

CURRICULUM

Bachelor's degree program in Mechanical engineering and technologies as of 2020/2021 academic year

ECTS Subject code T BpMTT NO													
- T – type of course: B for BEng, M for MEng;													
- I - IV semester – fundamental subjects - professional field 5.1. Machine engineering;													
p - additional symbol for Plovdiv Branch													
- MTT – specialty “Mechanical engineering and technologies” in Bulgarian;													
- No – number of the subject;													
Lectures (L), Tutorials (Tut.), Labs (Lab.), Auditorium Total (AT), Self-Study (SS), Exam (E), Continuous Assessment (CA) Semester Project (SP) Semester Assignment (course work) (SA)													
№	Code	SUBJECT	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
SEMESTER I													
1	MAT12	Mathematics I	30	30	0	60	150	210	1				7
2	PHY01	Physics	45	15	30	90	120	210	1				7
3	CHE01	Chemistry	30	0	15	45	105	150		1			5
4	CCE23	Informatic and communication technologies	30	0	45	75	165	240	1			1	8
5	LNG01	Foreign language I	0	30	0	30	30	60		1			2
6	SPR01	Sport	0	0	0	0	30	30		1			1
Total			135	75	90	300	600	900	3	3	0	1	30
SEMESTER II													
7	MAT22	Mathematics II	30	30	0	60	120	180	1				6
8	ENG01	Material sciene	45	0	45	90	120	210	1			1	7
9	MEC01	Mechanics I	30	15	15	60	150	210	1			1	7
10	EEA21	Electrical engineering and electronics	30	0	30	60	90	150		1			5
11	LNG02	Foreign language II	0	30	0	30	30	60		1			2
12	PRC01	Practicum	0	0	0	0	60	60		1			2
13	SPR02	Sport	0	0	0	0	30	30		1			1
Total			135	75	90	300	600	900	3	4	0	2	30
SEMESTER III													
14	MAT31	Mathematics III	30	30	0	60	120	180	1				6
15	MEC02	Mechanics II	30	0	30	60	150	210	1			1	7
16	MEC03	Strenght of materials	45	0	30	75	135	210	1			1	7
17	ENG02	Engineering graphics	30	0	45	75	105	180		1		1	6
18	CCE24	Internet technologies	15	15	0	30	60	90		1			3
19	SPR03	Sport	0	0	0	0	30	30		1			1
Total			150	45	105	300	600	900	3	3	0	3	30
SEMESTER IV													
20	MEC04	Machine elements	45	15	30	90	120	210	1				7
21	MEC05	Mechanicas of fluids,hydro and pneumatic drive	45	0	30	75	105	180	1				6
22	ENR01	Thermodynamics and thermo transfer	30	0	30	60	90	150	1				5
23	MEC06	Theory of mechanisms and machnes	30	15	15	60	120	180	1			1	6
24	MEC07	Machine elements-project	0	0	0	0	90	90				1	3
25	PRC02	Practicum	0	0	0	0	60	60		1			2
26	SPR04	Sport	0	0	0	0	30	30		1			1
Total			150	30	105	285	615	900	4	2	1	1	30

