

1. Semester					22,0	30,0
Basics		SWS	ECTS			
		4,5	6,5			
Biology Basics	1,5	2,5				
Electrical Engineering	1,5	2,0				
Mechanical Engineering	1,5	2,0				
Physics		SWS	ECTS			
		4,5	6,5			
Mechanical Dynamics	1,5	2,0				
Thermodynamics	1,5	2,0				
Fluid Dynamics	1,5	2,5				
Mathematics and Statistics		SWS	ECTS			
		4,5	6,5			
Applied Analysis	2,0	3,0				
Mathematical Models	1,0	2,0				
Industrial Data Processing	1,5	1,5				
Biochemistry and -structures		SWS	ECTS			
		4,5	6,5			
Nanostructures and Surfaces	1,5	2,0				
Biomaterials	1,5	2,0				
Biochemistry	1,5	2,5				
Foreign Languages 1		SWS	ECTS			
Foreign Language 1		4,0	4,0			

2. Semester					21,0	30,0
Business & Management		SWS	ECTS			
		4,5	7,0			
Project Management	2,5	4,0				
Innovation Management	1,0	1,5				
Self Management	1,0	1,5				
Energy Systems		SWS	ECTS			
		5,0	7,0			
Non-Renewable Energy Syst.	1,5	2,0				
Renewable Energy Systems	1,5	2,0				
Alternative Concepts	2,0	3,0				
System Theory		SWS	ECTS			
		4,5	7,0			
System Theory Basics	2,5	4,0				
Evolution System	1,0	1,5				
Ecology	1,0	1,5				
Biomimetics 1		SWS	ECTS			
		5,0	7,0			
Biomimetics Basics	2,0	2,5				
Process Analytics	1,0	2,0				
Biomimetics Design Exercise	2,0	2,5				
Foreign Languages 2		SWS	ECTS			
Foreign Language 2		2,0	2,0			

3. Semester					20,0	30,0
Biomechanics		SWS	ECTS			
		5,0	7,5			
Biomechanics Basics	2,0	3,0				
Finite Element Method	1,5	2,0				
Growth Algorithms	1,5	2,5				
Biomimetics 2		SWS	ECTS			
		5,5	8,0			
Biomimetics in Energy Syst.	3,0	4,5				
Energy Materials	1,5	2,0				
Exercises in Biomim. and Excu	1,0	1,5				
Creative Design		SWS	ECTS			
		5,0	7,5			
Creativity Methods	0,5	1,0				
Nature Observ./Analy./Abstr.	2,0	3,0				
Laboratory/Experimental	2,5	3,5				
Biosimulation		SWS	ECTS			
		4,5	7,0			
Simulation Technologies	1,0	1,5				
Simulation of Natural Systems	2,0	3,0				
Process Simulation	1,5	2,5				

4. Semester					2,0	30,0
Master Thesis		SWS	ECTS			
		2,0	30,0			
Master Thesis				28,0		
Master Thesis - Seminar		2,0	2,0			