



# MBA PROGRAM

## Sustainable Mobility Management

A full-time postgraduate three-semester master's degree program taught exclusively in English at Technische Universität Berlin.



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# Welcome to Technische Universität Berlin



Dear Students,

Welcome to the internationally renowned Technische Universität Berlin located in Germany's capital city at the heart of Europe. I am most delighted that you have chosen our institution for your master's degree.

With over 34.000 students, TU Berlin is one of the largest universities of technology in Germany. One of our most important tasks is to prepare our students for the challenges they will face in the future.

The program will provide you with basic knowledge and skills connecting theory, research and practice. For these educational objectives, the EUREF Campus of TU Berlin offers an inspiring atmosphere and a great number of outstanding scientific events.

With this brochure, we would like to help you in getting started at TU Berlin. You will find an introduction to the Master program as well as helpful links and contact details. For further information, please do not hesitate to contact our team of the Academic Advisory and Examination Office. They are here to assist you with all the necessary formalities.

I wish you a motivating and successful time at our university.

**Prof. Dr. Christian Thomsen**

President



**Prof. Dr. Hans-Liudger Dienel**  
Academic Director



**Prof. Dr. Andreas Knie**  
Academic Director



**Dr. Massimo Moraglio**  
Academic Coordinator



**Nora Bonatz**  
Academic Coordinator



**Alina Pfeifer**  
Administrative Coordinator

Dear Students,

The MBA in Sustainable Mobility Management is designed for transport engineers, transport and mobility experts, planners, architects, and sustainability project managers who want to gain in-depth, special knowledge in the field of sustainable mobility management.

Authorities, businesses and other agencies engaged in transport and mobility must rethink their current strategies. Each urban area faces its own specific set of challenges: congestion, emissions, safety, accessibility and economic implications are only some factors that account for the mobility situation that inhabitants experience. This implies an increased need for broadly educated, skilled managers, capable to frame those issues with social shifts, new technologies and innovative business models.

TU Berlin's MBA program in Sustainable Mobility Management closes the educational gap in this field and prepares students for leadership positions by training people who can deliver cutting-edge and sustainable mobility solutions. The master program is intended for an international and diverse audience: Learning and studying in small groups of up to 30 students means excellent and tailored learning conditions.

**We are looking forward to meeting you!**

# Studying Sustainable Mobility Management with the Experts

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The growing environmental impact of transport systems, as well as their energy voracity, require new approaches and new concepts. This MBA offers an integrative design across disciplines, addressing a range of different perspectives. The theory and practice-driven approach gives students both a conceptual understanding and the skills needed to tackle practical problems, covering the needs of strategy development, analysis and implementation, complex decision-making and project management.

Students who are the future mobility experts learn in a close cooperation with leading enterprises and institutions located on the EUREF-Campus to become acquainted also with practical projects in the field of energy, infrastructure and mobility.

The program's interdisciplinary content, which covers the social, economic, technical and governance aspects of tomorrow's sustainable mobility, gives students and future employees a distinctive profile and qualifies them for a leading position in the mobility sector.

The students completing this MBA will have career possibilities within transport supplier and equipment industries, national or international organizations, as well as with national, regional or municipal public authorities.

Graduates will be able to plan and manage complex projects in the transport and mobility fields. The program provides the knowledge and skills for assessing projects from social, sustainability and economic perspectives and for creatively, in teams or independently, finding solutions that consider the varying stakeholders' interests.



# Program Structure

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The master's degree program is taught in English over a period of three semesters. The first two semesters include lectures, tutorials, seminars and excursions. In the third semester students can specialize by choosing electives according to their interest. The program will be completed in the third semester by writing a master thesis.

The first semester is dedicated to the fundamentals of mobility and sustainability, considering these issues from different perspectives such as economic factors, social and managerial elements, and naturally including technological drivers.

In the second semester, trends and the future of transport as well as the transition toward sustainable mobility will be the main focus, which encompass also the issue of governance and management of complex structures. A lecture series will provide world-based case studies and different perspectives from experts.

The third semester is mainly devoted to specialization and the master thesis. Elective courses for specialization are offered.



