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# AMTLICHES MITTEILUNGSBLATT

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# I. I. Legal and Administrative Provisions

#### **Faculties**

Study and Examination Regulations for the International Continuing Education Master's Program in Sustainable Mobility Management (MBA) at TU-Campus EUREF of Technische Universität Berlin

#### of 23 October 2018

On 23 October 2018, the TU-Campus EUREF Joint Decision-Making Committee of Technische Universität Berlin adopted the following study and examination regulations for the continuing education master's program in Sustainable Mobility Management in accordance with Section 18 (1) no. 1 of the Constitution of Technische Universität Berlin and Section 71 (1) no.1 of the Berlin State Higher Education Act (Berliner Hochschulgesetz - BerlHG) in the version of 26 July 2011 (Berlin Gazette of Laws and Ordinances - GVBI., p. 378), last amended by Section 6 of the BerlHG on 2 February 2018 (GVBI. p. 160)\*.

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#### I. General regulations

#### Section 1 – Scope of application

These study and examination regulations set out the aims, structure, and requirements and arrangements of examinations in the continuing education master's program in Sustainable Mobility Management. The program-specific provisions included herein supplement the Regulations Governing General Study and Examination Procedures of Technische Universität Berlin (Ordnung zur Regelung des allgemeinen Studien- und Prüfungsverfahrens - AllgStuPO).

#### Section 2 - Entry into force/expiration

(1) These regulations take effect on the day after their publication and apply to students enrolled from the 2019/2020

winter semester onwards.

(2) The study and examination regulations for the continuing education master's program in Sustainable Mobility Management of 31 October 2016 (TU official gazette 26/2014 pp. 287 and 291) will no longer apply once the present study and examination regulations take effect.

(3) In addition to the students mentioned in paragraph 1, these study and examination regulations apply to all students that are already enrolled in the MBA master's program in Sustainable Mobility Management.

#### II. Program objectives and structure

#### Section 3 – Learning outcomes, program content and professional fields

(1) Students who complete the MBA program in Sustainable Mobility Management will be able to plan and manage complex projects in the fields of transport and mobility. The students acquire the knowledge and skills needed for the development and implementation of innovative solutions for sustainable mobility. Designing, planning and managing intelligent mobility networks; evaluating mobility programs based on economic, social and technological contexts; finding solutions that take into account the interests of the participants.

The program favors an interdisciplinary and multidisciplinary approach to mobility studies, in particular with respect to transport systems and their potential to drive sustainability and development. These challenges call for new approaches: The program, therefore, integrates a number of disciplines and draws on a variety of theories and viewpoints.

This enables students to develop a critical and social science perspective on sustainability that takes into account the current developments in mobility studies, the transport debate, as well as urban planning and project development and management. They are able to develop and evaluate theoretical and practice-driven approaches. This provides students with a conceptual understanding along with the skills needed to solve both theoretical and practical problems.

Using a variety of tools and techniques, students apply the sustainable mobility transition to real case studies. Students also learn the basic principles, combining engineering, social science, and management skills within an international context. Scientific findings on the development of new forms of mobility and their ecosystems are incorporated into the program, and technical issues such as power, electric and mechanical vehicle architecture, equipment and control are also addressed. In addition, students evaluate national and global mobility markets from a technological and economic perspective in order to analyze the development and implementation of new business models.

Students are able to shape the transition towards sustainable mobility based on a variety of approaches and policy options - and create tools for managing this transition.

With the skills and knowledge, they acquire, graduates will be able to conduct large and complex projects in the mobility sector taking into account a variety of sustainability dimensions.

Various teaching methods are used and combined with selfstudy. These methods include lectures and seminars,

<sup>\*</sup> Approved by the TU Berlin Executive Board on 10 February 2019

workshops, computer exercises, practical exercises, reading, reflection papers, student-led discussions, tutorials, and case studies.

Using these methods, the students learn to develop and implement solutions to the challenges associated with the transition towards sustainable mobility. They are familiar with the points of tension arising from the conflicting priorities of social, economic, environmental and technological sustainability. Graduates will be able to manage these points of tension as they surface during the implementation of sustainable mobility solutions.

(2) Companies operating in the mobility sector today must adapt to solutions that are based on sustainability criteria. The resulting significant increase in demand for expert personnel with wide-ranging training and specialist English skills is not currently being met by existing courses. The TU master's degree meets the demand in this field and prepares students for leadership positions in relevant companies and agencies in the transport and mobility industry.

Based on the knowledge acquired in this master's degree, graduates will be able to find employment in the transport sector, in consumer and environmental protection and in the related authorities and research institutes. This includes work in planning, decision-making, and implementation processes, as mobility and environmental protection managers, as members of central management departments and as project managers in the mobility sector.

#### Section 4 – Program start, standard period of study and required coursework, language of instruction and examination language

(1) The program starts in the winter semester.

(2) The standard period of study, including completion of the master's thesis, is three semesters. The program can be completed on a part-time basis in accordance with Section 23 of the Regulations Governing General Study and Examination Procedures AllgStuPO.

(3) The program is worth 90 credit points.

(4) The teaching curriculum and the entire examination procedure are structured and organized in such a way as to enable students to complete the program within the standard period of study.

