



# Technical University of Varna

## Curriculum

Professional orientation: **GENERAL ENGINEERING**

Educational and qualification degree: **BACHELOR**

Major: **INDUSTRIAL DESIGN**

Professional qualification: **ENGINEER DESIGNER**

Form of study: **FULL-TIME**

Term of study: **4 years / 8 semesters**

No	Subject Name	Types of Term Control				Auditorium Load					Unsupervised Load	Total Work Load	ECTS credits	
		Exam	Continuous Assessment	Course Project	Pass / Accepted	Lectures	Seminars			Laboratory Exercises				Total
							Seminars	Course project	Assignment					
1	Drawing - Part 1		*			30				30	60	115	175	7
2	Applied Geometry and Engineering Graphics		*			30				30	60	90	150	6
3	Mathematics	*				30	30				60	115	175	7
4	Physics	*				30	15				45	105	150	6
5	English - Part 1				*		30				30	30	60	2
6	<i>Elective Subject</i>				*							30	30	1
a	Specialized Sport Activities - Part 1													
b	Sport and Social Adaptation - Part 1													
7	Practical Training - Part 1				*							30	30	1
<b>1 Semester Total:</b>		<b>2</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>120</b>	<b>75</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>255</b>	<b>515</b>	<b>770</b>	<b>30</b>
8	Drawing - Part 2		*			30				30	60	90	150	6
9	Modelling		*			30				30	60	90	150	6
10	Technical Documentation		*			30				30	60	75	135	5
11	Material Science and Materials Technology	*				30				30	60	75	135	5
12	Informatics		*			15				30	45	75	120	4
13	Machines Science		*			30				30	60	75	135	5
14	English - Part 2				*		30				30	30	60	2
15	<i>Elective Subject</i>				*							30	30	1
a	Specialized Sport Activities - Part 2													
b	Sport and Social Adaptation - Part 2													
16	Practical Training - Part 2				*							30	30	1
<b>2 Semester Total:</b>		<b>1</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>165</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>180</b>	<b>375</b>	<b>570</b>	<b>945</b>	<b>35</b>
17	Drawing - Part 3		*			30				30	60	90	150	6
18	Colour Science		*			30				30	60	90	150	6
19	Ergonomic Design	*				30				30	60	75	135	5
20	Fundamentals of Computer Design		*			30			15	30	75	75	150	6
21	Company Management		*			30				30	60	75	135	5
22	English - Part 3				*		30				30	30	60	2
23	<i>Elective Subject</i>				*							30	30	1
a	Specialized Sport Activities - Part 3													
b	Sports Management - Part 1													
24	Practical Training - Part 3				*							30	30	1
<b>3 Semester Total:</b>		<b>1</b>	<b>4</b>	<b>0</b>	<b>3</b>	<b>150</b>	<b>30</b>	<b>0</b>	<b>15</b>	<b>150</b>	<b>345</b>	<b>495</b>	<b>840</b>	<b>32</b>

No	Subject Name	Types of Term Control				Auditorium Load					Unsupervised Load	Total Work Load	ECTS credits	
		Exam	Continuous Assessment	Course Project	Pass / Accepted	Lectures	Seminars			Laboratory Exercises				Total
							Seminars	Course project	Assignment					
25	Computer 3D Design		*			30				30	60	75	135	5
26	Typography and Font		*			30				30	60	75	135	5
27	Theory of Composition	*				30				30	60	90	150	6
28	Formshaping		*			30				30	60	90	150	6
29	History of Art and Design	*				30				30	60	90	150	6
30	<i>Elective Subject</i>				*							30	30	1
a	Specialized Sport Activities - Part 4													
b	Sports Management - Part 2													
31	Practical Training - Part 4				*						30	30	30	1
<b>4 Semester Total:</b>		<b>2</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>150</b>	<b>300</b>	<b>480</b>	<b>780</b>	<b>30</b>
32	Design of Silicate Forms		*			30				30	60	75	135	5
33	Industrial Design - Part 1	*				30				30	60	90	150	6
34	Industrial Design - Project			*				30			30	30	60	2
35	Computer Animation	*				30				30	60	90	150	6
36	Electrical Engineering and Electronics		*			30				30	60	75	135	5
37	Graphic Design		*			30				30	60	90	150	6
38	<i>Elective Subject</i>		*			30				30	60	75	135	5
a	Artistic Processing of Metals													
b	Industrial Graphics													
c	Jewelry Design													
<b>5 Semester Total:</b>		<b>2</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>180</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>180</b>	<b>390</b>	<b>525</b>	<b>915</b>	<b>35</b>
39	Industrial Design - Part 2	*				30				30	60	115	175	7
40	Art Design		*			30				30	60	115	175	7
41	Art Design - Project			*				30			30	30	60	2
42	<i>Elective Subject</i>		*			30				30	60	90	150	6
a	Multimedia Design													
b	3D Digitalization													
c	Computer Modelling													
43	Modern Design Technologies		*			30				30	60	115	175	7
44	Specialized Practice				*						90	90	90	3
<b>6 Semester Total:</b>		<b>1</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>120</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>120</b>	<b>270</b>	<b>555</b>	<b>825</b>	<b>32</b>
45	Interior Design		*			30				30	60	115	175	7
46	Interior Design - Project			*				30			30	30	60	2
47	<i>Elective Subject</i>		*			30				30	60	115	175	7
a	Fundamentals of Marketing													
b	Intellectual Property Rights													
c	Trade Law													
48	Printing Technologies	*				15				30	45	130	175	7
49	Design of Urban Environment		*			30				30	60	115	175	7
<b>7 Semester Total:</b>		<b>1</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>105</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>120</b>	<b>255</b>	<b>505</b>	<b>760</b>	<b>30</b>
50	Techniques and Technologies in Applied Arts		*			30				30	60	90	150	6
51	TAA - Project			*				30			30	30	60	2
52	Marketing Communications	*				30				30	60	90	150	6
53	<i>Elective Subject</i>		*			30				30	60	90	150	6
a	Design of Children's Environment													
b	Interactive Design													
<b>8 Semester Total:</b>		<b>1</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>90</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>90</b>	<b>210</b>	<b>300</b>	<b>510</b>	<b>20</b>
<b>Total for all courses of education:</b>		<b>11</b>	<b>26</b>	<b>4</b>	<b>12</b>	<b>1080</b>	<b>135</b>	<b>120</b>	<b>15</b>	<b>1050</b>	<b>2400</b>	<b>3945</b>	<b>6345</b>	<b>244</b>

<b>Facultative Subjects</b>														
1.	Business and Entrepreneurship				*		30				30	30	60	2
2.	Time Management				*		30				30	30	60	2
3.	Team Management				*		30				30	30	60	2
4.	Creativity and Methods for Generating New Ideas				*		30				30	30	60	2

Types of Graduation	Semester	Unsupervised Load	ECTS credits
Diploma Thesis Preparation	<b>8</b>	<b>300</b>	<b>10</b>
Diploma Thesis Defense			

**Approved by the Academic Board of TU-Varna:**

Protocol № 17 / 01.06.2020, № 30 / 08.03.2021

Modified with Protocol № 50 / 30.05.2022

**Valid from 2021/2022 academic year**

Head of Department of Industrial Design:

/Prof. Plamen Bratanov, PhD/

Dean of Faculty:

/Assoc. Prof. Eng. I. Hadjidimov, PhD/