

Individual Electives COME

University	Module	Course Name
Accepted Courses		
TUM	EI8031	Power Electronics
TUM	EI8028	Electrical Machines
Instituto Superior Tecnico Lisboa, Portugal	IST3	ATHENS - Operational Research
TUM	MW2228	Aeroelasticity
TUM	EI71004	MOOC Communication in Acoustics
TUM	MW1277	Simulation of Thermofluids with Open Source Tool
TUM	TUEIFEI	Seminar Kognitive Robotik und Regelung
TUM	IN2252	High Performance Computing - Algorithms and Applications
TUM	TUM25	ATHENS - Towards Computational Steering – Fundamentals of Modelling, Parallelisation and Visualisation
TUM	MW2152	Modeling, Control and Design of Wind Energy Systems
TUM	MW1421	Zuverlässigkeitstheorie
TUM	BV650001	Building Information Modeling
TUM	MW2246	Crash Simulation
TUM	TUM16	Structural Reliability
TUM	MW0696	Particle-Simulation Method in Fluid Dynamics
TUM	MW2256	Helicopter Aerodynamics: Advanced Topics
TUM	BV500003	Unsaturated soil mechanics
TUM	BV090061	Prestressed and Post-Tensioned Structures
Delft University of Technology, Holland	TUD01	ATHENS - Introduction to Finite Elements and Algorithms
Mines ParisTech, Frankreich	MP06	ATHENS - Nonlinear Computational Mechanics
TUM	MW2335	Numerische Kontakt und Interface Mechanik
TUM	MW0644	Finite Elemente in der Fluidmechanik
TUM	MW2270	Discontinuous Galerkin Methods for Computational Mechanics
TUM	IN2318	Autonomous Navigation for Flying Robots
Mines ParisTech, Frankreich	MP08	Physics and Mechanics of Random Media
KU Leuven, Belgien	KUL27	ATHENS - Sports, Building and City Aerodynamics
TUM	BGU60015	Reliability for Engineering Systems
TUM	MW1581	Fluid Machinery
TUM	MW0642	An Introduction to Microfluidic Simulations
TUM	MW0085	Multidisciplinary Design Optimization
TUM	MW1412	Prozesssimulation und Materialmodellierung von Composites
TUM	MW2134	Computational Thermo-Fluid Dynamics
TUM	EI7478	Practical Course Humanoid RoboCup
ENSTA ParisTech, Frankreich	TA14	ATHENS - Artificial satellites and applications

TELECOM ParisTech, Frankreich	TPT37	From complexity to Intelligence
Arts et Metiers ParisTech, Frankreich	ENSAM6	Introduction to Musculoskeletal and Osteoarticular Biomechanics
TUM	MW2221	Fundamentals of Aircraft Operations from Chair of Aircraft Design
TUM	MW2290	Fundamentals of Helicopter Aerodynamics from chair of helicopter Technology
TUM	MW1364	Internal Combustion Engines (MSPE)
TUM	BV610001	Orbit Mechanics
Universidad Politecnica de Madrid	UPM119	ATHENS - Complex Coastal Hazards
TUM	MW0207	Motorradtechnik
TUM	MW0165	Entwicklung von Fahrzeugkarosserien
TUM	MW0866	Mehrkörpersimulation
TELECOM ParisTech, Frankreich	TPT40	Practice of Large Scale Machine Learning
Mines ParisTech, Frankreich	MP10	Deep Learning For Image Analysis
ENSTA ParisTech, Frankreich	TA07	Wind propulsion
TELECOM ParisTech, Frankreich	TPT01	Image Processing
TUM	MW2135	Simulation Mechatronischer Systeme - Anwendungsorientierte Einführung
Budapest University of Technology and Economics	BME4	Danube Bridges in Budapest
University Politehnica of Bucarest	UPB1	Digital twining in industrial engineering
University Politehnica of Bucarest	UPB3	Augmented Reality and Virtual Reality technologies as support for Industry 4.0
TUM	IN2346	Introduction to Deep Learning
TUM	BV600004	Zuverlässigkeitstheorie
TUM	IN2311	Turbulent Flow Simulation on HPC-Systems
TUM	BGU42013	Computergestützte Bemessung von Stahl- und Stahlverbundkonstruktionen
TUM	MW2382	Visualisierungstechniken in der Numerischen Mechanik Praktikum
TUM	BV340009	Entwurf von Verkehrswegen
TUM	BV460014	Hydrodynamische Modellierung für Umweltingenieure
TUM	BV130002	Optimierungsverfahren Simulation und Operations Research
TUM	EI71058	Machine Learning and Optimization
vhb, FAU	LV_288_830_3_70_1	Integrated production systems
TUM	BV410004	Fluidmechanik Praktikum
TUM	BV170051	Energy Economics and Hydro Power
TUM	MW1475	Regenerative Energiesysteme 1
TUM	IN2356	Autonomous Driving
TUM	MW0538	Moderne Methoden der Regelungstechnik 1
TUM	EI70130	Machine Learning in Robotics
TUM	MW1817	Biomechanik - Grundlagen und Modellbildung
TUM	MW2445	Machine Learning Based Modeling in Structural Dynamics
TUM	MA5344	Lattice Boltzmann Method
TUM	MW2395	Gestaltung und Zerlegung dynamischer Systeme

