Technische Universität Berlin

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Unofficial Convenience Translation
The original German version is decisive.

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I. Legal and Administrative Provisions

Joint Committees

1. Amendment to the Application and Admission Regulations for the International Continuing Education Master's Program in Energy Management (MBA) of the Joint Decision-Making Committee of TU-Campus EUREF of Technische Universität Berlin

of 26 June 2024

On 26 June 2024, the Joint Decision-Making Committee TU-Campus EUREF of Technische Universität Berlin adopted the following amendment to the Application and Admission Regulations for the international continuing education master's program in Energy Management (MBA), Official Gazette of Technische Universität Berlin [AMBl] 17/2019, in accordance with Section 43 (3) no. 3 of the Constitution of Technische Universität Berlin in conjunction with Section 10 (5) of the Berlin State Higher Education Act (*Berliner Hochschulgesetz* – BerlHG) of 26 July 2011 (Berlin Gazette of Laws and Ordinances [GVBl.], p. 378), last amended by Article 2 of the same Act of 24 February 2025 (Berlin Gazette of Laws and Ordinances, p. 149), and in conjunction with Section 16 of the Act on the Admission to Higher Education Institutions in the State of Berlin to Degree Programs with Restricted Admission (*Berliner Hochschulzulassungsgesetz* – BerlHZG) of 9 October 2019, last amended by Article I of the same Act of 24 February 2025 (Berlin Gazette of Laws and Ordinances, p. 149)*)

Article I

In Section 8 (2), the words "April 30" are replaced by "31 March".

Article II

This amendment takes effect on the day after its publication in the Official Gazette of TU Berlin. It applies to the admission procedures for the 2026/27 winter semester onwards.

*) Approved by the Executive Board of TU Berlin on 28 April 2025 and by the Senate Department for Higher Education and Research, Health and Long-Term Care on 24 July 2025.

2. Amendment to the Study and Examination Regulations for the International Continuing Education Master's Program in Energy Management (MBA) of the Joint Decision-Making Committee TU-Campus EUREF of Technische Universität Berlin

of 19 February 2025

On 19 February 2025, the Joint Decision-Making Committee TU-Campus EUREF of Technische Universität Berlin adopted the following amendment to the Study and Examination Regulations for the international continuing education master's program in Energy Management (MBA), Official Gazette of Technische Universität Berlin [AMBl] 17/2019, in accordance with Section 37 (1) sentence 1 in conjunction with Section 43 (3) no. 3 of the Constitution of Technische Universität Berlin and Section 71 (1) no. 1 of the Berlin State Higher Education Act (*Berliner Hochschulgesetz* – BerlHG) of 26 July 2011 (Berlin Gazette of Laws and Ordinances [GVBl.] p. 378), last amended by Section 2 of the same Act on 24 February 2025 (Berlin Gazette of Laws and Ordinances p. 149)**):

Article I

Annex 1: Module Catalog, Annex 2: Sample Course Schedule, and Annex 3: Module Descriptions are revised as set forth in the attached annexes.

Article II

This amendment takes effect on the day after its publication in the Official Gazette of TU Berlin.

**) Approved by the Executive Board of TU Berlin on 28 April 2025

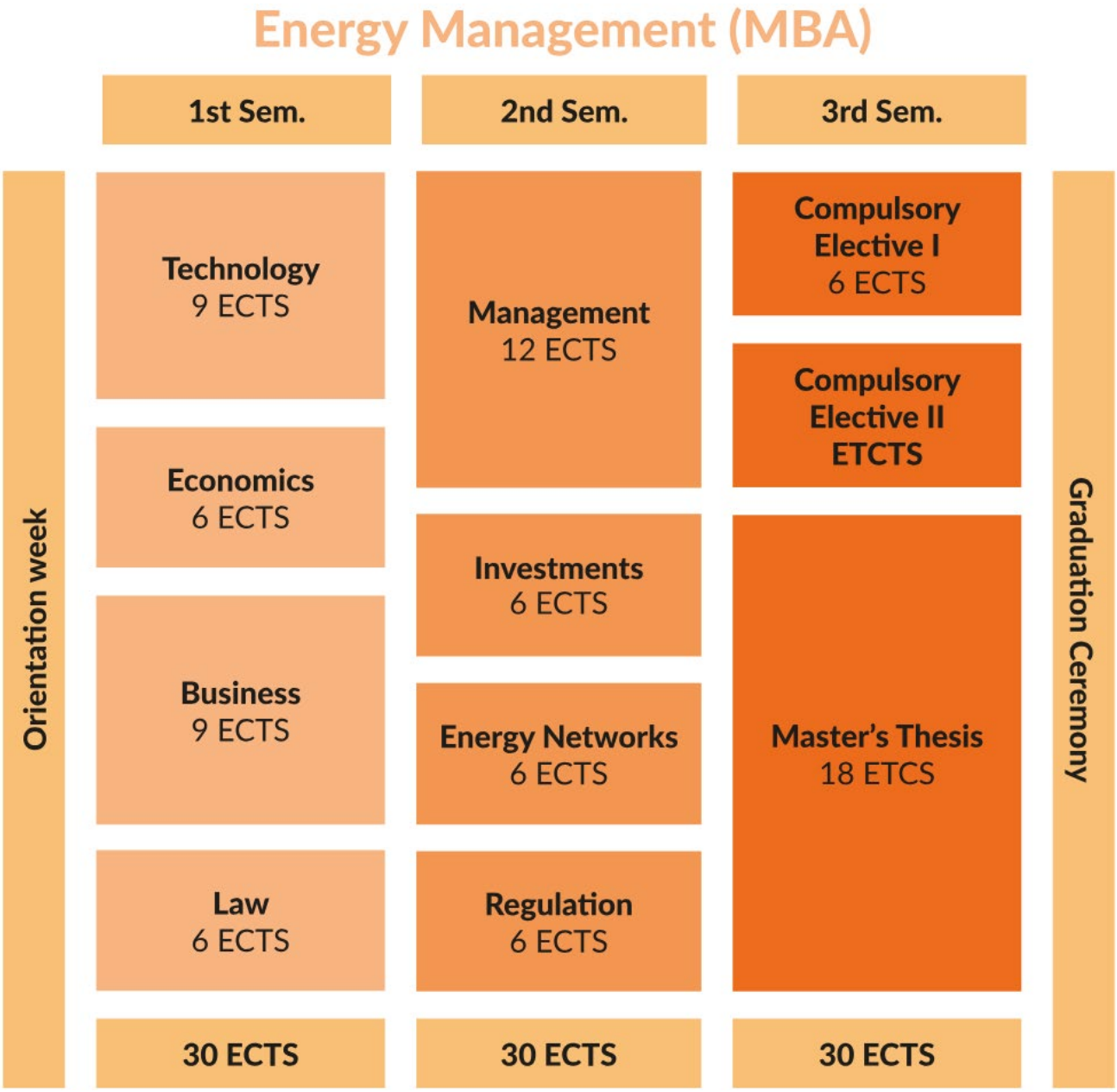
Annexes to the Study and Examination Regulations
Annex 1: Module Catalog
Annex 2: Sample Course Schedule
Annex 3: Module Descriptions

