HAW HAMBURG

Especialidad	Curso	Codigo	Asignatura	ECTS
VA	3	145005107	Aleaciones Aeroespaciales	3
VA	3	145005106	Diseño Grafico	3
VA	3	145005105	Diseño Mecanico	4,5
VA	3	145005102	Estructuras Aeronauticas	4,5
VA	3	145005001	Fabricacion Aeroespacial	3
VA	3	145005104	Mecanica de Fluidos II	6
VA	3	145005101	Mecanica de Solidos	3
VA	3	145005103	Vibraciones	3
VA	3	145006103	Aeroreactores	4
VA	3	145006101	Aerodinamica y Aeroelasticidad	9
VA	3	145006104	Motores Alternativos Aeronauticos	2
VA	3	145006105	Motores Cohete	3
VA	3	145006106	Materiales Compuestos	3
VA	3	145006102	Mecanica del Vuelo	6
VA	3	145006107	Sistemas de Produccion Aeroespacial	3
VA	4	145007102	Aeronaves de Ala Fija	6
VA	4	145007103	Aeronaves de Ala Rotatoria	3
VA	4	145007001	Gestion de Empresas y Proyectos	4,5
VA	4	145007107	Mantenimiento y Certificacion de Vehiculos Aeroespaciales	6
VA	4	145007106	Metodo de Elementos Finitos y Dinamica de Fluidos Computacional	4,5
VA	4	145007104	Misiles	3
VA	4	145007105	Vehiculos Espaciales	3

Semestre	Codigo	Asignatura	Titulacion	ECTS	Idioma
W/S	WK	Materials science	Bachelor of Aeronautical Engineering	7	DE
Winter	TZ	Technical drawing	B.Eng. Aircraft construction	9	DE
W/S	M0597	Advanced Mechanical Engineering Design	Bachelor of Mechanical Engineering	6	DE
W/S	-	Strength in lightweight construction	B.Eng. Aircraft construction	5	DE
Summer	M1156	Systems Engineering	Master of Aircraft Systems Engineering	6	DE
Summer	M0680	Fluid Dynamics	Bachelor of Mechanical Engineering	6	DE / EN
W/S	HFL	Higher strength theory for lightweight constructio	M.Sc. Aircraft construction	6	DE
W/S	-	Multibody and structural dynamics in vehicle and a	M.Sc. Aircraft construction	6	DE
Summer	FTW	Aircraft engines	B.Eng. Aircraft construction	5	DE
-	L0908	Turbo Jet Engines	Master of Aircraft Systems Engineering	3	DE
Summer	AML1	Aerodynamics with Laboratory 1	Aeronautical Engineering (Bachelor)	5	DE
Summer	VMG	Basics of internal combustion engines	B.Eng. Aircraft construction	5	DE
2	M1343	Fibre-Polymer-Composites	Master of Aircraft Systems Engineering	6	EN
1 y 2	M0771	Flight Physics	Master of Aircraft Systems Engineering	6	DE
3	M1399	System Development Projekt	Master of Aircraft Systems Engineering	12	DE
1 y 2	M0812	Aircraft Design	Master of Aircraft Systems Engineering	6	DE / EN
1 y 3	M0523	Business & Management	Master of Aircraft Systems Engineering	6	DE / EN
3	M0808	Finite Elements Methods	Master of Aircraft Systems Engineering	6	EN
5	M0655	Computational Fluid Dynamics I	Bachelor of Mechanical Engineering	6	DE

