

CURRICULUM – 1st YEAR 2024-2025

UNIVERSITY			George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mures								PROGRAMME OF STUDY				Energy Systems Management							
FACULTY			Faculty of Engineering and Information Technologies								TITLE AWARDED				Master degree							
FIELD OF STUDY			Power Engineering								OFFICIAL LENGTH OF THE PROGRAMME OF STUDY				2 years							
LEVEL OF QUALIFICATION			7								NUMBER OF ECTS/SECT CREDITS				120 + 10 Preparation of the Disertation Paper							
No.	Educational activities Courses	Code/ Type Of courses	1st semester								2nd semester								Total academic year			
			1st module (7 weeks)				2nd module(7 weeks)				3rd module (7 weeks)				4th module (7 weeks)							
			Curs	SLP	ECTS	Verif. form	Curs	SLP	ECTS	Verif. form	Curs	SLP	ECTS	Verif. form	Curs	SLP	ECTS	Verif. form	Curs	SLP	Indiv. stud.	ECTS
1.	Energy and environmental management	MMSE101/DA	2	2 _L	3	E													14	14	47	3
2.	Energy Market	MMSE102/DS	4	2 _S	4	C													28	14	58	4
3.	Information systems in power systems	MMSE103/DS	4	2 _L	4	E													28	14	58	4
4.	Power cogeneration systems	MMSE104/DS					4	4 _L	5	E									28	28	69	5
5.	Advanced acquisition and signal processing systems	MMSE105/DA					2	4 _L	4	E									14	28	58	4
6.	Professional practice I	MMSE106/DS	-	10 _P	-	-	-	12 _P	10	C									-	154	96	10
7.	Robust control systems	MMSE107/DA									4	2 _{LP}	4	C					28	14	58	4
8.	Power Systems Reliability and Maintenance	MMSE108/DA									2	4 _L	4	C					14	28	58	4
9.	Ethics and academic integrity	MMSE109/DS									2	-	3	E					14	-	61	3
10.	Project management in power systems	MMSE110/DS													2	2 _L	3	E	14	14	47	3
11.	Modern technologies for electricity transmission and distribution	MMSE111/DA													4	2 _L	3	E	28	14	33	3
12.	Critical Infrastructures in Energetic Systems	MMSE112/DS													4	2 _L	3	C	28	14	33	3
13.	Professional training 2	MMSE113/DS									-	12		-	-	10	10	C	-	154	96	10
GENERAL TOTAL		13 Compulsory	10	6+10	11	2E, 1C	6	8+12	19	2E;1C	8	6+12	11	2C;1E	10	6+10	19	2E;2C	238	490	772	60
TOTAL HOURS/ECTS			15+11 hours/week; 30 ECTS								15+11 hours/week; 30 ECTS								728			

CURRICULUM – 2nd YEAR 2024-2025

UNIVERSITY	<i>George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș</i>	PROGRAMME OF STUDY	<i>Energy Systems Management</i>
FACULTY	<i>Faculty of Engineering and Information Technologies</i>	TITLE AWARDED	<i>Master degree</i>
FIELD OF STUDY	<i>Power Engineering</i>	OFFICIAL LENGTH OF THE PROGRAMME OF STUDY	<i>2 years</i>
LEVEL OF QUALIFICATION	<i>7</i>	NUMBER OF ECTS/SECT CREDITS	<i>120 + 10 Preparation of the Disertation Paper</i>

No.	Educational activities Courses	Code/ Type Of courses	1st semester								2nd semester								Total academic year			
			1st module(7 weeks)				2nd module (7 weeks)				3rd module(7 weeks)				4th module (7 weeks)							
			Curs	SLP	ECTS	Verif. form	Curs	SLP	ECTS	Verif. form	Cur s	SLP	ECTS	Verif. form	Cur s	SLP	ECTS	Verif. form	Curs	SLP	Indiv. stud.	ECTS
1.	Intelligent Electric Networks	MMSE201/DS	4	4 _{LP}	6	E												28	28	94	6	
2.	The impact of distributed generation in SEE*	MMSE202/DA	4	4 _{LP}	6	E												28	28	94	6	
3.	Quality System Management **	MMSE203/DS					2	2 _S	4	E								14	14	58	4	
4.	Energy Management and Energy Efficiency	MMSE204/DA					4	4 _P	4	E								28	28	58	4	
5.	Professional training 3	MMSE205/DS	-	12 _P	-	-	-	12 _P	10	C								-	168	82	10	
6.	Advanced Scientific Research leading to the Dissertation	MMSE206/DA									4	2 _S	5	E				28	14	83	5	
7.	Practice for the Dissertation Paper	MMSE207/DS									-	11	-	-	-	14	12	C	-	175	125	12
8.	Preparation of the Disertation Paper	MMSE208/DS									-	11	-	-	-	14	13	C	-	175	150	13
GENERAL TOTAL		6 Compulsory, 2 optional	8	8+12	12	2E	6	6+12	18	2E;1C	4	2+22	5	1E		14+14	25	2C	126	630	744	60
TOTAL HOURS/ECTS			14+12 hours/week; 30 ECTS								3 + 24 hours/week; 30 ECTS								756			