

**UNIVERSITY OF ORADEA**  
**FACULTY OF ENERGY ENGINEERING AND INDUSTRIAL MANAGEMENT**  
**Cycle's Master Degree**  
 Master's Degree Program: **RENEWABLE ENERGY**  
 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  
 2024-2025  
 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-0138	Utilisation of geothermal energy technologies	THD	2	-	1	1	56	Ex	6	94	
IEMI-0065	Energy market and exchange	SYD	2	1	-	-	42	Vp	5	83	
IEMI-0789	Ethics and integrity in scientific research	SYD	1	-	-	-	14	Ex	1	11	
IEMI-0891	Research practice I	THD	-	-	-	-	154	Vp	8	46	
<b>TOTAL</b>			<b>7</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>322</b>		<b>25</b>	<b>303</b>	
<b>OBLIGATORII OPŢIONALE</b>											
IEMI-0129	Integrated energy-environment management	SYD	1	2	-	-	42	Ex	5	83	
IEMI-0252	Ecology and the Environmental Protection	SYD	1	2	-	-	42	Ex	5	83	
<b>TOTAL</b>			<b>1</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>42</b>		<b>5</b>	<b>83</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	THD	2	-	1	-	42	Ex	5	83	
IEMI-0139	Exploitation of solar energy technologies photovoltaic applications	THD	2	1	1	-	56	Vp	6	94	
IEMI-0892	Research practice II	THD	-	-	-	-	168	Vp	8	32	
<b>TOTAL</b>			<b>6</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>308</b>		<b>24</b>	<b>292</b>	
<b>OBLIGATORII OPŢIONALE</b>											
IEMI-0125	Energy Engineering for Buildings	THD	2	1	-	1	56	Ex	6	94	
IEMI-0140	Exploitation of solar energy technologies - thermal applications	THD	2	1	-	1	56	Ex	6	94	
<b>TOTAL</b>			<b>2</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>56</b>		<b>6</b>	<b>94</b>	

**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 ,  
 Lecturer Rancov Nicolae, PhD, Eng.**

**RECTOR,  
 Professor Dr. BUNGAU Constantin**

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