

Translational Biotechnology
1st Year

Course		ECTS	Period
Physiology		5	1 st sem
Functional Genomics			
	Molecular Dynamics of Cellular Processes	5	
	The Genetic Basis of Cancer	3	
Genomics and Epigenomics			
	Computational Genomics and Epigenomics	5	
	Genomics and Epigenomics of Gene Regulation	5	
Interactions and Gene Networks		5	2 nd sem
Biology of Regeneration and Development			
	Stem Cell Biology	5	
	Innovative experimental models in developmental biology and pathology	5	
Molecular Immunology		5	
In vitro diagnostics: molecular profiling of proliferative processes		5	
Thesis I		5	
Stage I		6	
TOTAL ECTS		59	

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2nd Year

Course		ECTS	Period
Chemistry for Health Sciences			1 st sem
	Supramolecular and Bioinorganic Chemistry	3	
	Nanomaterials	5	
	Mass Spectrometry	5	
Therapeutic Biotechnology			
	The molecular basis of neurological therapies	3	
	The molecular basis of nephrologic therapies	5	
Pharmacology and Drug Therapies			
	Pharmacological Biotechnology	3	
	Drug Discovery: basic principles	5	
Management of Biotech Companies		4	2 nd sem
Stage II		6	
Thesis II		14	
Freely chosen courses		8	
TOTAL ECTS		61	
Freely chosen courses			
Pathology		5	
Image Analysis for Biotechnologists			
Metals in Medicine		3	
Scientific Communication		4	