№	Code	SUBJECT	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
SEMESTER V													
27	BpMTT01	Cutting of materials	30	0	30	60	90	150	1				5
28	BpMTT02	Cutting tools	30	0	15	45	75	120	1				4
29	BpMTT03	Metal cutting machines	30	0	15	45	105	150	1				5
30	BpMTT04	Technology of casting technology	30	0	30	60	90	150	1				5
31	BpMTT05	Unconvetional technologies	30	15	0	45	75	120		1			4
32	BpMTT06	Manufacturing materials technology	30	15	15	60	90	150		1			5
33	BpMTT07	Cutting tools - project	0	0	0	0	60	60			1		2
Total			180	30	105	315	585	900	4	2	1	0	30
SEMESTER VI													
34	BpMTT08	Mechanical engineering technology	45	0	30	75	75	150	1				5
35	BpMTT09	Drive and control of production technics	30	0	30	60	90	150	1				5
36	BpMTT10	Metrology and measuring equipment	30	0	15	45	105	150		1			5
37	BpMTT11	Plastic strain	30	0	15	45	105	150	1				5
38	BpMTT12	Technical safety	30	15	0	45	75	120		1			4
39	BpMTT13	Compulsory optional subject (List 1***)	30	15	0	45	75	120	1				4
40	BpMTT14	Project by subject BpMTT13	0	0	0	0	60	60			1		2
Total			195	30	90	315	585	900	4	2	1	0	30
SEMESTER VII													
41	BpMTT15	Materials testing	30	0	30	60	90	150		1			5
42	BpMTT16	Metal heat treatment	30	0	30	60	90	150	1				5
43	BpMTT17	Mechanical design automation	30	30	0	60	90	150	1				5
44	BpMTT18	Welding technology	30	0	15	45	105	150	1				5
45	BpMTT19	Engineering economy	15	15	0	30	60	90		1			3
46	BpMTT20	Compulsory optional subject (List 2***)	30	0	30	60	90	150	1				5
47	BpMTT21	Project by subject BpMTT20	0	0	0	0	60	60			1		2
SEMESTER VIII													
48	BpMTT19	Technology processes automation	15	0	15	30	120	150	1				5
49	BpMTT20	Compulsory optional subject (List 3***)	30	0	30	60	90	150		1			5
50	BpMTT21	Compulsory optional subject (List 4***)	15	0	15	30	120	150		1			5
51	BpMTT22	Compulsory optional subject (List 5***)	30	0	20	50	100	150	1				5
52	BpMTT23	Diploma work designing	0	0	0	0	300	300	Defense of diploma thesis			10	
Total			90	0	80	170	730	900	2	2	0	0	30

*Remark: Subjects BpMTT12.1, BpMTT18.1, BpMTT20.1, BpMTT20.2, BpMTT21.1 and BpMTT22.1 form module "Material Science and Technologies"

**Remark: Subjects BpMTT12.2, BpMTT18.2, BpMTT20.3, BpMTT21.2 and BpMTT22.2 form module "Technology of Machine Building and Metal Cutting Machines"

LIST OF THE COMPULSORY OPTIONAL SUBJECTS

List 1		ECTS = 5
1	Special methods of casting	BpMTT12.1
2	Metal cutting machines II	BpMTT12.2
List 2		ECTS = 5
1	Technology of plastic strain of metals	BpMTT18.1
2	Mechanical engineering technology II	BpMTT18.2
List 3		ECTS = 5
1	Technological processes, programming and adjustment of Computer Numeric Control metal cutting machines	BpMTT20.1
2	Microstructure of materials analyse methods	BpMTT20.2
3	Programming and adjustment of Computer Numeric Control metal cutting machines	BpMTT20.3
List 4		ECTS = 5
1	Coating technological processes	BpMTT21.1
2	Tool manufacturing technology	BpMTT21.2
List 5		ECTS = 5
1	Welding constructions	BpMTT22.1
2	Technological equipment	BpMTT22.3

LIST OF THE FACULTATIVE SUBJECTS

№	Code	SUBJECT	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
SEMESTER V													
1	FaSPR05	Sport	0	0	0	<i>0</i>	30	30		1			1
2	FaBpMT T01	Specialty english	0	30	0	30	30	60		1			2
SEMESTER VI													
1	FaSPR06	Sport	0	0	0	<i>0</i>	30	30		1			1
2	FaBpMT T02	Project management(in english)	15	0	30	45	45	90		1			3
SEMESTER VII													
1	FaSPR07	Sport	0	0	0	<i>0</i>	30	30		1			1
SEMESTER VIII													
1	FaSPR08	Sport	0	0	0	<i>0</i>	30	30		1			1