

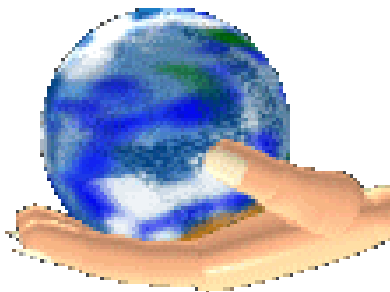






# INTERNATIONAL STUDENT MOBILITY

<http://www.ipleiria.pt/internacional/pt/mobilidadeinternacional/estudantes/estudos/programaseuropeus/erasmus/acordos/Paginas/default.aspx>



# STUDENT SUPPORT SERVICES



**HEALTH AND  
SUPPORT  
SERVICES**

**GRANTS**

**CATERING SERVICES**

**SPORT**

**HEALTH SERVICES**

**STUDENT ASSOCIATIONS**

**PART-TIME COLLABORATION GRANTS**

**CULTURE (THEATRE, MUSIC,  
MULTICULTURAL PROJECTS)**

**SAPE**

<http://mestradosportugal.ipleiria.pt/en/>



 **IPL**  
instituto politécnico de leiria

Mestrados    Informações    Sobre o IPLeia    Sobre Portugal    Contactos

Português   English

À procura de uma oportunidade única para estudar no exterior?

