English-taught Master’s degree courses at TU Darmstadt

» Distributed Software Systems
» Information and Communication Engineering
» International Cooperation in Urban Development
» Materials Science
» Tropical Hydrogeology and Environmental Engineering (TropHEE)

www.tu-darmstadt.de/studieren/abschluessse/master/

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The selection shows courses that have been taught in English in the past at TU Darmstadt as of May 2016.

### Humanities

- **Law and Economics**
  - Creating a Start Up
  - Decision Support Systems
  - Energy Finance
  - Entrepreneurship
  - Intermodal Transport Service
  - International Financial Reporting
  - International Trade and Investment
  - Inventory Management
  - IT Project Management
  - Leadership
  - Logistic & Transport Management in Practice
  - Logistics Planning
  - Planning in multimodal Transportation
  - Productivity and Efficiency Analysis
  - Public Economics
  - Technology Management

- **History and Social Sciences**
  - Advanced SSIP course
  - Bodies in Popular Culture
  - Computer Applications in Linguistics
  - Developments and challenges of corpus and computational linguistics
  - Emissions in International Politics
  - English language course I. lexics, grammar, text
  - English language course II. academic writing
  - Exercise digital philology: introduction
  - Gender and Representation: Ways of Seeing
  - Introduction to Linguistics I. Tutorial + II
  - Introduction to Literary Studies I. Tutorial + II
  - Language Course Academic Writing for Digital Humanities and Sciences
  - Local government in Germany and Turkey: Current challenges of German and Turkish cities
  - Macquarie in India
  - Methods II. Planning and conducting empirical surveys in political science
  - Methods and Techniques for Natural Language Processing
  - Onomastical Keywords in World Politics
  - Policy Expertise in Democratic Governance
  - Science and Politics in Climate Change Policy
  - Standard Tools for Linguistics and Humanities Computing
  - Techniques of philological data processing
  - Techniques of philological investigation
  - The EU-Turkey Relations in Europeanisation Context
  - The making of urban resilience: critical infrastructures in Africa
  - Urban Technologies, 1850 – 2000
  - Urban Technologies in Africa
  - Using Mobile Phones in Web Surveys
  - Utopia and Dystopia
  - Varieties and capacities of federal institutional arrangements: democracy, diversity management and reform capacity in plural Western democracies
  - Vergleich II: North American Government. Comparing Canada and the United States
  - Quality TV: Transpositions, adaptations, remakes

### Human Sciences

- Applied cognitive modeling
- Computational foundations of cognitive science
- Genderforschung

### Biology

- Cell Biology
- Plant Biotechnology
- Plant Metabolic Engineering

### Materials and Earth Sciences

- Applied Clay Mineralogy
- Clay Mineralogy
- Contaminant Hydrogeochemistry
- Field Course Sedimentary Systems
- FocusedIon Beam Microscopy: Basics and Applications
- Fossil Groundwater Systems
- Geoinformation System 1 + II
- Geophysical Methods
- Geophysical Field Course
- Ground Penetration Radar (GPR)
- Groundwater Modelling I + II
- Groundwater Remediation Technology
- Hydrochemistry
- Hydrogeological Field Course
- Hydrogeology
- Industrial Excursions Germany
- Isotopes Hydrology and Dating
- Multiphase Flow in Geophysical Reservoirs
- Physical Hydrogeology
- Palynology and Petrology
- Remote Sensing
- Salinization of Groundwater
- Scanning Transmission Electron Microscopy for Materials Science
- Sedimentary Basins
- Soil Protection and Soil Erosion

### Electrical Engineering and Information Technology

- Acceleration of Charged Particles in Electromagnetic Fields
- Accelerator Physics and Technology
- Adaptive Filters
- Advanced Digital Integrated Circuit Design
- Advanced Integrated Circuit Design Lab
- Advanced Power Electronics
- Advanced Topics in Micro- and Nano Electronics
- Advanced Topics in Statistical Signal Processing
- Advances in Digital Signal Processing: Imaging and Image Processing
- Algorithms for Mobile Networks
- Analog Integrated Circuit Design
- Antenna and Beamforming
- Application, Simulation and Control of Power Electronic Systems
- Circuit Building Blocks for Communication Systems
- Communication Networks I. III + IV
- Communication Technology II
- Communication Network Dynamics: Theory and Applications
- Computational Electromagnetics and Applications I. III
- Computer Aided Design for Integrated Circuits
- Content Networking
- Control of Drives
- Convex Optimization in Signal Processing and Communications
- Design of Electrical Machines and Actuators with Numerical Field Calculation
- Digital Signal Processing + Lab
- Electrical Engineering and Information Technology
- Electromagnetic Processes
- Energy Converters and Electric Drives
- Energy Converters – CAD and System Dynamics
- Future Electrical Power Supply
- Hardware Design & VHDL
- High-Level Synthesis
- High-Level Synthesis
- High-Voltage Technology II
- Information Theory I + II
- International Summer School “Microwaves and Lightwaves”
- Lab Advanced Topics in Communication Networks
- Laboratory Communication and Sensor Systems
- Lab Seminar Advanced Topics in Communication Networks
- Large Generators and High Power Drives
- Low-Level Synthesis
- Microcontroller Systems
- Microwave Engineering II
- Microwave Sensors
- MIMO – Communication and Space-Time Coding
- Mobile Communication
- Mobile Phone-based Participatory Sensing and its Analysis in Mobile Communities
- Motor Development for Electric Drive Systems
- Multimedia Communications Lab I + II
- Multimedia Communications Project 1, II, Project Seminar 8, Seminar 7 + 8
- New Technologies of Electrical Energy Converters and Actuators

### Computer Science

- Computer Vision
- Natural Language Processing and the Web
- Operating Systems
- Practical Lab: Question Answering Techniques Behind IBM Watson
- Practical Lab: Software Development Tools
- Project Lab: Capturing Reality
- Project Lab: Serious Games
- Seminar: Cryptography, Privacy and Security
- Seminar: Current Tools for Language-Based Security
- Seminar: Cyber Security Seminar
- Seminar: Decision Procedures
- Seminar: Implementation Secure & Reliable Software
- Seminar: Internet of Things Cryptography
- Seminar: Mobile Security
- Seminar: Multimedia Technology
- Seminar: on Multimedia Technology
- Seminar: Program Design
- Seminar: Scalable and PDF methods in image analysis and processing
- Seminar: Secure Software Development
- Seminar: Security and the Cloud – The Issues and Metrics
- Seminar: Seminar Smart Cities
- Seminar: Seminar TR: Security, Privacy and Trust
- Seminar: Serious Games Seminar
- Seminar: Smart Grid Informatics and Trustworthiness
- Seminar: Text Analytics
- Seminar: Weighted Automata
- An introduction to TLV
- Machine Learning: Statistical Approaches 1
- TEx: Ubiquitous / Mobile Computing