# BUILDING SUSTAINABILITY IN URBAN FUTURES MBA


**Intake 2024 – 2025**

Winter Semester 2025/26

Last updated on: 13.05.2026

THIS PUBLICATION REFLECTS THE STATE OF PLANNING AT THE TIME OF PRINTING.

TUB/CO GmbH
TU Berlin ScienceMarketing
Hardenbergstraße 19
10623 Berlin
Deutschland

Dear students,

As stated in the MBAs regulation, in the third semester, each student needs to take two elective courses. You have selected two courses, of your choice, among the nine courses listed below.

The electives will conclude, with the Master Thesis, your activities for the MBA. In this brochure, you find the contents, dates, exam procedures, and lecturers engaged in each of the electives.

Our best wishes for a fruitful final semester!

The MBA Energy Master's team

# Overview

# Outline

## Location and Times

Unless otherwise announced, lectures, tutorials, consultancy, and peer group meetings take place at House 9, EUREF-Campus, 10829 Berlin. The time is CET.

## Third semester

**Winter Semester 2025/26**

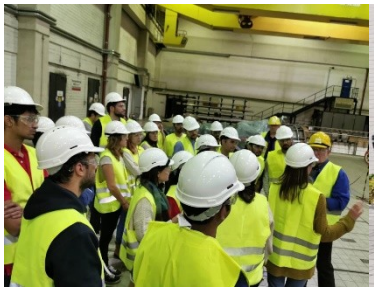
| | |
|---|---|
| Duration of the semester: | 01.10.2025 - 31.03.2026 |
| Lecture period: | 13.10.2025 - 14.02.2026 |
| Lecture-free period: | public holidays and 22.12.2025 - 03.01.2026 |

## Lectures

Lectures are held by professors and academic staff of TU Berlin and other universities, and by professionals of the mobility industry. Group work is frequent. Homework may be assigned. Lectures start *sin tempore*, i.e. sharp.

## Company Visits

Company Visits give the opportunity to go and see the company on-site and see course-content livelier presented. Registration before attendance may be required.




## German Classes

Language classes are offered on campus and incur a small additional fee. Advanced language classes are available, for which taking a test is mandatory.
For more information, visit the website of Sprach- und Kulturbörse here.

## E-Learning Platform ‘Moodle’ and WirelessLAN

Information System for Instructors and Students (ISIS)/Moodle is a software for online learning platforms for announcements, distribution of material, registration to events, etc. An introduction will be given in the first week. Please log on frequently, even in lecture-free times. The TU Berlin offers WirelessLAN (WLAN) with full coverage across its campus. Students can access the internet from any point on the campus.

