

International Master's Programme TFM-ASA Details for the 3rd Semester

Compulsory Elective Modules I

18 ECTS credit points (= 3 modules) are to be selected from the following list

· 11913 Turbulence Modeling	6 CP
· 11938 Thermodynamics, Heat and Mass Transfer	6 CP
· 12886 Flow Measurements	6 CP
· 12887 Engineering Acoustics – Sound Fields	6 CP
· 13519 CFD 1 ^a	6 CP
· 14040 Computational Fluid Dynamics for Engineers ^a	6 CP

^a For a CFD related content please select one of these two modules depending on your proficiency level.

Compulsory Elective Modules II

12 ECTS credit points (= 2 modules) – one module from each area is to be selected

Ila: Mechanical Engineering, Aerodynamics, Fluid Mechanics, Aerospace Engineering, Materials Science

· 11913 Turbulence Modeling*	6 CP
· 12233 Experiments in Aerodynamics and Fluid Mechanics	6 CP
· 12886 Flow Measurements*	6 CP
· 12887 Engineering Acoustics – Sound Fields*	6 CP
· 13254 Image Based Measurement Techniques for Aerodynamics	6 CP
· 13358 CFD Project	6 CP
· 13519 CFD 1*	6 CP
· 13717 Decarbonization of Industrial Processes	6 CP
· 14040 Computational Fluid Dynamics for Engineers*	6 CP
· 14049 Electrified Aero Engines	6 CP

Ilb: Physics, Mathematics, Computer Science

· 11938 Thermodynamics, Heat and Mass Transfer*	6 CP
· 13299 Dimensional Analysis and Experimentation	6 CP
· 13361 Stochastic Methods for Flow Simulations	6 CP
· 13440 Waves and Instabilities in Fluids	6 CP

* If not already selected as Compulsory Elective Module I

Five-digit codes: module numbers with direkt links to the respective module description