# MBA Program

## Sustainable Mobility Management

|                  | 1 <sup>st</sup> Semester | 2 <sup>nd</sup> Semester                   | 3 <sup>rd</sup> Semester            |                     |
|------------------|--------------------------|--|-------------------------------------|---------------------|
| Orientation Week | Technology<br>9 ECTS     | Management<br>12 ECTS                      | Compulsory<br>Elective I<br>6 ECTS  | Graduation Ceremony |
|                  | Economics<br>6 ECTS      |  | Compulsory<br>Elective II<br>6 ECTS |                     |
|                  | Business<br>9 ECTS       | Mobility Actors<br>and Practices<br>6 ECTS | Master Thesis<br>18 ECTS            |                     |
|                  | Law<br>6 ECTS            | Mobility Trends<br>and Futures<br>6 ECTS   |                                     |                     |
|                  | Lecture Series<br>6 ECTS |  |                                     |                     |
|                  | 30 ECTS                  | 30 ECTS                                    | 30 ECTS                             |                     |

# Module Description



## MODULE 1 | Technology (9 ECTS)

Students will identify and analyze different aspects that are relevant to transport-related techniques and operation and deepen their knowledge of mobility and propulsion technologies and systems in the framework of today's changing world. Students can use their knowledge to identify and calculate technical potentials and restrictions and assess the relevance regarding sustainability.

## MODULE 2 | Economics (6 ECTS)

Besides recognizing fundamentals of economics, including prices and markets, production and pricing decisions, natural resource economics, merit order effects, external effects, trading in allowances, the students will be able to use fundamentals in investment decisions, market failures and regulation, sustainability and global commons. The students will develop and apply economic theory to the field of transport.



## MODULE 3 | Business (9 ECTS)

The students will understand the fundamentals of management and business administration; business functions: accounting, marketing and sales, organization, industry analysis, business units and strategy. The students will get acquainted to the concepts of supply chain management, distribution and logistics, production and quality and Personnel.

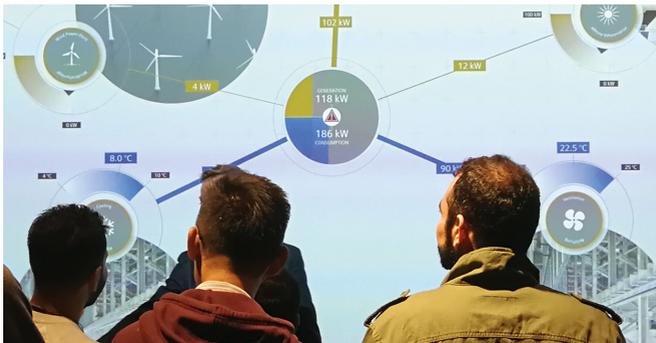


## MODULE 4 | Law (6 ECTS)

The students will recognize the fundamentals of Civil, Private and Commercial Law as well as Public Law and its role in regulating the transport-related industry; finally, the students will get acquainted to the governance and regulatory framework of today's transport systems, on global, EU and German levels.

## MODULE 5 | Management (12 ECTS)

Students are able to independently identify, analyze and design strategic approaches taking into account the consequences of environmental changes for planning, management and controlling. They incorporate technological, economic, business and legal processes in companies and organizations and consider social responsibility and sustainable development.



# Module Description



## **MODULE 6 | Mobility Actors and Practices** (6 ECTS)

The module teaches the fundamentals of mobility concepts and approaches, transport systems, and theories in sustainable mobility. The module focuses on recognizing mobility as a socio-technical system. Students will deal with and manage the social, economical and technological tensions and critical points emerging in the implementation of the transition toward sustainable mobility.

## **MODULE 07 | Mobility Trends and Futures** (6 ECTS)

Students will understand mobility trends to ultimately tackle the future complexities of open and interconnected transport. Students will be able to assess societal and technological shifts and changes, gaining knowledge of the forecasting basics in order to develop scenarios and plan long-term concepts in mobility transition.



## **MODULE 08 | Lecture Series** (6 ECTS)

At the end of this module, students will have an overview of state-of-the-art sustainable mobility trends. National and international experts from industry, academia and research centers involved in the transition toward sustainable mobility will present different opinions, case-studies and perspectives.

## Compulsory Electives



### Data Analysis and ICT in Mobility (6 ECTS)

The students will learn fundamentals of data analysis and modelling to support decision-making and can assess current and future practices of the digitalization within the transport sector and services. Students are able to recognize disruptive factors as a consequence of the digitalization within the mobility sector and find suitable solutions as well as develop future scenarios.

### Business Model & Investment in Sustainable Mobility (6 ECTS)

The students will know the fundamentals of financial instruments and business practices and apply those to implement sustainable mobility. They will learn to develop economic and financial models in transport investment as well as design traditional and innovative business models.



### Urban & Transport Planning in Emerging Economies: Concepts and Experiences (6 ECTS)

Students will get acquainted with transport and urban planning; they will develop knowledge of smart city concepts, theories and criticism. Case studies introduce mobility challenges in emerging countries and students will learn how to develop suitable and effective instruments to address these.