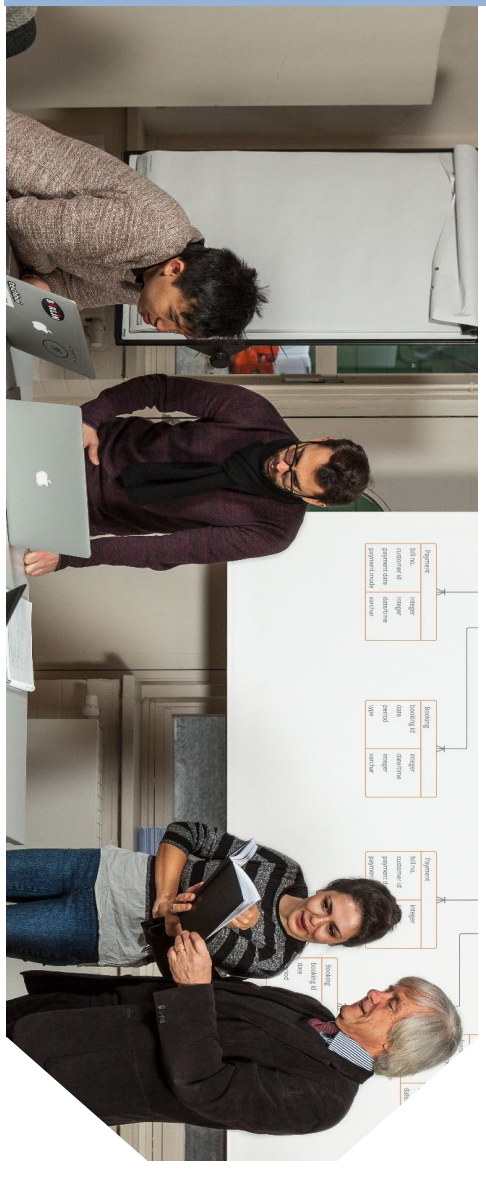
## Exams

An exam concludes each module. Everything that was taught in the lectures, tutorials, and compulsory company visits within the module may be subject to examination. Exams start on time! In case a student wishes to withdraw from an exam, they must inform the competent body at least one day before the exam date; in case of a valid reason (e.g. sickness), a student can withdraw from an exam anytime but have to inform the competent body and submit a proof latest 5 days after the exam date. Otherwise, the exam will be marked as failed. A failed examination may be repeated twice. For further details, please refer to the official Study and Examination Regulation.

## Grading Scale

| Grade | Assessment | Definition |
|---|---|---|
| 1.0 / 1.3 | Very good | Outstanding performance |
| 1.7 / 2.0 / 2.3 | Good | Performance above average requirements |
| 2.7 / 3.0 / 3.3 | Satisfactory | Complies with the average overall requirements |
| 3.7 / 4.0 | Adequate | Performance which, despite some flaws, still complies with performance requirements |
| 5.0 | Inadequate | Performance with significant flaws which does not comply with requirements |

# Third Semester
# WiSe 2025/26



# Social and Academic Events

## Christmas Dinner

11th December

## Fun Events

# E1 Efficiency Management

## 6 ECTS – hosted by MBA Energy Management

**Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER**

Institute Technologie und Management
(ITM) Faculty Wirtschaft und
Management
T.U. Berlin

### Aims and Scope

The students will be able to define, evaluate, and analyze technical projects and structures such as buildings, factories, and urban districts. They do this by integrating the technological, economic, business, and legal operations in companies and organizations and by taking social responsibility and sustainable development into account.

### Course Content

Buildings and energy efficiency; greenhouse gas emissions, demand-side management, combined heat and power generation, process chain management, energy efficiency technologies, amortization processes, local heating, and cooling networks, project management, ISO standards and, depending on the focus of studies, links to the energy, building or transport sector.

### Examination (6 ECTS, graded)

Assessment: The course will be graded, but the grade does not count toward your overall GPA
Type of assessment: **Portfolio**
Students who do not pass may repeat at the end of the current semester. Task and point allocation

- Contribution to the discussion: 25%
- Oral presentation: 50%
- Presentation materials / written composition (term paper): 25%

**Schedule**

| | |
|---|---|
| Friday, October 17, 2025<br>09:30 – 17:00 | **Lecture 1** |
| Friday, October 24, 2025<br>09:30 – 17:00 | **Lecture 2** |
| Friday, October 31, 2025<br>09:30 – 17:00 | **Lecture 3** |
| Wednesday, November 12, 2025<br>09:30 – 17:00 | **Lecture 4** |
| Saturday, November 22, 2025<br>09:30 – 17:00 | **Lecture 5** |
| Saturday, December 06, 2025<br>09:30 – 17:00 | **Lecture 6** |
| Friday,January 30, 2026<br>09:30 – 17:00 | **EXAM 1** |
| Friday, February 13, 2026<br>09:30 – 17:00 | **EXAM 2** |

## Literature


[1] Quaschning, Volker (2016): Sektorkopplung durch die Energiewende. Anforderungen an den Ausbau erneuerbarer Energien zum Erreichen der Pariser Klimaschutzziele unter Berücksichtigung der Sektorkopplung. Hochschule für Technik und Wirtschaft Berlin. Berlin, 2016.

[2] Sterner/Stadler (2014): Energiespeicher: Bedarf, Technologien, Integration. Berlin: Springer Vieweg.

[3] Siemens (2016), Improve building performance with Energy Efficiency Tools

[4] Subhes C. Bhattacharyya (2011). Energy Economics, p. 146 ff.

[5] Siemens (2009). Brochure 'Building automation – impact on energy efficiency'.

[6] UBA (2014): Treibhausgasneutrales Deutschland im Jahr 2050. Dessau-Roßlau, 2014.

