

specialization biotechnology.

CURRICULUM

TOPIC BLOCK / COURSES	SEMESTER CREDIT UNITS ECTS-Credits			
	1	2	3	4
A. MATHEMATICS/ NATURAL SCIENCES				
Mathematics	2 2,5	2 2		
B1. TECHNICAL SUBJECTS – SPECIALIZATION				
Methods of Spectroscopy Laboratory	2 2,5			
Measurement Technology, Control & Feedback Control Systems		3 4		
Fluid Separation Processes	2 2,5			
Reaction Engineering		2 3		
Fluid Process Technology Laboratory / Tutorial		3 4		
Plant & Process Technology			5 7	
Qualification in Process Industries			2 3	
B2. TECHNICAL SUBJECTS – PROJECTS				
Project: Biotechnology	4 6			
Project: Modelling & Process Simulation		4 6		
Project: Plant Design Course			4 6	
B3. TECHNICAL SUBJECTS – SPECIALIZATION BIOTECHNOLOGY				
Biotechnological Process Engineering	4 5			
Methods in Molecular Biology	2 2,5			
Biotechnological Reaction Engineering – Modelling & Simulation		2 2,5		
Biotechnological Reaction Engineering – Seminar	1 1,5			
Food & Enzyme Technology	2 2,5	2 2,5		
Immunology			1 1,5	
Clinical Diagnostics			1 1,5	
Pharmaceutical Technology			1 1	
Toxicology & Hygiene			2 2,5	
Biopharmaceutical Technology – Seminar			2 2,5	
C. ACADEMIC RESEARCH / RESEARCH & DEVELOPMENT				
Current Research Interests	2 3	2 3	2 3	
Master's Seminar			1 1	2 3
Master's Thesis				27
D. ECONOMIC ASPECTS OF ENGINEERING				
Marketing & Controlling	2 2			
Entrepreneurship		2 2		
E. SOCIAL SKILLS				
Leadership Development		1 1	1 1	
NUMBER OF SEMESTER CREDIT UNITS	23 30	23 30	22 30	2 30