

Bachelor programme in Forest Sciences and Natural Resources

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| Academic unit | Coimbra College of Agriculture (ESAC-IPC) |
| Type | Undergraduate Major Program |
| Level of qualification | Level 6. First Cycle (Bachelor's Degree) Program. 30 ECTS/semester during 3 years |
| Qualification awarded | The students who successfully complete the program are awarded the degree of Bachelor of Science (B.S.) in Bachelor Programme in Forest Sciences and Natural resources |
| Mode of study | Full-Time |
| Admission requirements and recognition of prior learning | <p>Foreign European Union citizens who wish to enrol in ESAC-IPC undergraduate degree programmes may apply:</p> <ul style="list-style-type: none"> (a) Through a national contest; (b) Students already enrolled in a foreign Higher Education Institution may ask for transfer during an annual application period, with recognition of prior learning. <p>Non EU citizens who wish to enrol in ESAC-IPC undergraduate degree programmes must apply via the annual application for International Students, using one of the following:</p> <ul style="list-style-type: none"> (a) Those with a qualification giving access to Higher Education, meaning any diploma or certificate issued by a competent authority in the country in which it was awarded can apply directly to the desired bachelor degree; (b) Those or a Diploma of Portuguese secondary school or equivalent degree must apply for the specific ESACIPC bachelor degree exams (www.esac.pt); <p>More information on how to apply for the Portuguese first-cycle bachelor programmes: Study in Portugal website.</p> |
| Qualification requirements | The undergraduate students in this program must be successful in all the courses with a minimum achievement grade of 10, including their compulsory traineeship, and must have completed at least 180 ECTS credits. |
| Profile of the programme | Coimbra College of Agriculture offers both undergraduate and graduate programs on Forest Sciences. The bachelor degree in Forest Sciences and Natural Resources is devoted to form capable of carrying out the sustainable management of forests and other natural resources. |
| Occupational profiles of graduates | Graduates will have opportunities to work in public establishments and private sectors or have the chance to establish their own private firms, on subjects such as management and certification of forest products and other natural resources. |
| Access to graduate studies | The graduates of this program can apply to master programs to enhance their academic skills and career. The master program in Forest Science is a continuity of the bachelor program in Forest Sciences and Natural Resources. |
| Examination regulations, assessment and grading | <p>Assessment of success</p> <p>Assessment of success in a course may be carried out by a) continuous evaluation or b) exam. The students which do not achieve success during continuous evaluation are admitted to the exam if their presence is $\geq 75\%$.</p> <p>Achievement grade</p> <p>Grades are given in an absolute system scoring 0 to 20. Scores 0 to 9 indicate that the student was unsuccessful in a course (fail). Scores 10 to 20 indicate that the student was successful in a course (pass).</p> <p>Continuous evaluation, final, resit and graduation exams</p> <p>(1) All courses contemplate continuous evaluation, which may be carried out in different ways specified in the respective Course Datasheet.</p> <ul style="list-style-type: none"> a) Assessment by modules: each module is given a percentage contribution to the final grade. The student passes only if the grade for each module is ≥ 7.5 and the final grade of the course is ≥ 9.5. The failed module(s) may be assessed in the final and/or resit exams or the student may choose to assess the whole subject of the course; b) When the course is not divided in modules, the student passes if the final grade of the course is ≥ 9.5. The contribution of each evaluation item for the final grade is specified in the Course Datasheet. The complete subject of a failed course must be assessed in the final and/or resit exams. <p>(2) Final exams: a student may take the final exams only if 75% presence in the classes is achieved. The final exams may assess one or more course modules or the whole course.</p> <p>(3) Resit exams: are the final opportunity for a student to pass a course in a given academic year, and are available to all students. The resit exams may assess one or more course modules or the whole course.</p> <p>(4) Graduation exams: available to finalist students with, at the most, three failed courses to fulfil the bachelor program requirements.</p> |

Curriculum

| 1 st year – 1 st (Fall) Semester | | | | | | |
|----------------------------------------------------------|--------------------------------------------------------------|------|------|-----|-----|------|
| Code | Title | L | LP | Lab | TG | ECTS |
| 8810021 | Mathematical analysis | 22.5 | 37 | | 9 | 6 |
| 8810022 | Chemistry and biochemistry I | 30 | | 30 | 9 | 6 |
| 1041101 | Ecology | | 52.5 | | 8 | 6 |
| 1041102 | Biometry | | 30 | | 4.5 | 3 |
| 1041103 | Geography and surveys | | 60 | | 9 | 6 |
| 1041104 | Introduction to the profession | | 37.5 | | 5.5 | 3 |
| 1 st year – 2 nd (Spring) Semester | | | | | | |
| Code | Title | L | LP | Lab | TG | ECTS |
| 8810028 | Statistics | | 45 | | 7 | 5 |
| 8810025 | Chemistry and biochemistry II | 30 | | 30 | 9 | 6 |
| 1041201 | Botany and dendrology | | 60 | | 9 | 6 |
| 8810026 | English language and communication | | 30 | | 4.5 | 3 |
| 1041202 | Forest soils | | 45 | | 6 | 4 |
| 1041203 | Inventory of natural resources | | 60 | | 9 | 6 |
| 2 nd year – 3 rd (Fall) Semester | | | | | | |
| Code | Title | L | LP | Lab | TG | ECTS |
| 8810031 | GIS and remote sensing | | 60 | | 9 | 6 |
| 8810032 | Hydraulics and hydrology | | 60 | | 9 | 6 |
| 1042101 | Natural resources economics | | 60 | | 9 | 6 |
| 1042102 | Physiology and reproduction of forest plants | | 60 | | 9 | 6 |
| 1042103 | Silviculture | | 60 | | 9 | 6 |
| 2 nd year – 4 th (Spring) Semester | | | | | | |
| Code | Title | L | LP | Lab | TG | ECTS |
| 1042201 | Forest operations | | 60 | | 9 | 6 |
| 1042202 | Biophysical planning | | 60 | | 9 | 6 |
| 1042203 | Agroforest systems | | 60 | | 9 | 6 |
| 1042204 | Local development | | 60 | | 9 | 6 |
| 1042205 | Forest health | | 60 | | 9 | 6 |
| 3 rd year – 5 th (Fall) Semester | | | | | | |
| Code | Title | L | LP | Lab | TG | ECTS |
| 1043101 | Management of faunal resources | | 60 | | 9 | 6 |
| 1043102 | Forest defence against fire | | 60 | | 9 | 6 |
| 1043103 | Enterprise management and entrepreneurship | | 60 | | 9 | 6 |
| 1043104 | Management of natural resources | | 60 | | 9 | 7 |
| 1043213 | Management of natural areas | | 45 | | 6 | 5 |
| 3 rd year – 6 th (Spring) Semester | | | | | | |
| Code | Title | L | LP | Lab | TG | ECTS |
| 1043201 | Forest policy and certification | | 56 | | 8 | 5 |
| 1043211 | Forest exploitation | | 45 | | 6 | 5 |
| 1043212 | Forest improvement | | 45 | | 6 | 5 |
| 1043202 | Traineeship | | 350 | | 20 | 15 |

NOTES:

L=Lecture; LP=Lecture-Practical; Lab=Laboratory; TG=Tutorial guidance. A semester has typically a duration of 15 class weeks **2**