[7] UBA (2012): Energieeffizienzdaten für den Klimaschutz. Dessau-Roßlau, 2012.

[8] Wohlfarth, K. et al. (2015).

[9] L. D. Danny Harvey, Springer Science + Business Media B.V. (2009). 'Reducing energy use in the buildings sector: measures, costs, and examples'.

[10] Senate Department for Urban Development and Environment (2016): Klimaneutrales Berlin 2050 – Empfehlungen für ein Berliner Energieund Klimaschutzprogramm (BEK); https://www.berlin.de/sen/uvk/klimaschutz/klimaschutz-in-der-umsetzung/das-berliner-energie-undklimaschutzprogramm-bek/der-weg-zum-bek/#bek-konsolidiert

[11] Siemens (2009). Brochure 'Building automation – impact on energy efficiency'.

# E2 Modern Project Management – Traditional, Agile and Hybrid Approaches

## 6 ECTS – hosted by Energy Management

**Prof. Dr. André Dechange**

Professor at Fachhochschule Dortmund –
University of Applied Sciences and Arts

### Aims and Scope

The overall qualification goal of the module is to enable the students to plan, implement, and successfully complete projects economically, efficiently, and according to modern agile and classic management methods. They understand the project or product life cycle and, based on the mediating classic and agile project and product management methodology, they can create, analyze, interpret and evaluate individual essential building blocks of project management and apply them future-oriented. They will learn about challenges in ensuring quality (quality management), opportunities, and threats in development and implementation (risk management), and the principles of identifying user needs (requirements management). Furthermore, the students learn the roles, tasks, and processes in modern project management, as well as the special features and challenges in stakeholder management, and can implement this in the future in a communication and information management strategy. Also, the students are aware of the similarities and differences between individual and multi-project / project portfolio management.

At the end of the course, the students can act in the mediated roles in agile and classic projects, understand the essential project management processes, can generate central management documents themselves, and can apply and further deepen the methodology in future projects.

## Course Content

Mediation of the project and product management modules: project organization (e.g. project management manual), goal planning (vision, strategy, concept, business case, project plan), process, schedule and cost planning, resource planning, information and reporting, stakeholder management, requirements management, risk management, quality management, getting to know different development strategies (e.g. general (waterfall), incremental, iterative), presentation of classic project management methods (PRINCE2, IPMA) and agile methods (e.g. SCRUM) as well as application in mini-scenarios, mediation of roles, committees and most important Stakeholders (needs, measures of stakeholder management) in project management (including assignments and case studies), getting to know risk management methods, agile according to SCRUM and classic according to AXELOS Management of Risk (M_o_R), getting to know requirements management methods, agile according to SCRUM and classic according to IREB (International Requirements Engineering Board), project phase (e.g. Use of business cases from previous modules to create project plans, requirement sketches or risk management measures).

## Schedule

Thursday, November 13, 2025 **Lecture 1**
09:30 – 17:00

Friday, November 14, 2025 **Lecture 2**
09:30 – 17:00

Saturday, November 15, 2025 **Lecture 3**
09:30 – 17:00

Thursday, January 08, 2026 **Lecture 4**
09:30 – 17:00

Friday, January 09, 2026 **Lecture 5**
09:30 – 17:00

Saturday,January 10, 2026 **Lecture 6**
09:30 – 17:00

Friday,January 23, 2026 **Lecture 7**
09:30 – 17:00

Saturday,January 24, 2026 **Lecture 8**
09:30 – 17:00

## Literature

**AXELOS (2017)**, Managing Successful Projects with PRINCE2, 7th ed., The Stationery Office, London.

# E3 Global Energy & Rural Electrification

## 6 ECTS – hosted by Energy Management

2 Parallel streams will be available:

Stream 1:

Global Energy and Rural Electrification - Policy, Strategic Foresight, and Data

Stream 2:

Global Energy and Rural Electrification - Electricity Modelling

## Stream 1:

**Dr. Dawud Ansari, M.Sc.**
Director and co-founder at EADP
Research associate at the German Institute for Economic Research (DIW Berlin
Freelance consultant
(Senior) Lecturer at multiple institutions

### Aims and Scope

Students can describe, analyze, and evaluate the role of developing and emerging countries in global energy systems as well as their local and regional challenges, peculiarities, and opportunities. You can explain and apply energy-related macroscopic concepts such as economic development and path dependency. Students understand macroscopic concepts as well as political programs and efforts related to energy in developing and emerging countries and can contextually classify and evaluate measures and developments, especially against the background of the term energy poverty and its characteristics. Students are familiar with various off-grid technologies and can choose between them, including the use of suitable methods of integrative planning. Finally, students can act better in group projects, understand the process of development cooperation and can understand and design central elements in it, and are aware of their responsibility for global as well as local sustainable development.

