

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

Master's Degree Program: **ADVANCED SYSTEMS IN ELECTRICAL ENGINEERING**

Fundamental Field:

Master's Field: **ELECTRICAL ENGINEERING**

Secondary Master Field:

Master Type:

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

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

Valid from academic year  
2021-2022

Beginning with 1<sup>st</sup> 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					
	<b>OBLIGATORII IMPUSE</b>										
IETI-1187	Technical electromagnetism	SYD	2	-	2	1	70	Ex	5	55	
IETI-1188	Interference and electromagnetic protection	THD	2	-	-	-	28	Ex	4	72	
IETI-1189	Interference and electromagnetic protection - Project	THD	-	-	-	1	14	Vp	2	36	
IETI-1190	Modern command and control systems for alternating current electric machines	THD	2	-	-	1	42	Ex	4	58	
IETI-1191	Analysis and modeling of microwave systems for industrial applications	THD	2	-	2	1	70	Ex	5	55	
IETI-1192	Professional practice / Practice I	THD	-	-	-	-	90	Vp	10	160	
	<b>TOTAL</b>		<b>8</b>	<b>-</b>	<b>4</b>	<b>4</b>	<b>314</b>		<b>30</b>	<b>436</b>	

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					
	<b>OBLIGATORII IMPUSE</b>										
IETI-1193	Purchasing systems and virtual instrumentation	SYD	2	-	2	2	84	Ex	6	66	
IETI-0278	Modern electrothermal systems	SYD	2	-	-	-	28	Ex	3	47	
IETI-0714	Modern electrothermal systems - Project	SYD	-	-	-	2	28	Vp	2	22	
IETI-0261	Special issues of electrotechnics	SYD	2	-	-	1	42	Ex	3	33	
IETI-1194	Research management	THD	1	-	-	-	14	Ex	2	36	
IETI-1195	Research management - Project	THD	-	-	-	1	14	Vp	2	36	
IETI-1109	Ethics and integrity in scientific research	SYD	1	-	-	-	14	Vp	2	36	
IETI-1196	Design professional practice / Practice II	THD	-	-	-	-	90	Vp	10	160	
	<b>TOTAL</b>		<b>8</b>	<b>-</b>	<b>2</b>	<b>6</b>	<b>314</b>		<b>30</b>	<b>436</b>	

**Legend:** C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;  
 THD - Thoroughgoing Disciplines; SYD - Synthesis Disciplines; AKD - Advanced Knowledge Disciplines; UO - University Choice; DR - Disciplines relevant to the students' training in a certain field, available according to the options of the institution.  
 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 departament ,  
 Associate professor Ph.D eng. Francisc -  
 Ioan HATHAZI**

**RECTOR,  
 Professor Dr. BUNGĂU Constantin**

**DEAN,  
 Professor dr. GORDAN Ioan Mircea**

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**Cycle's Master Degree**

Master's Degree Program: **ADVANCED SYSTEMS IN ELECTRICAL ENGINEERING**

Fundamental Field:

Master's Field: **ELECTRICAL ENGINEERING**

Secondary Master Field:

Master Type:

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

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

2020-2021  
 Beginning with 1<sup>st</sup> year of  
 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					
	<b><i>OBLIGATORII IMPUSE</i></b>										
IETI-0983	Optimization in electrical engineering	SYD	2	-	-	-	28	Ex	3	47	
IETI-0984	Optimization in electrical engineering - project	SYD	-	-	-	2	28	Vp	2	22	
IETI-0183	Computerised electrical equipments	SYD	2	-	2	-	56	Ex	5	69	
IETI-0228	Conversion and energy use systems	SYD	2	-	-	-	28	Ex	3	47	
IETI-0723	Conversion Systems and energy usage - Project	SYD	-	-	-	2	28	Vp	2	22	
IETI-1198	Techniques and equipment for energy quality	THD	2	-	2	-	56	Ex	5	69	
IETI-1197	Professional design practice / Practice III	THD	-	-	-	-	90	Vp	10	160	
	<b>TOTAL</b>		<b>8</b>	<b>-</b>	<b>4</b>	<b>4</b>	<b>314</b>		<b>30</b>	<b>436</b>	

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					
	<b><i>OBLIGATORII IMPUSE</i></b>										
IETI-0030	Scientific research for the dissertation paper	THD	-	-	-	13	182	Vp	20	318	
IETI-0725	Elaboration of the dissertation thesis	THD	-	-	-	10	140	Ex	10	110	
	<b>TOTAL</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>23</b>	<b>322</b>		<b>30</b>	<b>428</b>	

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