The students can also choose as elective the elective modules offered by the MBA Energy Management and MBA Building Sustainability.

# Lecturers

German and international experts from academia, research institutes and industry share their expertise and knowledge in the lectures of the MBA program. Following an overview of a selection of some lecturers engaged in the program.

|                               |  |
|-------------------------------|--|
| Dr. Wulf-Holger Arndt         | Technische Universität Berlin                  |
| Dr. Sophia Becker             | Technische Universität Berlin                  |
| Dr. Hamid Mostofi Darbani     | Technische Universität Berlin                  |
| Prof. Dr. Hans-Liudger Dienel | Technische Universität Berlin                  |
| Dr. Ulrike Engel-Ziegler      | DB Engineering & Consulting GmbH               |
| Dr.-Ing. Tu-Anh Fay           | Technische Universität Berlin                  |
| Dr. Irene Feige               | Institute for Mobility Research – BMW Group    |
| Prof. Dr. Dietmar Göhlich     | Technische Universität Berlin                  |
| Dr. Gabriele Grea             | Univ. Bocconi/private consultant, Italy        |
| Prof. Dr.-Ing. Markus Hecht   | Technische Universität Berlin                  |
| Prof. Dr. Christian Hoffmann  | e-fect dialog evaluation consulting eG, Berlin |
| Prof. Dr. Andreas Knie        | Berlin Social Science Center                   |
| Dr. Matthias Lang             | Partner at Bird & Bird Deutschland             |
| Prof. Dr. Barbara Lenz        | Institute of Transport Research, Berlin        |
| Thomas Meissner               | Berlin Partner for Business and Technology     |
| Dr. Massimo Moraglio          | Technische Universität Berlin                  |
| Dr. Roland Nolte              | IZT, Berlin                                    |
| Prof. Dr.-Ing. Michael Rodi   | Greifswald University                          |
| Dr. Lisa Ruhrort              | Berlin Social Science Center                   |
| Dr. Robert Schönduwe          | MOTIONTAG GmbH, Berlin                         |



Lecturers share their diverse backgrounds and different experiences to offer us an insight into the market trends and the impacts they have on the future of our world.

Abdulghani, Intake 2019

”

Transitions to sustainable mobility will not be guided only by technological innovation processes, but also by societal trends and new political and regulatory frameworks. The MBA Sustainable Mobility Management gives students the analytical tools to understand the complex dynamics between society, technology and politics in the rapidly changing world of mobility.

**Lisa Ruhrort**  
Berlin Social Science Center and Lecturer  
for the MBA program



Mobility is changing and sustainability becomes more and more important for future transport solutions. The MBA Programm Sustainable Mobility gives a sound insight to fundamentals, it covers system solutions but also broadens the students view from technical to societal aspects. With experts from industry and research institutes students will gain important knowledge to understand the challenges for transforming towards sustainable mobility.

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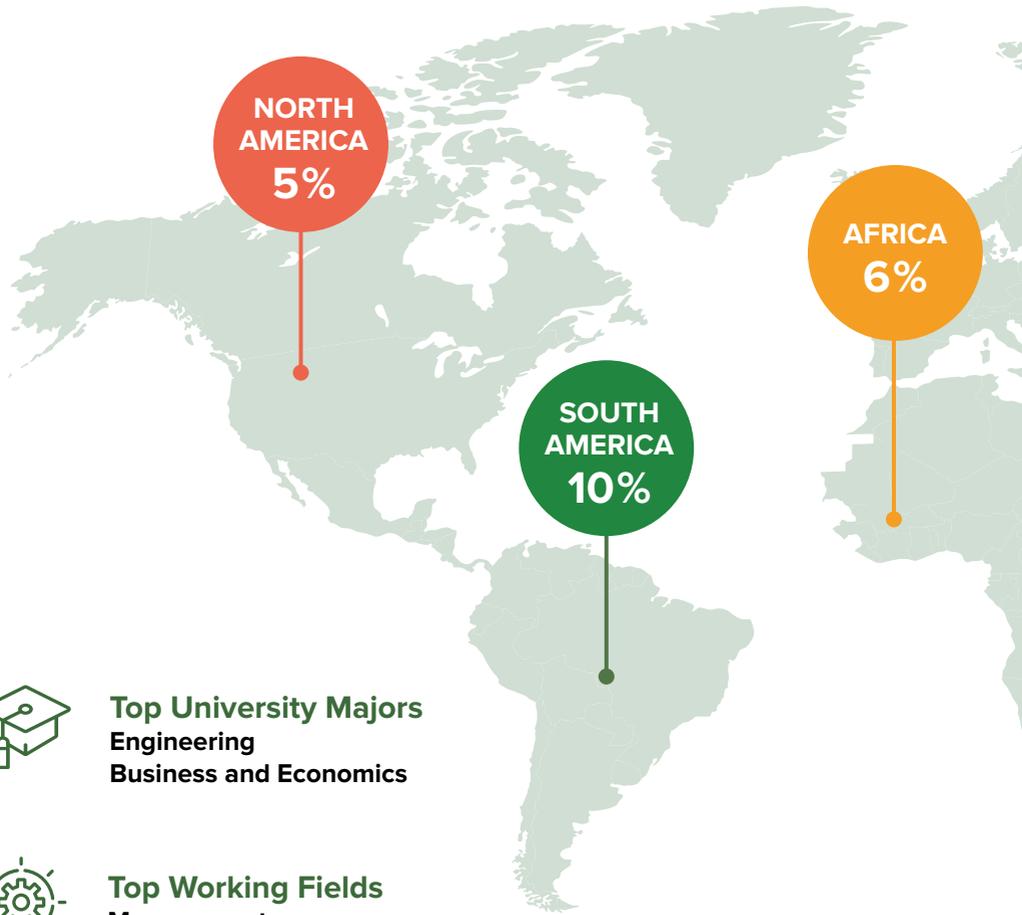