## Stream 2:

**Prof. Dr. Christian von Hirschhausen**
Professor at TU Berlin (WIP)
Research Associate at DIW Berlin

## Aims and Scope

The elective course "Global Energy and Rural Electrification - Electricity Modelling" covers key aspects of energy access and the role of renewable energy technologies in rural electrification, focusing on Sustainable Development Goal 7 (SDG7). The course begins with an introduction to SDG7, which aims to ensure access to affordable, reliable, sustainable, and modern energy for all. It includes an overview of the sub-goals, global progress, and the roles of various stakeholders such as governments, private sectors, NGOs, and international bodies. Students will explore the economic, social, and environmental benefits of electrification, along with the unique challenges and solutions for peri-urban versus remote areas. We will also emphasize on decentralized renewable energy technologies with a special focus on off-grid solutions for energy access. It includes strategies for grid extension and the integration of off-grid technologies. Further key topics include policy development frameworks supporting energy access and DRE deployment, innovative financing mechanisms, and the role of public-private partnerships. Case studies on business models for energy access are also covered. We will have practical sessions on energy modeling using Excel and HOMER Pro. Students will learn to create data sets, run simulations, and evaluate results for rural electrification projects. This course provides a comprehensive understanding of the multifaceted dimensions of energy access and the practical skills needed to contribute to sustainable electrification solutions globally.

Important to note: If students choose GERE as an compulsory elective, they can choose between the two streams with different focus.

## Course Content

Global energy (long-term scenarios, determinants of the world energy system, energy in developing and emerging economies); Sustainable development (SDGs, growth and development theory, Hartwick rule, resource dependency, and diversification, case studies); Energy poverty and access (definition, empirical data, generation and consumption patterns of low-income households, subsidies for fossil fuels and reforms, the role of energy efficiency, case studies); Rural electrification and off-grid technologies (off-grid technologies, computer-assisted planning of off-grids including the basics of mixed-integer optimization, economics, and management in off-grids, the practice of development cooperation); Project phase (e.g. off-grid design, development cooperation, business case).

## Schedule

**First Block:**

| | |
|---|---|
| Monday, October 20, 2025<br>09:30 – 17:00 | **Lecture 1** |
| Tuesday, October 21, 2025<br>09:30 – 17:00 | **Lecture 2** |
| Wednesday, October 22, 2025 | **Lecture 3** |

09:30 – 17:00

Thursday, October 23, 2025 **Lecture 4**
09:30 – 17:00

**Second Block:**

Wednesday, November 5, 2025 **Lecture 5**
09:30 – 17:00

Thursday, November 6, 2025 **Lecture 6**
09:30 – 17:00

Friday,November 7, 2026 **Lecture 7**
09:30 – 17:00

Wednesday, January 14, 2026 **Final Presentations**
09:30 – 17:00

Wednesday, January 21, 2026 **Wrap-Up, Fish Bowl and Paper Submissions**
09:30 – 17:00

## Literature


[1] Ansari, D., Holz, F., & Al-Kuhlani, H. (2020). Energy Outlooks Compared: Global and Regional Insights. Economics of Energy & Environmental Policy, 9(1).
[2] Herbst, A., Toro, F., Reitze, F., & Jochem, E. (2012). Introduction to energy systems modelling. Swiss journal of economics and statistics, 148(2), 111-135.
[3] Klein, G. (2007). Performing a project premortem. Harvard business review, 85(9), 18-19.
[4] Wack, P. (1985). Scenarios: uncharted waters ahead. Harvard business review, 63(5), 72-89.
[5] Karplus, V. J., & Von Hirschhausen, C. (2019). Electricity Access: An Introduction. Economics of Energy & Environmental Policy, 8(1).
[6] Mandelli, S., Barbieri, J., Mereu, R., & Colombo, E. (2016). Off-grid systems for rural electrification in developing countries: Definitions, classification and a comprehensive literature review. Renewable and Sustainable Energy Reviews, 58, 1621-1646.
[7] ESMAP: Results-based aid in the energy sector - An Analytical Guide
[8] Team Technologies, Inc. / Operations Core Services / Worldbank: Logframe Handbook
[9] Practical Concepts Incorporated (PCI): The Logical Framework - A manager's guide to a scientific approach to design & evaluation

