

# Double degree Master Programme Mechanical Engineering

## University of Twente (UT) and Instituto Tecnológico de Aeronáutica (ITA)

Course at ITA available in English:

Code	Name	Professor
AA-270	Spectral Element Methods for CFD	Rodrigo Moura
AA-271	Aeroacoustics	André Cavalieri
AA-277	Instability and transition to turbulence	André Cavalieri
AA-286	Turbulent Flows and Numerical Modelling	Rodrigo Moura
AB-241	Fundamentals of aeronautical engineering	Donizeti de Andrade
AB-243	Aerodynamics and performance of helicopters and rotary-wing aircraft	Donizeti de Andrade
AB-266	Simulation and control of aircraft	Flávio Silvestre
AE-213	Stability of aeronautical structures	Maurício Donadon
AE-236	Fatigue and fracture mechanics I	Maurício Donadon / Mariano Arbelo
AE-237	Fatigue and fracture mechanics II	Maurício Donadon / Mariano Arbelo
AE-245	Finite element methods I	Alfredo Faria
AE-249	Aeroelasticity	Maurício Donadon / Flávio Silvestre
AE-256	Numerical methods in solid mechanics	Maurício Donadon
ME-201	Fluid Mechanics	André Cavalieri
ME-211	Turbomachines	Jesuino Takachi
ME-212	Turbomachines Design	Jesuino Takachi
ME-232	Numerical heat transfer and fluid flow	Marcelo de Lemos
MP-206	Analysis and design of composite structures	Maurício Donadon / Alfredo Faria
MP-210	Fundamentals of Mechatronics	Emilia Villani
MP-260	Modelling and Analysis of Discrete Event Systems	Emilia Villani
MP-288	Optimization in Mechanical Engineering	Rafael Ferreira