Annex 1: Module Catalog

No.	Module	Credit points	Type of assessment	Graded	Weighting in overall grade[1]
	Compulsory modules				
1	Technology	9	Written (examination)	Yes	1
2	Economics	6	Written (examination)	Yes	1
3	Business	9	Portfolio	No	-
4	Law	6	Written (term paper)	Yes	1
5	Management	12	Portfolio	Yes	1
6	Investments	6	Written (term paper)	Yes	1
7	Energy Networks	6	Written (examination)	Yes	1
8	Regulation	6	Portfolio	No	-
	Compulsory elective modules	Choice of two			
E-EM1	Efficiency Management	6	Portfolio	No	-
E-EM2	Global Energy	6	Portfolio	No	-
E-EM3	Modern Project Management – Traditional, Agile and Hybrid Approaches	6	Portfolio	No	-
E- BuSu 1	User-Centered Business Model Innovation & Research	6	Portfolio	No	-
E- BuSu 2	Energy-Efficient Societies	6	Portfolio	No	-
E- BuSu 3	Integration of Renewable Energies	6	Portfolio	No	-
E- SuMo 1	Entrepreneurship in Sustainable Mobility	6	Portfolio	No	-
E- SuMo 2	Freight Transport and Logistics	6	Portfolio	No	-
E- SuMo 3	Urban and Transport Planning: Concepts and Experiences	6	Portfolio	No	-
9	**Master's thesis**	18			1
	Total	90			1

[1] The specification "1" means that the grade is weighted according to the number of credits (Section 47 (6) of the General Study and Examination Regulations of Technische Universität Berlin – AllgStuPO); "-" means the grade is not weighted; every further figure is a multiplication factor of the number of credits.

Annex 2: Sample Course Schedule



Annex 3: Module Descriptions

Compulsory subjects:

Technology

Module title: Technology	**Credit points (ECTS):** 9	**Abbreviation:** TECH (EM)
Module supervisor: Prof. Dr.-Ing. Joachim Müller-Kirchenbauer	**Office:** Melanie Göritz	**Email:** goeritz@campus.tu-berlin.de

Module description

1. Learning outcomes

In this module, students review and deepen their understanding of general technical knowledge and energy technologies and systems in the context of current developments, taking into account social responsibility and sustainable development. It introduces key technological concepts and lays the foundations for the subsequent modules.
Students are able to define and evaluate various procedures and apply them to selected use cases in the energy sector.

2. Content

Principles of physics (physic units, mechanics, thermodynamics, electromagnetism, optics); principles of energy technologies; principles of chemistry (fuels, combustion, batteries, fuel cells); principles of electrical engineering (power engineering); principles of mechanical engineering (combustion engines, turbines, pumps, and compressors); principles of process engineering; biomass; fossil fuels; renewable energy sources; geothermal energy; hydropower; wind power; solar thermal energy; photovoltaics; power grids; switchover processes; Carnot cycle and Carnot method; storage and transport technologies; building systems technologies, and selected content in energy management.

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Technology I	IV	1.1	9	C	WS
Technology II	IV	2.1			
Technology Tutorial	Tut	1.6			
Case studies and accompanying program	IV	1.6			

4. Description of course types

Integrated course (IV) with classes taking the form of lectures, exercises, tutorials, as well as an e-learning course and accompanying program.

5. Participation requirements

Enrollment in the continuing education master's in Energy Management (MBA) at TU Berlin (1st degree semester).

6. Module can be taken in following programs

Continuing education master's in Energy Management (MBA) at TU Berlin.

7. Workload and credits

3.2 hours per week of classes (in person)		48 h
1.6 hours per week of tutorials (in person)		24 h
1.6 hours per week of case studies and accompanying program		24 h
Preparation and follow-up incl. e-learning		128 h
Examination and exam preparation		46 h

This amounts to a workload of **270 hours** per semester, which is equivalent to **9 credits**.

8. Module completion

Graded: Yes.
Grading key in accordance with the Resolution of the Joint Decision-Making Committee of 26 February 2025:

From … points	90	85	80	76	72	67	63	59	54	50	0
Grade	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0	5.0

Type of assessment: Written exam
- There is one assessed test (written; duration 120 min) at the end of the module.
- To take the written exam, students must hold an ungraded presentation.
- Students who fail may repeat at the beginning of the following semester.

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Technology I: Maximum number of participants: 120
Technology II: Maximum number of participants: 50

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
Available on the Moodle platform for the degree program: https://www.isis.tu-berlin.de

Reading list:
The reading list is provided in the e-learning course on Moodle.

Economics

Module title: Economics	**Credit points (ECTS):** 6	**Abbreviation:** ECON (EM)
Module supervisor: Prof. Dr. Georg Erdmann Prof. Dr.-Ing. Joachim Müller-Kirchenbauer	**Office:** Melanie Göritz	**Email:** goeritz@campus.tu-berlin.de

Module description

1. Learning outcomes

This module is an introduction to economics. It covers the key principles of economics, taking into account social responsibility and sustainable development. The module incorporates the latest research and critically examines economic foundations for the subsequent modules.
Students are able to describe specialized knowledge and aspects in economics, and compare and contrast general and selected use cases from the energy sector.

2. Content

Concepts of microeconomics (microeconomic analysis and market interaction of businesses, households and governmental organizations); aggregate demand; factors in production decisions; supply and demand; markets (competitive markets, monopolies, functioning markets, market failure, market regulation, price regulation, energy and commodity markets); taxation; principles of investment decision-making; societal welfare; merit-order effect; sustainability; commodities sector; energy industry and public utilities.
Principles of macroeconomics; capitalism as an economic system (private property, businesses, markets); technological change and economic growth; competitive markets; banks; fiscal and monetary policy; unemployment; inflation; the global economic crisis; application of economic theories and methods with links to energy management.

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Economics I	IV	1.1	6	C	WS
Economics II	IV	1.6			
Economics Tutorial	Tut	2.1			
Case studies and accompanying program	IV	0.5			

4. Description of course types

Integrated course (IV) with classes taking the form of lectures, exercises, tutorials, as well as an e-learning course and accompanying program.