# E4 Sustainable Building Principles & Life Cycle Assessment

## 6 ECTS – hosted by Building Sustainability

**Attila Kovacs**

Senior ESG Consultant at CBREDGNB Auditor LEED AP

### Aims and Scope

Participants acquire in-depth knowledge of creating building life cycle assessments (LCA) in the context of energy-efficient building design. They learn to apply the calculation and data model of DIN V 18599 as a basis for an LCA and to supplement it with life cycle modules for operation and end-of-life phases in accordance with DIN EN 15978.

Through a practice-oriented combination of theoretical introduction, manual calculation, and implementation using specialized software, participants are enabled to independently conduct LCAs in line with the requirements of the DGNB system.

In addition, the module provides foundational knowledge and relevant learning units required for the qualification as a DGNB Registered Professional, reinforced through sample tests.

### Course Content

The module covers the fundamentals and applications of building life cycle assessment. Topics include the structure of LCAs according to DIN EN 15978, integration of component assessments, Environmental Product Declarations (EPDs), and building component databases.

Participants learn to properly account for service lifetimes and to use the building model based on DIN V 18599.

The implementation of LCAs within the German Sustainable Building Council (DGNB) certification system is also covered.

Learning modules required for the DGNB Registered Professional qualification are introduced and integrated into the course.

## Schedule

| | |
|---|---|
| Tuesday, October 14, 2025<br>09:30 – 17:00 | **Lecture 1** |
| Wednesday, October 15, 2025<br>09:30 – 17:00 | **Lecture 2** |
| Tuesday, November 25, 2025<br>09:30 – 17:00 | **Lecture 3** |
| Wednesday, November 26, 2025<br>09:30 – 17:00 | **Lecture 4** |
| Tuesday, December 02, 2025<br>09:30 – 17:00 | **Lecture 5** |
| Wednesday, December 03, 2025<br>09:30 – 17:00 | **Lecture 6** |
| Tuesday, January 20, 2026<br>09:30 – 17:00 | **Lecture 7** |
| Wednesday,January 21, 2026<br>09:30 – 17:00 | **Lecture 8** |
| Friday,January 30, 2026 | **Report submission** |
| Tuesday, February 03, 2026<br>09:30 – 12:30 | **Quiz covering LCA and DGNB content** |
| Friday,February 13, 2026 | **Paper Submission** |
| Monday,March 2, 2026<br>(This date only applies to those who wish to take the optional DGNB certification exam) | **DGNB EXAM** |

## Literature


[1] Donald L. Anderson. Organization Development. The Process of Leading Organizational Change. Sage Publications, 2010.

[2] Thomas Bieger. Zukünftige Geschäftsmodelle: Konzept und Anwendung in der Netzökonomie; mit 3 Tabellen. Springer, 2002.

[3] Roman Boutellier and Mareike Heinzen. Growth Through Innovation: Managing the Technology-Driven Enterprise. Springer, 2014.

[4] Peter F. Drucker. Innovation and Entrepreneurship. HarperBusiness, 2006.

[5] Jack R. Meredith and Jr. Samuel J. Mantel. Project Management. A Managerial

Approach. John Wiley & Sons, 2006.

[6] Barbara Praetorius, Dierk Bauknecht, Martin Cames, Corinna Fischer, Martin Pehnt, Katja Schumacher, and Jan-Peter Foß. Innovation for Sustainable Electricity Systems. Exploring the Dynamics of Energy Transitions. Physica, 2009.

[7] V W Ruttan. Technology, Growth, and Development. An induced innovation perspective. Oxford University Press, 2001.

[8] Melissa A. Schilling. Strategic Management of Technological Innovation. Mcgraw-Hill Education, 2013.

