Semester	Subject	Coefficient	ECTS	Total Workload	Lecture / Tutorials	Lab	Project / Self-directed Study	Private Study				
	Methods / Skills Modules (8 ECTS)											
	Engineering Mathematics	2	4	120	45	-	-	75				
	Probability and Stochastic Processes	2	4	120	45	-	-	75				
1	Algorithms and Programming	hnical COR	E <b>Modul</b>	120	30	30	-	60				
	Computer Networks	2	4	120	40	20	-	60				
	Operating Systems	2	4	120	30	15	-	75				
	Electronic System Design	2	4	120	30	30	20	40				
	Management, Leadership, and Academic Skills Modules (6 ECTS)											
	Engineering Professional Practice	1,5	3	90	30	-	-	60				
	Advanced English for the University 1	1,5	3	90	30	-	-	60				

Semester	Subject	Coefficient	ECTS	Total Workload	Lecture / Tutorials	Lab	Project / Self-directed Study	Private Study				
	Methods / Skills Modules (8 ECTS)											
	Advanced Mathematics for Engineers	2	4	120	25	20	15	60				
	Students must con	mplete 1 cours	e by 3 of	4 ECTS from	those listed l	pelow						
	Numerical Methods	2	4	120	40	20	-	60				
	Optimization Techniques	2	4	120	25	20	-	75				
2	Discrete Mathematics	2	4	120	45	-	-	75				
2	Te	chnical COF	RE Modu	ıles (16 ECT	ſS)							
	Automata, Computability, and Complexity	2	4	120	45	-	-	75				
	Databases and Web Services	1,5	3	90	20	25	20	25				
	Students must complete 3 courses by 6 of 3 ECTS from those listed below											
	Secure and Dependable Systems	1,5	3	90	30	-	-	60				
	Computer Systems Architecture	1,5	3	90	20	25	-	45				

Web Systems Engineering	1,5	3	90	15	30	_	45
Object Oriented Design and Patterns	1,5	3	90	45	_	_	45
Paradigms of Programming	1,5	3	90	25	20	-	45
Linear Systems, Signals & Control	1,5	3	90	30	15	-	45
Managemen	it, Leadership, a	nd Acade	emic Skills M	Iodules (6	ECTS)		
Managemen  Entrepreneurship and Intrapreneurship	t, Leadership, a	and Acade	emic Skills N	<b>10dules (6</b> )	ECTS)	20	40

Semester	Subject	Coefficient	ECTS	Total Workload	Lecture / Tutorials	Lab	Project / Self-directed Study	Private Study				
	Technical CORE Modules (20 ECTS)											
	Mandatory Modules (16 ECTS)											
	Real Time Systems	2,25	4	120	40	20	20	40				
	Embedded System Design	2,25	4	120	15	30	35	40				
	Control Engineering	2,25	4	120	40	20	-	60				
	Advanced Automation System	2,25	4	120	30	30	-	60				
3	Students must co	Elective Modules (4 ECTS)  must complete 1 course by 5 of 4 ECTS from those listed below										
	Advanced Computing Systems	2	4	120	30	30	-	60				
	Measurements and Instrumentation	2	4	120	15	30	-	75				
	Software Architecture	2	4	120	30	15	-	75				
	Artificial Intelligence Techniques	2	4	120	45	-	-	75				
	Mobile Applications Development	2	4	120	15	30	-	75				

Management, Le	eadership, a	nd Acad	emic Skills I	Modules (8	ECTS)		
Developing, Funding and Commercialising Technology	2	4	120	60	-	-	
Academic English for Postgraduates (Engineering)	2	4	120	45	-	-	
F	Projects and	Interns	hips (2 ECT	S)			
Junior Internship	-	2	-	-	-	60	

Semester	Subject	Coefficient	ECTS	Total Workload	Lecture / Tutorials	Lab	Project / Self-directed Study	Private Study				
	Technical CORE Modules (24 ECTS)											
	Mandatory Modules (16 ECTS)											
	Embedded Electronics and Communications	2	4	120	15	30	15	60				
	Modeling and Simulation of Complex Systems	2	4	120	30	30	-	60				
	Soft Computing	2	4	120	45	15	-	60				
	Reconfigurable Computing Design	2	4	120	30	30	-	60				
4	Mandatory Elective Modules (4 ECTS)  Students must complete 1 course by 5 of 4 ECTS from those listed below											
	Data Acquisition and Sensor Networks	2	4	120	15	30	-	75				
	Machine Sensing	2	4	120	30	30	-	60				
	Fault Diagnosis and Fault Tolerant Control	2	4	120	45	-	-	75				
	Networked & Distributed Control Systems	2	4	120	45	-	-	75				
	Power Electronics and Electrical Machines Control	2	4	120	30	30	-	60				
			,									