5. Participation requirements

Enrollment in the continuing education master's in Energy Management (MBA) at TU Berlin (1st degree semester).

6. Module can be taken in following programs

Continuing education master's in Energy Management (MBA) at TU Berlin.

7. Workload and credits		
2.7 hours per week of classes (in person)		40 h
2.1 hours per week of tutorials (in person)		32 h
0.5 hours per week of case studies and accompanying program		8 h
Preparation and follow-up incl. e-learning		82 h
Examination and exam preparation		18 h
This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.		

8. Module completion

Graded: Yes
Grading key in accordance with the Resolution of the Joint Decision-Making Committee of 26 February 2025:

From … points	90	85	80	76	72	67	63	59	54	50	0
Grade	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0	5.0

Type of assessment: Written exam
There is one assessed test (written; duration 90 min) at the end of the module.
To take the written exam, students must have completed a term paper (5 pages).
Students who fail may repeat at the beginning of the following semester.

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Economics I: Maximum number of participants: 90
Economics II: Maximum number of participants: 30

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the program:
https://www.isis.tu-berlin.de
The reading list is provided in the e-learning course on Moodle.

Business

Module title: Business	**Credit points (ECTS):** 9	**Abbreviation:** BUSI (EM)
Module supervisor: Prof. Dr. Dodo zu Knyphausen-Aufseß	**Office:** Melanie Göritz	**Email:** goeritz@campus.tu-berlin.de

Module description

1. Learning outcomes

This module is an introduction to business studies. It covers the most important principles of business studies taking into account social responsibility and sustainable development. The module incorporates the latest research and critically examines the foundations of business studies for the subsequent modules.
Students are able to define the main features of business studies, apply problem-solving skills to case studies using different fields of knowledge and present options for optimizing the energy sector.

2. Content

Evaluation of companies; corporate accounting (balance sheets accounting, financial reporting, controlling); taxation; depreciation; basic principles of strategy development; production management; business ethics; investment & financing (corporate finance); liquidity; marketing & sales (consumer behavior, SWOT analysis, Ansoff matrix, BCG matrix, demand analysis, advertising, etc.); organizational behavior (personnel management, leadership); sustainability; and links to the energy sector and energy management.

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Business I	IV	1.6	9	C	WS
Business II	IV	1.6			
Business Tutorial	Tut	1.6			
Case studies and accompanying program	IV	1.1			

4. Description of course types

Integrated course (IV) with classes taking the form of lectures, exercises, tutorials, as well as an e-learning course and accompanying program.

5. Participation requirements

Enrollment in the continuing education master's in Energy Management (MBA) at TU Berlin (1st degree semester).

6. Module can be taken in following programs

Continuing education master's program in Energy Management (MBA).

7. Workload and credits		
3.2 hours per week of classes (in person)		48 h
1.6 hours per week of tutorials (in person)		24 h
1.1 hours per week of case studies and accompanying program		16 h
Preparation and follow-up incl. e-learning		152 h
Examination and exam preparation		30 h
This amounts to a workload of **270 hours** per semester, which is equivalent to **9 credits**.		

8. Module completion

Graded: No
Type of assessment: Portfolio assessment
Students who do not pass may repeat at the beginning of the following semester by taking an ungraded written exam (duration: 120 minutes).

Coursework	Points
(Assessment of learning outcomes) multiple choice test (duration: 60 minutes)	20
(Assessment of learning outcomes) presentation (30 minutes)	60
(Evaluation of the learning process) discussion (20 minutes)	20

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Business I: Maximum number of participants: 120
Business II: Maximum number of participants: 50

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the degree program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Law

Module title: Law	**Credit points (ECTS):** 6	**Abbreviation:** LAW (EM)
Module supervisor: Prof. Dr. Dr. Dres. h.c. Franz Jürgen Säcker	**Office:** Melanie Göritz	**Email:** goeritz@campus.tu-berlin.de

Module description

1. Learning outcomes

This module introduces the legal principles and regulatory frameworks of modern energy markets at the international, European, and national levels.
Students are able to independently combine and apply legal knowledge and skills to address complex problems, evaluate cases, and analyze and summarize legal issues.

2. Content

Principles of civil law; private and commercial law; energy law; energy trading and international contracts; competition law; legal system of the European Union and the Third Energy Package; Germany's energy transition (*Energiewende*) and the German Renewable Energy Sources Act (EEG); EU secondary legislation; regional developments; and renewable energy sources.

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Law I	IV	0.5	6	C	WS
Law II	IV	1.6			
Law Tutorial	Tut	0.8			
Case studies and accompanying program	IV	0.5			

4. Description of course types

Integrated course (IV) with classes taking the form of lectures, exercises, tutorials, as well as an e-learning course and accompanying program.

5. Participation requirements

Enrollment in the continuing education master's in Energy Management (MBA) at TU Berlin (1st degree semester).

6. Module can be taken in following programs

Continuing education master's in Energy Management (MBA) at TU Berlin.

7. Workload and credits		
2.1 hours per week of classes (in person)		32 h
0.8 hours per week of tutorials (in person)		12 h
0.5 hours per week of case studies and accompanying program		8 h
Preparation and follow-up incl. e-learning		48 h
Examination and exam preparation		80 h
This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.		

8. Module completion

Graded: Yes.
Grading key in accordance with the Resolution of the Joint Decision-Making Committee of 26 February 2025:

From … points	90	85	80	76	72	67	63	59	54	50	0
Grade	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0	5.0

Type of assessment: Term paper.
- One term paper (written, 10 pages, 10 days) will be set at the end of the module.
- Students who fail may repeat at the beginning of the following semester.

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Law I: Maximum number of participants: 120
Law II: Maximum number of participants: 50

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the degree program:
https://www.isis.tu-berlin.de
The reading list is provided in the e-learning course on Moodle.

Management

Module title: Management	**Credit points (ECTS):** 12	**Abbreviation:** MGMT (EM)
Module supervisor: Prof. Dr. Søren Salomo	**Office:** Melanie Göritz	**Email:** goeritz@campus.tu-berlin.de

Module description

1. Learning outcomes

Students are able to independently identify, analyze, and design strategic approaches taking into account the consequences of environmental changes for planning, management, and controlling. In doing so, they incorporate technological, economic, business, and legal perspectives and their interrelationships within companies and organizations, while considering social responsibility and sustainable development.
Students can define the main features of energy management, apply problem-solving skills to case studies using different fields of knowledge, and present options for optimizing the energy sector.

2. Content

Business models & plans; small group communication; leadership; environmental communication; corporate social responsibility (CSR); conflict management; change management; risk management; operational excellence; system services and energy services; Germany's energy transition (*Energiewende*); management of reactive power; energy storage and transformation; links to the energy sector and energy management.

