

## FACULTY OF BIOTECHNOLOGY

Courses available for **1<sup>st</sup> cycle Biotechnology Exchange Students** (2024/2025 academic year):

Winter semester (Oct. - Feb.)				Summer semester (Feb. – Jun.)			
sem.	Course or Module	hours	ECTS	sem.	Course or Module	hours	ECTS
<b>I</b>	Plant Biology (lect./lab.)	15/15	2/2	<b>II</b>	Physiochemical Methods in Biology (lecture)	20	3
	Animal Biology (lect.-e-learning/lab.)	15/15	2/2		Introduction to Statistics (lect./comp. lab.)	30/30	4/2
	General and Inorganic Chemistry (lect./lab.)	30/30	3/2		Structure and Function of Biomolecules (lect./lab.)	45/60	5/5
	Mathematics in life sciences (lect./tut.)	30/30	3/2		Organic Chemistry (lect./lab.)	30/45	4/3
	Computer Sciences (lect./comp. lab.)	15/30	2/2				
<b>III</b>	Metabolism (lect.)	45	5	<b>IV</b>	Microbiology (lect./lab.)	30/30	3/2
	Metabolism of Proteins and Carbohydrates (lab.)	40	3		Techniques in Molecular Biology (lect./lab.)	20/45	2/3
	Metabolism of Lipids (lab.)	20	2		Plant Physiology (lect.; e-learning)	30	3
	Biophysical Chemistry (lect./lab.)	30/30	3/2		Animal Physiology (lect.)	30	3
	Genetics (lect./lab.)	30/30	3/2		Plant Cell Cultures Techniques (lect./lab.) #	15/30	2/2
	Scientific presentations (seminar)	15	2		Animal Cell Cultures Techniques (lect./lab.) #	15/30	2/2
	Elective lecture 1.*	15	2		Bioinformatics and databases (lect./comp. lab.) #	15/30	2/2
					Bioinformatics and protein modeling (lect./comp. lab.) #	15/30	2/2
<b>V</b>	Molecular Organization of the Cell (lec./lab.)	30/50	4/3	Biophysics and bioenergetics (lect./lab.) #	30/30	3/2	
	Preparative Biochemistry (lect./lab.)	15/30	2/2	Medical biophysics (lect./lab.) #	30/30	3/2	
	Medical Biotechnology (lect./lab.) #	30/45	4/3	Seminar 1.*	15	2	
	Industrial Biotechnology (lect./lab.) #	30/45	4/3	Elective lecture 2.*	15	2	
	Bioethics (lect.)	15	1	<b>VI</b>	Bioprocess Engineering (lect./lab.)	30/15	2/1
	Seminar 2.*	30	4		Enzymology (lect./lab.)	30/45	3/2
	Elective lecture 3.*	15	2		Economics (lect./tut.)	30/15	2/2
	Elective lecture 4.*	15	2		Immunology (lect./lab.)	30/30	3/2
				Intellectual Property Law (lect.)	15	1	

\* Topics of elective lectures and seminars are announced before the beginning of the semester.

# Elective modules - only one of the two options can be chosen by the exchange student.

**Exchange Students hosted by other Faculties** should agree their participation in classes with Biotechnology Erasmus+ Coordinator. This is because a **limited number of places** is available. The **safety rules** and regulations, and **course requirements** are also determinative factors for laboratory admission.

In order to register for classes, **Exchange Students should contact** Biotechnology Erasmus+ Coordinator.

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