(5) The program is organized in such a way that an optional study-related stay abroad can be completed within the standard period of study. For this purpose, it is possible to have a mobility window in full-time and part-time degrees in the second or (preferably) in the third semester.

(6) The teaching and examination language in all compulsory modules and compulsory elective modules is English.

#### Section 5 – Program structure

(1) Students have the right to individually determine the order of progression of their own course of study. They are, however, obliged to comply with the provisions laid out in these Study and Examination Regulations. The recommended sequence in which modules should be taken is shown in the proposed course schedule in Annex 2 of these regulations. This does not affect any possible constraints resulting from subject-specific admission requirements for modules.

(2) Students must earn a total of 90 credits; 72 for taught modules and 18 for the master's thesis.

Students take compulsory modules worth a total of 60 credits, and compulsory elective modules worth 12 credits. The compulsory elective modules can be found in the module catalog (Annex 1). (Annex 1).

(4) In accordance with Section 33 (4) of the Regulations Governing General Study and Examination Procedures (*AllgStuPO*), the skills and knowledge to be taught in specific modules, the requirements for module examinations, and the relevant admission requirements, if any, are updated annually in the form of course-specific module catalogs and are published in the Official Gazette of TU Berlin at the beginning of the winter semester in October and the beginning of the summer semester in April.

#### III. Examination requirements and conduct of examinations

#### Section 6 - Aim of the master's examination

The master's examination determines whether a candidate has achieved the learning outcomes in accordance with Section 3 of these regulations.

#### Section 7 – The master's degree

Students who have passed the master's examination are awarded the academic title Master of Business Administration (MBA) by Technische Universität Berlin through the Joint Decision-Making Committee (GKmE).

# Section 8 – Scope of the master's examination; calculation of the overall grade

(1) The master's examination comprises the module examinations listed in the module catalog (Annex 1) and the master's thesis according to Section 9.

(2) According to the principles stipulated in Section 47 of the Regulations Governing General Study and Examination Procedures (*AllgStuPO*), the overall grade is to be determined by combining the grades achieved for those examinations arising from modules taken from the module catalog that are marked both as graded and for inclusion in the overall grade together with the grade achieved for the master's thesis.

#### Section 9 - The master's thesis

(1) The master's thesis is usually completed in the third-course semester. It amounts to 18 credits and is to be produced within 18 weeks. In the event that important grounds exist that prevent the completion of the thesis within this time frame, and these grounds lie outside of the student's control, the examination board shall grant an extension of the deadline for so long as the grounds in question continue to exist. The total maximum extension possible is 18 weeks. In the event that the combined extensions exceed the stipulated maximum period of extension, the student may withdraw from the examination.

(2) To apply for admission to the master's thesis, students must submit evidence of having successfully completed module examinations worth at least 60 credit points to the responsible office. The examination board may grant exceptions to students who make a justified request to this effect.

(3) The topic of the master's thesis may be rejected once, however only within the first four weeks of being issued by the responsible office.

(4) The procedures for applying for admission to and assessment of a final thesis are regulated in the current version of the Regulations Governing General Study and Examination Procedures (*AllgStuPO*).

(5) Persons with experience in professional practice and training can be appointed as examiners of final papers. It is generally more important that second examiners meet this criterion.

(6) The master's thesis must be written in English. It is approximately 50 pages in length.

# Section 10 – Types of assessments and examination registration

The different types of assessments and the procedure for registering for module examinations are established in the AllgStuPO as amended. In addition, the following types of assessment are possible:

- a. Term paper in accordance with Section 10a.
- b. Presentation in accordance with Section 10b.

#### Section 10a – Term paper

(1) The term paper is a written assignment through which students are expected to demonstrate their ability to work scientifically on a specific topic from the thematic area covered by the module while placing it in the module's overall context. The written term paper can be combined with an oral component in the framework of the respective course.

(2) The examiner specifies the exact length of the term paper, the resources permitted rules for the paper's presentation as well as the assessment criteria and informs students accordingly at the start of the module. The term paper may exceed or be less than the number of pages set by the examiner with the consent of the examiner. The requirements for registering a term paper can be found in the Module Handbook.

(3) The examiner provides the students with a selection of topics for term papers. When assigning term paper topics, the examiner pays attention to the parity of the various topics and must ensure that students can work on and complete these topics independently, using scientific methods and within the limits of the workload foreseen in the module description.

(4) If several examiners are authorized and appointed to conduct examinations for a module in which a term paper is foreseen, students are entitled to choose from amongst all those examiners whose courses they have attended in the module. Module supervisors can appoint another examiner in agreement with the candidate if important reasons apply, in particular, if the chosen examiner has an excessive workload in conjunction with examinations.

(5) In some cases, a joint term paper can be produced by several students (group term paper). The module supervisor specifies the details.

(6) The term paper must include page numbers, a table of contents, and a list of sources and resources used. It must be submitted to the examiner in electronic form (pdf). When writing the term paper, students must apply accepted rules of referencing and of academic work, e.g. MLA, APA, Harvard, Turabian or similar guidelines. If a candidate is shown to have violated these rules, the module examination is deemed a fail.