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Management I	IV	2.2	12	C	SS
Management II	IV	2.2			
Communication skills	IV & Tut	2.1			
Case studies and accompanying program	IV	2			

4. Description of course types

Integrated course (IV) with classes taking the form of lectures, exercises, tutorials, as well as an e-learning course and accompanying program.

5. Participation requirements

Enrollment in the continuing education master's in Energy Management (MBA) at TU Berlin (2nd degree semester).

6. Module can be taken in following programs

Continuing education master's in Energy Management (MBA) at TU Berlin.

7. Workload and credits

4.4 hours per week of classes (in person)		64 h
2.1 hours per week of tutorials (in person)		32 h
2 hours per week of case studies and accompanying program		30 h
Preparation and follow-up incl. e-learning		164 h
Examination and exam preparation		70 h

This amounts to a workload of **360 hours** per semester, which is equivalent to **12 credits**.

8. Module completion

Graded: Yes
Grading key in accordance with the Resolution of the Joint Decision-Making Committee of 26 February 2025:

From … points	90	85	80	76	72	67	63	59	54	50	0
Grade	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0	5.0

Type of assessment: Portfolio assessment
Students who do not pass may repeat at the beginning of the following semester by taking a graded written exam (duration: 120 minutes).

Coursework	Points
(Assessment of learning outcomes) multiple-choice test (60 minutes)	20
(Evaluation of the learning process) discussion (20 minutes)	10
(Evaluation of the learning process) written assignment (5 pages)	30
(Assessment of learning outcomes) presentation (30 minutes)	40

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Management I: Maximum number of participants: 120
Management II: Maximum number of participants: 50

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Investments

Module title: Investments	**Credit points (ECTS):** 6	**Abbreviation:** INV (EM)
Module supervisor: Prof. Dr. Christian von Hirschhausen	**Office:** Melanie Göritz	**Email:** goeritz@campus.tu-berlin.de

Module description

1. Learning outcomes

This module examines investment decision-making from the perspective of decision-makers in the context of long-term energy infrastructure projects (generation, storage, and transmission/distribution).
Students acquire a sound understanding of the fundamental methods of investment appraisal and of common financial instruments and financing mechanisms. They apply problem-solving skills in a critical and reflective manner to investment decisions and develop strategic approaches to solving complex problems. The knowledge they acquire enables students to assess the advantages and disadvantages of different financial instruments in the context of investment projects and to select the most beneficial option. In addition, they are able to plan infrastructure projects and analyze the associated risks.

2. Content

Fundamentals of financial mathematics; investments in energy infrastructure (generation, storage, transmission/distribution); static and dynamic investment appraisal; financial instruments and financing mechanisms; liquidity management; cost of capital; capital structure decisions; risk assessment and management; project financing; portfolio management

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Investments	IV	2.7	6	C	SS
Case studies and accompanying program	IV	0.8			

4. Description of course types

Integrated courses (IV), often in the form of seminar-style lectures, plus tutorials and an e-learning course.

5. Participation requirements

Enrollment in the continuing education master's in Energy Management at TU Berlin (2nd degree semester).

6. Module can be taken in following programs

Continuing education master's in Energy Management (MBA) at TU Berlin.

7. Workload and credits		
2.7 hours per week of classes (in person)		40 h
0.8 hours per week of case studies and accompanying program		15 h
Preparation and follow-up incl. e-learning		68 h
Examination and exam preparation		60 h
This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.		

8. Module completion

Graded
Grading key in accordance with the Resolution of the Joint Decision-Making Committee of 26 February 2025:

From … points	90	85	80	76	72	67	63	59	54	50	0
Grade	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0	5.0

Type of assessment: written assessment (term paper)
One term paper (written, max. 10 pages, 1 week) will be set at the end of the module. Students who fail may repeat at the beginning of the following semester.

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Maximum number of participants: 30

11. Registration formalities

Students can register for the e-learning course and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Energy Networks

Module title: Energy Networks	**Credit points (ECTS):** 6	**Abbreviation:** NETW (EM)
Module supervisor: Prof. Dr. Kai Strunz	**Office:** Melanie Göritz	**Email:** goeritz@campus.tu-berlin.de

Module description

1. Learning outcomes

This module addresses the technical and organizational challenges of grid management in a changing energy environment. It looks at transformation processes between different forms and sources of energy, and explores emerging technological developments.
Students are able to apply highly specialized knowledge in the field of energy networks, in some cases drawing on the latest technical developments and findings. They are also be able to critically evaluate fundamental issues in network management, and propose optimization strategies to address them.

2. Content

Network management; liquid fuels and pipelines vs. electricity transmission; convergence; substitution and interoperability; the redundancy principle; power-to-gas; power-to-heat; mobility-to-grid; combined heat and power (CHP); virtual power plants; demand response; smart meters; contracts; RES integration; network management technologies; prosumers; IT and network conversion; next-generation networks; smart microgrids.

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Energy Networks I	IV	2.1	6	C	SS
EM – Energy Networks	Tut	1.1			
Case studies and accompanying program	IV	1			

4. Description of course types

Integrated courses (IV), often in the form of seminar-style lectures, plus tutorials and an e-learning course.

5. Participation requirements

Enrollment in the continuing education master's in Energy Management at TU Berlin (2nd degree semester)

6. Module can be taken in following programs

Continuing education master's in Energy Management at TU-Campus EUREF (TU Berlin)

7. Workload and credits		
2.1 hours per week of classes (in person)		32 h
1.1 hours per week of tutorials (in person)		16 h
1 hour per week of case studies and accompanying program		15 h
Preparation and follow-up incl. e-learning		87 h
Examination and exam preparation		30 h
This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.		

8. Module completion

Graded: Yes
Grading key in accordance with the Resolution of the Joint Decision-Making Committee of 26 February 2025:

From … points	90	85	80	76	72	67	63	59	54	50	0
Grade	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0	5.0

Type of assessment: Written exam
- There is one graded examination (written, duration: 2 h) at the end of the module.
- Students who fail may repeat at the beginning of the following semester.

9. Module duration

The module can be completed in **one** semester. It comprises approx. 5 weeks.

10. Number of participants

Maximum number of participants: 30

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the degree program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Regulation

Module title: Regulation	**Credit points (ECTS):** 6	**Abbreviation:** REGU (EM)
Module supervisor: Prof. Dr.-Ing. Joachim Müller-Kirchenbauer	**Office:** Melanie Göritz	**Email:** goeritz@campus.tu-berlin.de

Module description

1. Learning outcomes

Students are able to critically analyze and explain the current theory and practice of regulation in Germany and Europe in both the electricity and gas sectors, assess the significance and impacts of regulation on the energy system on the one hand and on companies on the other, and propose approaches for improving regulatory management.