Especialidad	Curso	Codigo	Asignatura	ECTS
PA	3	145005208	Aleaciones Aeroespaciales	3
PA	3	145005207	Diseño Grafico	3
PA	3	145005202	Estructuras Aeronauticas	4,5
PA	3	145005204	Mecanica de Fluidos II	6
PA	3	145005201	Mecanica de Solidos	3
PA	3	145005205	Termodinamica Aplicada	3,75
PA	3	145005206	Transporte de Calor y Masa	3,75
PA	3	145005203	Vibraciones	3
PA	3	145006201	Aerodinamica, Aeroelasticidad y Mecanica del Vuelo	9
PA	3	145006203	Aeroreactores	6
PA	3	145006001	Fabricacion Aeroespacial	3
PA	3	145006202	Motores Alternativos Aeronauticos	4,5
PA	3	145006204	Metodo de Elementos Finitos y Dinamica de Fluidos Computacional	4,5
PA	3	145006205	Materiales Estructurales para Sistemas Propulsivos	3
PA	4	145007204	Combustibles y Lubricantes	2
PA	4	145007202	Diseño Mecanico	4,5
PA	4	145007001	Gestion de Empresas y Proyectos	4,5
PA	4	145007201	Motores Cohete	4,5
PA	4	145007205	Mantenimiento y Certificacion de Motores	7,5
PA	4	145007203	Sistemas de Motor	4
PA	4	145007206	Sistemas de Produccion Aeroespacial	3

Semestre	Codigo	Asignatura	Titulacion	ECTS	Idioma
W/S	WK	Materials science	Bachelor of Aeronautical Engineering	7	DE
Winter	TZ	Technical drawing	B.Eng. Aircraft construction	9	DE
W/S	-	Strength in lightweight construction	B.Eng. Aircraft construction	5	DE
4	M0680	Fluid Dynamics	Bachelor of Mechanical Engineering	6	DE / EN
W/S	HFL	Higher strength theory for lightweight constructio	M.Sc. Aircraft construction	6	DE
W	TH	Thermodynamik	B.Eng. Aircraft construction	5	DE
5	M0684	Heat Transfer	Bachelor of Mechanical Engineering	6	DE
1 o 2	-	Multibody and structural dynamics in vehicle and a	M.Sc. Aircraft construction	6	DE
Summer	AML1	Aerodynamics with Laboratory 1	Aeronautical Engineering (Bachelor)	5	DE
-	L0908	Turbo Jet Engines	Master of Aircraft Systems Engineering	3	DE
2	M1156	Systems Engineering	Master of Aircraft Systems Engineering	6	DE
Summer	VMG	Basics of internal combustion engines	B.Eng. Aircraft construction	5	DE
3	M0808	Finite Elements Methods	Master of Aircraft Systems Engineering	6	EN
5	M0655	Computational Fluid Dynamics I	Bachelor of Mechanical Engineering	6	DE
3 y 4	M0597	Advanced Mechanical Engineering Design	Bachelor of Mechanical Engineering	6	DE
1 y 3	M0523	Business & Management	Master of Aircraft Systems Engineering	6	DE / EN
2	M0764	Flight Control Systems	Master of Aircraft Systems Engineering	6	DE
3	M1399	System Development Projekt	Master of Aircraft Systems Engineering	12	DE

Especialidad	Curso	Codigo	Asignatura	ECTS
NSA	3	145005307	Aeropuertos	6
NSA	3	145005305	Comunicaciones y Redes	4,5
NSA	3	145005302	Instalaciones Electricas	4,5
NSA	3	145005306	Introduccion a la Navegacion Aerea	3
NSA	3	145005301	Meteorologia	3
NSA	3	145005304	Sistemas de Radiofrecuencia	4,5
NSA	3	145005303	Tratamiento Digital de la Informacion	4,5
NSA	3	145006301	Aerodinamica y Mecanica del Vuelo	6
NSA	3	145006001	Fabricacion Aeroespacial	3
NSA	3	145006302	Geodesia y Cartografia	4,5
NSA	3	145006304	Posicionamiento, Guiado y Control	4,5
NSA	3	145006303	Sistemas de Control Automatico	3
NSA	3	145006306	Sistemas de Comunicaciones y Vigilancia	4,5
NSA	3	145006305	Sistemas de Navegacion Aerea	4,5
NSA	4	145007303	Avionica	4,5
NSA	4	145007001	Gestion de Empresas y Proyectos	4,5
NSA	4	145007304	Gestion del Transito Aereo	6
NSA	4	145007306	Ingenieria de Operación y Gestion de Aeropuertos	3
NSA	4	145007305	Ingenieria de Sistemas Aeroespaciales	3
NSA	4	145008301	Ingenieria del Transporte Aereo	6
NSA	4	145007307	Propulsion de Aeronaves	3

