

Transilvania University of Braşov, Romania

Study program: Industrial Design (in English)

Faculty **Product Design and Environment**
 Study program (Curriculum) **Industrial Design (in English)**

Study period **4 years (bachelor)**
 Academic year structure **2 semesters (14 weeks per semester)**
 Examination sessions (two) **winter session (January/February)**
summer session (June/July)

Courses per years

Year I

No. crt.	Course	Code	Semester I					Semester II				
			C	S	L	P	Cred	C	S	L	P	Cred
1	Mathematical Analysis	MAT1	3	2			4					
2	Linear Algebra, Analytical Geometry	MAT2	2	2			4					
3	Technical Drawing and Computer Graphics I	DTIF	2		2		4					
4	Computer Programming and Programming Languages I	IDPC1	2		2		5					
5	Descriptive Geometry	GEOD	2		1		4					
6	Physics	FIZ1	2		2		4					
7	Materials Science and Engineering	STMA						4		2		6
8	Special Mathematics	MASP						2	2			5
9	Technical Drawing and Computer Graphics II	DTI2						2		2		5
10	Computer Programming and Programming Languages II	IDPC2						2		2		5
11	Mechanics	MEC1						3	2			4
12	Artistic Drawing	IDDS								2		2
13	French Language	LF01/ LF02	1	1			3	1	1			3
14	Sports	EF01/EF02		1			1		1			1

Year II

No. crt.	Course	Code	Semester III					Semester IV				
			C	S	L	P	Cred	C	S	L	P	Cred
1	Chemistry	CHIM	2		1		4					
2	Processing Technologies	IDDMA08	2		1		4					
3	Strength of Materials I	REZ1	2	2	1		6					
4	Electrotechnics and Applied Electronics	ELEA	3		2		4					
5	Product Design Basics	BDP	2		3		6					
6	3D Modelling	IDMODE	2		2		4					
7	Strength of Materials II	REZ2						3	1	1		5
8	Fluid Mechanics	MEFM						2		1		3
9	Machine Elements I	IDORM1						2		1	1	4
10	Numerical Methods in Engineering	IDMNI						2		2		4
11	Tolerances and Dimensional Control	TOCD						1		2		4
12	Mechanisms	IDMECA						3		1	2	5
13	Practical work 90 hours	IDPr04										3
14	French Language	LF03/ LF04	1	1			2	1	1			2

Year III

No. crt.	Course	Code	Semester V					Semester VI				
			C	S	L	P	Cred	C	S	L	P	Cred
1	Company Management	IDECOG	1	1			3					
2	Machine Elements II	IDORM2	2	1	1	2	5					
3	Heat Engineering and thermal machines	TERM	2		1		4					
4	Special Materials	IDMS05	1		2		4					
5	Product Design Specifications	IDSPD5	2			2	5					
6	Finite Element Analysis	IDMEF5	2		2		5					
7	Design of Mechatronic Products	IDMDP5	2			2	4					
8	Actuation, Command and Control of Mechanical Systems	IDACC6						3		1	2	7
9	Aesthetics and Ergonomics	IDEE06						2			2	4
10	Modelling	IDMa06						2		1		3
11	Conceptual Design	IDDC06						2			2	4
12	Artistic Drawing	IDDA06								3		2
13	Practical Work 90 hours	IDPr06										3
14	Colour in Product Design	IDCDP6						2		2		4
15	Design History and Culture	IDICD6						2		1		3

Year IV

No. crt.	Course	Code	Semester VII					Semester VIII				
			C	S	L	P	Cred	C	S	L	P	Cred
1	Computer Aided Shape Modelling in Design	MAF07	2		1	1	4					
2	Embodiment Design	DC07	2			2	4					
3	Computer Aided Modelling of Mechanical Systems	MAS07	3		2	1	6					
4	Form-giving in Design	CFD07	1		2		3					
5	Graphic Design	IDDG7	2			1	5					
6	Creativity and Innovation in Design	CID08						2		1		3
7	Products Promotion	PP08						2			2	4
8	Virtual Prototyping	PV08						2		1	2	5
9	Web-design	CDP08						2		1		3
10	Project Management	MP08						1	1			2
11	Detail Design	PD08						2			2	4
12	Project (10 weeks x 2 hours + 4 weeks x 26 hours)	IDPrII									2	3
13	Practical work (10 weeks x 6 hours)	Pr08										3
14	Product Design for Solar Energy Conversion	CES07	2		1		4					
15	Eco-design and Products Recycling	RP07DI	2			1	4					
16	Package Design	DA08						1			2	3