2. Content

Regulation and its development; the impact of regulatory requirements in the electricity and gas sectors on energy and resource companies; ownership unbundling; network access; tariff regulation; capacity markets; and energy markets.

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Regulation Management I	IV	2.1	6	C	SS
EM – Regulation	Tut	1.1			
Case studies and accompanying program	IV	1			

4. Description of course types

Lectures and practical exercises are grouped into thematic blocks, providing an opportunity to explore topics in depth. The first phase establishes the theoretical basis before it is applied to practice.

5. Participation requirements

Enrollment in the continuing education master's in Energy Management at TU Berlin (2nd degree semester)

6. Module can be taken in following programs

Continuing education master's in Energy Management at TU-Campus EUREF (TU Berlin)

7. Workload and credits		
2.1 hours per week of classes (in person)		32 h
1.1 hours per week of tutorials (in person)		16 h
1 hour per week of case studies and accompanying program		15 h
Preparation and follow-up incl. e-learning		27 h
Examination and exam preparation		90 h
This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.		

8. Module completion

Type of assessment: Ungraded portfolio assessment
Students who do not pass may repeat at the end of the current semester by taking a graded written exam (2 h).

Coursework	Points
(Evaluation of learning process) oral discussion	20
(Assessment of learning outcomes) oral presentation	10
(Assessment of learning outcomes) presentation materials / written assignment (term paper)	90

9. Module duration

This module takes place during the second and third semesters.

10. Number of participants

Maximum number of participants: 30

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the degree program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Compulsory elective subjects:

Efficiency Management

Module title: Efficiency Management	**Credit points (ECTS):** 6	**Abbreviation:** EFFM (EM)
Module supervisor: Prof. Dr.-Ing. Joachim Müller-Kirchenbauer	**Office:** Melanie Göritz	**Email:** goeritz@campus.tu-berlin.de

Module description

1. Learning outcomes

Students are able to define, evaluate, and analyze technical projects and structures such as buildings, factories, and urban districts. In doing so, they incorporate technological, economic, business, and legal perspectives and their interrelationships within companies and organizations, while considering social responsibility and sustainable development.

2. 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 student's specialization, links to the energy, building, or transport sector.

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Efficiency Management	IV	2.9	6	CE	WS
Case studies and accompanying program		1.1			

4. Description of course types

Classes, some of which have a seminar-style format, are grouped into thematic blocks, providing a good opportunity to explore topics in depth. The first phase establishes the theoretical foundations before they are applied in practice. It is important that students have the opportunity to engage with their lecturers/instructors and peers. The objective of the seminar is to explore the subject in greater depth, develop skills, and exchange views and perspectives.

5. Participation requirements

Enrollment in one of the following continuing education master's programs: Building Sustainability – Management Methods for Energy Efficiency (MBA); Building Sustainability in Urban Futures (MBA); Energy Management (MBA); or Sustainable Mobility Management (MBA) at TU Berlin (3rd degree semester). If there is a high demand for places, students in the continuing education master's program in Energy Management (MBA) will have priority.

6. Module can be taken in following programs

Continuing education master's program in Building Sustainability – Management Methods for Energy Efficiency (MBA); in Building Sustainability in Urban Futures (MBA); in Energy Management (MBA); and in Sustainable Mobility Management (MBA) at TU Berlin.

7. Workload and credits

2.9 hours per week of classes (in person)		44 h
1.1 hours per week of case studies and accompanying program		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h

This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.

8. Module completion

Graded: No
Type of assessment: Portfolio assessment
Students who do not pass the module may repeat at the start of the following semester by completing a term paper (written assignment, 20 pages, 20 days).

Coursework	Points
(Assessment of learning outcomes) presentation (30 minutes)	50
(Assessment of learning outcomes) written assignment (10–15 pages)	50

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Maximum number of participants: 25

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the degree program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Global Energy

Module title: Global Energy	**Credit points (ECTS):** 6	**Abbreviation:** GE (EM)
Module supervisor: Dr. Dawud Ansari	**Office:** Melanie Göritz	**Email:** goeritz@campus.tu-berlin.de

Module description

1. Learning outcomes

Students are able to describe, analyze, and evaluate the role of developing and emerging economies in the global energy system, as well as the challenges, characteristics, and opportunities they have at the local and regional levels. Students can explain and apply macro-level energy-related concepts such as economic development and path dependence. Students understand macro-level concepts, as well as political programs and initiatives relating to energy in developing and emerging economies, and are able to contextualize and evaluate policies and developments, particularly with regard to energy poverty and its characteristics. Students are familiar with various off-grid technologies and can select the most appropriate technology and integrated planning methods for a given context. Upon completion, students are better equipped to work in group projects, have a grasp of the processes of development cooperation, and understand and can constructively contribute to its key elements; they are also aware of their responsibility for both global and local sustainable development.

2. Content

Global energy (long-term scenarios, determinants of the global energy system, energy in developing and emerging economies); sustainable development (SDGs, growth and development theory, Hartwick's rule, resource dependence and diversification, case studies); energy poverty and access (definition, empirical evidence, consumption patterns of low-income households, fossil fuel subsidies and reforms, role of energy efficiency, case studies); rural electrification and off-grid technologies (computer-aided planning of off-grid systems including fundamentals of mixed-integer programming, economics and management of off-grid systems, development cooperation in practice); project stage (e.g. off-grid design, development cooperation, business case)

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Global Energy	IV	2.9	6	CE	WS
Case studies and accompanying program		1.1			

4. Description of course types

Classes, some of which have a seminar-style format, are grouped into thematic blocks, providing a good opportunity to explore topics in depth. The first phase establishes the theoretical basis before it is applied to practice. It is important that students have the opportunity to engage with their lecturers/instructors and peers. The objective of the seminar is to explore the subject in greater depth, develop skills, and exchange views and perspectives.

5. Participation requirements

Enrollment in one of the following continuing education master's programs: Building Sustainability – Management Methods for Energy Efficiency (MBA); Building Sustainability in Urban Futures (MBA); Energy Management (MBA); or Sustainable Mobility Management (MBA) at TU Berlin (3rd degree semester). If there is a high demand for places, students in the continuing education master's program in Energy Management (MBA) will have priority.

6. Module can be taken in following programs

Continuing education master's program in Building Sustainability – Management Methods for Energy Efficiency (MBA); in Building Sustainability in Urban Futures (MBA); in Energy Management (MBA); and in Sustainable Mobility Management (MBA) at TU Berlin.

7. Workload and credits

2.9 hours per week of classes (in person)		44 h
1.1 hours per week of case studies and accompanying program		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h

This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.