(7) The final result of the examination is forwarded to the responsible office for information and filing. The same applies to the term paper.

(8) If the term paper is graded as "Insufficient", it can be repeated up to two times. The student must be informed via the notice board *at the latest* by the end of the semester in which the term paper was submitted as to whether the term paper was graded as at least "Sufficient" (4.0).

#### Section 10b - Presentation

(1) The presentation is an assessment through which students are expected to demonstrate their ability to hold an academic lecture for a specified duration in front of other students on a specific question from the thematic area covered by the module while placing the specific topic in the module's overall context.

(2) The presentation takes place on a date set by the examiner during a course's contact hours. As a rule, the actual

presentation lasts 10 to 45 minutes. At the start of the course leading to the examination, the examiner informs students whether and which material is to be produced to accompany the presentation (e.g. handout, slides) and whether and in which form presenters must participate in a subsequent discussion or chair such a discussion. The total time for presentation and discussion may not exceed 90 minutes.

(3) At the start of the module, the examiner sets the presentation topics, examination dates for the module and exact scope of the presentations, permitted resources, rules for presenting the work, procedure for allocating presentation topics, and assessment criteria.

(4) When assigning presentation topics, the examiner pays attention to the parity of the various topics and must ensure that students can work on and complete these topics within the limits of the workload foreseen in the module description.

(5) Each presentation topic is bound to a specific date. Students must, therefore, hold their presentation on the date set by the examiner. The module manager decides on exceptions.

(6) A joint presentation can be produced by several students (group presentation). The module supervisor specifies the details.

Annex 1:	Module list

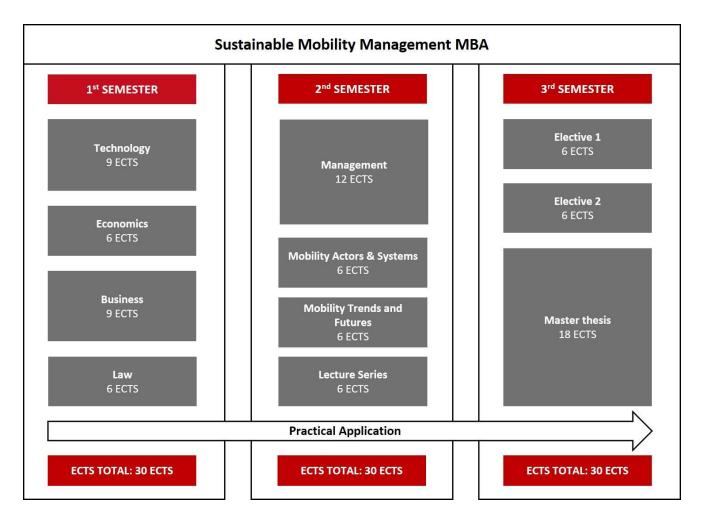
Annex 3: Module descriptions

# Annex 1: Module Catalog<sup>1</sup>

No.	Module	Credit Points (ECTS)	Type of Assessment	Grade d	Weighting in overall grade <sup>2</sup>
	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	Mobility: Actors and Practices	6	Portfolio	Yes	1
7	Lecture series: Transition Toward Sustainable Mobility	6	without examination	No	-
8	Mobility Trends and Futures	6	Portfolio	Yes	1
	Compulsory elective modules				
E-SuMo 1	Business Models and Investments in Sustainable Mobility	6	Portfolio	No	-
E-SuMo 2	Data Analysis and ICT in Mobility	6	Portfolio	No	-
E-SuMo 3	Urban and Transport Planning in Emerging Economies: Concepts and Experiences	6	Portfolio	No	-
E-EM 1	Efficiency Management	6	Portfolio	No	-
E-EM 2	Rural Electrification	6	Portfolio	No	-
E-EM 3	Project Management Skills. Managing (Agile) Projects and Product Development	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	-
9	Master's thesis (individual topic)	18	Final dissertation	Yes	1
	Total	90			

<sup>&</sup>lt;sup>1</sup> The module descriptions are published annually in the Official Gazette of TU Berlin at the beginning of the winter semester in October and at the beginning of the summer semester in April. The version published therein is then valid. (See Section 33 (6) of the Regulations Governing Study and Examination Procedures (AllgStuPO)).

<sup>&</sup>lt;sup>2</sup> "1" means that the grade is weighted on the scale of CP (Section 47 (6) of the Regulations Governing General Study and Examination Procedures (AllgStuPO)); "-" means the grade is not weighted; all other figures are a multiplication factor for the scale in CP.



