

Thermotechnics

(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	Heating and Air Conditioning	2	-	2	7
2	Cooling Devices	2	-	2	4
3	District Heating Systems	2	-	2	5
4	Theory of Ignition and Combustion	2	-	2	5
5	Energy efficiency in Construction Industry	2	-	2	5
6	Renewal and Secondary Energy Sources	2	-	2	4
	Total in semester	12		12	30

4 year – VII. semester

No.	Courses	Hours per week			ECTS Credits
		P	S	V	
1	Boilers	2	-	2	8
2	Pump fans and Turbo-compressors	2	-	2	4
3	Measuring and simulation of Energy Processes	2	-	2	5
4	Smart Electrical Installations	2	-	2	5
5	Energy Consumption and Efficiency	2	-	2	5
6	Project	2	-	3	3
	Total in semester	12		13	30

4 year – VIII. semester

No.	Courses	Hours per week			ECTS Credits
		P	S	V	
1	Maintaining	2	-	2	6
2	Projecting of Heating and Air Conditioning Systems	2	-	3	5
3	Maintaining and Examination of Electrical Installations	2	-	2	5
4	Pressure Vessels and Piping	2	-	2	5
5	Energy Efficiency of Electrical Appliances and Machines	2	-	2	5
6	Final Thesis	-	-	-	4
	Total in semester	10	-	11	30