its bridges over the Douro River, Port Wine, engineering, science and innovation, creative industries, architecture and history. Above all, the charm of its friendly and open-minded people and the excellent food makes it a special place to visit and to live in. From São João to Casa da Música, students' parties, cinema and theatre festivals, nightlife and even football, there is always something going on. Porto is a smart city, leads urban renewal and holds some of the top Portuguese industries and research centres. It is also the main destination for international students in Portugal.

Studying in Porto means you will be living in Europe's West Coast. Our strategic location and history enables us to combine influences from Europe, America, Africa and Asia. Furthermore, we are also a sun-kissed country where life can be enjoyed. Portugal joined the European Union in 1986, ranks in the Very High list from UN's Human Development Index and holds the second place in the British Council's Migrant Integration Policy Index. We are also one of the safest countries in the World.

YEAR

**1996** UNESCO world heritage

**2001** European cultural capital

**2012** TOP world destination

**2014** European best destination



“ The unique thing about Porto is its surroundings. I imagined Porto to be a great city, but I did not imagine it to be this beautiful. Porto has a lot to offer, for example the wine cellars and the old buildings. ”

**STEVEN PLAT**

NHL University of Applied Sciences

**Netherlands**

**PORTO,**  
INVICTUS CITY

Discover Porto  
[www.visitporto.travel](http://www.visitporto.travel)

# THRIVING FOR ACADEMIC EXCELLENCE

ISEP is part of the European Higher Education Area and designs its programmes according to EUR-ACE and CDIO standards, in order to train the next generation of leaders in engineering.

Our programmes focus on project based-learning, a hands-on approach and the development of team work, entrepreneurship and problem solving skills. Students learn to conceive, design, implement and operate new technologies.

Prospective students can choose from 11 BSc and 11MSc in different fields of engineering. ISEP also teaches 18 post-graduations courses and an European Project Semester (EPS@ISEP).

Our BSc programmes have three years (180 ECTS units) and ensure the development of technical, scientific and cultural skills geared towards professional practice. The MSc are taught in two years (120 ECTS units) and develop specialized knowledge leading to innovation.

Students can opt between daytime and evening classes and are encouraged to develop their final project in corporate or research environment.

The EUR-ACE framework and accreditation system provides a set of standards that identifies high quality engineering degree programmes in Europe and abroad. This system incorporates views and perspectives of students, higher education institutions, employers, professional organisations and accreditation agencies. It is internationally recognised and facilitates both academic and professional mobility.

## **EUR-ACE benefits for students and engineering graduates:**

- > Assurance that the programme meets European and international high standards.
- > Assurance that the programme meets educational requirements for becoming a registered engineer in countries with regulated engineering professions.
- > Assurance that the programme is recognised by employers in Europe.
- > Facilitates application to other EUR-ACE MSc and PhD programmes.
- > Facilitates graduate mobility in Europe.
- > It is the educational standard for the professional card promoted by the European Federation of National Engineering Associations.



# EUR-ACE: EUROPEAN **QUALITY LABEL**

Find more about  
[www.enaee.eu](http://www.enaee.eu)

# INTERNATIONAL FOCUS

Fully aware we live and work in a complex and interdependent world, ISEP promotes an internationalization strategy that gives students and graduates a global view of opportunities.

We endorse the European Higher Education Area, inviting students from around the world to Study in Europe. Through transnational Erasmus+ partnerships or other academic cooperation agreements, students and staff can enjoy a mobility exchange to study, train, gain work experience or volunteer, while strengthening linguistic skills.

Our European Project Semester (EPS@ISEP) sets up the opportunity for students to spend one semester in Porto, developing an engineering project in multicultural and interdisciplinary teams.

Although Portuguese is the fifth most spoken language in the World, the attention provided to international students from across the globe led us to start teaching some courses in English.

This attention to best practices is one of the reasons why we comply with EUR-ACE and CDIO standards. ISEP is also setting up a European project/internship network through PRAXIS and works in several multilateral projects and international programmes like Horizon2020, MIT-Portugal, CMU-Portugal.

As an open institution, we are always pleased to welcome international students, teachers and researchers who wish to be part of our academic community.

**“I was very pleasantly surprised by how many people have really good knowledge of English. So even though I am a foreigner I don't have very big problems interacting with Portuguese people.”**

**REINIS CIMURS**  
Riga Technical University  
Latvia





WE HELP YOU  
**FOCUS** ON WHERE YOU  
WANT TO GO

# RESEARCH & DEVELOPMENT OPPORTUNITIES

We know creativity and innovation are key elements to stand out in a globalised economy and encourage our students to participate, experiment and be part of the exciting world of science and technology.

ISEP invests in research and development to support a more intelligent, inclusive and sustainable growth, in line with Horizon 2020. We believe in an economy of knowledge and creativity and that is why we have ten research groups. They place us among the top scientific institutions nationwide and work within international networks. Together with our five consultancy units, these structures provide students the opportunity to be part of innovation and develop academic projects in research environments.

