Recommended study schedule

Field of study: **4. Biotechnology**
Study program: **Biotechnology**
Degree: **third**
Form of study: **full-time**

1) Study and pedagogical-educational activities

Activity	**credits**
completion of a compulsory subject	10
completion of a compulsory optional subject	10
Own Pedagogical Activity of Doctoral Student I*	5
Own Pedagogical Activity of Doctoral Student II*	5
Own Pedagogical Activity of Doctoral Student III*	5
Own Pedagogical Activity of Doctoral Student IV*	5
Own Pedagogical Activity of Doctoral Student V*	5
Own Pedagogical Activity of Doctoral Student VI*	5
Own Pedagogical Activity of Doctoral Student VII*	5
Supervision of the Final Bachelor's Thesis	5
Elaboration of an Opinion for the Final Work of the Bachelor's Study	3
Co-authorship (or authorship) of Created and Published Teaching Material	5
Independent Study of Literature according to the Recommendation of the Supervisor I	5
Independent Study of Literature according to the Recommendation of the Supervisor II	5

*) the pedagogical activity of the internal doctoral student is obligatory

Compulsory subjects

Subject	**credits**	**range**	**year of study**
Advances in Biotechnology	10	2/2	1
Professional English for PhD students	10	2/2	1

Compulsory elective subjects**

Subject	**credits**	**range**	**year of study**
Medicinal and Pharmaceutical Biotechnologies for PhD students	10	2/2	1,2
Preparation of Projects and Grants in the Field of Biotechnology	10	2/2	1,2
Industrial Biotechnology for PhD Students	10	2/2	1,2
Agricultural Biotechnology for PhD Students	10	2/2	1,2
Advances in Bioanalytical Chemistry	10	2/2	1,2
DNA Recombination and Genetic Transformation Technology	10	2/2	1,2
Biotechnological Transformations of Biomass, Biofuels and Biorefineries	10	2/2	1,2

Modern Methods for Studying the Structure, Properties and Activity of Compounds and Biomolecules	10	2/2	1,2
Biosafety and Marketing of Biotechnology and its Products	10	2/2	1,2
New Trends, Procedures and Methods in the Study of Living Organisms	10	2/2	1,2

**) the student chooses at least three subjects from the offer of compulsory elective courses

2) Creative activity

Activity	**credits**
Publication in a Scientific Journal Registered in the Web of Science Databases Included in Q1 in JCF IF (1st quarter of the impact factor value in the Journal Citation Report)	50
Publication I in a Scientific Journal Registered in the Web of Science Databases Included in Q2 in JCF IF (2nd quarter of the impact factor value in the Journal Citation Report)	40
Publication II in a Scientific Journal Registered in the Web of Science Databases Included in Q2 in JCF IF (2nd quarter of the impact factor value in the Journal Citation Report)	40
Publication I in a Scientific Journal Registered in the Web of Science Databases Included in Q3 in JCF IF (3rd quarter of the impact factor value in the Journal Citation Report)	25
Publication II in a Scientific Journal Registered in the Web of Science Databases Included in Q3 in JCF IF (3rd quarter of the impact factor value in the Journal Citation Report)	25
Publication I in a Scientific Journal Registered in the Web of Science Databases Included in Q4 in JCF IF (4th quarter of the impact factor value in the Journal Citation Report)	15
Publication II in a Scientific Journal Registered in the Web of Science Databases Included in Q4 in JCF IF (4th quarter of the impact factor value in the Journal Citation Report)	15
Publication in a Scientific Journal Registered in the Web of Science or Scopus Databases without Inclusion in Q1-Q4 in JCF IF	10
Publication in a Peer-Reviewed Proceedings	5
Active Participation in a Foreign Scientific Conference (declared by a published contribution in the proceedings)	5
Active Participation in a National Scientific Conference (declared by a published contribution in the proceedings)	5
Member of the Research Team on a Foreign Scientific Project, Registered at UCM	10
Member of the Research Team on a National Project (eg APVV, VEGA, KEGA, OPVaI), Registered at UCM	5
Citation to the Publication Output Registered in the Web of Science or Scopus Databases (it must not be an autocitation, it must be an affiliation of DB FNS UCM)	10
Obtaining an internal grant	10
Adoption of a New Experimental Methodology I	5

Adoption of a New Experimental Methodology II	5
Presentation at the Seminar	5

Subjects of the state exam

Course	**credits**
Dissertation Exam	30
Dissertation Defense	30

- profile objects are highlighted in bold

Study part

In the study part, the student is required to complete all compulsory subjects and three compulsory elective subjects and obtain at least:

50 credits

Pedagogical-educational activity

In pedagogical-educational activities, the internal student is obliged to complete his / her own pedagogical activity of doctoral students I - VII and to obtain at least:

35 credits

Creative activity

In the scientific part, the student is obliged to publish at least one experimental output in a scientific journal registered in the Web of Science databases and included in quartiles Q1-Q2 in JCF IF and at least one output in a scientific journal registered in the Web of Science or Scopus databases included in Q1-Q4 in JCF IF. In these published outputs, registered in the Web of Science and Scopus databases, the doctoral student has a reasonable co-authorship according to the convention of the relevant study program, which is evidenced by an extract from the publishing catalogue from the UCM University Library or from the Central Register of Publishing Activity.

The student is obliged to obtain at least:

95 credits

State examination

For successful completion of the state exam (dissertation exam + dissertation defense) the student will receive:

60 credits

The total number of credits required to complete the doctoral study is **240 credits**.