8. Module completion

Graded: No
Type of assessment: Portfolio assessment
Students who do not pass the module may repeat at the start of the following semester by completing a term paper (written assignment, 20 pages, 20 days).

Coursework	Points
(Assessment of learning outcomes) presentation (30 minutes)	50
(Assessment of learning outcomes) written assignment (10–15 pages)	50

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Maximum number of participants: 25

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the degree program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Modern Project Management – Traditional, Agile and Hybrid

Module title: Modern Project Management – Traditional, Agile and Hybrid Approaches	**Credit points (ECTS):** 6	**Abbreviation:** MPM (EM)
Module supervisor: Prof. Dr. André Dechange	**Office:** Melanie Göritz	**Email:** goeritz@campus.tu-berlin.de

Module description

1. Learning outcomes

The overarching learning outcome of this module is to enable students to plan, execute, and successfully complete projects in a cost-effective and efficient manner using modern agile and traditional management methods. Students gain an understanding of the project/product lifecycle and, drawing on both traditional and agile project and product management methodologies, are able to create, analyze, interpret, and evaluate key components of project management, as well as apply them in the future. They become familiar with the challenges of quality assurance (quality management), the opportunities and risks associated with development and implementation (risk management), and the principles of identifying user needs (requirements management). In addition, students learn about the roles, responsibilities, and processes of modern project management, as well as the specific characteristics and challenges of stakeholder management, and are able to apply this knowledge in future communication and information management strategies. Additionally, students develop an understanding of the similarities and differences between single-project and multi-project/project portfolio management.
By the end of the module, students are able to perform the roles in both agile and traditional projects, understand the essence of project management processes, independently produce key management documents, and apply and expand on the methodologies acquired in future projects.

2. Content

Components of project and product management: project organization (e.g. project management manual); goal planning (vision, strategy, concept, business case, project plan); project schedule, timeline, and cost planning; resource planning; information and reporting systems; stakeholder management; requirements management; risk management; quality management; introduction to different approaches for developing strategies (e.g. general (waterfall), incremental, iterative); introduction to classic project management methods (PRINCE2, IPMA) and agile methods (e.g. SCRUM) as well as their application in mini-scenarios; the roles, committees, and key stakeholders (requirements, stakeholder management measures) in project management (including task assignments and case studies); introduction to risk management methods, agile approach in line with SCRUM and traditional approach in line with AXELOS Management of Risk (M_o_R); introduction to requirements management methods, agile according to SCRUM and traditional according to IREB (International Requirements Engineering Board); project phase (e.g. using business cases from previous modules to create project plans, requirements outlines, or risk management measures)

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Project Management	IV	2.9	6	CE	WS
Case studies and accompanying program		1.1			

4. Description of course types

Classes, some of which have a seminar-style format, are grouped into thematic blocks, providing a good opportunity to explore topics in depth. The first phase establishes the theoretical basis before it is applied to practice. It is important that students have the opportunity to engage with their lecturers/instructors and peers. The objective of the seminar is to explore the subject in greater depth, develop skills, and exchange views and perspectives.

5. Participation requirements

Enrollment in one of the following continuing education master's programs: Building Sustainability – Management Methods for Energy Efficiency (MBA); Building Sustainability in Urban Futures (MBA); Energy Management (MBA); or Sustainable Mobility Management (MBA) at TU Berlin (3rd degree semester). If there is a high demand for places, students in the continuing education master's program in Energy Management (MBA) will have priority.

6. Module can be taken in following programs

Continuing education master's program in Building Sustainability – Management Methods for Energy Efficiency MBA); in Building Sustainability in Urban Futures (MBA); in Energy Management (MBA); and in Sustainable Mobility Management (MBA) at TU Berlin.

7. Workload and credits

2.9 hours per week of classes (in person)		44 h
1.1 hours per week of case studies and accompanying program		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h

This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.

8. Module completion

Graded: No
Type of assessment: Portfolio assessment
Students who do not pass the module may repeat at the start of the following semester by completing a term paper (written assignment, 20 pages, 20 days).

Coursework	Points
(Assessment of learning outcomes) presentation (30 minutes)	50
(Assessment of learning outcomes) written assignment (10–15 pages)	50

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Maximum number of participants: 30

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes
Lecture notes available in hard copy: No Lecture notes available in electronic format: Yes If yes, provide link: On the Moodle platform for the degree program: https://www.isis.tu-berlin.de/ The reading list is provided in the e-learning course on Moodle.

Business Model Innovation & Research

Module title: Business Model Innovation & Research	**Credit points (ECTS):** 6	**Abbreviation:** BMIR (BuSu)
Module supervisor: Dr. Maren Borkert	**Office:** Laura Lehmann	**Email:** laura.lehmann.1@campus.tu-berlin.de

Module description

1. Learning outcomes

The Business Model Innovation & Research module is an interdisciplinary project weighted with 6 ECTS credits for one semester. The course offers theoretical sessions on innovation management, project management, team building, user-centered business model development, and business research methods. Using innovative design thinking and lean startup methods, students independently apply this knowledge to develop their business idea. Teams work with an entrepreneurial mindset with various stakeholders (industry, government, and startups).

2. Content

Basics of innovation management; open and user innovation; team building and team management; innovation evaluation; agile and lean startup methods; data analysis software; business research methods; user-centered business modeling.

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Business Model Innovation & Research (BMIR)	IV	2.9	6	CE	WS
Case studies and accompanying program	IV	1.1			

4. Description of course types

Classes, some of which have a seminar-style format, are grouped into thematic blocks, providing a good opportunity to explore topics in depth. The first phase establishes the theoretical basis before it is applied to practice. It is important that students have the opportunity to engage with their lecturers/instructors and peers. The objective of the seminar is to explore the subject in greater depth, develop skills, and exchange views and perspectives.

5. Participation requirements

Enrollment in one of the following continuing education master's programs: Building Sustainability – Management Methods for Energy Efficiency (MBA); Building Sustainability in Urban Futures (MBA); Energy Management (MBA); or Sustainable Mobility Management (MBA) at TU Berlin (3rd degree semester). If there is a high demand for places, students in the continuing education master's program in Building Sustainability in Urban Futures (MBA) will have priority.

6. Module can be taken in following programs

Continuing education master's program in Building Sustainability – Management Methods for Energy Efficiency MBA); in Building Sustainability in Urban Futures (MBA); in Energy Management (MBA); and in Sustainable Mobility Management (MBA) at TU Berlin.

7. Workload and credits

2.9 hours per week of classes (in person)		44 h
1.1 hours per week of case studies and accompanying program		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h

This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.