## Research and Development

BIOMARK – Biomark Sensor Research

CIDEM – Centre for Research and Development in Mechanical Engineering

CIETI – Centre of Innovation in Engineering and Industrial Technology

CISTER – Research Centre in Real-Time & Embedded Computing Systems

GECAD – Knowledge Engineering and Decision Support Research Centre

GICEC – Civil Engineering Research and Consultancy Group

GILT – Games, Interaction and Learning Technologies

GRAQ-REQUIMTE – Chemical Reactions and Analysis Group

INESC-TEC CROB – Robotics and Intelligent Systems Unit, ISEP

LEMA-CMUP – Mathematics Engineering Laboratory

## Consultancy Services

AcademiaCisco.ISEP – CISCO Academy

CEA – Water Studies Centre

LABCARGA – Laboratory of Cartography and Applied Geology

LGMC – Laboratory of Geotechnics and Construction Materials

NEC – Construction Studies Group

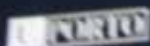
## Fields of expertise

Biosensors; nanotechnology; biomaterials; mechanical engineering; fluids and heat; industrial management; energy; environmental protection; waste; remote labs; automation, control and instrumentation; embedded and real-time systems; wireless sensor networks; computational intelligence; knowledge and learning technologies; construction technology; urban renewal; games and interaction; virtual reality; analytical chemistry; food safety; water and soil remediation; robotics and autonomous systems; industrial mathematics; engineering mathematics; Cisco networks and technologies; water; geoenvironment and natural resources.



# ROBOTICS

INESC PORTO  
LABORATÓRIO ASSOCIADO  
PÓLO DO ISEP



FEUP FACULDADE DE ENGENHARIA  
UNIVERSIDADE DO PORTO



INSTITUTO NACIONAL DE AQUIÇÃO E TECNOLOGIA

inesc

FEUP FACULDADE DE ENGENHARIA  
UNIVERSIDADE DO PORTO

## ACADEMIC LIFE

Innovation, technology, creativity and human relations are the soul of our campus life. Our biggest honour is the true spirit of community lodged in our campus. From the library to counselling support, from the gym to the cafeterias, from the international office to online services and e-learning support, we are always investing in solutions that improve the quality of life of students and staff.

While the International Office promotes students' integration, the Student Counselling Service (ISEP|GO) helps with the well-being and development of soft skills. The Students Union (aelSEP) plays a big role in organizing several cultural and social activities throughout the year. "Tunas" (traditional musical groups) and sports teams are also a good way to meet people and have some fun.

Our 50.000m<sup>2</sup> campus is just 10 minutes away from downtown Porto by subway and has modern infrastructures, where you can always find a comfortable place to study or do group work.

On top of that, ISEP's Museum was recognized by the Scientific Instrument Commission for its priceless collection and represents a perfect place to visit, relax and reflect on new ideas.

“ I meet so many people from any part of the world and I have many opportunities to learn something about their culture. That is the best for me. (...) nearly every weekend I have the opportunity to join a trip. When I am back I probably know more places in Portugal than in Germany. That is amazing. ”

**MARLENE HÜLSEBROCK**  
Technische Universität Braunschweig  
Germany





SPECIAL **MOMENTS**  
YOU WILL   
ALWAYS CHERISH

# CHOOSING YOUR FIELD OF STUDIES

## **Academic Offer in English**

- > Informatics Engineering (BSc and MSc)
- > Mechanical Engineering (BSc and MSc)
- > Sustainable Energies (MSc)
- > Electrical Engineering- Power Systems (MSc)
- > European Project Semester (offered only in the second semester to third year of BSc students)

Any other course requires 15 or more international students to enrol for a certain subject for it to be taught in English.

It is also possible to welcome students to do a tailored project or a thesis, which can also be worked in English.



# GENERAL INFORMATION

## **Portuguese Higher Education System**

The Portuguese higher education system is organized in three cycles of studies: bachelor, master and doctorate. Each study cycle has generic qualification descriptors based on skills to be acquired.

## **Bachelor Degrees**

Usually, first cycle studies (Bachelor degrees) have 180ECTS and last for six semesters. The first cycle of studies ensures students acquire skills and knowledge to enter the labour market. Students must complete all curricular units to get the degree and be recognised by professional orders.

## **Master Degrees**

Master degrees may have between 90 and 120 ECTS credits and last three to four semesters. The second cycle of studies ensures students acquire a professional specialization. Students must complete all curricular units and successfully defended in public their thesis, their project work or their traineeship report to get the degree.

## **Academic Calendar**

School Year: September – July

1<sup>st</sup> Semester: September – February

2<sup>nd</sup> Semester: March – July

Summer Break: August

Special Period for Exams: September

## **Visa and Entry Requirements**

Due to Portugal be part of Schengen Area, most EU, EEA and Switzerland citizens just need to have an identity card to enter Portugal.

For stays up to 90 days citizens from Argentina, Australia, Bolivia, Brazil, Brunei, Bulgaria, Canada, Chile, Costa Rica, Croatia, El Salvador, Guatemala, Honduras, Israel, Japan, Malaysia, Mexico, Monaco, New Zealand, Nicaragua, Panama, Paraguay, Romania, San Marino, Singapore, South Korea, United States of America, Uruguay, Vatican, Venezuela and Special Administrative Regions of the People's Republic of China in Hong Kong and Macao, may enter Portugal holder just a passport. It is not required a visa.

This information should always be confirmed with the local Portuguese Embassy or Consulate.

Complete information can be found at:

**[www.sef.pt/portal/v10/EN/asp/apoioCliente/detalheApoio.aspx?id\\_linha=4371](http://www.sef.pt/portal/v10/EN/asp/apoioCliente/detalheApoio.aspx?id_linha=4371)**

For further information about the Portuguese System of Higher Education, scholarships and international student status go to [www.dges.mec.pt/en](http://www.dges.mec.pt/en).



“ Portuguese students are usually very friendly and helpful and they even suggest help before we ask. The best thing is that most of them speak English and really helped us to get integrated in classes and to understand how the academic procedures work. ”

**GIZAY KISA**

Cankaya University  
Turkey





University Study In Europe

<http://universitystudyineurope.com/>

NORTH AMERICA

CANADA

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[info.ca@universitystudyineurope.com](mailto:info.ca@universitystudyineurope.com)

UNITED STATES

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POLITÉCNICO  
DO PORTO

