

Year	Sem	Subject name	Weekly number of hours					ECTS
			Lecture	Tutorial	Lab work	Project	Research	
<b>Compulsory subjects</b>								
1	1	Modelling and simulation in mechanical engineering I	1		2			4
1	1	Numerical simulation of heat and mass transfer	2		2			5
1	1	Finite element method	1		1			3
1	1	Surfaces and contacts	2		1			5
1	1	Research Practice I					12	10
<b>Optional subjects</b>								
1	1	Special chapters of fluid mechanics	1		1			3
		Manufacturing technology and management						
<b>Compulsory subjects</b>								
1	2	Advanced calculus of structures	2		2			5
1	2	Modelling and simulation in mechanical engineering II	2		1			4
1	2	Virtual prototype for product development	1		1			4
1	2	Product Development I	2	1				4
1	2	Research Practice II					12	10
<b>Optional subjects</b>								
1	2	Materials and structures	1		1			3
		Design and visual impact						
<b>Compulsory subjects</b>								
2	1	Reliability of complex products	1	2				4
2	1	Mechanical design of renewable energy systems	2		1			4
2	1	Computer aided design of plastic components	1		2			4
2	1	Product development II	1	1				3

2	1	Ethics and academic integrity	1					2
2	1	Research Practice III					12	10
<b>Optional subjects</b>								
2	1	Information technology for product development	1		1			3
		Constructal theory - Innovative Principles						
<b>Compulsory subjects</b>								
2	2	Scientific research, practice and dissertation development					26	30