8. Module completion

Graded: No
Type of assessment: Portfolio assessment
Students who do not pass the module may repeat at the start of the following semester by completing a term paper (written assignment, 20 pages, 20 days).

Coursework	Points
(Assessment of learning outcomes) presentation (30 minutes)	50
(Assessment of learning outcomes) written assignment (10–15 pages)	50

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Maximum number of participants: 25

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the degree program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Energy-Efficient Societies

Module title: Energy-Efficient Societies	**Credit points (ECTS):** 6	**Abbreviation:** EES (BuSu)
Module supervisor: Prof. Julian Wékel	**Office:** Laura Lehmann	**Email:** laura.lehmann.1@campus.tu-berlin.de

Module description

1. Learning outcomes

The concept of energy-efficient buildings is embedded in specific socio-economic discourses. Consequently, energy efficiency can be interpreted differently across social and cultural contexts. This module examines different understandings of energy efficiency and their consequences for project managers (i.e. students of this master's program), other building and energy experts, users, and society.
In addition, the module provides students with the knowledge and skills necessary to engage with diverse audiences and reflect on their own projects, whether developed in other courses or presented in practice-oriented lecture series.

2. Content

Participants in this module learn different ways of interpreting the concept of energy efficiency in a global context; learn about the social implications of energy efficiency; learn more about the various roles and career prospects; analyze best and worst practices in project management, including in their own project work; acquire skills for working with complex and diverse target groups (i.e. peer experts, contractors, and users in various project contexts); and acquire conflict management skills (communication, participation, and cooperation)

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Energy-Efficient Societies	IV	2.9	6	C	WS
Case studies and company program	IV	1.1			

4. Description of course types

Classes, some of which have a seminar-style format, are grouped into thematic blocks, providing a good opportunity to explore topics in depth. The first phase establishes the theoretical basis before it is applied to practice. It is important that students have the opportunity to engage with their lecturers/instructors and peers. The objective of the seminar is to explore the subject in greater depth, develop skills, and exchange views and perspectives.

5. Participation requirements

Enrollment in one of the following continuing education master's programs: Building Sustainability – Management Methods for Energy Efficiency (MBA); Building Sustainability in Urban Futures (MBA); Energy Management (MBA); or Sustainable Mobility Management (MBA) at TU Berlin (3rd degree semester). If there is a high demand for places, students in the continuing education master's program in Building Sustainability in Urban Futures (MBA) will have priority.

6. Module can be taken in following programs

Continuing education master's program in Building Sustainability – Management Methods for Energy Efficiency MBA); in Building Sustainability in Urban Futures (MBA); in Energy Management (MBA); and in Sustainable Mobility Management (MBA) at TU Berlin.

7. Workload and credits

2.9 hours per week of classes (in person)		44 h
1.1 hours per week of case studies and accompanying program		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h

This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.

8. Module completion

Graded: No
Type of assessment: Portfolio assessment

Students who do not pass the module may repeat at the start of the following semester by completing a term paper (written assignment, 20 pages, 20 days).

Coursework	Points
(Assessment of learning outcomes) oral presentation (30 minutes)	50
(Assessment of learning outcomes) written assignment (10–15 pages)	50

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Maximum number of participants: 25

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the degree program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Integration of Renewable Energies

Module title: Integration of Renewable Energies	**Credit points (ECTS):** 6	**Abbreviation:** IRE (BuSu)
Module supervisor: Dipl.-Ing. Martin Schanuss	**Office:** Laura Lehmann	**Email:** laura.lehmann.1@campus.tu-berlin.de

Module description

1. Learning outcomes

This module revisits and broadens students' knowledge of energy technologies and systems in the context of today's changing world, establishing a foundation for subsequent modules. Students are taught to apply this knowledge independently to selected cases.

2. Content

Students gain a fundamental understanding of the applicability and limitations of renewable energy sources in a building environment. In this context, students develop their academic research skills in designing energy supply systems for buildings and neighborhoods based on renewable energy sources, as well as their interaction with conventional or fossil fuel sources.

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Integration of renewable energies	IV	2.9	6	C	WS
Case studies and company program	IV	1.1			

4. Description of course types

Classes, some of which have a seminar-style format, are grouped into thematic blocks, providing a good opportunity to explore topics in depth. The first phase establishes the theoretical basis before it is applied to practice. It is important that students have the opportunity to engage with their lecturers/instructors and peers. The objective of the seminar is to explore the subject in greater depth, develop skills, and exchange views and perspectives.

5. Participation requirements

Enrollment in one of the following continuing education master's programs: Building Sustainability – Management Methods for Energy Efficiency (MBA); Building Sustainability in Urban Futures (MBA); Energy Management (MBA); or Sustainable Mobility Management (MBA) at TU Berlin (3rd degree semester). If there is a high demand for places, students in the continuing education master's program in Building Sustainability in Urban Futures (MBA) will have priority.
Students are required to take a placement test. This test is intended for students to assess their abilities before they officially register for the module. (Taking the test is the requirement, not passing it!) This allows prospective students to make a critical self-assessment of their own abilities.

6. Module can be taken in following programs

Continuing education master's program in Building Sustainability – Management Methods for Energy Efficiency MBA); in Building Sustainability in Urban Futures (MBA); in Energy Management (MBA); and in Sustainable Mobility Management (MBA) at TU Berlin.

7. Workload and credits

2.9 hours per week of classes (in person)		44 h
1.1 hours per week of case studies and accompanying program		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h

This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.

8. Module completion

Graded: No
Type of assessment: Portfolio assessment
Students who do not pass the module may repeat at the start of the following semester by completing a term paper (written assignment, 20 pages, 20 days).

Coursework	Points
(Assessment of learning outcomes) presentation (30 minutes)	50
(Assessment of learning outcomes) written assignment (10–15 pages)	50

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Maximum number of participants: 25

11. Registration formalities

Students can register for the e-learning course, the tutorial, and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the degree program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Entrepreneurship in Sustainable Mobility

Module title: Entrepreneurship in Sustainable Mobility	**Credit points (ECTS):** 6	**Abbreviation:** Entrepreneurship (SuMo)
Module supervisor: Prof. Dr. Hans-Liudger Dienel	**Office:** Alina Pfeifer	**Email:** alina.pfeifer@campus.tu-berlin.de

Module description

1. Learning outcomes

After completing this module, students understand:
entrepreneurship in the context of sustainable mobility, including its role as a driver of innovation and a key factor in addressing environmental challenges in the transport sector.
market opportunities in sustainable mobility, including emerging market opportunities.
market dynamics, consumer preferences, and regulatory factors that shape the sustainable mobility landscape.
the various business models used by companies in sustainable mobility. entrepreneurial skills and mindsets, as well as how sustainability principles are integrated into business planning and operations.