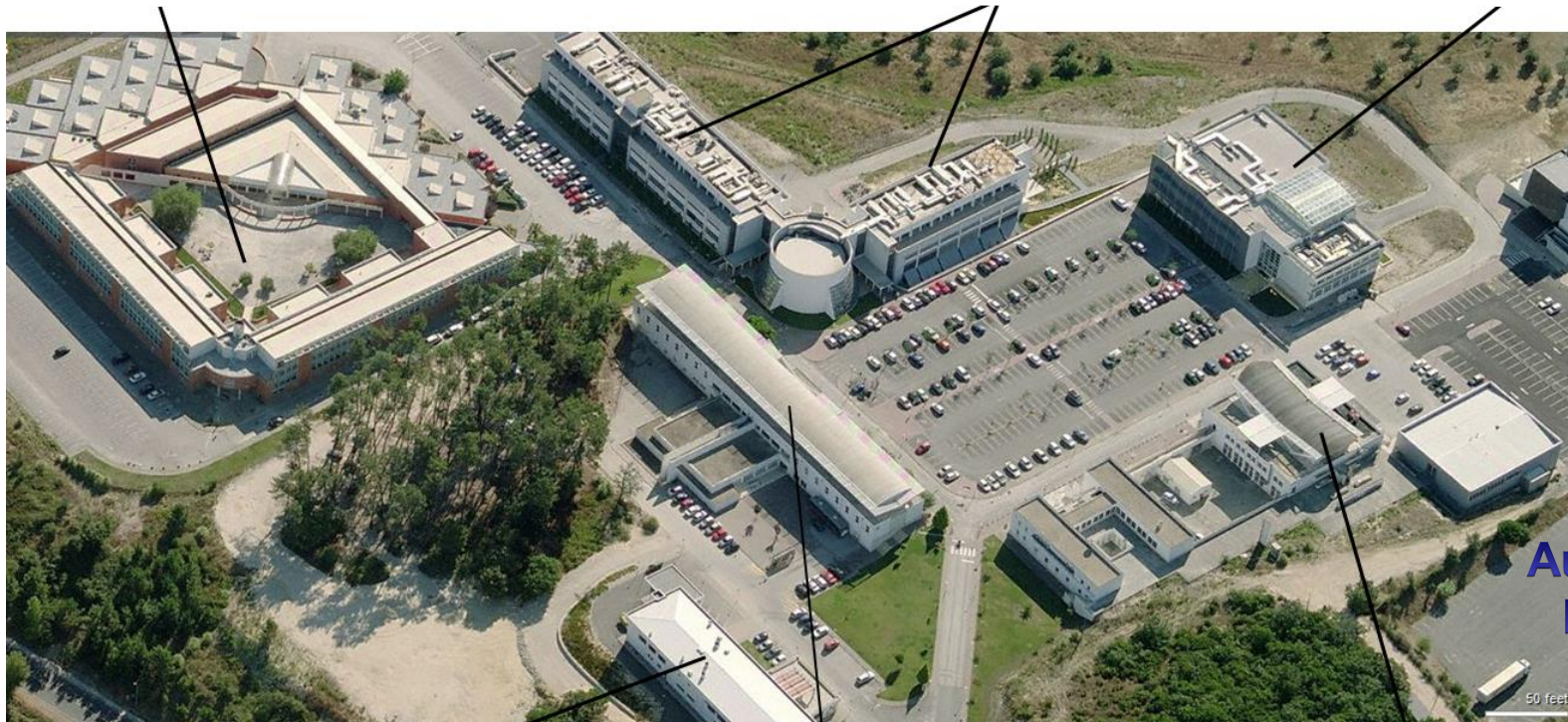


## Campus 2, ESTG

**A Building**

**D Building**

**Library**



**Restaurant**

**B,  
Administrative  
Building**

**C,  
Research  
Building**

**Restaurant**

**E,  
Automotive  
Building**



## **CIVIL ENGINEERING**

**400 students**









# CIVIL ENGINEERING DEGREE



## OBJECTIVES

**Sound scientific and technological knowledge**

**Broad-based program**

**STRUCTURES**

**URBAN AND  
EARTH  
PLANNING**

**HYDRAULICS  
AND  
ENVIRONMENT**

**GEOTECHNICS**

**CONSTRUCTION**

## Civil Engineering Program - 180 ECTS

ECTS

### Semester 1

Mathematical analysis	6
Linear Algebra	5
Physics	6
Technical drawing	5
Topography	6
English	2

### Semester 2

Statistics	3
Applied Mathematics	6
Applied Statistics	5
Computer Assisted Design	5
Programming	6
Engineering Geology	5

### Semester 3

Mechanics of Solids and Foundations I	6
Strength of Materials I	5
Hydraulics	5
Construction Materials	5
Construction processes	4
Urban and Regional Planning	5

### Semester 4

Mechanics of Solids and Foundations II	6
Strength of Materials II	5
Hydrology and Water Resources	5
Theory of Structures	5
Installations in Buildings	4
Road Design I	5



<b>Civil Engineering Program - 180 ECTS</b>		ECTS
<b>Semester 5</b>		6
Reinforced Concrete I		5
Sewage Systems		6
Road Design II		6
Construction Management and Safety		2
Innovation and Entrepreneurship		3
Option I a)		
<b>Semester 6</b>		6
Reinforced Concrete II		3
Building Physics		8
Civil Engineering Project		3
Seminar		5
Option II b)		5
Option III b)		
b) Please consult the study plan in <a href="http://www.estg.ipleiria.pt">www.estg.ipleiria.pt</a>		

# MASTER IN CIVIL ENGINEERING

## CIVIL CONSTRUCTION



**Evening Program**

**4 SEMESTERS  
24 MONTHS  
120 ECTS**

**Provide in-depth knowledge in civil engineering construction;**

**Specialization in a subset of civil engineering fields.**





Master Degree Program	ECTS
<b>Semester 1</b>	
Dynamic Analysis and Earthquake Engineering	7
Construction and Maintenance of Road Pavements	6
Urban Hydraulics	6
Coatings and Finishes	6
Sustainable Construction	5
<b>Semester 2</b>	
Quality and Safety in Construction	6
Wood and Masonry Structures	6
Modelling and Evaluation of Structures	5
Environmental Comfort in Buildings	5
Patohology and Rehabilitation of Buildings	6
Introduction to Scientific Research	2
<b>Semester 3 and 4</b>	
Prestressed Structures and Prefabrication	6
Support Structures and Soil Improvement	6
Transport Planning and Management	6
Projet <sup>a)</sup>	42
Thesis <sup>a)</sup>	42
Internship <sup>a)</sup>	42

