

UNIVERSITY OF ORADEA
FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY
Cycle's Master Degree

Master's Degree Program: **ADVANCED CONTROL SYSTEMS**

Fundamental Field: **ENGINEERING SCIENCES**

Master's Field: **SYSTEMS ENGINEERING**

Secondary Master Field:

Master Type: **professional**

Duration of studies / no. of credits: **4 semestre/120 credits**

Type of education: **Full-time learning (IF)**

Valid from academic year
 2024-2025
 Beginning with 1st year of study

CURRICULUM **
Year of study I

Code	Disciplines*	Type	Sem. I [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
IETI-0477	Internet technologies	THD	2	-	2	-	56	Ex	6	94	
IETI-0411	Advanced electrical drives	THD	2	-	1	-	42	Ex	5	83	
IETI-0058	Information Security Management	SYD	2	-	-	2	56	Ex	6	94	
IETI-1153	Professional practice I	THD	-	-	-	12	168	Vp	8	32	
TOTAL			6	-	3	14	322		25	303	
OBLIGATORII OPȚIONALĂ											
IETI-0455	Manufacturing automation systems	THD	2	-	1	-	42	Ex	5	83	
IETI-0452	Mobile robots. Software architecture and applications	THD	2	-	1	-	42	Ex	5	83	
TOTAL			2	-	1	-	42		5	83	

Code	Disciplines*	Type	Sem. II [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
IETI-0437	Intelligent methods for process control	THD	2	-	2	-	56	Ex	5	69	
IETI-0483	Computer vision and image processing	THD	2	-	2	-	56	Ex	5	69	
IETI-0420	Advanced control for unconventional processes	THD	1	-	-	1	28	Ex	5	97	
IETI-1109	Ethics and integrity in scientific research	SYD	1	-	-	-	14	Vp	2	36	
IETI-1154	Professional practice II	THD	-	-	-	11	154	Vp	8	46	
TOTAL			6	-	4	12	308		25	317	
OBLIGATORII OPȚIONALĂ											
IETI-0450	Industrial networks	THD	2	-	2	-	56	Ex	5	69	
IETI-0446	Man-machine interface design	THD	2	-	2	-	56	Ex	5	69	
TOTAL			2	-	2	-	56		5	69	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;

THD - Thoroughgoing Disciplines; SYD - Synthesis Disciplines;

Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of department ,
Professor Dr. Helga SILAGHI

RECTOR,
Professor Dr. BUNGĂU Constantin

DEAN,
Associate Professor dr. GERGELY Eugen Ioan

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study

**CURRICULUM **
Year of study II**

Code	Disciplines*	Type	Sem. III [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0989	Innovative technological projects	SYD	2	-	-	1	42	Ex	5	83	
IETI-0428	Automatic system quality engineering	SYD	2	-	2	-	56	Ex	5	69	
IETI-0464	Hybrid control systems	THD	2	-	2	-	56	Ex	6	94	
IETI-0946	Project development technology	SYD	1	-	-	2	42	Ex	6	108	
IETI-1155	Professional practice III	THD	-	-	-	12	168	Vp	8	32	
	TOTAL		7	-	4	15	364		30	386	

Code	Disciplines*	Type	Sem. IV [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0906	Scientific research for dissertation development	THD	-	-	-	16	224	Vp	20	276	
IETI-0908	Dissertation development	THD	-	-	-	10	140	Vp	10	110	
	TOTAL		-	-	-	26	364		30	386	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;

THD - Thoroughgoing Disciplines; SYD - Synthesis Disciplines;

Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

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