



UNIVERSITY POLITEHNICA OF BUCHAREST

FACULTY OF ENGINEERING IN FOREIGN LANGUAGES

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EDUCATIONAL PLAN 2016 - 2017

Master's degree program (master of research, 4 semesters)

Biomaterials for Tissue Engineering (BioTE)

1st year of study

Cod	Course title	Sem I, 14 weeks					Evaluation (E/V/P)	Sem II, 14 weeks					Evaluation (E/V/P)
		C	S	L	P	p.c.		C	S	L	P	p.c.	
	Tissue biochemistry	2	-	-	-	4	E						
	Cell and tissue biology	2	-	2	-	4	E						
	Stem cells and regenerative medicine	2	-	2	-	4							
	Nanomedicine: from concept to current and emerging applications	2	-	2	-	4	E						
	Nanobiomaterials for tissue engineering	2	-	-	-	4	E						
	Molecular and cellular engineering							2		2		4	E
	Biomaterials characterization by advanced techniques							2	-	2	-	4	E
	Tissue engineering and regenerative medicine							2	-	2	-	4	E
	Debilitating diseases of tissues							2	-	-	-	4	E
	Biomedical devices and prostheses							2	-	-	-	4	E
	Scientific research					10	V					10	V
	Total hours/p.c.	10		6		30		10		6		30	

2nd year of study

Cod	Course title	Sem I - 14 săptămâni					Evaluation (E/V/P)	Sem II - 14 săptămâni					Evaluation (E/V/P)
		C	S	L	P	p.c.		C	S	L	P	p.c.	
	Nanobiototoxicology	2	-	-	-	4	E						
	Advanced techniques for the characterization of biological active substances	2	-	2	-	4	E						
	Medical imaging for tissue reconstruction and regeneration	2	-	2	-	4	E						
	Mechanisms of tissue regeneration and remodeling	2	-	-	-	4	E						
	<i>In vitro</i> and <i>in vivo</i> models for tissue reconstruction and regeneration	2	-	2	-	4							
	Scientific research					10	V					30	V
	Total hours /p.c.	10		6		30						30	

RECTOR
Mihnea COSTOIU

DEAN
Prof.dr.ing. Adrian VOLCEANOV