Semestre	Codigo	Asignatura	Titulacion	ECTS	Idioma
1	M0836	Communication Networks	Master of Aircraft Systems Engineering	6	EN
W/S	LE/LEP	Drives and power electronics	Course of study Electrical and Computer Engineering (B.S	5	DE/EN
1 y 2	M0771	Flight Physics	Master of Aircraft Systems Engineering	6	DE
2	M1156	Systems Engineering	Master of Aircraft Systems Engineering	6	DE
3 y 4	M1091	Flight Guidance and Control	Master of Aircraft Systems Engineering	6	DE
-	-	Electrical Cabin Systems	Aeronautical Engineering (Bachelor)	5	EN
1	M1213	Avionics for Safety-critical Systems	Master of Aircraft Systems Engineering	6	DE / EN
1 y 3	M0523	Business & Management	Master of Aircraft Systems Engineering	6	DE / EN
1	M1032	Airport Planning and Operations	Master of Aircraft Systems Engineering	6	DE
-	L0908	Turbo Jet Engines	Master of Aircraft Systems Engineering	3	DE

Especialidad	Curso	Codigo	Asignatura	ECTS
ATA	3	145005408	Aerodromos	6
ATA	3	145005404	Estructuras	3
ATA	3	145005406	Geotecnia	3
ATA	3	145005403	Geodesia y Topografia	4,5
ATA	3	145005402	Instalaciones Electricas	4,5
ATA	3	145005407	Introduccion a la Navegacion Aerea	3
ATA	3	145005405	Materiales de Construccion	3
ATA	3	145005401	Meteorologia	3
ATA	3	145006401	Aerodinamica y Mecanica del Vuelo	6
ATA	3	145006405	Construccion	6
ATA	3	145006402	Edificios e Instalaciones, Urbanizacion y Accesos	6
ATA	3	145006403	Estructuras de Acero	4,5
ATA	3	145006404	Estructuras de Hormigon	4,5
ATA	3	145006001	Fabricacion Aeroespacial	3
ATA	4	145007406	Control y Gestion del Transito Aereo	3
ATA	4	145007001	Gestion de Empresas y Proyectos	4,5
ATA	4	145007403	Instalaciones de Aeropuertos	4,5
ATA	4	145008401	Ingenieria del Transporte Aereo	6
ATA	4	145007404	Legislacion y Gestion Aeroportuarias	3
ATA	4	145007405	Operación y Mantenimiento Aeroportuarios	6
ATA	4	145007407	Propulsion de Aeronaves	3

Semestre	Codigo	Asignatura	Titulacion	ECTS	Idioma
3	M0706	Geotechnics I	Bachelor of Civil and Environmental Engineering	6	DE
W/S	LE/LEP	Drives and power electronics	Course of study Electrical and Computer Engineering (B.S	5	DE/EN
1 y 2	M0771	Flight Physics	Master of Aircraft Systems Engineering	6	DE
5	M0611	Steel Structures I	Bachelor of Civil and Environmental Engineering	6	DE
4	M0613	Reinforced Concrete Structures I	Bachelor of Civil and Environmental Engineering	6	DE
2	M1156	Systems Engineering	Master of Aircraft Systems Engineering	6	DE
1 y 3	M0523	Business & Management	Master of Aircraft Systems Engineering	6	DE / EN
1	M1032	Airport Planning and Operations	Master of Aircraft Systems Engineering	6	DE
-	L0908	Turbo Jet Engines	Master of Aircraft Systems Engineering	3	DE

