

Transilvania University of Brașov, Romania

Study program: Sustainable Product Design and Environment Protection Curriculum for ERASMUS+ students

Faculty: Product Design and Environment

Study period: 2 years (master)

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; Cred = no of credits)

1st Year

No. crt.	Course	Code	Language of instruction	1 st Semester					2 nd Semester				
				C	S	L	P	Cred	C	S	L	P	Cred
1	Energy and environment	D01.TC.01.1	Romanian	1	1			2					
2	Advanced engineering design	D01.TC.01.2	Romanian	2			2	5					
3	Product life cycle assessment	D01.TC.01.3	Romanian	1			1	3					
4	RES Design	D01.TC.01.4	Romanian	2	1		1	5					
5	Valorisation of the research results	D01.TC.01.5	Romanian	1			1	3					
6	Academic ethics and integrity	D01.TC.01.6	Romanian	1	1			2					
7	Engineering modelling, simulation and optimisation	D01.TC.02.7	Romanian						2		1	1	5
8	Practice I 12 hours/week	D01.TC.01.08	Romanian					10					
9	Practice II 12 hours/week	D01.TC.02.09	Romanian										10
10	Advanced materials for product design	D01.PD.02.10	Romanian						2	2			5
11	Graphic design	D01.PD.02.11	Romanian						2		1	1	5
12	Integrated product design	D01.PD.02.12	Romanian						2			2	5
13	Renewables for thermal energy production I (geothermal and biomass systems)	D01.RE.02.10	Romanian						2		1	1	5
14	Renewables for electrical energy production I (wind and micro-hydro systems)	D01.RE.02.11	Romanian						2	2			5
15	Tracking systems for solar energy convertors	D01.RE.02.12	Romanian						2			2	5

2nd Year

No. crt.	Course	Code	Language of instruction	3 rd Semester					4 th Semester				
				C	S	L	P	Cred	C	S	L	P	Cred
1	Practice for research I 12 hours/week	D01.TC.03.1	Romanian					10					
2	Practice for research II 12 hours/week	D01.TC.04.2	Romanian										10
3	Practice for elaboration of dissertation thesis 16 hours/week	D01.TC.04.3	Romanian										20
4	Advanced mechanical engineering design	D01.PD.03.4	Romanian	2			2	5					
5	System control engineering	D01.PD.03.5	Romanian	2			2	5					
6	Ergonomics in product design	D01.PD.03.6	Romanian	1			1	3					

7	Design of RES-based products	D01.PD.03.7	Romanian	2			2	5			
8	Product testing	D01.PD.03.8	Romanian	1		1		2			
9	Renewables for electrical energy production II (photovoltaic and hybrid systems)	D01.RE.03.4	Romanian	2		1	1	5			
10	Renewables for thermal energy production II (solar thermal and hybrid systems)	D01.RE.03.5	Romanian	2		1	1	5			
11	Renewable energy systems in the built environment	D01.RE.03.6	Romanian	2			2	5			
12	RES implementation, operation and maintenance	D01.RE.03.7	Romanian	2		2		5			