Transilvania University of Braşov, Romania

Study program: Aerospace Engineering

Faculty: Technological Engineering and Industrial Management

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)

1 Year

No.	Course	Code	Code 1 Semester			2 nd Semester						
crt.	Course	Couc	С	S	L	Р	Cred	С	S	L	Р	Cred
01	Mathematics	AM	2	2			4					
02	Descriptive geometry	GD	2	2			5					
03	Chemistry	CH	2		1		3					
04	Computer programming and programming	PCL1	1		2		J.					
04	languages 1		'				ر					
05	Technical drawing and info- graphics 1	DTI1	2		3		5					
06	Physics	FIZ	2		2		5					
07	Professional integration and development	IDP	1	1			2					
08	Modern languages1a (English)	LM1a	1	1			3					
08	Modern languages 1b (French)	LM1b	ı	ı			5					
09	Physical training 1	EDF1		1			1					
10	Material science and engineering	SIM						З		2		5
11	Linear algebra, analytical and differential	ALGA						2	2			4
11	geometry			i								4
12	Mechanics	MEC						2	3			5
13	Technical drawing and info- graphics 2	DTI2						1		4		5
14	Computer programming and programming	PCL2						2		2		5
14	languages 2											ر
15	General economics	ECG						1	1			3
16	Modern languages 2a (English)	LM2a						1	1			3
10	Modern languages 2b (French)	LM2b						'	'			د
17	Physical training 2	EDF2							1			1

2nd Year

No.	l Course	Code		3 rd S	eme	ster		4 th Semester					
crt.		code	C	S	L	Р	Cred	C	S	L	Р	Cred	
01	Special mathematics	MS	2	2			4						
02	Strength of materials 1	RM1	2	1	1		5						
03	Mechanisms and precision mechanics	MECSM	3		2		6						
04	Numerical methods in aviation	MNI	2		2		4						
05	Fluid mechanics and hydraulic equipment	MFH	2		1		3						

06	Electrotechnics and applied electronics	EEA	2		2	5					
0.7	Modern languages 3a (English)	LM3a	1	1		J					
07	Modern languages 3b (French)	LM3b	1	_		ო					
80	Physical training 3	EDF3		1		1					
09	Machine elements 1	OM1					2		1	1	4
10	Strength of materials 2	RM2					2	1	1		4
11	3D Modelling	M3D					2		2		4
12	Fundamentals of aerospace engineering	BI1					M	1	2		5
13	Thermotechnics and heat engines	TET					2		1		3
14	Management	MIN					2	1			3
15	Internship (90 hours/ year)	PRAD									4
16	Modern languages 4a (English)	LM4a					1	1			3
16	Modern languages 4b (French)	LM4b					-	-			3
17	Physical training 4	EDF4						1			1

3rd Year

No.	Course	Code	5 th Semester						6 th Semester						
crt.	Course	Code	С	S	L	Р	Cred	С	S	L	Р	Cred			
01	Machine elements 2	OM2	2	-	1	1	4								
02	General aviation technologies I	TGA1	2	-	2	1	6								
03	Fundamentals of aerodynamics	ВА	2	1	1	-	4								
04	Aviation regulations. Legislation.	RAL	1	1	-	-	3								
05	Reliability and security of aviation	FSSA	2	-	2	-	5								
06	Tolerances and dimensional control	TCD	2	_	2	-	5								
07	Acquisition systems and data distribution in	SADD	2	_	1	-	3								
07	aeronautics						n								
80	Experimental aerodynamics	AE	2	-	1	-	3								
09	Aircrafts mechanics	MA						2	-	-	-	2			
10	Aircrafts mechanics	MA						-	-	-	2	2			
11	General aviation technologies II	TGA2						2	ı	1	1	5			
12	Fundamentals of aerospace propulsion	BPA						2	٣	1	1	4			
13	Quality assurance in aerospace	ACDA						1	ı	1	1	3			
14	Plan practice (90 hours/year)	PRA3										4			
15	Design of aerospace structures	CA						2	2	-	ı	4			
16	CAD/ CAM Systems	CADM						2	ı	1	ı	3			
17	Composite materials – technologies and applications	МСТА						2	-	1	2	4			

4th Year

No.	Course	Code			7 th Semester						8 th Semester						
crt.	Course	code	С	S	L	Ρ	Cred	С	S	L	Р	Cred					
01	Aircrafts and rockets aerodynamics	AAR	2	1	1	-	5										
02	Calculus and design of aeronautical structures	CPSA	2	-	1		3										
03	Calculus and design of aeronautical structures-	CPSAP	-	-	-	2	י										
03	Project						2										
04	Technology of aircrafts structure	TSA	2	-	1	1	4										
05	Hydraulic and pneumatic aircraft systems	ВСНРА	2	-	1	1	3										
06	Aircraft design	DA	2	-	1	1	5										

07	Airport and infrastructure Planning & Control	EIAE	2	-	1	1	5					
80	Helicopters and helicopters systems	ESE	3	-	2	ı	4					
09	Finite elements in aerospace engineering	EFIA	3	-	2	ı	4					
10	Helicopters repair techniques	TRE	1	-	2	ı	2					
11	Aerospace structures stability	SSA	1	-	2	1	2					
12	Technology of aircraft assembly	TAMA						2	ı	1	ı	2
13	Aircraft flight dynamics and stability	SDZ						2	ı	-	2	4
14	Aeroelasticity and structures dynamics	ADS						2	-	1	1	3
15	Board equipment and navigation	EBNA						2	-	2	-	3
16	Physical control methods in aviation	MFCA						2	1	2	ı	4
17	High speed aerodynamics	AVM						2	ı	2	ı	4
18	Operation and maintenance of helicopters and	EIEA						2	-	2	ı	3
	airplanes											
19	Computational aeroelasticity	AC						2	-	2	-	3
20	Elaboration diploma project	APIII									6	4
21	Internship for diploma project (60 hours)	DPRD					·					10