# **Compulsory modules**

	Credit Points (E	-	ort title:		
Technology	9	Те	chnology (S	uMo)	
Module supervisor:	Office:		ail:		
Prof. Dr. Dietmar Göhlich	Alina Pfiefer	alir	alina.pfeifer@campus.tu-berlin.de		
	Module descrip	otion			
1. Module aims					
In this module, students review and gain technologies and systems in the context and sustainable development. The modu technological foundations of the subsequ	of current developme le also covers the mo	ents and tak ost importan	ing into ac	count social resp	onsibility
Students will be able to define and evalu transport sector and present options for		es and apply	them to s	elected cases in t	he
2. Content					
engineering (electrical energy technology pumps and compressors), principles of p	rocess engineering, bi	iomass, foss	sil fuels, rer	newable energy s	ources,
pumps and compressors), principles of p geothermal energy, hydropower, wind p processes, Carnot cycle & method, stora from the field of building management.	rocess engineering, bi ower, solar thermal e	iomass, foss nergy, phot	sil fuels, rer ovoltaics, p	newable energy s power grids, swite	ources, chover
pumps and compressors), principles of p geothermal energy, hydropower, wind p processes, Carnot cycle & method, stora from the field of building management. <b>3. Module components</b>	rocess engineering, bi ower, solar thermal e	iomass, foss nergy, phot	sil fuels, rer ovoltaics, p	newable energy s power grids, swite	ources, chover
pumps and compressors), principles of p geothermal energy, hydropower, wind p processes, Carnot cycle & method, stora from the field of building management. <b>3. Module components</b> Course title	rocess engineering, bi ower, solar thermal e ge and transport tech	iomass, foss inergy, phot inology, buil Course hours per	ECTS	Compulsory (C) / Elective (E) Compulsory	ources, chover ic content Semeste
pumps and compressors), principles of p geothermal energy, hydropower, wind p processes, Carnot cycle & method, stora from the field of building management. <b>3. Module components</b> Course title Technology I	Course type	iomass, foss energy, phot inology, buil Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	ources, chover ic content Semeste
pumps and compressors), principles of p geothermal energy, hydropower, wind p processes, Carnot cycle & method, stora from the field of building management. <b>3. Module components</b> Course title Technology I Technology II	Course type	iomass, foss energy, phot inology, buil Course hours per week 1.1	ECTS	Compulsory (C) / Elective (E) Compulsory	ources, chover ic content Semeste (WS/SS) Winter
pumps and compressors), principles of p geothermal energy, hydropower, wind p processes, Carnot cycle & method, stora from the field of building management. <b>3. Module components</b> Course title Technology I Technology II	Course type	iomass, foss inergy, phot inology, buil Course hours per week 1.1 2.1	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	ources, chover ic content Semeste (WS/SS) Winter
pumps and compressors), principles of p geothermal energy, hydropower, wind p processes, Carnot cycle & method, stora from the field of building management. <b>3. Module components</b> Course title Technology I Technology II Technology Tutorial Case studies & accompanying program	Course type IV IV Tutorial	iomass, foss energy, phot nology, buil Course hours per week 1.1 2.1 1.6	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	ources, chover ic content Semeste (WS/SS) Winter
pumps and compressors), principles of p geothermal energy, hydropower, wind p processes, Carnot cycle & method, stora from the field of building management. <b>3. Module components</b> Course title Technology I Technology II Technology IU Technology Tutorial Case studies & accompanying program <b>4. Description of course types</b>	Course type IV IV Tutorial IV IV IV	iomass, foss energy, phot inology, buil Course hours per week 1.1 2.1 1.6 1.6	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE) C	ources, chover ic content Semeste (WS/SS) Winter semeste
pumps and compressors), principles of p geothermal energy, hydropower, wind p processes, Carnot cycle & method, stora from the field of building management. <b>3. Module components</b> Course title Technology I Technology II Technology Tutorial	Course type IV IV Tutorial IV IV IV	iomass, foss energy, phot inology, buil Course hours per week 1.1 2.1 1.6 1.6	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE) C	ources, chover ic content Semeste (WS/SS) Winter semeste

# 6. Module can be taken in following programs

Continuing education master's in Sustainable Mobility Management (MBA) at TU Berlin

7. Workload and credits		
Seminar-style lectures (in person)	48 h	
Tutorials (in person)	24 h	
Case studies & accompanying program	24 h	
Preparation and follow-up incl. e-learning	128 h	
Examination and exam preparation		
This amounts to a workload of 270 hours per semester, which is equ	ivalent to <b>9 credits</b> .	
8. Module completion		
Type of assessment: written exam - There will be one assessed test (written; duration 120 mins) at the - Students who fail the exam may repeat it at the beginning of the fo 9. Module duration		
The module can be completed in <b>one</b> semester.		
10. Number of participants		
Technology I: Maximum number of participants: 90 Technology II: Maximum number of participants: 30		
11. Registration formalities		
Students can register for the e-learning course, the tutorial and the e	examination via TUBS.	
12. Reading list and lecture notes		
Lecture notes available in hard copy: No Lecture notes available in electronic format: Yes On the Moodle platform for the program: https://www.isis.tu-berlin <u>Reading list:</u> The reading list is provided in the e-learning course on N		

Module title:	Credit Points (ECTS):	Short title:		
Economics	6	Economics (SuMo)		
Module supervisor:	Office:	Email:		
Prof. Dr. Hans-Liudger Dienel	Alina Pfeifer	alina.pfeifer@campus.tu-berlin.de		
	Module description	L		
1. Module aims				
This module is an introduction to eco	nomics. It covers the most impo	ortant principles of economics taking into		
account social responsibility and susta	•	ule engages with the latest research and		

encourages a critical and reflective approach in providing a foundation in economics for subsequent modules. Students are able to identify specialized knowledge and aspects of economics and to compare general and selected cases from the transport sector.

