Transilvania University of Braşov, Romania

Study program: Practical Integrated Methods for Propulsion Systems Engineering (in English)

Faculty:	Mechanical Engineering
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)

1st Year

No. crt.	Course	Code	1st Semester					2nd Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Industrial economics for engineers	MPIISP.01	1	1	-	-	3					
02	Measuring techniques used in manufacturing and Quality Assurance	MPIISP.02	2	-	1	-	5					
03	Mechanics of materials	MPIISP.03	2		1		5					
04	Reformulated fuels	MPIISP.04	2		1		5					
05	Noise and vibrations in manufacturing (01)	MPIISP.05a	2		2		5					
	Predictive maintenance for industrial equipment (01)	MPIISP.05b										
06	Etics in research	MPIISP.06	1				2					
07	Professional internship (optional projects)	MPIISP.07				12	5					
08	Shopfloor management	MPIISP.08						2			1	5
09	ERP Systems (SAP)	MPIISP.09						2		1		5
10	Design for manufacturing (02)	MPIISP.10a						1			1	4
	CNC Machining (02)	MPIISP.10b										
11	Advanced design for engines systems	MPIISP.11						2			2	5
12	Technical analysis in mechanical engineering	MPIISP.12						2		1	1	5
13	Professional internship (optional projects)	MPIISP.13									12	6

2nd Year

No. crt.	Course	Code	3rd Semester					4th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Advanced manufacturing technology	MPIISP.14	2			2	5					
02	Automation in manufacturing	MPIISP.15	2		1		5					
03	Product development process	MPIISP.16	2	1			5					
04	Project management in the field of propulsion systems	MPIISP.17	1			1	4					
05	FEM simulation	MPIISP.18	2			2	5					
06	Professional internship	MPIISP.19				12	6					
07	Professional internship (optional projects)	MPIISP.20									22	20
08	Dissertation project activity	MPIISP.21									6	10