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**Endorsed:**

**Rector: Prof. Marin Marinov**



## **ECTS curriculum**

**Master's programme: Engineering Design**

**Professional Field: 5.13 General Engineering**

**Speciality: Engineering Design, Master**

**Form of training: full-time**

**Approved with an Academic Council Record**

№3/29.12.2020

**Approved with a Programme Department Record**

№1/21.10.2020

**Professional Qualification**

According to the legislation

**Qualification Level: Master**

**Specific Requirements for admission (прием)**

- Completed Bachelor's degree, in order of the field of arts or general engineering

**Procedure in recognition of of prior learning**

According to the Regulations of the EPU for the recognition of training periods

**Qualification requirements and qualification rules**

To acquire the qualification, 60 credits are required, of which 26 ECTS are from compulsory disciplines, 28 ECTS are from optional disciplines and 6 ECTS for a thesis.

## I. TIME SCHEDULE

Year	Auditoria Workload	Examination sessions	Practical Training	Practice	Industrial/Field Placement	Work on Diploma Thesis	Vacations	Total (Number of Weeks)
I	30	9	-	-	-	-	11	52
II	30	9	-	-	-	-	11	52

## II. CURRICULUM

ECTS code: **IDE**

- **IDE**– “Engineering Design“
- **GC** – General University Courses;
- **T** – type of degree: B - “Bachelor”, M - “Master”;
- **No** – serial number of the course;

Lectures (L), Seminar Exercises (SE), Lab Exercises (LE), Practical Training/Fieldwork (PT), Auditoria Workload (total) (AT), Self-Study (SS) per week

Exam (E), Continuous Assessment (CA); Project Work (PW), Course Work (CW)/Course Tasks (CT)

### SEMESTER I

№	Course	Weekly Workload							Assessment				Code	ECT S
		L	SE	LE	PT	AT	SS	Total	E	CA	PW	CT		
1	Integrated Design and Manufacturing Systems	2	0	2	-	4	3	7	0	1	0	0	<b>MIDE01</b>	5
2	Boutique design	2	0	2	-	4	4	8	1	0	0	0	<b>MIDE02</b>	5
3	Design of living environment	2	0	2	-	4	4	8	1	0	0	0	<b>MIDE03</b>	4
4	Compulsory elective engineering course (List 1)	2	0	2	-	4	5	9	1	0	0	1	<b>MIDE04</b>	4
5	Compulsory elective engineering course (List 2)	2	0	2	-	4	5	9	0	1	1	0	<b>MIDE05</b>	4
6	Negotiating design work and copyright	2	1	0		3	6	9	0	1	0	0	<b>MIDE06</b>	4
7	Elective course (List 3)	2	0	2	-	4	5	9	0	1	0	0	<b>MIDE07</b>	4
<b>Total</b>		<b>14</b>	<b>1</b>	<b>12</b>	<b>-</b>	<b>27</b>	<b>32</b>	<b>59</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>1</b>		<b>30</b>

Elective Courses:

1-1	Design and manufacture for the living environment	<b>MIDE04.1</b>
1-2	Computer aided design of clothing	<b>MIDE04.2</b>
1-3	Visual language	<b>MIDE04.3</b>
1-4	Transport equipment	<b>MIDE04.4</b>
1-5	3D Technology	<b>MIDE04.5</b>

2-1	Design of household products	<b>MIDE05.1</b>
2-2	Clothing design	<b>MIDE05.2</b>
2-3	Packaging design	<b>MIDE05.3</b>
2-4	Exterior design for vehicles	<b>MIDE05.4</b>
2-5	Artistic visualization	<b>MIDE05.5</b>

3-1	Adhesion Bonding and Coatings	<b>MIDE07.1</b>
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	in Engineering Design	
3-2	Packaging design	<b>MIDE07.2</b>