	Elective	Modules	(4 ECTS)							
Students must complete 1 course by 5 of 4 ECTS from those listed below										
Machine Learning	2	4	120	45	-	-	7.			
Clouds, Grids and Virtualisation	2	4	120	30	15	15	6			
Distributed Systems	2	4	120	30	15	-	7			
Wireless Sensor Networks	2	4	120	25	20	-	7.			
Wireless IoT and Local Area Networks	2	4	120	30	15	-	7.			
Management,	Leadership, a	nd Acad	emic Skills	Modules (6	ECTS)					
IT Project Management	1,5	3	90	30	15	15	3			
Research, Planning and Communication	1,5	3	90	30	-	-	6			

Semester	Subject	Coefficient	ECTS	Total Workload	Lecture / Tutorials	Lab	Project / Self-directed Study	Private Study				
	Technical CORE Modules (16 ECTS)											
		Mana	latory Mod	dules 1 (4 ECT	TS)							
	Robotics Engineering	2,5	4	120	30	15	25	50				
	Students 1	<b>Mandator</b> must complete 1		Modules 1 (4), 5 of 4 ECTS fi	,	d below						
	Control of Complex Systems	2,5	4	120	40	20	-	60				
5	Intelligent Control Systems	2,5	4	120	40	20	-	60				
3	Dynamic Programming & Stochastic Control	2,5	4	120	45	1	-	75				
	Modeling and Control of Hybrid Systems	2,5	4	120	30	15	-	75				
	Model Predictive Control	2,5	4	120	30	15	-	75				
	Students i	<b>Mandator</b> must complete 1		Modules 2 (4)	,	d below						
	Quality Management	2,5	4	120	45	15	20	40				
	Lean Management	2,5	4	120	45	15	20	40				
	Production Planning and Control	2,5	4	120	45	-	15	60				

Logistics and Supply Chain	2,5	4	120	45	-	15	6
Reliability and Maintenance Engineering	2,5	4	120	45	15	20	4
Students	<b>Elo</b> must complete l		<b>Jules (4 ECTS)</b> 5 of 4 ECTS f		d below		
Neural Networks and Deep Learning	2	4	120	30	15	-	,
Computer Vision and Pattern Recognition	2	4	120	30	15	30	
Multi-Agent Systems	2	4	120	45	-	-	,
Intelligent Architectures	2	4	120	20	10	30	(
Quantum Informatics  Managem	2 nent, Leadersh	ip, and A	120 cademic Ski	25	20 (6 ECTS)	-	
	nent, Leadersh	ip, and A		lls Modules (		-	
	nent, Leadersh	ip, and A	cademic Ski	lls Modules (		-	
Managerr  Legal and Ethical Aspects of Computer Science	Mana	ip, and A datory Mod	cademic Ski dules 2 (3 ECT 90 Modules 3 (3	lls Modules ( TS) 45 ECTS)	(6 ECTS)	-	
Managerr  Legal and Ethical Aspects of Computer Science	Mandator	ip, and A datory Mod	cademic Ski dules 2 (3 ECT 90 Modules 3 (3	lls Modules ( TS) 45 ECTS)	(6 ECTS)	- 20	
Managem Legal and Ethical Aspects of Computer Science  Students	1,5  Mandator must complete 1	ip, and A  latory Mod  3  ry Elective  course by	dules 2 (3 ECT 90  Modules 3 (3 4 of 3 ECTS for	lls Modules ( TS)  45  ECTS)  from those liste	(6 ECTS)	-	

Organizational Behavior	1,5	3	90	30	-	20	40			
Projects and Internships (8 ECTS)										
Mandatory Modules 3 (3 ECTS)										
Senior Internship	-	3	90	-	-	90	-			
Students	Mandator must complete 1		<b>Modules 4 (5</b> 4 of 5 ECTS for		d below					
Literature Survey	2,5	5	150	-	-	150	-			
Research Project Computer Science	2,5	5	150	-	-	150	-			
Joint Interdisciplinary Project (JIP)	2,5	5	150	-	-	150	-			
Interdisciplinary Advanced AI Project	2,5	5	150	-	-	150	-			

Semester	Subject	Coefficient	ECTS	Total Workload	Lecture / Tutorials	Lab	Project / Self-directed Study	Private Study		
6	Projects and Internships (30 ECTS)									
	Final Graduate Project	-	30	900	-	-	900	-		