[9] Joe Tidd and John Bessant. Strategic Innovation Management. Wiley, 2014.

[10] Paul Trott. Innovation Management

# E5 Circular Economics in Buildings

## 6 ECTS – hosted by Building Sustainability

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**Dr. Charleen von Kolpinski**

Program Lead Impact Incubator |
Researcher |
Lecturer |
Workshop Facilitator |
Speaker

**Dr. José Mercado**

Sustainable Building & Decarbonization Expert |
LCA & Circular Economy Expert |
Net Zero Buildings |
Former Architect


### Aims and Scope

The module “Circular Business Models in the Building Sector – New Approaches to Value Creation in Sustainable Construction” (6 ECTS) imparts both theoretical and practical foundations of the circular economy in the building sector. Key topics include circular business models and strategies, Cradle-to-Cradle principles, sustainability assessment, and methods of business and entrepreneurship research.

Students work in interdisciplinary teams on practice-oriented projects, gaining subject-specific expertise, methodological knowledge, and soft skills such as teamwork, innovation capacity, and presentation techniques.

Workshops, case studies, innovation methods, and collaboration with industry partners promote entrepreneurial thinking and the direct application of what has been learned.

The aim of the module is to enable students to develop and implement innovative and sustainable business models for the building sector.

### Course Content

Case studies from the circular economy in the building sector, circular business modelling, circular strategies, sustainability assessment of circular projects, team building and team management, business research methods, innovation methods.

**Schedule**

| | |
|---|---|
| Friday, November 14, 2025<br>09:30 – 17:00 | **General introduction** |
| Saturday, November 14, 2025<br>09:30 – 17:00 | **Best Circular Economy Practices & Guest Speech** |
| Friday, November 28, 2025<br>09:30 – 15:30 | **Research Skills & Business Canvas Practice** |
| Saturday, November 29, 2025<br>09:30 – 17:00 | **Sustainability Assessment of Circular Case Studies** |
| Wednesday, December 3, 2025<br>13:45 – 17:00 | **Guest lecture with Tina Kristensen** |
| Thursday, December 4, 2025 | **Excursion to PROTO POTSDAM/ Rechenzentrum** |
| Saturday, December 13, 2025<br>09:30 – 17:00 | **Finalization of Circular Business Model Concepts & Consultations** |
| Thursday,January 29, 2026<br>17:00 – 18:30 | **Group Consultations** |
| Saturday, February 7, 2026<br>09:30 – 17:00 | **Final Presentation** |

## Literature


[1] Duffie, Beckmann; Solar Engineering of Thermal Processes; ISBN 0-471-51056-4; 1991
A very comprehensive fundamental and scientific explanation of the physical and mathematical background of solar radiation end engineering. (Also known as the “Bible of solar technology”).

[2] Dr. Felix A. Peuser, Karl-Heinz Remmers, Martin Schnauss; Solar Thermal Systems; ISBN: 1-902916-39-5; 2002
Summarises very colourful the theoretical and practical knowledge from 20 years of research, implementation and operation of solar thermal installations.

[3] Khartchenko, Nikolai; Thermische Solaranlagen; ISBN: 978-3-89700-372-9; 2004
Basic knowledge and physical background of solar technology (in German).

[4] DGS; Planning and Installing Solar Thermal Systems; ISBN: 9781844071258; 2004 (revised 2008)
A very practical and detailed folder for support in system design and installation

[5] Dr. Sonne Team, Klaus Oberzig; BINE Informationspaket Solare Wärme; ISBN 978-3-934595-73-6
Basic theoretical and practical information for solar installations in Germany.

[6] Franklin Research Center, US Department of Housing and Urban Devel, US Department of Energy; Hot Water from the Sun: A Consumer Guide to Solar Water Heating; ISBN-10: 1410220370; 2005
Consumer orientated guide to solar water heating

[7] Eben V. Fodor; The Solar Food Dryer; ISBN-10: 0865715440; 2006
Basic information for installation and use of food dryers.

[8] Ramlow , Bob; Solar Water Heating (Mother Earth); ISBN-10: 0865715610; 2006
Historical review and practical introduction to modern solar energy systems

[9] Trimby, Paul; Solar Water Heating; ISBN 1 90217 530 1; 2008
A do it yourself guide for installation of solar water heaters.