a) Choose one of the three options

# MASTER IN CIVIL ENGINEERING

## SWOT ANALYSIS

### ***STRENGTHS***

- Provides sound scientific and technological knowledge for professional life in traditional construction engineering areas.
  - Friendly environment with good and modern facilities, students have access to a host of engineering laboratories and facilities
  - Strong synergy between the department of civil engineering and regional construction companies and business associations.
  - Weekly-based seminars in civil engineering and related areas with national and international experts from academia and industry.
  - Highly qualified and dynamic teaching staff. There is an active collaboration with several companies and public entities, namely through Projects/Internships
    - Training students who are already in the labor market and are seeking a specialization
- Ability to use the facilities of the Centre for Rapid and Sustainable Product Development, an FCT (Portuguese Science and Technology Foundation) Research Centre of Excellence, to carry out research projects
- Competencies for conducting professional activities in a highly ethical manner, considering safety, health and public welfare issues



## SWOT ANALYSIS

### **WEAKNESSES**

- Internal quality procedures are not yet totally implemented.
- Adapt the program to the future needs of construction professionals
- Prepare graduates for infrastructure protection against natural disasters under the constraints of sustainability.

### **THREATS**

- Due to the Portuguese economic crisis, some construction companies move their main activities to other countries.
- Difficulty in attracting students for civil engineering, mainly due to few jobs availability and low wages

### **OPPORTUNITIES**

- The possibility to create innovative master degrees, defining a clear strategy towards innovation
- Create synergies and new opportunities for students, promoting multidisciplinary and multicultural teamwork
- A strong master's program will position the department favorably regarding future changes in professional degree requirements

# CIVIL ENG. TESTING FACILITIES

## Geotechnical Labs





# CIVIL ENG. TESTING FACILITIES



Hydraulic Lab

CAD Lab



# CIVIL ENG. TESTING FACILITIES



Structural and  
Masonry Testing Lab







Topography Works in  
the School Campus

# VISITING CONSTRUCTION SITES



Students participation in field trips





# MODERN SCHOOL FACILITIES

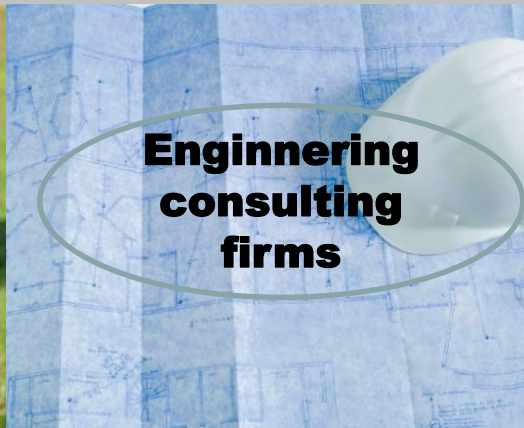




# CAREER IN CIVIL ENGINEERING



**Professional  
career  
opportunities**



**Engineering  
consulting  
firms**



**Building  
surveying**



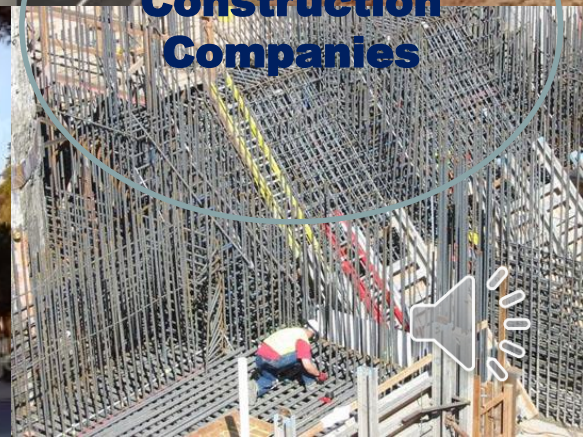
**Public  
Administration**



**Construction  
Companies**



**Municipalities**







Head of Department:

