

Transilvania University of Braşov, Romania

Study program: Industrial Design (in English)

Faculty:	Product Design and Environment
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 (C= course; S = seminar; L = laboratory; P = project)

1st Year

No. crt.	Course	Code	1 st Semester					2 nd Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Mathematical Analysis	MAT1	2	2			4					
02	Chemistry	CHIM	2		1		4					
03	Technical Drawing and Computer Graphics I	DTIF	2		2		4					
04	Computer Programming and Programming Languages I	IDPC1	2		2		4					
05	Descriptive Geometry	GEOD	2		1		4					
06	Physics	FIZ1	2		2		4					
07	Industrial Design Fundamentals I	IDDI	1	1			3					
08	Materials Science and Engineering I	STMA						4		2		6
09	Linear Algebra, Analytical and Differential Geometry	MAT2						2	2			4
10	Technical Drawing and Computer Graphics II	DTI2						2		2		4
11	Computer Programming and Programming Languages II	IDPC2						2		2		4
12	Mechanics	MEC1						3	2			6
13	Artistic Drawing	IDDS								2		3
14	French Language	LF01/ LF02	1	1			3	1	1			3
15	Sports	EF01/EF02		1			1		1			1

2nd Year

No. crt.	Course	Code	3 rd Semester					4 th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Special Mathematics	MASP	2	2			4					
02	Measurement Techniques and Systems	TOCD	2		2		4					
03	Strength of Materials I	REZ1	2	2	1		5					
04	Electrotechnics	ELEA	2		2		5					
05	Industrial Design Fundamentals II	BDP	1		1		3					
06	Technical Drawing and Computer Graphics III	IDMODE	2		2		4					
07	Communication skills - Ethics	IDCOM	1	1			2					
08	Strength of Materials II	REZ2						3	1	1		4
09	Fluid Mechanics	MEFM						2		2		3
10	Machine Elements I	IDORM1						2		1	1	4
11	Numerical Methods	IDMNI						2		2		4
12	Quality Management	IDMC						1	1			3

13	Mechanisms I	IDMECA						3		1	2	5
14	Practical work 90 hours	IDPr04										4
15	French Language	LF03/LF04	1	1			3	1	1			3
16	Sports	EF03/EF04		1			1		1			1

3rd Year

No. crt.	Course	Code	5 th Semester					6 th Semester					
			C	S	L	P	Cred	C	S	L	P	Cred	
01	Manufacturing Technologies and Cutting Tools	IDTASA	2		1		3						
02	Machine Elements II	IDORM2	2	1	1	2	6						
03	Heat Engineering and Thermal Machines	TERM	2		1		3						
04	Materials Science and Engineering II (Special Materials)	IDMS05	1		2		3						
05	Conceptual Design I	IDSPD5	2			2	5						
06	Finite Element Analysis	IDMEF5	2		2		5						
07	Aesthetics and Ergonomics	IDEE05	2			2	5						
08	Computer Aided Shape Modelling in Design	ID MAF06						2		1	1	4	
09	Mechanisms II (Computer Aided Modelling)	MAS06						3		2	1	6	
10	Form-giving in Design I (Mock-up making)	IDMa06						2		1		3	
11	Conceptual Design II	IDDC06						2		1		3	
12	Conceptual Design II project	IDDC06P									2	2	
13	Practical Work 90 hours	IDPr06										4	
14	Study of Colour for Design	IDCDP6						2		3		5	
15	Design (semiotics)	IDDS06						2		1		3	

4th Year

No. crt.	Course	Code	7 th Semester					8 th Semester					
			C	S	L	P	Cred	C	S	L	P	Cred	
01	Actuation, command and control of mechanical systems	IDACC7	3		3		7						
02	Embodiment Design	DC07	2				3						
03	Embodiment Design - project	DC07Pr				2	2						
04	Design of Mechatronic Products	IDMDP7	2			2	4						
05	Form-giving in Design II	CFD07	1		2		3						
06	Graphic Design	IDDG7	2			1	3						
07	Creativity and Innovation in Design (10 weeks)	CID08						2		1		3	
08	Innovation Management in Product Design (10 weeks)	MINOVID						2			2	3	
09	Virtual Prototyping (10 weeks)	PV08						2		1	2	4	
10	Web-design (10 weeks)	CDP08						2		1		3	
11	Project Management (10 weeks)	MP08						1	1			2	
12	Detail Design (10 weeks)	PD08						2			2	4	
13	Diploma Project (14 weeks x 4 hours)	IDPrD									4	4	
14	Practical work for diploma project (4 weeks x 24 hours)	Pr08										4	
15	Product Design for Solar Energy Conversion	CES07	2		1		4						
16	Eco-design and Products Recycling	RP07	2		2		4						
17	Package Design	IDDA08						1		2		3	