## 2. Content

Concepts in microeconomics (microeconomic analysis and market interaction of businesses, households and governmental organizations), aggregated demand, factors in production decisions, supply and demand, markets (competitive market, monopoly market, functioning markets, market failure, market regulation, price regulation, energy and commodity markets, and the transport sector), taxation, principles of investment decisions, societal welfare, merit order effect, sustainability, commodities sector, energy industry and public utilities.

Principles of macroeconomics, capitalism as an economic system (private property, companies, markets), technological change & economic growth, competitive markets, banks, fiscal and monetary policy, unemployment, inflation, and the global economic crisis.

Application of economic theories and methods with links to the transport sector.

3. Module components					
Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Economics I	IV	1.6			
Economics II	IV	1.1	6	с	Winter
Economics Tutorial	Tutorial	2.1	D	C	semester
Case studies & accompanying program	IV	0.5			

# 3 Module components

#### 4. Description of course types

Integrated courses (IV) with lectures, exercises, tutorials, e-learning course and accompanying program.

## 5. Participation requirements

Enrolled in the master's in Sustainable Mobility Management (MBA) at TU Berlin (1st-course semester)

## 6. Module can be taken in following programs

Continuing education master's in Sustainable Mobility Management (MBA) at TU Berlin

7. Workload and credits	
Seminar-style lectures (in person)	40h
Tutorials (in person)	32 h
Case studies & accompanying program	8 h
Preparation and follow-up incl. e-learning	82 h
Examination and exam preparation (1 test)	18 h
This amounts to a workload of <b>180 hours</b> per semester, which is equi	ivalent to <b>6 credits</b> .
8. Module completion	
Type of assessment: written exam There will be one assessed test (written; duration 90 mins) at the end Students who fail the exam may repeat it at the beginning of the follo 9. Module duration The module can be completed in <b>one</b> 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 e	examination 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:// The reading list is provided in the e-learning course on Moodle.	/www.isis.tu-berlin.de/2.0/

Module title:	Credit Points	(ECTS): Sh	ort title:		
Business	9	Bu	isiness (SuM	o)	
Module supervisor:	Office:	En	nail:		
Prof. Dr. Hans-Liudger Dienel	Alina Pfeifer	ali	na.pfeifer@	campus.tu-berli	n.de
	Module descr	iption			
1. Module aims					
This module is an introduction to busine taking into account social responsibility research and encourages a critical and r subsequent modules.	and sustainable deve eflective approach in	elopment. Th n providing a	e module er grounding ir	ngages with the business studie	atest es for
Students will be able to define the main using different fields of knowledge and the state of th				solving skills to c	ase studies
2. Content					
Evaluation of companies, corporate accordepreciation, basic principles of strategy financing (corporate finance), liquidity, ndemand analysis, advertising, etc.), organinks to the transport sector.	y development, prod marketing & sales (co	uction mana onsumer beh	gement, bus avior, SWOT	iness ethics, inv , Ansoff matrix,	estment & BCG matrix
3. Module components					
Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
		1	İ	İ	( -,,
Business I	IV	1.6			( )
Business I Business II	IV IV	1.6 1.6			Winter
		-	9	с	

Integrated courses (IV) in the form of seminar-style lectures, e-learning course, tutorial, exercise and accompanying program

## 5. Participation requirements

Enrolled in the continuing education master's in Sustainable Mobility Management (MBA) at TU Berlin (1st-course semester)

## 6. Module can be taken in following programs

Continuing education master's in Sustainable Mobility Management (MBA) at TU Berlin (1st semester)

Seminar-style lectures (in person)	48 h
Tutorials (in person)	24 h
Case studies & 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 <b>270 hours</b> per semester, which is equivalen	t to 9 credits.
8. Module examination and grading	
Graded: no Type of assessment: Portfolio Students who fail the exam may repeat it at the beginning of the following	semester.
Task	Points
(Evaluation of output) Written test (duration: 60 minutes)	20
(Evaluation of output) Business simulation - Presentation	40
(Evaluation of output) Business simulation - Term paper	40
9. Module duration	
The module can be completed in <b>one</b> semester.	
10. Number of participants	
Business I: Maximum number of participants: 90	
Business II: Maximum number of participants: 30	
11. Registration formalities	
Students can register for the e-learning course, the tutorial and the examin	nation 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:	

Module title: Law	<b>Credit Points</b> 6		Short title: Law (SuMo)		
<b>Module supervisor:</b> Prof. Dr. Dr. Dres. h.c. Franz Jürgen Säcker	Office: Alina Pfeifer		Email: alina.pfeifer@campus.tu-berlin.de		n.de
	Module desc	ription			
1. Module aims					
This module is an introduction to legal pri international, European and national leve Students will be able to use their own init	Ι.	-			
problems, evaluate cases independently a		-	-		
2. Content					
Principles of civil, private and commercial transport sector. Principles of the regulate iii) German level.					
3. Module components					
Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Law I	IV	0.5			
Law II	IV	1.6			Winter
Law Tutorial	Tutorial	0.8	6	C	semester
Case studies & accompanying program	IV	0.5			
4. Description of course types					
Integrated courses (IV) in the form of sem	inar-style lectures	s, e-learning	course, and	tutorial	
5. Participation requirements					
Enrolled in master's in Sustainable Mobility	ty Management (N	/IBA) at TU B	erlin (1st-co	urse semester)	
6. Module can be taken in following prog	rams				
Continuing education master's in Sustaina	able Mobility Man	agement (M	RA) at TH Bo	rlin	

