

**POLYTECHNIC INSTITUTE OF COIMBRA**

**NOTICE**

**MASTER IN BIOTECHNOLOGY**

**(EDITION 2016-2018)**

Under the Decree-Laws no. 42/2005, of 22 February, no. 74/2006, of 24 March, with the alterations introduced by Decree-Laws no. 107/2008, of 25 June, and no. 115/2013, of 7 August, and further applicable legislation;

Under Order no. 10719/2013 (Diário da República no. 158, 2ª Série of 19 August) by the President of the Instituto Politécnico de Coimbra, approving the duration, the scientific areas, the number of ECTS required to obtain the degree, and the curricular plan of the study cycle providing access to the degree of Master in **Biotechnology**, at Escola Superior Agrária de Coimbra;

In compliance with the Regulation of the Study Cycle of the Master Degrees of Polytechnic Institute of Coimbra (Instituto Politécnico de Coimbra) – Order no. 19151/2008 of 9 July (Diário da República, 2ª Série, no.137 of 17 July), altered by Orders no. 7994/2011, of 16 May (Diário da República, 2ª Série, no. 107 of 2 June), no. 11574/2012, of 23 July (Diário da República, 2ª Série, no. 165, of 27 August) and no. 2032/2014 of 24 January (Diário da República, no. 27, 2ª Série, , of 7 February) and no. 5636/2015 of 2 April (Diário da República no. 102, 2ª série, of 27 May);

We open the application period for the access to the master programme in **Biotechnology**, to begin in the scholar year **2016/2017** under the following compliances:

1. Polytechnic Institute of Coimbra (IPC), through Coimbra College of Agriculture (ESAC) who lectures the degree, confers the degree of MSc in Biotechnology.
2. The curricular structure and the study plan are listed in the Annex which is an integral part of the present document.
3. The master in Biotechnology consists of four semesters corresponding to 120 ECTS and integrates a specialisation course in Biotechnology composed of a set of curricular units corresponding to 60% of the total number of ECTS and a master professional traineeship, subject of final report, corresponding to 40% of the total number of ECTS of the study cycle.
4. Under the proposal of the President of ESAC, the number of vacancies for the 2016-2018 edition of the master programme is set at 20.
5. The opening of the course is dependent on a minimum of 7 registered and enrolled students.
6. The course functions during working hours, is lectured in English and has the following calendar:
  - a) Specialisation course, starting on the 30<sup>th</sup> September, which will follow the academic calendar to be approved by the competent organ;
  - b) Submission of the provisional version of the Professional Traineeship Report until the 10<sup>th</sup> September 2018;
  - c) Discussion of Professional Traineeship Report until the 15<sup>th</sup> December 2018.

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7. The assessment regime is regulated by Regulamento de Avaliação do Aproveitamento dos Estudantes da ESAC;
  8. The final classification, rounded to units, is the arithmetic mean of the classification of the courses weighted by the number of ECTS, including the professional traineeship report.
  9. Applicants:
    - a) Holders of a 1<sup>st</sup> cycle degree, or a legal equivalent, in the areas of Agricultural, Biological or Natural Sciences, or similar areas;
    - b) Holders of a foreign academic higher education degree in one of the above mentioned areas, or a legal equivalent, from an institution whose 1<sup>st</sup> cycle degrees comply with the principles of the Bologna Process;
    - c) Holders of a foreign academic higher education degree in one of the above mentioned areas, recognized by the Technical-Scientific Board of ESAC as fulfilling the requirements of a 1<sup>st</sup> cycle degree;
    - d) Holders of an academic, scientific or professional curriculum recognized by the Technical-Scientific Board of ESAC as attesting to the aptitude to accomplish this study cycle.
  10. The deadlines for application are the following:
    - 1<sup>st</sup> phase:** from the publication of this notice to the 29<sup>th</sup> May 2016;
    - 2<sup>nd</sup> phase:** 13<sup>rd</sup> June to the 28<sup>th</sup> August 2016, if the vacancies are not yet fulfilled;
    - 3<sup>rd</sup> phase:** 13<sup>rd</sup> to the 26<sup>th</sup> September 2016, if the vacancies are not yet fulfilled.
  11. Specific model of application form must be used and the following documents the following must be attached to the application process:
    - a) Photocopy of the Educational Certificate;
    - b) Photocopy of the study plan(s) of the degrees providing access to the master;
    - c) Short *Curriculum Vitae*; (3 A4 pages maximum);
    - d) Documents substantiating the information supplied in the *Curriculum Vitae*;
    - e) Photocopy of Citizen Card, Identity Card, or Passport;
    - f) Photocopy of Tax Identification Number or Citizen Card.
  12. Applications are to be submitted:
    - a) On- line, on the ESAC's website;
    - b) Sending the application form and the remaining documents referred to above by mail, with acknowledgement of receipt, addressed to Serviços Académicos, Escola Superior Agrária de Coimbra, Bencanta, 3045-601 Coimbra;
    - c) In person at the ESAC Academic Services.

