

## Doctor of Philosophy (Ph.D.) in Mechanical Engineering

Course group	ECTS total	Course code	Course name	Course type	ECTS	Pre-requisite
Elective Courses		ME503	Advanced Fluid Dynamics	elective	6	
		ME608	Turbulence Modelling and Simulation	elective	6	
		ME517	Advances Mathematics for Engineers and Scientists	elective	6	
		ME610	Physical transport phenomena	elective	6	
		ME504	Advanced Thermodynamics	elective	6	
		ME603	Optics and Lasers	elective	6	
		ME605	Research activity	elective	6	
		ME607	Computational Fluid Dynamics	elective	6	
		ME602	Mesuring techniques and Instrumentation	elective	6	
		ME680	Special Topics in Engineering	elective	6	
		ME690	PhD Thesis	required	120	
total						

### Graduate Studies: summary of conditions for successful completion of studies

Category	ECTS	Note:
Courses	60	The study requires the completion of minimum of 6 courses, each worth 6 ETCS, of which all 6 courses are elective. Minimum 3 courses have to be chosen from the pool of the Programme Elective Courses while additional 3 courses can be chosen from Area Elective Courses. The Area Elective courses are all courses offered at FENS faculty with level 500 and higher. The doctoral thesis brings 120 ETCS.
Scientific Activity (Research Seminar)		
PhD thesis	120	At least one contribution in indexed journal paper or peer-reviewed international conference is required. At most two courses may be obtained from courses at master level, while other courses must be at PhD level. Course-load shall enable a candidate to enhance professional knowledge, but at the same time enable the candidate to continue career in academic environment.
Total	180	

1/10/2015