

Group number: 4374-20.02-IT		Study Duration: 01.10.2020 until 31.03.2022				Version: 01.07.2020 (V1)					
Master's Course: Information Technology (M.Eng.) - consecutive -											
Vers. N°	Module / Subject	Type	Duration (weeks per semester)			CP	Examination Forms		Coursework		Value
			1	2	3		Sem	Type	Sem	Type	
	<b>----- Compulsory modules -----</b>										
3464-2	<b>M 1 Information and Coding Theory</b>					8				8	
3464	Information and Coding Theory	L/Exe/Lab	5				1	TPS	1	Te	4
3465	Mathematical and Scientific Methods I						1	WE			4
3466-2	<b>M 2 Transmission Technology</b>					8					8
3466	Transmission Technology	L/Exe/Lab	5				1	TPS	1	Te	4
3467	Mathematical and Scientific Methods II						1	WE			4
3468-2	<b>M 3 DSP in Image Processing</b>					8					8
3469	Image Processing	L/Exe/Lab		5			2	TPS			4
3470	Digital Signal Processing	L/Exe/Lab		5			2	TPS			4
3471-2	<b>M 4 Real-Time Programming</b>					8					8
3472	Real-Time Programming I	L/Exe/Lab		5			2	TPS			
3473	Real-Time Programming II										
3474	<b>M 9 Project</b>					8					8
3474	Project	PW		5			2	PW			
A-1005	<b>M 10 Master's Thesis</b>					26					26
	Master's Thesis	Th			25		3	Th 75% Co 25%			
	<b>----- Elective Modules ----- *</b>										
1075-6	<b>M 5 Embedded Systems</b>					8					8
1075	Embedded Systems	L/Exe/Lab	5	5			1 or 2	TPS			
3475	Integrated Circuits										
2196-5	<b>M 6 Embedded Security</b>					8					8
2196	Embedded Security	L/Exe/Lab	5	5			1 or 2	TPS			
2595	Secure Protocols										
3476-2	<b>M 7 Robotics</b>					8					8
3476	Robotics	L/Exe/Lab	5	5			1 or 2	TPS			
3477	Advanced Control Engineering in Robotics										
3478-2	<b>M 8 Communications Networks</b>					8					8
3478	Communications Networks	L/Exe/Lab	5	5			1 or 2	TPS			
3479	Optical Communications										
	Sum					90					

Vers. N° = Version number of the module/course

#### Exams' Abbreviations:

Co	= Colloquium
TPS	= Technical Problem-Solving
PW	= Project Work
Te	= Test
Th	= Thesis
WE	= Written Exam

#### Rules specific to the course:

##### (1) Entry requirements

- Bachelor's degree or comparable, with 210 CP, required in one of the following areas: Electrical Engineering, Communications Engineering, Information Technology, Technical Computer Science, Control Engineering, Electronics or similar.
- The teaching language is English; Admission requirements for the degree program are English language skills at the level of the TOEFL test or the Cambridge certificate.

##### (2) General characteristics of the course

- Total achievable Credit points (90 CP) for the study duration of 1,5 years. Workload per 1 CP = 25 hours. Every CP achieved contributes percentually to the overall grade of the Master degree.
- Type of study: full time.

##### (3) Specific characteristics of the course

- Exactly three elective modules are required.
- The duration of the Master's Thesis is 25 weeks.
- The thesis and also the colloquium have to be written and presented in the language of the course of study. Under certain circumstances it is possible to apply for an exception. This written application has to be approved and signed by the dean of studies.