

RWTH AACHEN

Intensificación	Curso	Codigo	Asignatura	ECTS	Guia docente
Aeronaves	2	143003011	Aerodinamica Aplicada y no Estacionaria	6	[ver]
Aeronaves	2	143003012	GNC y Optimizacion de Trayectorias de Misiles	4,5	[ver]
Aeronaves	2	143003013	Helicopteros	6	[ver]
Aeronaves	2	143003014	Sistemas Aereos no Tripulados	4,5	[ver]
Aeronaves	2	143003015	Sistemas de Control de Vuelo	4,5	[ver]
Aeronaves	2	143003016	Sistemas Eolicos Terrestres y Oceanicos	4,5	[ver]

Intensificación	Curso	Codigo	Asignatura	ECTS	Guia docente
Vehiculos	2	143003021	Aerodinamica Hipersonica	4,5	[ver]
Vehiculos	2	143003022	Astrodinamica y Dinamica de Actitud	6	[ver]
Vehiculos	2	143003023	Control Termico Espacial	4,5	[ver]
Vehiculos	2	143003024	El Entorno Espacial	4,5	[ver]
Vehiculos	2	143003025	Ingenieria de Sistemas y Diseño Preliminar de Vehiculos Espaciales	6	[ver]
Vehiculos	2	143003026	Segmentos de Tierra y Lanzamiento	4,5	[ver]

Intensificación	Curso	Codigo	Asignatura	ECTS	Guia docente
Propulsion	2	143003031	Combustion	3	[ver]
Propulsion	2	143003032	Contaminacion de Sistemas Propulsivos	4,5	[ver]
Propulsion	2	143003033	Fundamentos Fisicos de los Motores Cohete por Aceleracion de Plasma	3	[ver]
Propulsion	2	143003034	Metodologias de Diseño Avanzado	4,5	[ver]
Propulsion	2	143003035	Plantas de Potencia Alternativas para Propulsion Aerea	3	[ver]
Propulsion	2	143003036	Propulsion Espacial	4,5	[ver]
Propulsion	2	143003037	Tecnicas Experimentales de Mecanica de Fluidos	3	[ver]
Propulsion	2	143003038	Turbomaquinas	4,5	[ver]

Intensificación	Curso	Codigo	Asignatura	ECTS	Guia docente
SA y TA	2	143003041	Desarrollo del Concepto Operacional en Gestion del Trafico Aereo	5	[ver]
SA y TA	2	143003042	Explotacion de Infraestructuras Aeronauticas	5	[ver]
SA y TA	2	143003043	Factores Humanos y Automatizacion en Gestion del Trafico Aereo	4,5	[ver]
SA y TA	2	143003044	Gestion en Seguridad Operacional	4,5	[ver]
SA y TA	2	143003045	Impacto Ambiental del Transporte Aereo	3	[ver]
SA y TA	2	143003046	Planificacion de Flotas de Compañias Aereas	3	[ver]
SA y TA	2	143003047	Sistemas de Control en Tiempo Discreto	5	[ver]

Curso	Codigo	Asignatura	Titulacion	ECTS	Idioma	Guia docente
2	4011018	Computational Fluid Dynamics II	Aeronautical Engineering and Astronautics M.Sc.	3	DE	[ver]
2	4017421	Additive Manufacturing	Aeronautical Engineering and Astronautics M.Sc.	6	DE	[ver]
2	4013393	Wind Power	Aeronautical Engineering and Astronautics M.Sc.	5	DE	[ver]
2	4011689	FEM for Dynamic and Non-linear Structural Problems	Aeronautical Engineering and Astronautics M.Sc.	3	DE	[ver]
2	4012306	Advanced Control	Aeronautical Engineering and Astronautics M.Sc.	5	DE	[ver]
2	4011490	Vehicle and Wind Turbine Aerodynamica	Aeronautical Engineering and Astronautics M.Sc.	5	DE	[ver]

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2	4011714	Hypersonic Aerodynamics	Aeronautical Engineering and Astronautics M.Sc.	3	DE	[ver]
2	4011701	Space Flight Dynamics I	Aeronautical Engineering and Astronautics M.Sc.	4	DE	[ver]
2	4014418	Aerothermal Design of Space Transportation Systems	Aeronautical Engineering and Astronautics M.Sc.	4	DE	[ver]
2	4011703	Space Propulsion I	Aeronautical Engineering and Astronautics M.Sc.	5	DE	[ver]
2	4013371	Spacecraft Design I	Aeronautical Engineering and Astronautics M.Sc.	5	DE	[ver]
2	4011710	Spacecraft Design II	Aeronautical Engineering and Astronautics M.Sc.	4	DE	[ver]

Curso	Codigo	Asignatura	Titulacion	ECTS	Idioma	Guia docente
2	4011552	Software for Combustion Engines	Aeronautical Engineering and Astronautics M.Sc.	5	DE	[ver]

2	4014444	Structural Design of Spacecraft	Aeronautical Engineering and Astronautics M.Sc.	4	DE	[ver]
2	4011712	Space Propulsion II	Aeronautical Engineering and Astronautics M.Sc.	5	DE	[ver]
2	4011608	Aircraft Propulsion II	Aeronautical Engineering and Astronautics M.Sc.	5	DE	[ver]
2	4014419	Flow in Turbomachines Lab.	Aeronautical Engineering and Astronautics M.Sc.	2	DE	[ver]
2	4014354	Fundamentals of Turbomachines	Aeronautical Engineering and Astronautics M.Sc.	4	DE	[ver]

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2	4011704	Flight Guidance	Aeronautical Engineering and Astronautics M.Sc.	5	DE	[ver]
2	3017435	Airport Management I	Aeronautical Engineering and Astronautics M.Sc.	4	DE	[ver]
2	6010489	Human Factors Engineering in Robotics, Aviation, Traffic and Process Control	Aeronautical Engineering and Astronautics M.Sc.	4	DE	[ver]