7. Workload and credits	
Integrated courses (in person)	32 h
Tutorials (in person)	12 h
Case studies & 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 e	equivalent to <b>6 credits</b> .
8. Module completion	
- One term paper (written, 10 pages, 10 days) will be set at the en	d of the module.
<ul> <li>Students who fail the exam may repeat it at the beginning of the</li> <li>9. Module duration</li> </ul>	e following semester.
	e following semester.
9. Module duration	e following semester.
9. Module duration The module can be completed in one semester.	e following semester.
9. Module duration         The module can be completed in one semester.         10. Number of participants         Law I: Maximum number of participants: 90         Law II: Maximum number of participants: 30	e following semester.
9. Module duration         The module can be completed in one semester.         10. Number of participants         Law I: Maximum number of participants: 90         Law II: Maximum number of participants: 30         11. Registration formalities	
9. Module duration         The module can be completed in one semester.         10. Number of participants         Law I: Maximum number of participants: 90	

Management	Credit Points		ort title: anagement	(SuMo)	
Management	12	101	anagement	(30100)	
Module supervisor:	Office:		nail:		
Prof. Dr. Søren Salomo	Alina Pfeifer	ali	na.pfeifer@	campus.tu-berli	n.de
	Module desc	ription			
1. Module aims					
consequences of environmental changes incorporating interdependent technologi organizations and taking into account so Students will be able to define the main skills to case studies using different fields sector.	ical, economic, busi cial responsibility ar features of manage	ness and legand sustainable ment in the t	al processes e developm ransport see	in companies an ent. ctor, apply probl	em-solving
2. Content					
Business models & plans, small group con		ership, enviro	nmental cor	nmunication. co	rporate
social responsibility (CSR), conflict manages system services, and energy services, Gen links to the transport sector.			sk managen	nent; operationa	l excellence
system services, and energy services, Ge			sk managen	nent; operationa	l excellence
system services, and energy services, Gel links to the transport sector.			sk managen	nent; operationa	l excellence
system services, and energy services, Gel links to the transport sector. <b>3. Module components</b> Course title	rmany's energy trar	Course hours per	sk managem managemer ECTS	Compulsory (C) / Elective (E) Compulsory	excellence wer and
system services, and energy services, Ger links to the transport sector. 3. Module components	rmany's energy trar Course type	Course hours per week	sk managem managemer ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	excellence wer and
system services, and energy services, Ger links to the transport sector. <b>3. Module components</b> Course title Management I	rmany's energy trar Course type IV	Course hours per week 2.2	sk managem managemer ECTS	Compulsory (C) / Elective (E) Compulsory	Semester WS/SS)

## 4. Description of course types

Integrated courses (IV) in the form of seminar-style lectures, e-learning course, and tutorial

## 5. Participation requirements

Enrolled in the continuing education master's in Sustainable Mobility Management (MBA) at TU Berlin (2nd-course semester)

# 6. Module can be taken in following programs

Continuing education master's in Sustainable Mobility Management (MBA) at TU Berlin

7. Workload and credits	
Integrated courses (in person)	64 h
Tutorials (in person)	32 h
Case studies & 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 <b>360 hours</b> per semester, which is equivalent to <b>1</b>	2 credits.
8. Module completion	
Graded Type of assessment: Portfolio Students who do not pass may repeat at the beginning of the following semeste exam (duration: 120 minutes).	r by taking a graded written
Task	Points
(Evaluation of output) Project (term paper)	40
(Evaluation of learning process) oral presentation	20
(Evaluation of output) Written test	40
9. Module duration	
The module can be completed in <b>one</b> semester.	
10. Number of participants	
Maximum number of participants in Management I: 90	
Maximum number of participants in Management II: 30	
Maximum number of participants in Management II: 30 11. Registration formalities	
	ı via TUBS.
11. Registration formalities	ı via TUBS.

Module title: Mobility: Actors and Practices	<b>Credit Points</b> 6		<b>ort title:</b> tors (SuMo	)	
Module supervisor: Prof. Dr. Sphia Becker	Office: Alina Pfeifer		n <b>ail:</b> a.pfeifer@o	campus.tu-berlin	.de
	Module desc	ription			
1. Module aims					
After taking this module, students w	ill:				
<ul> <li>have acquired a knowledge bas approaches with the focus on m</li> </ul>				theories, concep	ts, and
<ul> <li>be able to identify and address implementation of the transitio</li> </ul>	social, economic and te	chnological co		points of tensior	n in the
2. Content					
<ul> <li>Modes of transport and actor</li> <li>The concept of motility and a</li> <li>Social and individual behavior</li> <li>Travel networks, community,</li> <li>Policy and inequalities; diver</li> <li>Urban, metropolitan and rur</li> </ul> 3. Module components	sessility; mobility turn; l pr: social networks, time , and identity; sity of users;	ong-tem visio		-	
Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Actors and Systems I	IV	0.7			
Actors and Systems II	IV	0.7			
Actors and Systems III	IV	0.7	C		Summer
Actors and Systems IV	IV	1	6	С	semester
Case studies I	Tutorial	0.45			
Case studies II	Tutorial	0.45			
4. Description of course types					

