

curriculum mechanical engineering.

Semester Credit Units | ECTS-Credits

A1. FUNDAMENTALS AND APPLICATIONS: MATHEMATICS AND NATURAL SCIENCES	1	2	3	4	5	6
Mathematics	3 4	3 4				
Physics	3 4	3 4				
Advanced Mathematics			3 4	3 4		

A2. FUNDAMENTALS AND APPLICATIONS: ENGINEERING SCIENCE	1	2	3	4	5	6
Engineering mechanics	2 3	2 3				
Electrical engineering	4 5					
Fundamentals of mechanical engineering	5 6					
Materials science	3 4					
Machine elements		4 5				
Sensors & Signals		5 6				

A3. CORE SUBJECTS: MECHATRONICS	1	2	3	4	5	6
Digital electronics			2 3	3 4	3 4	
Dynamics			4 4	2 3	3 4	
Control engineering			5 6	5 6	4 5	
Electrical machinery					3 4	
Robotics					4 5	

A4. MAJOR IN MECHANICAL ENGINEERING	1	2	3	4	5	6
Production engineering		4 5	3 4			
Advanced machine elements			3 4			
Handling technology				3 4		
Product development: mechanical engineering				3 4		
Turbomachinery					2 3	
Production & Logistics					4 5	

B. BACHELOR THESES / R&D / INTERNSHIP	1	2	3	4	5	6
Research & Career						1 1
Bachelor thesis seminar						1 1
Bachelor thesis						1 2
Internship						1 5
Bachelor examination						1 1

C. MANAGEMENT & ENGLISH	1	2	3	4	5	6
Business and Management	2 2		2 3	2 3		
Law		1 1				
English	2 2	2 2	2 2	2 2		

SEMESTER CREDIT UNITS ECTS-CREDITS	24 30	24 30	24 30	23 30	23 30	2 30
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curriculum electrical engineering.

Semester Credit Units | ECTS-Credits

A1. FUNDAMENTALS AND APPLICATIONS: MATHEMATICS AND NATURAL SCIENCES	1	2	3	4	5	6
Mathematics	3 4	3 4				
Physics	3 4	3 4				
Advanced Mathematics			3 4	3 4		

A2. FUNDAMENTALS AND APPLICATIONS: ENGINEERING SCIENCE	1	2	3	4	5	6
Engineering mechanics	2 3	2 3				
Electrical engineering	4 5					
Fundamentals of mechanical engineering	5 6					
Materials science	3 4					
Machine elements		4 5				
Sensors & Signals		5 6				

A3. CORE SUBJECTS: MECHATRONICS	1	2	3	4	5	6
Digital electronics			2 3	3 4	3 4	
Dynamics			4 4	2 3	3 4	
Control engineering			5 6	5 6	4 5	
Electrical machinery					3 4	
Robotics					4 5	

A4. MAJOR IN ELECTRICAL ENGINEERING	1	2	3	4	5	6
Linear electronics		4 5				
Power electronics			3 4			
Embedded systems			3 4			
Simulation methods				3 4		
Communication systems				3 4		
High-frequency systems					3 4	
Product development: electrical engineering					3 4	

B. BACHELOR THESES / R&D / INTERNSHIP	1	2	3	4	5	6
Research & Career						1 1
Bachelor thesis seminar						1 1
Bachelor thesis						1 2
Internship						1 5
Bachelor examination						1 1

C. MANAGEMENT & ENGLISH	1	2	3	4	5	6
Business and Management	2 2		2 3	2 3		
Law		1 1				
English	2 2	2 2	2 2	2 2		

SEMESTER CREDIT UNITS ECTS-CREDITS	24 30	24 30	24 30	23 30	23 30	2 30
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curriculum medical engineering.

Semester Credit Units | ECTS-Credits

A1. FUNDAMENTALS AND APPLICATIONS: MATHEMATICS AND NATURAL SCIENCES	1	2	3	4	5	6
Mathematics	3 4	3 4				
Physics	3 4	3 4				
Mathematics & Numerics			3 4			
A2. FUNDAMENTALS AND APPLICATIONS: ENGINEERING SCIENCE	1	2	3	4	5	6
Engineering mechanics	2 3	2 3				
Electrical engineering	4 5					
Fundamentals of mechanical engineering	5 6					
Materials science	3 4					
Machine elements		4 5				
Sensors & Signals		5 6				
A3. CORE SUBJECTS: MECHATRONICS	1	2	3	4	5	6
Fluid dynamics and acoustics			5 7	3 4		
Materials in medical engineering			2 3			
Finite elements				3 4		
Control engineering for medical engineers				3 4		
Robotics and telemedicine					4 5	
Design of medical devices					4 5	
A4. ELECTRICAL ENGINEERING	1	2	3	4	5	6
Linear electronics		4 5				
Embedded systems			3 4			
Product development: electrical engineering					3 4	
A5. MEDICINE AND MEDICAL ENGINEERING	1	2	3	4	5	6
Prosthetics and biomechanics			3 4			
Fundamentals of medicine			5 6	3 4		
Medical image processing				3 4	3 3	
Medical signal processing				5 5	3 4	
Minimally invasive methods					3 4	
Hospital organisation					3 5	
B. BACHELOR THESES / R&D / INTERNSHIP	1	2	3	4	5	6
Research & Career						1 1
Bachelor thesis seminar						1 1
Bachelor thesis						1 2
Internship						1 5
Bachelor examination						1 1
C. MANAGEMENT & ENGLISH	1	2	3	4	5	6
Business and Management	2 2			2 3		
Law		1 1	2 2	1 1		
English	2 2	2 2		1 1		
SEMESTER CREDIT UNITS ECTS-CREDITS	24 30	24 30	23 30	24 30	23 30	2 30