

# Transilvania University of Braşov, 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)

#### 1<sup>st</sup> Year

No. crt.	Course	Code	Language of instruction	1 <sup>st</sup> Semester					2 <sup>nd</sup> Semester					
				C	S	L	P	Cred	C	S	L	P	Cred	
1	Energy and environment	D01.TC.01.1	Romanian	1	1			3						
2	Advanced engineering design	D01.TC.01.2	Romanian	3			2	6						
3	Eco-Design	D01.TC.01.3	Romanian	1	1			3						
4	RES Design	D01.TC.01.4	Romanian	3	1		1	6						
5	Applied English language	D01.TC.01.5	English	1	1			3						
6	Academic ethics and integrity	D01.TC.01.6	Romanian	1	1			3						
7	Engineering modelling and simulation	D01.TC.02.7	Romanian						2		2	1	6	
8	Advanced materials for design	D01.TC.02.8	Romanian						2		1		4	
9	Industrial project management	D01.TC.02.9	Romanian						1			1	4	
10	Practice I 140 hours/sem.	D01.TC.01.10	Romanian					6						
11	Practice II 140 hours/sem.	D01.TC.02.11	Romanian											6
12	Advanced computer aided animation	D01.PD.02.12	Romanian						2		1	1	5	
13	Graphic design	D01.PD.02.13	Romanian						2		1	1	5	
14	Renewables for thermal energy production I (geothermal and biomass systems)	D01.RE.02.12	Romanian						2		1	1	5	
15	Renewables for electrical energy production I (wind and micro-hydro systems)	D01.RE.02.13	Romanian						2	2			5	

#### 2<sup>nd</sup> Year

No. crt.	Course	Code	Language of instruction	3 <sup>rd</sup> Semester					4 <sup>th</sup> Semester					
				C	S	L	P	Cred	C	S	L	P	Cred	
1	Practice for research I 112 hours/sem.	D01.TC.03.1	Romanian					6						
2	Valorisation of the research results	D01.TC.04.2	Romanian						2			2	5	
3	Management of research projects	D01.TC.04.3	Romanian						1			2	4	
4	Practice for research II 154 hours/sem.	D01.TC.04.4	Romanian										11	
5	Practice for elaboration of dissertation thesis 140 hours/sem.	D01.TC.04.5	Romanian											10
6	Advanced mechanical engineering design	D01.PD.03.6	Romanian	2			1	3						
7	Control engineering	D01.PD.03.7	Romanian	2			1	3						
8	Integrated product design	D01.PD.03.8	Romanian	2			1	4						

9	Advanced aesthetics and ergonomics	D01.PD.03.9	Romanian	2			1	4						
10	Design of RES-based products	D01.PD.03.10	Romanian	2			2	5						
11	Product testing	D01.PD.03.11	Romanian	2		2		5						
12	Tracking systems for solar energy convertors	D01.RE.03.6	Romanian	2			1	4						
13	Renewables for electrical energy production II (photovoltaic and hybrid systems)	D01.RE.03.7	Romanian	3		1	1	6						
14	Renewables for thermal energy production II (solar thermal and hybrid systems)	D01.RE.03.8	Romanian	3		1	1	6						
15	Renewable energy systems in the built environment	D01.RE.03.9	Romanian	2			1	3						
16	RES implementation, operation and maintenance	D01.RE.03.10	Romanian	2		2		5						