2	4017424	Aircraft Noise II	Aeronautical Engineering and Astronautics M.Sc.	3	DE	[ver]
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2	4011707	Flight Control	Aeronautical Engineering and Astronautics M.Sc.	5	DE	[ver]
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SA y TA	2	143003044	Gestion en Seguridad Operacional	4,5	[ver]
SA y TA	2	143003045	Impacto Ambiental del Transporte Aereo	3	[ver]
SA y TA	2	143003046	Planificacion de Flotas de Companias Aereas	3	[ver]
SA y TA	2	143003047	Sistemas de Control en Tiempo Discreto	5	[ver]

Semestre	Codigo	Asignatura	Titulacion	ECTS	Idioma	Guia docente
2	MB-ISM-24	Aerodynamics of High Lift	Master of Aerospace Technology	5	DE	[ver]
2	MB-IFF-22	Flight Guidance Systems	Master of Aerospace Technology	5	DE	[ver]
1	MB-ILR-13	Rotary Vane Technology - Rotor Dynamics	Master of Aerospace Technology	5	DE	[ver]
1	MB-IFF-06	Satellite Navigation Technologies and Applications	Master of Aerospace Technology	5	DE	[ver]
2	MB-IFF-15	Flight Guidance in the Flight Test	Master of Aerospace Technology	11	DE	[ver]
1	MB-ISM-23	Technology of Blades of Wind Turbines	Master of Aerospace Technology	5	DE	[ver]

Semestre	Codigo	Asignatura	Titulacion	ECTS	Idioma	Guia docente
2	MB-ISM-08	Aerothermodynamics of High-speed Aircraft and Spacecraft	Master of Aerospace Technology	5	DE	[ver]
1	MB-ILR-64	Orbit and Attitude Control of Spacecraft	Master of Aerospace Technology	5	DE	[ver]
2	MB-IFW-02	High Temperature and Lightweight Materials	Master of Aerospace Technology	5	DE	[ver]

Semestre	Codigo	Asignatura	Titulacion	ECTS	Idioma	Guia docente
1	MB-IVB-16	Combustion Chemistry	Master of Aerospace Technology	5	EN	[ver]
1	MB-ISM-34	Engine Noise	Master of Aerospace Technology	5	DE	[ver]
1	MB-IOT-29	Plasma Chemistry for Engineers	Master of Aerospace Technology	5	DE	[ver]
1	MB-PFI-11	Design of Aircraft Engines	Master of Aerospace Technology	5	DE	[ver]
1	MB-ILR-64	Orbit and Attitude Control of Spacecraft	Master of Aerospace Technology	5	DE	[ver]
1	MB-PFI-21	Metrological Methods on Turbomachines	Master of Aerospace Technology	5	DE	[ver]

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1	MB-IFF-08	Air Traffic Management Function	Master of Aerospace Technology	5	DE	[ver]
2	MB-IFL-17	Construction of Aircraft Structures	Master of Aerospace Technology	5	DE	[ver]
1	MB-PFI-14	Airline-Operation	Master of Aerospace Technology	5	DE	[ver]
1	MB-WUB-39	Environmental Process Technology	Master of Aerospace Technology	5	DE	[ver]
1	MB-IFF-03	Flight Measurement Technology	Master of Aerospace Technology	5	DE	[ver]

UNIV. RUHR BOCHUM

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Semestre	Codigo	Asignatura	Titulacion	ECTS	Idioma	Guia docente
3	CE-W05	Simulation of Incompressible Turbulent Flows with the Finite Volume Method	Master's Degree in Computational Engineering	3	EN	[ver]
1	139050	3D Simulation in Automation Technology	Master's Degree in Mechanical Engineering	6	DE	[ver]
3	CE-WP20	Materials for Aerospace Applications	Master's Degree in Computational Engineering	6	EN	[ver]
3	CE-WP18	Safety and Reliability of Engineering Structures	Master's Degree in Computational Engineering	6	EN	[ver]
3	CE-WP19	Computational Fracture Mechanics	Master's Degree in Computational Engineering	6	EN	[ver]
3	CE-WP14	Computational Wind Engineering	Master's Degree in Computational Engineering	3	EN	[ver]

Semestre	Codigo	Asignatura	Titulacion	ECTS	Idioma	Guia docente
3	CE-WP21	Energy Methods in Material Modeling	Master's Degree in Computational Engineering	4	EN	-

Semestre	Codigo	Asignatura	Titulacion	ECTS	Idioma	Guia docente
Winter	135000	Engine Combustion	Master's Degree in Mechanical Engineering	6	DE	[ver]
-	-	Specialized laboratory for motor vehicle drive technology	Master's Degree in Mechanical Engineering	6	DE	[ver]
3	CE-WP15	Design Optimization	Master's Degree in Computational Engineering	6	EN	[ver]
-	-	Design of hybrid drive trains	Master's Degree in Mechanical Engineering	6	DE	[ver]
-	-	Computer Simulation of Fluid Flows	Master's Degree in Mechanical Engineering	6	DE	[ver]
-	-	Simulation of the Flow in Turbo Machines	Master's Degree in Mechanical Engineering	6	DE	[ver]

Semestre	Codigo	Asignatura	Titulacion	ECTS	Idioma	Guia docente
1	CE-P03	Computer-based Analysis of Steel Structures	Master's Degree in Computational Engineering	6	EN	[ver]
3	CE-WP18	Safety and Reliability of Engineering Structures	Master's Degree in Computational Engineering	6	EN	[ver]
-	-	Process and environment Measurement Technology	Master's Degree in Mechanical Engineering	6	DE	[ver]

