Energy Management and Energy Efficiency

Four year study (8 semester) which is evaluated with 240 ECTS.

1.year – I. semester

No.	Courses	Hours per week			ECTS Courses
		P	S	V	
1	Mathematics I	4	-	3	8
2	Statics	2	-	3	5
3	Graphic Communications	2	-	2	4
4	Basic Informatics	2	-	3	5
5	Materials	2	-	2	5
6	Foreign Language I	2	1	-	3
	Total in semester	**14**	**1**	**13**	**30**

1. year – II. semestar

No.	Courses	Hours per week			ECTS Courses
		P	S	V	
1	Mathematics II	4	-	3	8
2	Kinematics	2	-	1	4
3	Programming	2	-	2	4
4	Basic of electrotechnics I	3	-	2	5
5	Material Resistance	2	-	2	5
6	Foreign Language II	2	-	1	4
	Total in semester	**15**	**-**	**12**	**30**

2. year – III. semestar

No.	Courses	Hours per week			ECTS Courses
		P	S	V	
1	Mathematics III (Numeric Mathematics and Statistics)	4	-	3	8
2	Dynamics and Oscillation	2	-	2	4
3	Machine Elements I	2	-	2	4
4	Basic of electrotechnics II	3	-	2	5
5	Basic of electroenergetics	2	-	2	5
6	Physics [1)]	2		1	4
	Total in semester	**14**		**13**	**30**

2. year – IV. semestar

No.	Courses	Hours per week			ECTS Courses
		P	S	V	
1	Termodinamika	2	-	3	6
2	Mehanika fluida	2	-	2	5
3	Elementi strojeva II	2	-	2	5
4	Električni strojevi	3	-	1	5
5	Osnovni elementi elektroenergetskih sistema	2	-	2	5
6	Kemija	2		1	4
	Ukupno u semestru	**16**		**13**	**30**

3. year – V. semestar

No.	Courses	Hours per week			ECTS Courses
		P	S	V	
1	Engineering measurements	2	-	3	6
2	Engineering projecting	2	-	3	5
3	Heat and Mass Transfer	2	-	2	4
4	Ecology	2	-	1	4
5	Electrical Mains	2	-	2	5
6	Electrical Drives	2	-	1	3
7	Engineering Economics	2	-	1	3
	Total in semester	**14**	**-**	**13**	**30**

3. year – VI. semestar

No.	Courses	Hours per week			ECTS Courses
		P	S	V	
1	The Energy Science: Principles and Technology Influence	2	-	2	7
2	Energy Consumption and Efficiency	2	-	2	4
3	Energy Efficiency in the Construction Industry	2	-	2	5
4	Power Plants	2	-	2	5
5	Transport energy	2	-	2	5
6	Quality of Electric Energy	2	-	2	4
	Total in semester	**12**		**11**	**30**

4. year – VII. semestar

No.	Courses	Hours per week			ECTS Courses
		P	S	V	
1	Electrical Lightening	2	-	2	8
2	Measurements and Simulation of Energetic Processes	2	-	2	4
3	Managing Energy Consumption	2	-	2	5
4	Smart Electrical Installations	2	-	2	5
5	Electric Efficiency of Electrical Machines and Devices	2	-	2	4
6	Project	2		3	4
	Total in semester	**12**		**13**	**30**

4. year – VIII. semestar

No.	Courses	Hours per week			ECTS Courses
		P	S	V	
1	Heating and Air conditioning	2	-	2	5
2	Cooling Devices	2	-	2	5
3	Electrical Efficiency in Industry	2	-	3	6
4	Environment Protecting	2	-	2	5
5	Practice	-	-	-	5
6	Final Thesis	-	-	-	4

	Total in semester	**8**		**9**	**30**