

POWER ENGINEERING 2019/20 - B.Sc. Level

No.	Symbol	Name of the course	LC	TU	LB	PR	ECTS
Semester 1							
1	ANW101	Algebra and geometry		3			4
2	ANW102	Calculus 1	2	3			7
3	ANW104	Engineering Physics	1	2			3
4	ANW105	Engineering Graphics	1			1	2
5	AHES11	HES 1_1 (Philosophy)	2				2
6	ANW106	Computer Science I	2		2		5
7	ANW107	Materials 1	2				2
8	ANW108	Mechanics 1	1	1			3
9	ANW109	Environment Protection	2				2
10	ANW72	Library training		1			0
12	ANWF1	Physical Education and Sports		2			0
		TOTAL	13	12	2		30
Semester 2							
13	ANW90	Calculus 2	2	2			5
14	ANW113	Electric Circuits 1	2	1			3
15	AHES12	HES 1_2 (Economy)	2				2
16	ANW114	Computer Science 2	1		1		2
17	ANW115	Mechanics 2	2	2			5
18	ANW116	Thermodynamics 1	2	2			5
19	ANWF2	Physical Education and Sports 2		2			0
20	ANW117	Mechanics of structures 1	2	1			4
21	ANPL1/A NJ1	Polish Language 1/Foreign Language 1		2			2
23	ANW118	Engineering graphics - CAD 1				2	2
		TOTAL	13	12	1	2	30
Semester 3							
24	ANW91	Calculus 3	1	2			3
25	ANW122	Fluid Mechanics 1	2	1			4
26	ANW123	Basics of automation and control 1	2	1			4
27	ANW124	Mechanical design 1	1	1			3
28	ANWF3	Physical Education and Sports 3		2			0
29	ANK317	Electric Circuits 2			2		2
30	ANK405	Theory of heat machines	2	1			3
31	ANK411	Thermodynamics 2			2		3
32	ANK413	Thermodynamics 3	1	1			3
33	ANK423	Heat transfer 1	1	1			3
34	ANPL2/A NJ2	Polish language 2/Foreign language 2		2			2
		TOTAL	10	12	4		30
Semester 4							
35	ANW135	Electronics 1	1	1			2
36	ANJ3	Foreign language 3 (plus C1 exam in English)		2			2
37	ANW125	Machine design 2	1	1			3
38	ANWF4	Physical Education and Sports 4		2			0
39	ANK380	Combustion and fuels	1	1			3
40	ANK316	Electronics 2			1		1

41	ANK333	Electric machines I	1	1			3
42	ANK340	Fluid mechanics 2			1		1
43	ANK351	Measurements and theory of experiments	1	1			2
44	ANK341	Fluid mechanics 3	1	1			2
45	ANK376	Fundamentals of Management	2				2
46	ANK381	Electric Power Systems	2	1			5
47	ANK406	Theory of flow machines	2	1			3
48	ANK424	Heat transfer 2			1		1
		TOTAL	12	12	3		30
Semester 5							
49	ANJ4	Foreign language 4		2			2
50	ANWF5	Physical Education and Sports 5		2			0
51	ANK322	Marketing	2				2
52	ANK422	Electric machines 2			1		1
53	ANK364	Fundamentals of operation and maintenance	2	1			5
54	ANK329	Electric Power Systems 2			2		3
55	ANK390	Energy systems	1	1			3
56	ANS510	Chemistry of water	2				2
57	ANS603	Energy sources and conversion	1	1			2
58	ANS549	Internal combustion engines	2				2
59	ANS539	Rotodynamic pumps and pumping systems		2			2
60	ANS521	Steam boilers	1	1			2
61	ANS577	Turbines	2				2
62	AELEC1	Elective course 1	2				2
		TOTAL	15	10	3		30
Semester 6							
63	ANW126	Physics I	2				3
64	ANW127	Intermediate Engineering Project				4	6
65	ANWF6	Physical Education and Sports 6		2			0
66	ANK443	Energy Management	1	1			2
67	ANS534	Renewable energy sources	2	1			3
68	ANS555	Control of heat processes	2				2
69	ANS540	Heat pumps	1	1			2
70	ANS524	Power Engineering machines and systems 1			2		2
71	ANS516	RES - Solar Engineering 1	2				2
72	ANS566	Technologies of environmental protection	2				2
73	ANS550	Thermal Power Stations	2				2
74	AELEC2	Elective course 2	2	1			4
		TOTAL	16	6	2	4	30
Semester 7							
75	ANW128	Engineering Diploma Seminar				2	2
76	ANW136	Engineering Diploma Thesis				12	15
77	ANS625	Energy market	2				3
78	ANS527	Energy storage	2				2
79	ANS576	Gas turbines and gas-steam systems	2				3
80	ANS525	Power Engineering machines and systems 2			2		2
81	ANS517	RES - Solar Engineering 2			1		1
82	AELEC3	Elective course 3	2				2

			TOTAL	8		3	14	30
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