**Tu-Anh Fay**  
Technical University Berlin and  
Lecturer for the MBA program



**Prof. Dr. Dietmar Göhlich**  
Technical University Berlin and  
Lecturer for the MBA program

# Class Profile



**Top University Majors**  
Engineering  
Business and Economics



**Top Working Fields**  
Management  
Transportation & Engineering

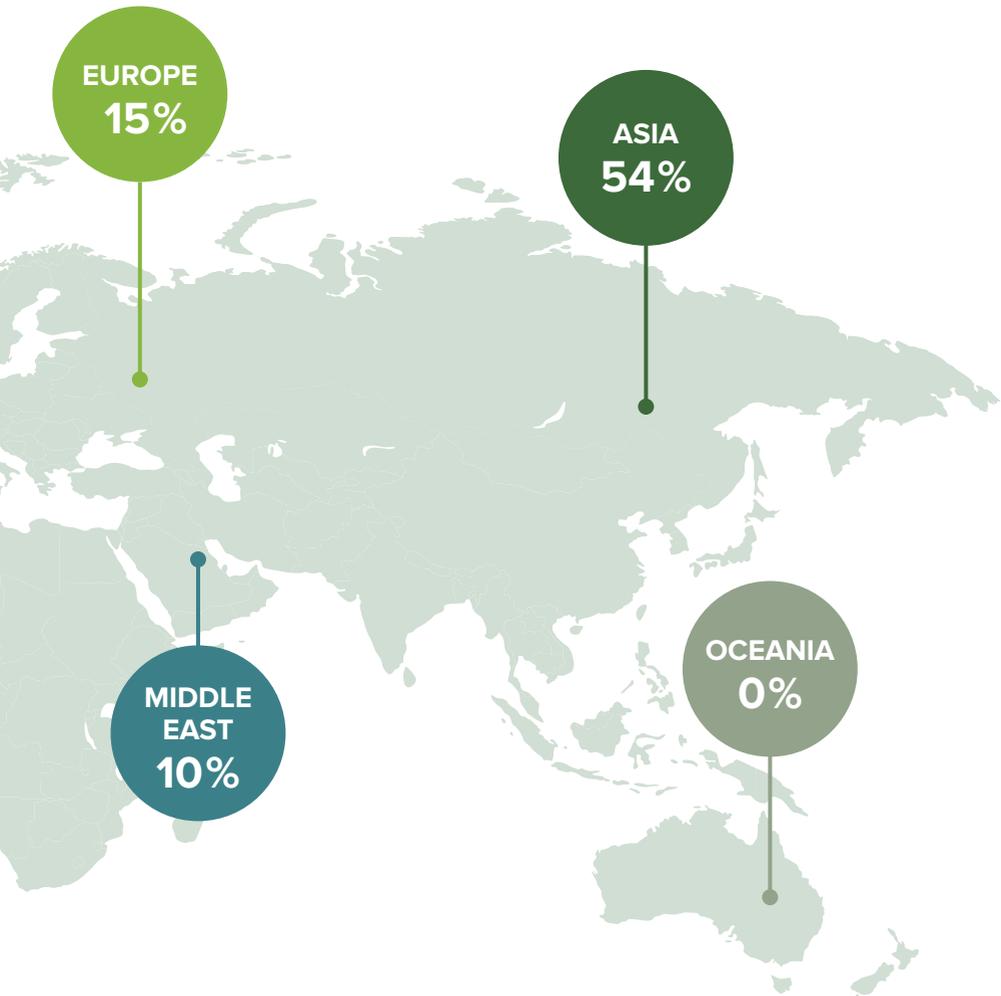


**Ø Age in years 28**  
youngest 22  
oldest 41



**80%**

**20%**



The most valuable part of the program was the opportunity to make connections with like-minded people with extremely diverse backgrounds, interests and ideas all working towards a common goal of achieving sustainable mobility.