Integrated courses (IV) often in the form of seminar-style lectures

# 5. Participation requirements

Enrolled in the master's in Sustainable Mobility Management at TU Berlin (2nd-course semester)

# 6. Module can be taken in following programs

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

7. Workload and credits		
Seminar-style lectures (in person)		48 h
Tutorial/case studies (in person)		15 h
Preparation and follow-up incl. e-learning		80 h
Examination and exam preparation		37 h
This amounts to a workload of 180 hours per semester,	which is equivalent to <b>6</b>	credits.
8. Module completion		
Type of assessment: Portfolio If a student fails, the examination will be repeated at the graded examination (120 minutes).	e beginning of the follow	ring semester in the form of a
Task		Points
(Evaluation of output) Project (term paper)		60
(Evaluation of learning process) oral presentation		40
9. Module duration		
The module can be completed in <b>one</b> semester.		
10. Number of participants		
Maximum number of participants: 30		
11. Registration formalities		
Students can register for the examination 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 pro The reading list is provided in the e-learning course on I		u-berlin.de/2.0/

Module title: Lecture series: Transition Toward Sustainable Mobility	<b>Credit Points</b> 6		ort title: cture series	(SuMo)	
Module supervisor: Prof. Dr. Hans-Liudger Dienel	Office: Alina Pfeifer		nail: ina.pfeifer@	campus.tu-berli	n.de
	Module desc	ription			
1. Module aims					
The main aim is to explore current persp practitioners and researchers in this field		urse on susta	inable mobi	lity by involving	
2. Content					
At the end of this module, students will and related trends. A number of national and international perspectives on the transformation of m In this way - alongside the knowledge ga	experts from industinobility using case st	ry, academia udies from p	and researc ractice.	h centers presen	t different
complex understanding of the problems				learn now to de	velop a
3. Module components					
Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Lecture Series I	IV	4	6	с	Summer semester
4. Description of course types					
Integrated courses (IV) with some semin	ar-style lectures.				
5. Participation requirements					
Enrolled in the master's in Sustainable N	Nobility Managemer	nt (MBA) at T	U Berlin (2nd	d-course semeste	er)
6. Module can be taken in following pro	ograms				
Continuing education master's in Sustain	nable Mobility Mana	agement (MB	A) at TU Ber	lin	

7. Workload and credits	
Seminar-style lectures (in person)	60 h
Preparation and follow-up incl. e-learning	120 h
This amounts to a workload of <b>180 hours</b> per semester,	which is equivalent to <b>6 credits</b> .
8. Module completion	
Students complete the module through active participa Graded: no	tion
9. Module duration	
The module can be completed in <b>one</b> semester.	
10. Number of participants	
Maximum number of participants: 30	
11. Registration formalities	
Students can register for the e-learning course 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 pro The reading list is provided in the e-learning course on I	

Module title:	Credit Points	Points (ECTS): Short title:			
Mobility Trends and Futures	6	Tre	Trends (SuMo)		
Module supervisor:	Office:		Email:		
Prof. Dr. Hans-Liudger Dienel	Alina Pfeifer	lin	lina.pfeifer@campus.tu-berlin.c		lin.de
	Module desc	ription			
1. Module aims					
After taking this module, students will	:				
<ul> <li>understand mobility trends in transport systems of the futur</li> <li>be able to evaluate social and</li> <li>have a firm grounding in the d</li> <li>be able to use this knowledge transformation.</li> </ul>	e; technological transfo evelopment of foreca	rmation and c sts;	hange;		
2. Content					
- Long-term visions for mobility	;				
<ul> <li>Principles of forecasting and m</li> </ul>	nethods;				
<ul> <li>Concept of wild cards and weat</li> </ul>	ak signals;				
<ul> <li>Megatrends; Current trends and</li> </ul>	nd possible scenarios	in mobility;			
- Similarities and differences be	tween emerging and	developed eco	onomies;		
- New consumption patterns, no	ew lifestyles;				
- Critical evaluation of technolo	gical innovations and	their effects;			
3. Module components					
Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Mobility Trends and Futures	IV	3	<i>.</i>		Summer
Scenario Development	Tutorial	1	6	С	semester
4. Description of course types		1 1			
Integrated courses (IV) with seminar-s	tyle lectures.				
5. Participation requirements					
Enrolled in the continuing education n course semester)	naster's in Sustainable	e Mobility Mar	nagement (	MBA) at TU Berli	n (2nd-
6. Module can be taken in following p	programs				

