

**UNIVERSITY OF ORADEA**  
**FACULTY OF ENERGY ENGINEERING AND INDUSTRIAL MANAGEMENT**  
**Cycle's Master Degree**

Master's Degree Program: **ENERGY SYSTEMS MANAGEMENT**

Fundamental Field: **ENGINEERING SCIENCES**

Master's Field: **ENERGY ENGINEERING**

Secondary Master Field:

Master Type: **research**

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>											
IEMI-0739	Sustainable development and energy competitiveness	SYD	2	2	-	-	56	Ex	5	69	
IEMI-0065	Energy market and exchange	THD	2	1	-	-	42	Vp	5	83	
IEMI-0141	Efficient energy conversion technologies	THD	2	-	1	1	56	Ex	6	94	
IEMI-0129	Integrated energy-environment management	SYD	1	2	-	-	42	Ex	5	83	
IEMI-0789	Ethics and integrity in scientific research	SYD	1	-	-	-	14	Ex	1	11	
IEMI-0852	Professional practice I	THD	-	-	-	-	154	Vp	8	46	
<b>TOTAL</b>			<b>8</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>364</b>		<b>30</b>	<b>386</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>											
IEMI-0740	Energy systems engineering	SYD	2	1	-	-	42	Ex	5	83	
IEMI-0075	Simulation and optimisation of energy systems I	SYD	2	-	1	-	42	Ex	5	83	
IEMI-0060	Modelling of energy processes	THD	2	1	1	-	56	Ex	6	94	
IEMI-0134	Renewable energy sources	SYD	2	-	2	-	56	Ex	6	94	
IEMI-0853	Professional practice II	THD	-	-	-	-	168	Vp	8	32	
<b>TOTAL</b>			<b>8</b>	<b>2</b>	<b>4</b>	<b>-</b>	<b>364</b>		<b>30</b>	<b>386</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 department ,**  
**Associate Professor Dr. Cristina HORA**

**RECTOR,**  
**Professor Dr. BUNGĂU Constantin**

**DEAN,**  
**Associate Professor Dr.**  
**HORA Cristina Mirela**