



---

Polytechnic Institute of Coimbra (P COIMBRA 02)  
Coimbra Institute of Engineering - ISEC

---

Chemical and Biological Engineering Department

---

ECTS CATALOGUE

---

The main language of instruction at Coimbra Institute of Engineering is Portuguese. However, some courses from degree and master programs can be offered in English and/or with a tutorial support in English.

The Biological Engineering Bachelor is taught mainly in Portuguese.

The ECTS catalogue includes subject contents in English.

Students can choose subjects from this Catalogue to the study plan proposal (Learning Agreement) to be analyzed carefully by the Departmental Coordinators and to be adjusted if necessary.

This ECTS catalogue contains information which is valid for this academic year. ISEC reserves the right to adjust the courses offered during the academic year and is not responsible for typing errors or printing mistakes.

*Prof. Helga Seifert*  
Coordinator of International Relations Office  
*Contact Person: Ms Dália Pires*  
Coimbra Institute of Engineering  
Rua Pedro Nunes  
Quinta da Nora  
3030-199 Coimbra  
PORTUGAL

Tel.: (+351) 239 790 206  
[ri@isec.pt](mailto:ri@isec.pt)

*Prof. David Domingues*  
Chemical and Biological Eng. Department  
Coordinator  
Coimbra Institute of Engineering  
Rua Pedro Nunes – Quinta da Nora  
3030 – 199 Coimbra  
PORTUGAL

Tel.: (+351) 239 790 330  
[davidd@isec.pt](mailto:davidd@isec.pt)



Polytechnic Institute of Coimbra (P COIMBRA 02)  
Coimbra Institute of Engineering - ISEC

Chemical and Biological Engineering Department

ECTS CATALOGUE

**BACHELOR - Biological Engineering**

Code	Title - Portuguese	Title - English	ECTS	Term
<b>1.º ano / 1<sup>st</sup> Year</b>				
947409	Biologia	Biology	5.5	SPRING
947404	Física	Physics	5.5	WINTER
947403	Introdução às Tecnologias de Informação	Technologies Information Introduction	5.5	WINTER
947405	Laboratório de Química I	Chemical Laboratory I	8	WINTER
947410	Laboratório de Química II	Chemical Laboratory II	8	SPRING
947401	Matemática I	Mathematics I	5.5	WINTER
947406	Matemática II	Mathematics II	5.5	SPRING
947408	Programação e Métodos Numéricos	Programming and Numerical Methods	5.5	SPRING
947402	Química I	Chemistry I	5.5	WINTER
947407	Química II	Chemistry II	5.5	SPRING
<b>2.º ano / 2<sup>nd</sup> Year</b>				
947417	Análise Instrumental	Instrumental Analysis	5.5	SPRING
947413	Bioquímica e Microbiologia	Biochemistry and Microbiology	5.5	WINTER
947416	Fenómenos de Transporte I	Transport Phenomena I	5.5	SPRING
947418	Instrumentação e Controlo	Instrumentation and Control	5.5	SPRING
947419	Introdução à Gestão	Introduction to Management	5.5	SPRING
947411	Introdução aos Processos	Introduction to Chemical and Biological Processes	5.5	WINTER
947420	Laboratório de Análise Instrumental	Instrumentals Analysis Laboratory	8	SPRING
947415	Laboratório de Microbiologia	Microbiology Laboratory	8	WINTER
947444	Probabilidade e Estatística	Statistical Methods	5.5	WINTER
947412	Termodinâmica	Thermodynamic	5.5	WINTER
<b>3.º ano / 3<sup>rd</sup> Year</b>				
947423	Fenómenos de Transporte II	Transport Phenomena II	5.5	WINTER
947432	Gestão Ambiental	Environmental Management	5.5	SPRING
947435	Laboratório de Tecnologias Biológicas	Biological Technologies Laboratory	8	WINTER
947424	Laboratório de Tecnologias Químicas	Chemical Technologies Laboratory	8	SPRING
947425	Opção I	Option I	5	WINTER
947436	Opção II	Option II	5	SPRING
947434	Práticas de Engenharia	Engineering Practices	5.5	SPRING
947422	Processos de Separação I	Separation Process I	5.5	WINTER
947433	Processos de Separação II	Separation Process II	5.5	SPRING
947421	Reactores Químicos e Biológicos	Chemical Reaction Engineering	5.5	WINTER