Especialidad	Curso	Codigo	Asignatura	ECTS
CTA	3	145005507	Aleaciones Aeroespaciales	3
CTA	3	145005503	Ampliacion de Matematicas	6
CTA	3	145005504	Diseño Grafico	3
CTA	3	145005506	Estructuras	6
CTA	3	145005503	Mecanica Analitica	3
CTA	3	145005502	Mecanica de Fluidos II	6
CTA	3	145005505	Mecanica de Solidos	3
CTA	3	145006501	Aerodinamica	6
CTA	3	145006506	Aleaciones Aeroespaciales II	3
CTA	3	145006502	Calculo Numerico	3
CTA	3	145006504	Control y Optimizacion	6
CTA	3	145006001	Fabricacion Aeroespacial	3
CTA	3	145006505	Mecanica Orbital	3
CTA	3	145006507	Materiales Compuestos	3
CTA	3	145006503	Vibraciones	3
CTA	4	145007506	Aeroelasticidad	3
CTA	4	145007503	Aeroreactores	6
CTA	4	145007512	Dinamica de Fluidos Computacional	3
CTA	4	145007001	Gestion de Empresas y Proyectos	4,5
CTA	4	145007504	Motores Alternativos Aeronauticos	3
CTA	4	145007505	Motores Cohete	4,5
CTA	4	145007511	Metodos de Elementos Finitos	3
CTA	4	145007502	Mecanica del Vuelo	6
CTA	4	145008502	Vehiculos Aeroespaciales	6

Curso	Codigo	Asignatura	Titulacion	ECTS	Idioma
W/S	WK	Materials science	Bachelor of Aeronautical Engineering	7	DE
2	M0711	Numerical Mathematics II	Master of Computational Science and Engineering	6	DE / EN
Winter	TZ	Technical drawing	B.Eng. Aircraft construction	9	DE
W/S	-	Strength in lightweight construction	B.Eng. Aircraft construction	5	DE
4	M0680	Fluid Dynamics	Bachelor of Mechanical Engineering	6	DE / EN
W/S	HFL	Higher strength theory for lightweight constructio	M.Sc. Aircraft construction	6	DE
Summer	AML1	Aerodynamics with Laboratory 1	Aeronautical Engineering (Bachelor)	5	DE
2	M0714	Numerical Treatment of Ordinary Differential Equa	Master of Aircraft Systems Engineering	6	DE / EN
2	M0846	Control Systems Theory and Design	Master of Aircraft Systems Engineering	6	EN
2	M1156	Systems Engineering	Master of Aircraft Systems Engineering	6	DE
2	M1343	Fibre-Polymer-Composites	Master of Aircraft Systems Engineering	6	EN
1 o 2	-	Multibody and structural dynamics in vehicle and a	M.Sc. Aircraft construction	6	DE
-	-	Aircraft Engines	Aircraft Construction (Bachelor)	5	EN
-	L0908	Turbo Jet Engines	Master of Aircraft Systems Engineering	3	DE
5	M0655	Computational Fluid Dynamics I	Bachelor of Mechanical Engineering	6	DE
1 y 3	M0523	Business & Management	Master of Aircraft Systems Engineering	6	DE / EN
Summer	VMG	Basics of internal combustion engines	B.Eng. Aircraft construction	5	DE
3	M0808	Finite Elements Methods	Master of Aircraft Systems Engineering	6	EN
W	FM	Flight mechanics	Aircraft Construction (Bachelor)	5	DE
1 y 2	M0771	Flight Physics	Master of Aircraft Systems Engineering	6	DE
-	-	Aircraft Design	Aeronautical Engineering (Bachelor)	5	EN

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ENLACE 2 https://www.haw-hamburg.de/fileadmin/zentrale_PDF/TI/Modulhandb%C3%BCcher/Fahrzeugtechnik_und_Flugzeugbau/Modulhandbuch-FA-FL-BA.pdf
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