

CURRICULUM

Bachelor's degree program in Mechanical Engineering and Technologies, part time

ECTS Subject code T p MTT 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	15	15	0	30	180	210	1				7
2	PHY01	Physics	25	10	15	50	160	210	1				7
3	CHE01	Chemistry	15	0	10	25	125	150		1			5
4	CCE23	Informatic and communication technologies	15	0	25	40	200	240	1			1	8
5	LNG01	Foreign language I	0	15	0	15	45	60		1			2
6	PRC11	Practicum	0	0	0	0	30	30		1			1
Total			70	40	50	160	740	900	3	3	0	1	30
SEMESTER II													
7	MAT22	Mathematics II	15	15	0	30	150	180	1				6
8	ENG01	Material sciene	25	0	25	50	160	210	1			1	7
9	MEC01	Mechanics I	15	10	10	35	175	210	1			1	7
10	EEA21	Electrical engineering and electronics	15	0	15	30	120	150		1			5
11	LNG02	Foreign language II	0	15	0	15	45	60		1			2
12	PRC12	Practicum	0	0	0	0	90	90		1			3
Total			70	40	50	160	740	900	3	3	0	2	30
SEMESTER III													
13	MAT31	Mathematics III	15	15	0	30	150	180	1				6
14	MEC02	Mechanics II	15	0	15	30	180	210	1			1	7
15	MEC03	Strenght of materials	25	0	15	40	170	210	1			1	7
16	ENG02	Engineering graphics	15	0	25	40	140	180		1		1	6
17	CCE24	Internet technologies	10	10	0	20	70	90		1			3
18	PRC13	Practicum	0	0	0	0	30	30		1			1
Total			80	25	55	160	740	900	3	3	0	3	30
SEMESTER IV													
19	MEC04	Machine elements	25	10	15	50	160	210	1				7
20	MEC05	Mechanicas of fluids,hydro and pneumatic drive	25	0	15	40	140	180	1				6
21	ENR01	Thermodynamics and thermo transfer	15	0	15	30	120	150	1				5
22	MEC06	Theory of mechanisms and machnes	15	10	10	35	145	180	1			1	6
23	MEC07	Machine elements-project	0	0	0	0	90	90			1		3
24	PRC14	Practicum	0	0	0	0	90	90		1			3
Total			80	20	55	155	745	900	4	1	1	1	30

№	Code	SUBJECT	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
SEMESTER V													
25	BpMTT01	Cutting of materials	15	0	15	30	120	150	1				5
26	BpMTT02	Cutting tools	15	0	10	25	95	120	1				4
27	BpMTT03	Metal cutting machines	15	0	10	25	125	150	1				5
28	BpMTT04	Technology of casting technology	15	0	15	30	120	150	1				5
29	BpMTT05	Unconvectional technologies	15	10	0	25	95	120		1			4
30	BpMTT06	Manufacturing materials technology	15	10	10	35	115	150		1			5
31	BpMTT07	Cutting tools - project	0	0	0	0	60	60			1		2
Total			90	20	60	170	730	900	4	2	1	0	30
SEMESTER VI													
32	BpMTT08	Mechanical engineering technology	25	0	15	40	110	150	1				5
33	BpMTT09	Drive and control of production technics	15	0	15	30	120	150	1				5
34	BpMTT10	Metrology and measuring equipment	15	0	10	25	125	150		1			5
35	BpMTT11	Plastic strain	15	0	10	25	125	150	1				5
36	BpMTT12	Technical safety	15	10	0	25	95	120		1			4
37	BpMTT13	Compulsory optional subject (List 1*)	15	10	0	25	95	120	1				4
38	BpMTT14	Project by subject BpMTT13	0	0	0	0	60	60			1		2
Total			100	20	50	170	730	900	4	2	1	0	30
SEMESTER VII													
39	BpMTT15	Materials testing	15	0	15	30	120	150		1			5
40	BpMTT16	Metal heat treatment	15	0	15	30	120	150	1				5
41	BpMTT17	Mechanical design automation	15	15	0	30	120	150	1				5
42	BpMTT18	Welding technology	15	0	10	25	125	150	1				5
43	BpMTT19	Engineering economy	10	10	0	20	70	90		1			3
44	BpMTT20	Compulsory optional subject (List 2*)	15	0	15	30	120	150	1				5
45	BpMTT21	Project by subject BpMTT20	0	0	0	0	60	60			1		2
Total			85	25	55	165	735	900	4	2	1	0	30
SEMESTER VIII													
46	BpMTT22	Technology processes automation	10	0	10	20	130	150	1				5
47	BpMTT23	Compulsory optional subject (List 3*)	15	0	15	30	120	150		1			5
48	BpMTT24	Compulsory optional subject (List 4*)	10	0	10	20	130	150		1			5
49	BpMTT25	Compulsory optional subject (List 5*)	15	0	10	25	125	150	1				5
50	BpMTT26	Diploma work designing	0	0	0	0	300	300	Defense of diploma thesis			10	
Total			50	0	45	95	805	900	2	2	0	0	30

*Remark: Subjects BpMTT13.1, BpMTT20.1, BpMTT23.1, BpMTT23.2, BpMTT24.1 и BpMTT25.1 form module "**Material Science and Technologies**"

*Remark: BpMTT13.2, BpMTT20.2, BpMTT23.3, BpMTT24.2 и BpMTT25.2 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	
СЕМЕСТЪР I													
1	FaSPR01	Sport	0	0	0	0	30	30		1			1
СЕМЕСТЪР II													
1	FaSPR02	Sport	0	0	0	0	30	30		1			1
СЕМЕСТЪР III													
1	FaSPR03	Sport	0	0	0	0	30	30		1			1
СЕМЕСТЪР IV													
1	FaSPR04	Sport	0	0	0	0	30	30		1			1
СЕМЕСТЪР V													
1	FaSPR05	Sport	0	0	0	0	30	30		1			1
2	FaBpMTT01	Specialty english	0	15	0	15	45	60		1			2
СЕМЕСТЪР VI													
1	FaSPR06	Sport	0	0	0	0	30	30		1			1
2	FaBpMTT02	Project management(in english)	10	0	15	25	65	90		1			3
СЕМЕСТЪР VII													
1	FaSPR07	Sport	0	0	0	0	30	30		1			1
СЕМЕСТЪР VIII													
1	FaSPR08	Sport	0	0	0	0	30	30		1			1