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

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

CURRICULUM

1st Year 2026 - 2027

No.	Name of the discipline	Code	Opt.	Form.	1st Semester								2nd Semester							
					No. hrs./week/ discipline						FE	K	No. hrs./week/ discipline						FE	K
					C	S	L	P	Pr	SI			C	S	L	P	Pr	SI		
501	Embedded Architectures and Operating Systems	ITT.EAOS.501	DOB	DS	1		1	1		93	E	5								
502	Advanced Signal Processing Techniques	ITT.ASPT.502	DOB	DS	1		2			93	V	5								
503	Software Engineering and Model Based Design	ITT.SEMBD.503	DOB	DS	2		1			93	E	5								
504	Scripting for Communication Systems	ITT.SCS.504	DOB	DS	1		1			80	E	4								
505	Professional Training 1	ITT.PT1.505	DOB	DS					6	78	V	6								
506	Networking, Cloud Computing and Cybersecurity	ITT.NCCC.506	DOB	DS									1		2			66	E	4
507	Software Defined Radio	ITT.SDR.507	DOB	DS									1		1			80	E	4
508	Mobility and Wireless Technologies	ITT.MWT.508	DOB	DS									2		1			66	E	4
509	Control Systems and Virtual Instrumentation	ITT.CSVI.509	DOB	DS									1		2			66	V	4
510	Smart Sensors and Sensor Networks	ITT.SSSN.510	DOB	DS									2		1			66	V	4
511	Ethics and Academic Integrity	ITT.EAI.511	DOB	DC									1	1				94	V	4
512	Professional Training 2	ITT.PT2.512	DOB	DS													6	78	V	6
513	Object Oriented Software Design	ITT.OOSD.513.1	DOP	DS	2			1		93	E	5								
	Embedded System Design and Modeling	ITT.ESDM.513.2	DOP	DS	2			1												
514	Social Competence & Interpersonal Skills*	ITT.SCI.514	DFA	DC	1			1		80	V	4								
515	Project Management for Information Systems*	ITT.PMIS.515	DFA	DC									1			1		80	V	4
Sum of C, L, P, T / week					7	0	5	2	6	437	4 E 2 V	30	8	1	7	0	6	516	3 E 4 V	30
Total hours per week, total forms of assessment and credits per semester, at DOB and DOP					14								16							

Legend:
DOB – Compulsory discipline; DOP – Optional discipline; DFA – Elective discipline; DF – Fundamental discipline; DS – Specialization discipline; DC – Complementary discipline; C – Course; S – Seminar; L – Laboratory; P – Project; Pr - Practice; SI – Individual study; K – Number of credits; opt. – Optionality category: DOB/DOP/DFA; form. – Formative category: DF/DS/DC; SI – Number of individual study hours per semester; FE – Form of assessment (E – Examination, V – Verification).

Code – structured as follows: acronym of the study programme.course acronym.year of study (5–6).sequence number (AIA.AM.501).

RECTOR,
Prof. Dan Cașcaval, PhD

DEAN,
Prof. Daniela Tărnicoriu, PhD

MASTER DOMAIN COORDINATOR,
Prof. Radu-Gabriel Bozomitu, PhD

HEAD OF DEPARTMENT
Assoc.Prof. Dănuț Burdia, PhD

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Language: English

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In Senate meeting from .....
Senate President,
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CURRICULUM

2nd Year 2026-2027

No.	Name of the discipline	Code	Opt.	Form.	1st Semester								2nd Semester						
					No. hrs./week/ discipline						FE	K	No. hrs./week/ discipline					FE	K
					C	S	L	P	Pr	SI			C	S	L	P	SI		
	[A] 1st Semester TUIASI*																		
601A	Databases, Web Programming and Interfacing	ITT.DWPI.601	DOB	DS	1		1	1		93	V	5							
602A	Machine Learning	ITT.ML.602	DOB	DS	1		1	1		93	E	5							
603A	Hardware Acceleration for Communication Systems	ITT.HACS.603	DOB	DS	1		1	1		93	E	5							
604A	Advanced Programming for Communication Systems	ITT.APCS.604	DOB	DS	1		1	1		93	E	5							
605A	Professional Training 3	ITT.PT3.605	DOB	DS					6	78	V	6							
606A	1. Smart Home and Internet of Things	ITT.SHIT.606.1	DOP	DS	1		1			80	E	4							
	2. Embedded Application Project	ITT.EAP.606.2	DOP	DS															
	[B] 1st Semester INGENIUM Pathway mobility at University of Skövde*																		
601B	Introduction to Data Science	IT803A	DOB	DS	4						E	15							
602B	Principles of Privacy, Information Security and Cybersecurity	IT811A	DOB	DS	2	3					E	7.5							
603B	Information Security Management	IT813A	DOB	DS	2	1					E	7.5							
607	Dissertation Work	ITT.DW.607	DOB	DS												6	456	V	20
608	Design Activity for Dissertation Development	ITT.DADD.608	DOB	DS												6	186	V	10
Sum of C, L, P, T / week					5	0	5	4	6	530	4E 2V	30	0	0	0	12	642	2V	30
Total hours per week, total forms of assessment and credits per semester, at DOB and DOP					14								12						

Legend:
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*Students complete either curriculum alternative [A] or curriculum alternative [B]. The INGENIUM Pathway mobility semester [B] replaces the standard TUIASI first semester [A].

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