TUM	IN2067	Robotics
TUM	MW2414	Computational Acoustics in Python
TUM	BGU63017	Numerische Methoden im Stahlbetonbau
TUM	IN2003	Efficient Algorithms and Data Structures
TUM	MW2476	Additive Manufacturing with Metals
TUM	MW2373	Introduction to Nonlinear Dynamics and Chaos
TUM	MW0142	Aerodynamik bodengebundener Fahrzeuge
TUM	MW0832	Aircraft Performance
TUM	IN2189	Computer Architecture and Networks
TUM	MW2296	Structural Dynamics Computer Lab
TUM	MW2337	Numerical Methods for Conservation Laws
TUM	IN2001	Algorithms for Scientific Computing
TUM	MW2285	Wind tunnel testing of wind turbines
TUM	MW0305	Experimental Fluid Mechanics – Practical Course
TUM	MW1869	Laboratory Course Energy Systems for MSPE
TUM	IN2357	Machine Learning for Computer Vision
TUM	MW1846	Praktikum Numerische Strömungssimulation
TUM	MW2278	MATLAB / Simulink for Computer Aided Engineering
TUM	MW2267	Design of Wind Turbines
TUM	MW2245	Think. Make. Start.
TUM	MW2478	Hydrodynamic Stability
TUM	MW0007	Aerodynamics of Aircraft I
TUM	MW1393	Analysis and Design of Composite Structures
TUM	MW0153	Structural Fatigue and Reliability Analysis
TUM	MW0001	Fluid Mechanics II
TUM	MW0357	Gas Dynamics
TUM	MW1920	Machine Dynamics
TUM	MW0130	Thermodynamics II
TUM	LRG6301	Introduction to ROS (Robot Operating System)
TUM	MW2247	Numerical Biomechanics Lab
TUM	BGU60021	Risk Assessment and Reliability of Engineering Systems
TUM	MW2451	Hands-on Deep Learning
TUM	INHNO008	Algorithmen und Datenstrukturen
TUM	ED160011	Numerical Optimization for Robot Design and Control
TUM	MW2149	Introduction to Wind Energy
TUM	IN2298	Advanced Deep Learning for Physics
TUM	MW2322	Nonlinear Flight Control
TUM	MW2444	Einführung in aktuelle Forschungsthemen der Numerischen Mechanik

TUM	IN2354	3D Scanning & Motion Capture
TUM	MW2426	Cyber-Physical Systems Lab: Autonomous Applications
TUM	MW2323	Computational Acoustics
TUM	MW1692	Aeroakustik
TUM	ED180014	Development of Wind Energy Projects
TUM	MW2471	Practical Course: Composite Materials