TECHNICAL UNIVERSITY "GHEORGHE ASACHI" OF IAŞI
FACULTY OF ELECTRONICS, TELECOMMUNICATIONS AND INFORMATION TEHNOLOGY
Profile: Electronic Engineering, Telecommunications and Information Technologies
Master degree program: Automotive Electronic Control Systems
Type of program: Professional Master
Academic degree: M.Sc.
Duration of study: 2 years
Degree Program: full time
Language: English

Approved
In Senate meeting from .....
Senate President,
Prof. Iulian-Aurelian Ciocoiu, PhD

CURRICULUM

1st Year **2026-2027**

	No.	Name of the discipline	Disc. Code AECS_	Opt.	Form	1st Semester								2nd Semester							
						Assisted Activities * No. hrs. / week /					Act. unassisted. (AND)**	E	K	Assisted Activities * No. hrs. / week /					Act. unassisted. (AND)**	E	K
						C	S	L	P	Pr				C	S	L	P	Pr			
	1	Vehicle Electronic Systems	VES.101	DOB	DS	2		1			93	E	5								
	2	Embedded Signaling, Communication and Networking	ESCN.102	DOB	DS	2		1			93	E	5								
	3	Embedded System Engineering and Testing	ESET.103	DOB	DS									1		1	1		66	E	4
	4	Electronics for Automotive Systems	EAS.104	DOB	DS				3		93	V	5								
	5	Professional Training 1	PT1.105	DOB	DS					4	106	V A/R	6								
	6	Vehicle Control Systems	VCS.106	DOB	DS									1		1			80	E	4
	7	Embedded System Design and Modeling	ESDM.107	DOB	DS	1		1	1		66	E	4								
	8	Programming Embedded Systems 2	PES2.108	DOB	DS									1		1	1		66	E	4
	9	Hardware Development of Automotive Electronic Systems	HDAES.109	DOB	DS									1		1	1		93	E	5
	10	Automotive Power Electronics	APE.110	DOB	DS									2		1			66	E	4
	11	Ethics and academic integrity	EAI.111	DOB	DC									1	1				53	V	3
	12	Professional Training 2	PT2.112	DOB	DS													4	106	V A/R	6
	13	Programming Embedded Systems	PES.113	DOP	DS	1		1			107	E	5								
		Computer Aided Graphics	CAG.113	DOP	DS																
	14	Social Competence & Interpersonal Skills in organizational environment	SCIS.114	DFA	DC	2	1				93	V	5								
	15	Project Management for Automotive Systems	PMAS.115	DFA	DC	2	1				93	V	5								
		Total hours per week, total assessments per semester and total credits per semester for mandatory discipline (MD) and elective discipline (ED)				**6**	**0**	**4**	**4**	**4**	**558**	**4E 1V 1VA/R**	**30**	**7**	**1**	**5**	**3**	**4**	**530**	**5E 1V 1VA/R**	**30**
						14				**4**				**16**				**4**			
						18								**20**							

** Assisted activities are fully assisted (C, S, L, P) and partially assisted (PA) activities and take place for 14 weeks.*
*** Unassisted activities (SI - individual study) are calculated as the total number of hours per year, depending on the number of credit points (24 hours per credit point); exams and arrears are included.*

RECTOR,
Prof. Caşcaval Dan, PhD

DEAN,
Prof. Tărniceriu Daniela, PhD

MASTER DOMAIN COORDINATOR,
Prof. Bozomitu Radu, PhD

HEAD OF DEPARTAMENT,
Assoc. Prof. Aghion Cristian, PhD

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CURRICULUM

2nd Year **2026-2027**

No.	Name of the discipline	Disc. Code AECS_	Opt.	Form	1st Semester								2nd Semester							
					Assisted Activities * No. hrs. / week /					Act. unassisted. (AND)**	E	K	Assisted Activities * No. hrs. / week /					Act. unassisted. (AND)**	E	K
					C	S	L	P	PA				C	S	L	P	PA			
1	Cybersecurity for Automotive Systems	CAS.201	DOB	DS	2		1			93	E	5								
2	Functional Safety Reliability of Embedded Systems	FSRES.202	DOB	DS	1		1			80	E	4								
3	Automotive Electromagnetic Compatibility	AEC.203	DOB	DS	2		1			93	E	5								
4	Signal Processing for Vehicular Technologies	SPVT.204	DOB	DS	1		1	1		66	E	4								
5	Professional Training 3	PT3.205	DOB	DS					12	21	V	7								
6	Professional Training 4	PT4.206	DOB	DS													12	102	V	10
7	Dissertation work	DW.207	DOB	DS													14	344	V	20
8	High Level Embedded Programming for Automotive Systems / Computer Programming and Programming Languages	HLEPAS.208 / CPPL.208	DOP	DS	1		1	1		93	E	5								
	Total hours per week, total assessments per semester and total credits per semester for mandatory discipline (MD) and elective discipline (ED)				7	0	5	2	12	446	5E 1V	30	0	0	0	0	26	446	2V	30
					14				12				0				26			
					26								26							

** Assisted activities are fully assisted (C, S, L, P) and partially assisted (PA) activities and take place for 14 weeks.*
*** Unassisted activities (SI - individual study) are calculated as the total number of hours per year, depending on the number of credit points (24 hours per credit point); exams and arrears are included.*
**** For four-semester master programs.*

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Prof. Caşcaval Dan, PhD

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