[coord.dep.civil@estg.ipleiria.pt](mailto:coord.dep.civil@estg.ipleiria.pt)

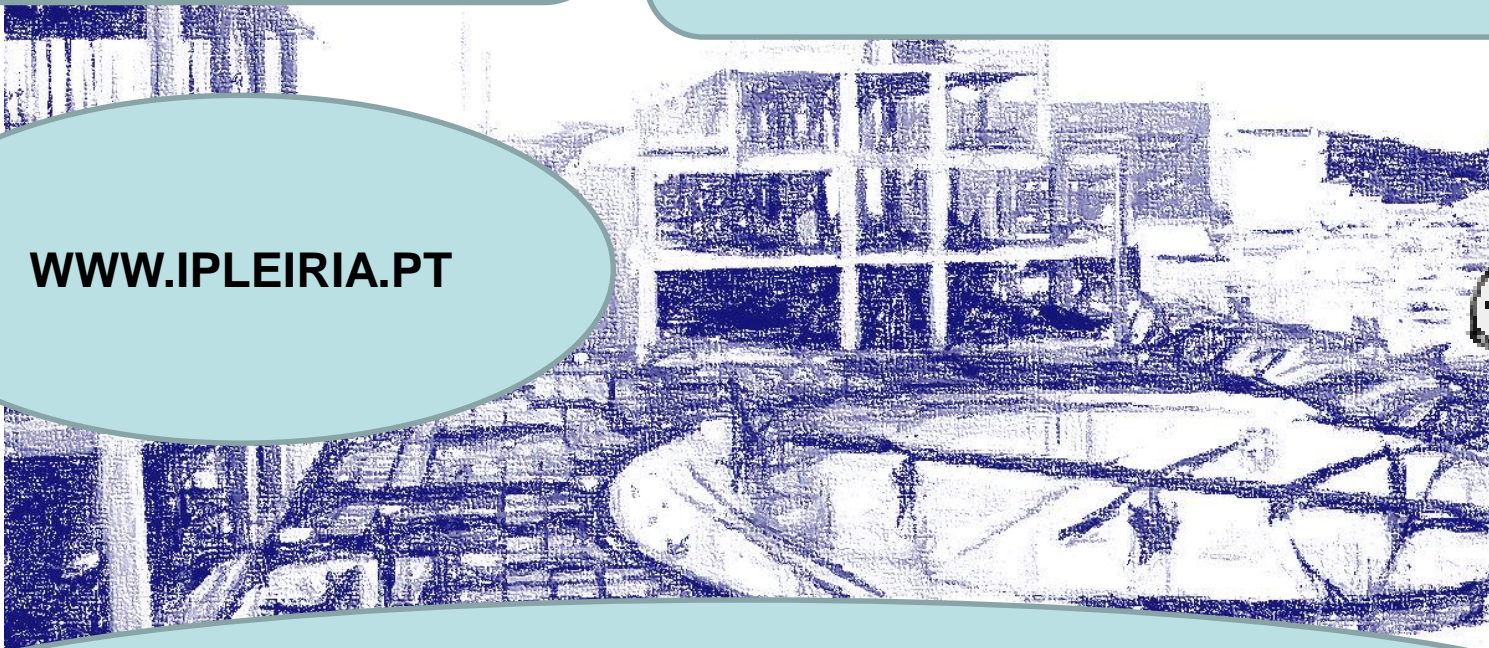
Program coordinator:

[coord.curso.ec@estg.ipleiria.pt](mailto:coord.curso.ec@estg.ipleiria.pt)

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<http://www.facebook.com/eng.civil.estg>

**WWW.IPLEIRIA.PT**



<http://cursos.ipleiria.pt/Licenciaturas/Pages/mostrarConteudo.aspx?cid=9089>





THANK YOU