

Renewable Energy Sources
(8 semesters, four - year study), 240 ECTS

1. year – I. semester

No.	Courses	Hours per week			ECTS Credits
		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. semester

No.	Courses	Hours per week			ECTS Credits
		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. semester

No.	Courses	Hours per week			ECTS Credits
		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. semester

No.	Courses	Hours per week			ECTS Credits
		P	S	V	
1	Thermodynamics	2	-	3	6
2	Fluid Mechanics	2	-	2	5
3	Machine Elements II	2	-	2	5
4	Electric machines	3	-	1	5
5	Basic elements of electroenergetic systems	2	-	2	5
6	Chemistry	2	-	1	4
	Total in semester	16		13	30

3. year – V. semester

No.	Courses	Hours per week			ECTS Credits
		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. semester

No.	Courses	Hours per week			ECTS Credits
		P	S	V	
1	Energy Science: Principles and the Impact of Technology	3	-	2	8
2	Small Power Plants and Wind Turbines	2	-	2	5
3	Power Plants	2	-	2	6
4	Management and Exploitation of Electroenergetic system	2	-	2	6
5	Renewable and Secondary Energy Sources	2	-	2	5
	Total in semester	11	-	10	30

4. year – VII. semester

No.	Courses	Hours per week			ECTS Credits
		P	S	V	
1	Power Plants Projecting	2	-	3	8
2	Conversion of Electrical Energy	3	-	2	6
3	Distribution Networks	3	-	2	6
4	The Electricity Market	3	-	2	3
5	Project	2		3	4
	Total in semester	13	-	12	30

4 year – VIII. semester

No.	Courses	Hours per week			ECTS Credits
		P	S	V	
1	The Impact of Distributed Generation on Power Grid	3	-	2	6
2	Projecting of Distributed Sources and Connection on Electricity Grid	2	-	3	5
3	Energetic Eletronics	2	-	2	5
4	Digital Electronic	2	-	2	5
5	Switchyards and Substantions	2	-	2	5
6	Final Thesis	-	-	-	4
	Total in semester	11	-	11	30