**[10]** Laughton, Chris; Solar domestic water heating; ISBN: 978-1-84407-736-6; 2010
A very practical guideline for system design real installation**.**

# E6 Energy efficient society

## 6 ECTS – hosted by Building Sustainability

**Prof. Julian Wékel**

Academic Director
Building Sustainability – Management Methods for Energy Efficiency MBA
www.master-in-energy.com

**Mariam Elsheikh, M.Sc.**

Academic Program Manager
Building Sustainability – Management Methods for Energy Efficiency MBA
elsheikh@campus.tu-berlin.de

### Aims and Scope

The aim of energy-efficient buildings is embedded in specific socio-economic discourses. The idea of energy efficiency can, therefore, be understood differently according to the social and cultural context.

This module examines different understandings of energy efficiency and its consequences for project managers (i.e. students of this master's program), other building and energy experts, users, and society.

Students also gain knowledge and skills for dealing with different target groups and reflecting on their own projects that have been developed in other courses or introduced in practice-based lecture series.

### Course Content

Students taking this module will

- be introduced to different ways of understanding energy efficiency in a more global context
- learn about the social consequences of energy efficiency
- learn more about the different roles and professional profiles of students
- analyze good and bad project management practices, including in their own project work
- acquire skills to deal with complex and diverse target groups (i.e. peer experts, contractors, and users in different project contexts)
- acquire conflict management skills (communication, participation, and cooperation)

## Schedule

| | |
|---|---|
| Monday, October 27, 2025<br>09:30 – 17:00 | **What is Sustainability?** |
| Monday, November 10, 2025<br>09:30 – 17:00 | **Sustainability in Business** |
| Monday, November 24, 2025<br>09:30 – 17:00 | **Sustainable Development and Energy-Saving Strategies** |
| Monday, December 08, 2025<br>09:30 – 17:00 | **Energy Efficiency in the Building Sector** |
| Monday, January 05, 2026<br>09:30 – 17:00 | **Group consultations (ONLINE)** |
| Monday,January 12, 2026<br>09:30 – 17:00 | **Who's on trash? Zero Waste and how to create an environment for it** |
| Monday, February 23, 2026<br>08:00 – 15:00 | **Report & Presentation Submission** |

# E7 Freight and Transport Logistics

## 6 ECTS – hosted by Sustainable Mobility

**Prof. Dr. Jens Wollenweber**
Professor
Expert in optimization in transportation logistics

### Aims and Scope

Students will acquire knowledge, skills and strategies required to optimize the movement of goods and goods while minimizing environmental impact and improving economic efficiency. By achieving these goals, students will be able to address the complex challenges of the freight transportation industry, including environmental sustainability, efficiency and resilience, and drive positive change through the adoption of sustainable logistics practices and innovative solutions.

### Schedule

| | |
|---|---|
| Wednesday, November 19, 2025<br>09:30 – 17:00 | **Kick Off** |
| Thursday, November 20, 2025<br>09:30 – 17:00 | **Excursion** |
| Wednesday, November 26, 2025<br>09:30 – 17:00 | **Lecture 1** |
| Thursday, November 27, 2025<br>09:30 – 17:00 | **Lecture 2** |
| Friday, November 28, 2026<br>09:30 – 17:00 | **Lecture 3** |
| Wednesday, December 03, 2026<br>09:30 – 17:00 | **Lecture 4** |
| Thursday, December 04, 2026<br>09:30 – 17:00 | **Lecture 5** |
| Friday, December 05, 2026<br>09:30 – 17:00 | **Lecture 6** |

# E8 Urban and Transport Planning in Emerging Economies: Concepts and Experiences

## 6 ECTS – hosted by Sustainable Mobility

**Dr.-Ing. Wulf-Holger Arndt**

T.U. Berlin

### Aims and Scope

After taking this module, students will:

- be familiar with the urban and transport planning experiences in Emerging Economies;
- know smart city concepts, theories, and criticisms
- Use this knowledge to apply analytical methods in various institutional and economic contexts;
- Develop effective instruments based on these.