2. Content

- Transportation investments
- The critical link between project financing, decision-making, and investment analysis
- Sharing economy and crowdfunding
- Development of a business model (selection of a product/service, identification of benefits, market identification and analysis, revenue model, value chains)
- Identification of business opportunities in sustainable mobility
- Financing options for startups
- The critical link between project financing, decision-making, and investment analysis
- Legislation for incorporation
- Strategies and methods for scaling companies

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Entrepreneurship	IV	4	6	CE	WS

4. Description of course types

Classes, some of which have a seminar-style format, are grouped into thematic blocks, providing a good opportunity to explore topics in depth. The first phase establishes the theoretical basis before it is applied to practice. It is important that students have the opportunity to engage with their lecturers/instructors and peers. The objective of the seminar is to explore the subject in greater depth, develop skills, and exchange views and perspectives.

5. Participation requirements

Enrollment in one of the following continuing education master's programs: Energy Management (MBA); in Building Sustainability – Management Methods for Energy Efficiency (MBA); in Building Sustainability in Urban Futures (MBA); or in Sustainable Mobility Management (MBA) at TU Berlin (3rd degree semester). If there is a high demand for places, students in the continuing education master's program in Sustainable Mobility Management (MBA) will have priority.

6. Module can be taken in following programs

Continuing education master's program in Building Sustainability – Management Methods for Energy Efficiency (MBA); in Building Sustainability in Urban Futures (MBA); in Energy Management (MBA); and in Sustainable Mobility Management (MBA) at TU Berlin.

7. Workload and credits

3 hours per week of classes (in person)		44 h
1 hour per week of case studies and accompanying program		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h

This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.

8. Module completion

Graded: No
Type of assessment: Portfolio assessment
Students who do not pass the module may repeat at the start of the following semester by completing a term paper (written assignment, 20 pages, 20 days).

Coursework	Points
(Assessment of learning outcomes) presentation (30 minutes)	50
(Assessment of learning outcomes) written assignment (10-15 pages)	50

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Maximum number of participants: 35

11. Registration formalities

Students can register for the e-learning course and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the degree program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Freight Transport and Logistics

Module title: Freight Transport and Logistics	**Credit points (ECTS):** 6	**Abbreviation:** Mobility Data (SuMo)
Module supervisor: Prof. Dr. Hans-Liudger Dienel Prof. Dr. Jens Wollenweber	**Office:** Alina Pfeifer	**Email:** alina.pfeifer@campus.tu-berlin.de

Module description

1. Learning outcomes

Students acquire the knowledge, skills, and strategies needed to optimize the movement of freight and goods while minimizing environmental impact and improving economic efficiency. In achieving this, students are equipped to tackle the complex challenges facing the freight transport industry – including environmental sustainability, efficiency, and resilience – and to drive positive change through the implementation of sustainable logistics practices and innovative solutions.

2. Content

Understanding logistics and supply chain management, analyzing freight transport systems, and assessing environmental impacts. Promoting sustainable logistics practices and optimizing freight transport processes. Integration of technology and innovation, last-mile management, and promotion of intermodal transport solutions.

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Freight Transport and Logistics	IV	4	6	CE	WS

4. Description of course types

Classes, some of which have a seminar-style format, are grouped into blocks by topic, providing a good opportunity to explore topics in depth. The first phase establishes the theoretical basis before it is applied to practice. It is important that students have the opportunity to engage with their lecturers/instructors and peers. The objective of the seminar is to explore the subject in greater depth, develop skills, and exchange views and perspectives.

5. Participation requirements

Enrollment in one of the following continuing education master's programs: Energy Management (MBA); in Building Sustainability – Management Methods for Energy Efficiency (MBA); in Building Sustainability in Urban Futures (MBA); or in Sustainable Mobility Management (MBA) at TU Berlin (3rd degree semester). If there is a high demand for places, students in the continuing education master's program in Sustainable Mobility Management (MBA) will have priority.

6. Module can be taken in following programs

Continuing education master's program in Building Sustainability – Management Methods for Energy Efficiency (MBA); in Building Sustainability in Urban Futures (MBA); in Energy Management (MBA); and in Sustainable Mobility Management (MBA) at TU Berlin.

7. Workload and credits		
3 hours per week of classes (in person)		44 h
1 hour per week of case studies and accompanying program		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h
This amounts to a workload of **180 hours** per semester, which is equivalent to **6 credits**.		

8. Module completion

Graded: No
Type of assessment: Portfolio assessment
Students who do not pass the module may repeat at the start of the following semester by completing a term paper (written assignment, 20 pages, 20 days).

Coursework	Points
(Assessment of learning outcomes) presentation (30 minutes)	50
(Assessment of learning outcomes) written assignment (10-15 pages)	50

9. Module duration

The module can be completed in **one** semester.

10. Number of participants

Maximum number of participants: 35

11. Registration formalities

Students can register for the e-learning course and the assessment via TUBS.

12. Reading list and lecture notes

Lecture notes available in hard copy: No
Lecture notes available in electronic format: Yes
If yes, provide link: On the Moodle platform for the degree program:
https://www.isis.tu-berlin.de/
The reading list is provided in the e-learning course on Moodle.

Urban and Transport Planning: Concepts and Experiences

Module title: Urban and Transport Planning: Concepts and Experiences	**Credit points (ECTS):** 6	**Abbreviation:** Urban Planning (SuMo)
Module supervisor: Prof. Dr. Hans-Liudger Dienel	**Office:** Alina Pfeifer	**Email:** alina.pfeifer@campus.tu-berlin.de

Module description

1. Learning outcomes

Upon completing the module, students are familiar with the current challenges and fundamental principles of urban and transportation planning. They can apply analytical methods in various institutional and economic contexts and use what they have learned to develop effective tools.

2. Content

- Mobility challenges
- Analysis of mobility systems
- Development of solutions for sustainable urban mobility
- Regulatory framework and financing
  Institutional challenges
- The role of transport options in relation to sustainable economic development
- Knowledge and technology transfer

3. Module components

Course title	Course type	Course hours per week	Credit points (ECTS)	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Urban and Transport Planning	IV	4	6	CE	WS

4. Description of course types

Classes, some of which have a seminar-style format, are grouped into blocks by topic, providing a good opportunity to explore topics in depth. The first phase establishes the theoretical basis before it is applied to practice. It is important that students have the opportunity to engage with their lecturers/instructors and peers. The objective of the seminar is to explore the subject in greater depth, develop skills, and exchange views and perspectives.

5. Participation requirements

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7. Workload and credits		
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8. Module completion

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Type of assessment: Portfolio assessment
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Coursework	Points
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