## SEMESTER II

№	Course	Weekly Workload							Assessment				Code	ECT S
		L	SE	LE	PT	AT	SS	Total	E	CA	PW	CT		
8	Design expertise	2	0	2	-	4	8	12	0	1	0	0	<b>MIDE08</b>	6
9	Compulsory elective engineering course 2 (List 4)	2	0	2	-	4	8	12	1	0	0	1	<b>MIDE09</b>	6
10	Compulsory elective engineering course 2 (List 5)	2	0	2	-	4	8	12	1	0	0	0	<b>MIDE10</b>	6
11	Decorative and exhibition coatings in the design	2	2	0		4	8	12	1	0	0	0	<b>MIDE11</b>	6
12	Diploma Project	0	0	0	-	0	30	30	0	0	1	0	<b>MIDE12</b>	6
	<b>Total</b>	<b>8</b>	<b>2</b>	<b>4</b>	<b>-</b>	<b>16</b>	<b>32+30</b>	<b>48+30</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>		<b>30</b>

Elective courses:

4-1	Energy systems for living environment	<b>MIDE09.1</b>
4-2	Manufacturing technologies for clothing	<b>MIDE09.2</b>
4-3	Information interface	<b>MIDE09.3</b>
4-4	Energy systems for vehicles	<b>MIDE09.4</b>
4-5	Three-dimensional modeling	<b>MIDE09.5</b>

5-1	Design of means of production	<b>MIDE10.1</b>
5-2	Accessory design	<b>MIDE10.2</b>
5-3	Work environment design	<b>MIDE10.3</b>
5-4	Interior design for vehicles	<b>MIDE10.4</b>
5-5	Contemporary design styles	<b>MIDE10.5</b>

Notes:

- Courses 1.1, 2.1, 4.1, 5.1 form Master's programme „Design of industrial products ";  
Courses 1.2, 2.2, 4.2, 5.2 form Master's programme „Textile and clothing design ";  
Courses 1.3, 2.3, 4.3, 5.3 form Master's programme „Design of advertising products and packaging ";  
Courses и 1.4, 2.4, 4.4, 5.4 form Master's programme „Design of vehicles ";  
Courses 1.5, 2.5, 4.5, 5.5 form Master's programme“ Design of three-dimensional environments“.
- Project work in I semester can be accepted as a basis for a thesis
- Semester II includes several courses in a shortened period /10 weeks/, followed by the preparation of a thesis.
- The most suitable semester for "mobility" at a partner university is the II semester.

## III. BASIC PARAMETERS OF THE CURRICULUM

Semester	Weekly Workload							Semester Workload				Assessment			
	L	SE	LE	PT	AT	SS	Total	L	SE	LE	PT	E	CA	PW	CT

I	14	1	12	-	27	32	59	210	15	180	-	3	3	0	2
II	8	2	4	-	16	32+30	48+30	80	20	40	-	3	4	1	1
<b>Total</b>	<b>22</b>	<b>3</b>	<b>16</b>	<b>-</b>	<b>43</b>	<b>64+30</b>	<b>107+30</b>	<b>290</b>	<b>35</b>	<b>220</b>	<b>-</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>3</b>

1. Term of study – 1 year, 2 semesters
  - Auditoria Workload
  - 2.1 Total – **545** hours
  - 2.2 (L) Lectures – **290** hours
  - 2.3 (SE) Seminar Exercises – **35** hours
  - 2.4 (LE) Lab Exercises – **220** hours
  - 2.5 (PT) 5 Practical Training/Fieldwork - **0** hours
2. Total number of courses – **12**
  - 3.1 Compulsory – **6**
  - 3.2 Elective – **5**
  - 3.3 Diploma Thesis - **1**
3. Assessment
  - 4.1 (E) Exams – **6**
  - 4.2 (CA) Continuous Assessment – **7**
  - 4.3 (PW) Project Works – **1**
  - 4.4 (CT) Coursetasks – **3**

Head of the Programme: .....

Prof. S. Draganov