

Curriculum

SEMESTER CREDIT UNITS | ECTS-CREDITS

MECHATRONICS & FUNDAMENTALS OF ENGINEERING

	1	2	3	4	5	6
Mathematics & Numerical Mathematics	2 5	2 5	2 5			
Physics	1 5					
Thermo & Fluid Dynamics				2 5		
Control Engineering				2 5	2 5	
Robotics & Automation Technology				2 5	2 5	
Elective Product Design			2 5			

MECHANICAL ENGINEERING

Engineering Mechanics	2 5	2 5				
Mechanical Engineering	2 5	2 5				

ELECTRICAL ENGINEERING

Electrical Engineering	2 5	2 5				
Measurement & Digital Technology			2 5	2 5		
Drive Technology					2 5	

INFORMATION TECHNOLOGY

Programming	2 2.5	2 2.5				
Softwaredesign			2 5			

ELECTIVES

Elective A (choose two)

Innovation & Personal Skills		2 5	2 5			
Electronic Circuit Design		2 5	2 5			
Advanced Mechanical Engineering		2 5	2 5			
Collaborative Robotics & Production Systems		2 5	2 5			
Internet of Things		2 5	2 5			

Elective B (choose two)

e-Mobility				2 5	2 5	
Advanced Electronic Design				2 5	2 5	
Numerical Mechanics & Validation				2 5	2 5	
Mobile Robotics & Vision				2 5	2 5	
Machine Learning & Date Science				2 5	2 5	

INTERNSHIP | BACHELOR THESIS | BACHELOR EXAM

Bachelor Thesis & Internship						24
Bachelor Exam						1

MANAGEMENT, FOREIGN LANGUAGE & KEY COMPETENCIES

English	2 2.5	2 2.5				
Management & Entrepreneurship					2 5	2 5

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22 | 30 23 | 45 24 | 45 25 | 45 2 | 45 17 | 30