”

Sina, Intake 2018

# Technische Universität Berlin

## EUREF-Campus

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The main location for lectures, seminars and activities is the European Energy Forum (EUREF). The Campus around the historical Gasometer in Berlin-Schöneberg is a cluster of mobility and energy start ups and companies pushing forward the energy transition and smart city concepts. It serves as a testing ground for new technologies and innovative business ideas based on the philosophy of sustainability. The Campus achieved already in 2014 the CO<sub>2</sub>-climate targets of the German Federal Government for 2050.

The classrooms at the Euref-Campus offer an excellent learning environment where students learn in close cooperation with leading enterprises and institutions to become acquainted also with practical projects in the field of energy, infrastructure and mobility.



”

Having the opportunity to step in the bubble on the Euref campus works very inspirational. It's a campus with the focuses on start-ups or spin-off from companies which are seeing the major trends coming up such as the energy transition in society, cybersecurity or the green deal of the EU commission.

Jacqueline, Intake 2018

## Excursions



Field trips and company visits supplement the lectures and seminars and combine theoretical knowledge with practical experiences. Excursions vary from power plants and electric charging stations in Berlin to a visit to GIZ and ICLEI in Bonn, a ferry tour around the Port of Rotterdam and cargo bikes in Amsterdam. Students also benefit from visiting exhibitions and conferences.

”

Bonn trip was like a brief introduction about what you can explore in the next 1,5 years. The best beginning for any program.

Adarsh, Intake 2019

Excursions and visits to companies were very well organized, giving us the opportunity to be in contact with cutting-edge technology and excellent professionals. Moreover, studying together with colleagues from other countries and different backgrounds has been a really enriching experience.

”

Victor, Intake 2019

# Paris is always Paris and Berlin is never Berlin

Jack Lang | Former Culture Minister of France, 2001

Germany's start-up hotspot  
309 start ups in Berlin



Historical city and  
cultural attractions

**175** museums

**150** theaters

**300** galleries

Center of political  
decisions and protests

**10** demonstrations per day

**1<sup>st</sup>** mobility act in Germany



City of reunion  
and diversity

European Metropolis  
German capital and government seat



## Recreation

**15.000** ha forests

**2500** parks

**50** lakes

”

Berlin gathers all mobility problematics of main cities around the world but also is a big lab to observe and learn how the private and public sector manage the future of mobility looking for sustainability in all modes.

Andres, Intake 2018



# Application procedure

The application period is from beginning of February to end of April for a start in October of the same year.

The number of students is limited to 30 per year. The admission committee will select based on results of former studies, professional achievements, and further relevant qualifications that were attained outside university.

You can find more information about the application procedure online on our website:

[www.master-in-mobility.com](http://www.master-in-mobility.com)



Send your application via:

[www.master-in-mobility.com/application/](http://www.master-in-mobility.com/application/)



This is a unique MBA fit for preparing expertise and talents to address current issues relating to efficient and environmentally sustainable mobility provision. If you are looking to be part of the mobility transformation across the globe, then Berlin is the right place to be and the Energy Masters program on Sustainable Mobility Management will be a great platform to realising this goal.

Samuel, Intake 2019



## Application documents

The following documents are required:

- ✓ First University degree (at least 210 ECTS)
- ✓ Transcript of records
- ✓ Proof of work experience of at least 1 year after completion of studies, preferably in the relevant areas of transport and planning
- ✓ Tabular CV
- ✓ Motivation letter in English (max. 1 page A4)
- ✓ Proof of English language proficiency at Level B2 (or higher) of CEFR (not required for high school graduation in English)
- ✓ If available Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE)

## Tuition Fee

The tuition fee for the program amounts to 15.000 Euro including the regular administration fees and the semester ticket for the public transport service in Berlin (tariff zones ABC). The fee can be paid in semester instalments.

”

Very helpful and committed professionals, who make the dense, callous and bureaucratic side of German culture quite a lot lighter.

David, Intake 2019

**Impressum:**

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