KAUNAS UNIVERSITY OF TECHNOLOGY

FACULTY OF MECHANICS AND MECHATRONICS

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NUCLEAR ENERGY (BSc. Study program)

Contact person : A. Adomavicius

Duration 4 years

240 ECTS

Qualification: BSc in Energy

1 term

	Studijų dalykas	National credits	ECTS
1	Fundamentals of technologies (P175B301)	4	6
2	Engineering graphics (T210B303)	4	6
3	Professional communication and terminology (H592B103)	4	6
4	Mathematics (P130B001)	4	6
5	Sports (S273B001)	0	0
6	Free to choose 2010 (NL, IS)	4	6
	Total:	**20**	**30**

2 term

	Studijų dalykas	National credits	ECTS
1	Sports (S273B002)	0	0
2	Philosophy (H120B031)	4	6
3	Mathematics (P130B002)	4	6
4	Physics (P190B101)	4	6
5	Fundamentals of information technologies (P175B302)	2	3
6	Statics (P190B002)	2	3
7	Computer aided drawing (T210B301)	2	3
8	Fundamentals of law (S110B010)	2	3
	Total:	**20**	**30**

3 term

	Subject	National credits	ECTS
1	Applied physics (P001B207)	4	6
2	PPhysics (P230B202)	4	6
3	Chemistry (P401B401)	4	6
4	Kinematics and dynamics (P190B003)	4	6
5	Material mechanics (P190B504)	4	6
	Total:	**20**	**30**

4 term

	Subject	National credits	ECTS
1	Probability theory and statistics (P160B003)	4	6
2	Fundamentals of management of energy enterprises (S190B105)	2	3
3	Electrical circuits (T190B270)	4	6
4	Applied thermodynamics (T200B113)	4	6
5	Applied hydromechanics (T210B223)	2	3
6	Resistance of construktive elements (T210B501)	2	3
7	Material engineering (T450B102)	2	3

8	Užsienio kalbų alternatyvos (B1-B2 lygiai) 2010	0	0
	Total:	**20**	**30**

5 term

	Studijų dalykas	National credits	ECTS
1	Fundamentals of machines 1 (T210B403)	4	6
2	Applied electrotechnique (T190B373)	2	3
3	Electricity technologies in nuclear power plant (T140B101)	2	3
4	Thermohydromechanics (P240B100)	4	6
5	Thermodynamic for engineers(T200B126)	4	6
6	Foreign languages (B1-B2 2010	0	0
7	Special subjects	4	6
	Total:	**20**	**30**

6 term

	Subjects	National credits	ECTS
1	Heat and mass transfer (T140B102)	4	6
2	Heating, ventillation and air conditioning (T200B111)	2	3
3	Regulation of technological processes (T125B006)	2	3
4	Protection of biosphere (T270B005)	2	3
5	Foreign languages (C1) 2010	4	6
6	Special subjects	6	9
	Total:	**20**	**30**

7 semestras

	Studijų dalykas	National credits	ECTS
1	Micro and macroeconomy (S180B302)	4	6
2	Project work (T160B115)	4	6
3	Free to choose 2010 (NL, IS)	4	6
4	Special subjects	8	12
	Total:	**20**	**30**

8 term

	Studijų dalykas	National credits	ECTS
1	Human Safety (T500B002)	2	3
2	Professional training (T000B180)	10	15
3	BSc thesis (T000B143)	8	12
	Total:	**20**	**30**

Special subjects

	Subject	National credits	ECTS
Nuclear power plants			
1	Engineering systems of NPP (T160B103)	4	6
2	Nuclear fuel cycle (T160B104)	4	6
3	Nuclear and neutron physics (P220B001)	2	3
4	Nuclear reactors (T160B102)	2	3
5	Radiation measurements and radiation protection (T160B113)	2	3
6	Theory of nuclear reactors (T160B010)	4	6
Nuclear energy engineering			
1	Radioactive environmental pollution (T160B109)	2	3
2	Quality management (S189B410)	4	6
3	Heat engines (T455B100)	2	3
4	Economy planning (S184B001)	4	6
5	Installations of nuclear reactorsi (T160B116)	4	6
6	Energy systems (T140B106)	2	3