

Transilvania University of Braşov, Romania

Study program: Wood Processing Engineering

Faculty: Furniture Design and Wood Engineering
 Study period: 4 years (bachelor)
 Academic year structure: 2 semesters (14 weeks per semesters 1-7; 10 weeks per semester 8)
 Examination sessions (two): winter session (January/February)
 summer session (June/July)

Courses per years (C= course; S = seminar; L = laboratory; P = project)

1st Year

Nr. crt.	Course	Code*	1 st Semester					2 nd Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Mathematical Analysis	DF	3	3	0	0	5					
02	Fundamentals of Wood Production and Environmental Protection 1	DF	3	0	2	0	5					
03	Descriptive Geometry 1	DF	2	0	2	0	5					
04	Applied Informatics	DF	2	0	3	0	5					
05	Wood Chemistry	DF	2	0	1	0	4					
06	Physical Training 1	DC	0	1	0	0	1					
07	Ethics and Academic Integrity	DC	1	0	0	0	3					
08	Package of optional disciplines: English Language 1 / French Language 1	DC	1	1	0	0	2					
09	Linear Algebra, Analytical Geometry and Differential Equations	DF						2	2	0	0	4
10	Physics	DF						2	0	1	0	4
11	Technical Drawing and Infographics 1	DF						2	0	2	0	5
12	Mechanics	DF						2	2	0	0	5
13	Wood Anatomy	DF						3	0	2	0	5
14	Materials Used in Wood Industry	DF						1	0	2	0	4
15	Physical Training 2	DC						0	1	0	0	1
16	Package of optional disciplines: English Language 2 / French Language 2	DC						1	1	0	0	2
TOTAL:			14	5	8	0	30	13	6	7	0	30
TOTAL HOURS PER WEEK:			27					26				

*DF –fundamental disciplines DS – specialized disciplines DC – complementary disciplines
 C=course; S=seminar; L=laboratory; P=project

2nd Year

Nr. crt.	Course	Code*	3 rd Semester					4 th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Descriptive Geometry 2	DF	1	0	2	0	4					
02	Technical Drawing and Infographics 2	DF	1	0	2	0	4					
03	Strength of Materials	DF	2	0	2	0	5					
04	Wood Physics and Mechanics	DF	3	0	2	0	5					
05	Wood Preservation	DF	2	0	2	0	5					
06	Drives in Wood Industry	DF	2	0	2	0	4					
07	Physical Training 2	DC	0	1	0	0	1					
08	Package of optional disciplines: English Language 3 /French Language 3	DC	1	1	0	0	2					
09	Technical Drawing and Infographics 3	DF						2	0	2	0	4
10	Wood Structures for Constructions	DF						2	0	2	0	4
11	Wood Structures for Furniture	DF						2	0	2	0	4
12	Technological Materials in Wood Industry	DF						2	0	2	0	4
13	General Economy	DC						1	0	0	0	1
14	Fundamentals of Wood Production and Environmental Protection 2	DF						1	0	1	0	2
15	Study of Wood Properties	DF						2	0	2	0	4
16	Internship 1	DS						90				4
17	Physical Training 4	DC						0	1	0	0	1
18	Package of optional disciplines: English Language 4 /French Language 4	DC						1	1	0	0	2
TOTAL:			12	2	12	0	30	13	2	11	0	30
TOTAL HOURS PER WEEK:			26					26				

3rd Year

No. crt.	Course	Code*	5 th Semester					6 th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Thermal Treatments of Wood 1	DF	2	0	2	0	5					
02	Thermal Treatments of Wood 1 - Project	DF	0	0	0	2	2					
03	Wood Cutting and Cutting Tools 1	DF	1	0	1	0	3					
04	Machine-Tools and Units in Wood Industry 1	DF	2	0	2	0	5					
05	3D Modelling	DS	1	0	2	0	4					
06	Timber	DS	2	0	2	0	4					
07	Calculus of Wooden Structures for Constructions	DS	2	0	2	0	4					
08	Package of optional disciplines: Wood Bending and Molding / Furniture Accessories	DS	2	0	0	1	3					
09	Thermal Treatments of Wood 2	DF						2	0	1	0	3
10	Wood Cutting and Cutting Tools 2	DF						2	0	2	0	4
11	Machine-Tools and Units in Wood Industry 2	DF						3	0	2	0	5
12	Machine-Tools and Units 2 - Project	DF						0	0	0	2	2
13	Furniture Design, Manufacture and Viability 1	DS						2	2	0	0	4
14	Numerical Control Technique in Wood Industry	DF						2	0	2	0	4

15	Package of optional disciplines: Technological Devices in Wood Industry / Work Protection and Protection against Fire	DS						2	0	2	0	4
16	Internship 2							90				4
TOTAL			12	0	11	3	30	13	2	9	2	30
TOTAL HOURS PER WEEK			26					26				

4th Year

No. crt.	Course	Code*	7 th Semester					8 th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Finished Wood Products 1	DS	2	0	0	2	5					
02	Furniture Design, Manufacture and Viability 2	DS	2	0	2	0	4					
03	Furniture Design, Manufacture and Viability 2 - Project	DS	0	0	0	2	2					
04	Parametric Design in Wood Industry	DS	1	0	2	0	4					
05	Wooden Composite Materials 1	DS	2	0	1	0	4					
06	Automatisation in Wood Industry	DF	1	0	1	0	2					
07	Technological Transport in Wood Industry	DF	1	0	1	0	2					
08	Non-Conventional Technologies	DS	2	0	2	0	4					
09	Finishing Technologies in Wood Industry	DS	1	0	1	0	3					
10	Finished Wooden Products 2	DS						2	0	0	2	4
11	Package of optional disciplines: Management in Wood Industry / Circular Economy and Sustainability in Wood Engineering	DS						2	1	0	0	3
12	Package of optional disciplines: Wooden Composite Materials 2 / Wooden Biomass and Regenerable Energy	DS						2	0	2	0	4
13	Package of optional disciplines: Technology of Upholstered Furniture / Technology of Wooden Musical Instruments	DS						2	0	2	0	4
14	Package of optional disciplines: Quality of Wooden Products and Quality Management / Programming, Launching and Supervising Manufacturing in Wood Industry	DS						2	1	0	0	3
15	Package of optional disciplines: CAD-CAM-BIM Modelling in Wood Engineering / Artificial Intelligence and Digital Modelling in Wood Engineering	DS						2	0	0	2	4
16	Internship 3	DS						60				4
17	Elaboration of the Diploma Project	DS						0	4	0	0	4
TOTAL			12	0	10	4	30	12	6	4	4	30
TOTAL HOURS PER WEEK			26					26				