13. The time limits related with the admission process are the following:

	1 <sup>st</sup> phase	2 <sup>nd</sup> phase	3 <sup>rd</sup> phase
Publication of list of admitted applicants	1 June	31 August	28 September
Complaints	1 to 3 June	31 August to 2 September	28 to 30 September
Decision on complaints and publication of the classification and ordering of admitted applicants	8 June	6 September	3 October
Complaints	8 to 10 June	6 to 8 September	3 to 6 October
Decision on complaints and publication of the final ordered list of admitted applicants	15 June	13 September	7 October
Registration and enrolment	15 to 22 June	13 to 20 September	7 to 13 October

14. The following emoluments are due:

- Application fee: 5% of annual tuition fee
- Registration/enrolment fee: 20% of annual tuition fee
- Annual tuition fee: 2600€

15. The selection and ordering of candidates shall be done according to the following criteria:

**Component A.** Academic Training (sum of A1, A2, and A3)

A1. Overall classification of the BSc Hons, or legal equivalent (maximum score 6 points)

Rating Scale 0-20	In the study cycle area	In similar area
≤ 12	3	1
13-14	4	2
15-16	5	3
≥ 17	6	4

A2. Master or PhD (in any scientific area): 6 points

A3. BSc (maximum score 2 points)

- a) In the study cycle area: 2 points;
- b) In other areas: 1 point.

**Component B.** Other training - courses lasting a minimum of 40 hours and formal final appraisal: (maximum score: 3 points):

- a) Courses in the study cycle area: 1 point per course
- b) Courses in other areas: 0.5 per course

**Component C.** Professional experience – number of whole years of proven experience in the study cycle area (maximum score 8 points):

Number of years	In the study cycle area	In similar area
1-2	2	1
3-4	4	2
4-5	6	3
≥ 7	8	4

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Applicants are listed in diminishing order of the final rating (FR) obtained by applying the following formula:

$$FR = (A \times 2 + B + C) / 4$$

In case of equality of FR value, the tiebreak is determined by the best classification of A, B, and C criteria, successively.

16. The accreditation process follows the provisions of the Regulation of Accreditations of the Polytechnic Institute of Coimbra and of the Legal Regime of Academic Degrees and Diplomas of Higher Education.

17. No precedence regime is applied to Curricular Units attendance.

18. To the situations not covered by the present Public Notice are applicable the provisions of Decree-Law no. 74/2006, of 24 March and Regulation of the Study Cycle of the Master Degrees of Polytechnic Institute of Coimbra.

Coimbra, 25 may 2016

The Vice-President of IPC

A handwritten signature in blue ink, appearing to read 'Paulo Sanches', is centered on the page.

Paulo Sanches

## ANNEX

## STUDY PLAN

Master in **Biotechnology**

1 <sup>st</sup> Year/1 <sup>st</sup> Semester Curricular Units	Scientific area	Duration	Workload		ECTS	Elective/ Mandatory
			Total	Contact		
Molecular Applied Biotechnology	420	Semester	133	TP:30	5	Mandatory
Separation Technology	524	Semester	133	TP:30	5	Mandatory
Process Modelling	524	Semester	133	TP:30	5	Mandatory
Biotechnology and Animal Science	620	Semester	133	TP:30	5	Mandatory
Option 1		Semester	133	TP:30	5	Elective
Option 2		Semester	133	TP:30	5	Elective
1 <sup>st</sup> Year/2 <sup>nd</sup> Semester Curricular Units	Scientific area	Duration	Workload		ECTS	Elective/ Mandatory
			Total	Contact		
Bioreactors and Biocatalysis	524	Semester	133	TP:30	5	Mandatory
Biotechnology and Biomass	524	Semester	133	TP:30	5	Mandatory
Phytobiotechnology	620	Semester	133	TP:30	5	Mandatory
Management and Entrepreneurship	345	Semester	133	TP:30	5	Mandatory
Option 3		Semester	133	TP:30	5	Elective
Option 4		Semester	133	TP:30	5	Elective
2 <sup>nd</sup> Year/1 <sup>st</sup> Trimester Curricular Units	Scientific area	Duration	Workload		ECTS	Elective/ Mandatory
			Total	Contact		
Bioinformatics	420	Trimester	82	TP:22	3	Mandatory
Instrumentation and Control	524	Trimester	82	TP:22	3	Mandatory
Project	524	Trimester	82	TP:22	3	Mandatory
Option 5		Trimester	82	TP:22	3	Elective
2 <sup>nd</sup> Year/2 <sup>nd</sup> and 3 <sup>rd</sup> Trimesters Curricular Units	Scientific area	Duration	Workload		ECTS	Elective/ Mandatory
			Total	Contact		
Professional Traineeship	524	2 Trimesters	1300	OT:54	48	Mandatory

*TP: Theoretical-Practical Classes; OT: Tutorial*