### Course content

- Designing Sustainable Urban Mobility Plans;
- Stakeholder strategies-tools and methods, social, gender and cultural aspects;
- Regulatory frameworks, financing, and institutional challenges;
- The role of transport options for a sustainable economy: indicators for monitoring and assessing;
- Knowledge and technology exchange - transfer and barriers;
- Mobility challenges in the developing world on a rural and urban scale;
- Megacities, Smart city concepts, theories, and criticism.

## Schedule

| | |
|---|---|
| Monday, October 20, 2025<br>09:30 – 17:00 | **Lecture 1** |
| Tuesday, October 21, 2025<br>09:30 – 17:00 | **Lecture 2** |
| Monday, November 03, 2025<br>09:30 – 17:00 | **Lecture 3** |
| Tuesday, November 04, 2025<br>09:30 – 17:00 | **Lecture 4** |
| Monday, November 17, 2026<br>09:30 – 17:00 | **Lecture 5** |
| Tuesday, November 18, 2026<br>09:30 – 17:00 | **Lecture 6** |
| Monday, December 08, 2026<br>09:30 – 17:00 | **Lecture 7** |
| Tuesday, December 09, 2026<br>09:30 – 17:00 | **Final Presentation** |

# E9 Entrepreneurship in Sustainable Mobility

## 6 ECTS – hosted by Sustainable Mobility

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**Max Beitler**

Engineering Consultant &
Business Development Manager at
Rohr Consulting & Engineering

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**Matthias Carl Lauer**

Mobility Analyst & Designer |
Facilitator |
Co-Initiator Young Mobility Network

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**Vipul Toprani**

Innovation Enthusiast in Sustainablility,
Social Impact and Green Infrastructure |
Startup Mentor |
Keynote Speaker and Advocate for
Sustainable Mobility & Smart Cities |
Angel Investor

### Aims and Scope

After the module, students will understand:

- Entrepreneurship in the context of sustainable mobility, recognizing its role as a driver for innovation and for tackling environmental challenges in transport.
- Market opportunities in sustainable mobility, including new market opportunities.
- Market dynamics, consumer preferences and regulatory factors shaping the sustainable mobility landscape
- Different business models used by sustainable mobility companies
- Business skills and mindsets
- How sustainability principles are integrated into business planning and operations.

## Course content

TU Berlin, Develop your own business model and business plan while gaining insight into the legal aspects of starting a company. Enhance your pitch skills, explore financing and support options for startups, and get familiar with Berlin’s vibrant startup scene, attend guest lectures and talks with startups, and pitch your idea in front of a jury.

## Schedule

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|---|---|
| Friday, December 12, 2025<br>09:30 – 17:00 | **Lecture 1** |
| Monday, December 15, 2025<br>09:30 – 17:00 | **Lecture 2** |
| Thursday, January 15, 2026<br>09:30 – 17:00 | **Lecture 3** |
| Friday, January 16, 2026<br>09:30 – 17:00 | **Lecture 4** |
| Friday, January 23, 2026<br>09:30 – 17:00 | **Lecture 5** |
| Thursday, January 29, 2026<br>09:30 – 17:00 | **Lecture 6** |
| Friday, January 30, 2026<br>09:30 – 17:00 | **Lecture 7** |
| Friday, February 13, 2026<br>09:30 – 17:00 | **Lecture 8** |

# Master Thesis

**Supervisors** Individual.

**Aims and Scope** Students demonstrate with the Master Thesis to be capable to address a problem from their study program independently, based on scientific methods, within a specific deadline. Once registered for the thesis, students have four months to conclude.

**Schedule** To start the master thesis, 60 CP must have been attained; this equals the successful completion of all mandatory modules. Technically, the earliest starting date is hence six weeks after the last exam. The thesis can be postponed but should be completed in the third term. However, if you would like to get your certificate at the official graduation ceremony in mid-June, 2026, it should be submitted in November/December 2025.

**Contents** Individual.

**Form** Fifty pages, plus introduction and annex (es). In English. Scientific standards prerequisite. More detailed formal requirements to be announced.

**DATE** Thesis will be developed in the third semester.

# MBA Alumni network

With your degree, you become part of the alumni network. Alumni receive invitations to participate in the further extension of the academic program, and to events held on the campus and within the network.

As the program rolls over, you are cordially invited to participate in the curricular and extracurricular events of the following academic year(s)