7. Workload and credits		
Seminar-style lectures (in person)		45 h
Tutorial (in person)		15 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h
This amounts to a workload of <b>180 hours</b> per semester, v	which is equivalent to <b>6</b>	credits.
8. Completion of the module		
Type of assessment: Portfolio If a student fails, the examination will be repeated at the graded examination (120 minutes).	beginning of the follow	
Task		Points
(Evaluation of output) Presentation of a developed sce	40	
(Evaluation of output) Written report on scenario development		20
(Evaluation of output) Oral examination		40
9. Module duration		
This module is available in the second semester.		
10. Number of participants		
Maximum number of participants: 30		
11. Registration formalities		
Students can register for the e-learning course, the tutor	ial and the examination	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 prog	ram: https://www.isis.tu	u-berlin.de/2.0/

# **Compulsory elective modules**

Business Models and Investments in Sustainable Mobility	<b>Credit Points (</b> 6	Bu	<b>ort title:</b> siness Mod SuMo 1	els (SuMo)	
Module supervisor:	Office:	Em	nail:		
Prof. Dr. Hans-Liudger Dienel	Alina Pfeifer			campus.tu-berli	n.de
	Module descri	iption			
1. Module aims					
<ul> <li>After taking this module, students will:</li> <li>understand the basic principles o</li> <li>be able to apply these in order to</li> <li>be able to evaluate traditional an</li> <li>be able to develop innovative economic</li> </ul>	implement sustaina d innovative busine	able mobility ss models in		e mobility.	
2. Content					
<ul> <li>Sources and limits of financial res</li> <li>Investment calculation;</li> <li>Critically linking project financing</li> <li>Concept of the infrastructure cycl</li> <li>Business models</li> <li>Traditional and innovative busine</li> <li>Sharing economy and crowdfund</li> <li>Designing a business model (selection).</li> </ul>	, decision-making, a le and long-term inv ss models; ing;	nd investme estment;		lyze and identify	market,
3. Module components					
		Course	ECTS	Compulsory (C) / Elective	
Course title	Course type	hours per week	credits	(E) Compulsory elective (CE)	Semester (WS/SS)
Course title Business Models in Transport	Course type			Compulsory elective (CE)	
		week	credits 6	Compulsory	(WS/SS)
Business Models in Transport	IV	week		Compulsory elective (CE)	(WS/SS) Winter
Business Models in Transport Case studies & accompanying program	IV IV cs will be grouped in	week 2.9 1,1 blocks so th	6 at there wi	Compulsory elective (CE) CE	(WS/SS) Winter semester

Enrolled in one of the following continuing education master's: Energy Management (MBA), Building Efficiency (MBA) or Sustainable Mobility Management (MBA) at TU Berlin (2nd 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 in Sustainable Mobility Management at TU-Campus EUREF (TU Berlin).

7. Workload and credits		
Seminar-style lectures (in person)		44 h
Case studies & accompanying program (in person)		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h
This amounts to a workload of <b>180 hours</b> per semester, w	which is equivalent to <b>6</b>	credits.
8. Module completion		
Type of assessment: Portfolio If a student fails, the examination will be repeated at the graded examination (120 minutes).	beginning of the follow	-
Task		Points
(Learning process evaluation) Project - Contribution to the	25	
(Output evaluation) Oral presentation	50	
(Output evaluation) Presentation materials / written com	25	
9. Module duration		
This module takes place during the third semester.		
10. Number of participants		
Maximum number of participants: 25		
11. Registration formalities		
Students can register for the e-learning course and the ex	amination 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 progr The reading list is provided in the e-learning course on Mo	-	u-berlin.de/2.0/

Module title:	Credit Points	(ECTS): S	hort title:		
Data Analysis and ICT in Mobility	6	1	CT (SuMo)		
		E	-SuMo 2		
Module supervisor:	Office:	E	mail:		
Prof. Dr. Hans-Liudger Dienel	Alina Pfeifer	ā	lina.pfeifer@	campus.tu-berli	n.de
	Module desc	ription			
1. Module aims					
After taking this module, students will:					
<ul> <li>evaluate current and future pract</li> </ul>	ices in the digitaliz	ation of the	transport inc	lustry and transp	ort
services;					
<ul> <li>be familiar with the principles of i making processes; iv) data mining;</li> </ul>	) data collection ii	) data analys	is and iii) mo	deling to suppor	t decision-
- be able to understand the use of	data in mobility sy	stoms			
	uata in mobility sy	sterns.			
2. Content					
- The role and growth of ICT;					
- The complex relationship betwee	-				
- Quantitative and qualitative data;		esigning and	a analyzing st	urveys;	
<ul> <li>Data collection, modelling, analys</li> <li>Data mining:</li> </ul>	15,				
<ul> <li>Data mining;</li> <li>Interpretation of ICT and qualitati</li> </ul>	vo data:				
<ul> <li>Project work.</li> </ul>	ve uala,				
3. Module components					
		Course		Compulsory (C) / Elective	
Course title	Course type	hours pe	_ ECTS credits	(E)	Semeste
		week		Compulsory elective (CE)	(WS/SS)
ICT and Mobility	IV	2,9			Winter
Case studies & accompanying program	IV	1.1	- 6	CE	semester
4. Description of course types					
Lectures and exercises on individual topic	s will be grouped	n blocks so	hat there wi	ll be plenty of op	portunities
for in-depth study.				· · ·	
Overall, the first phase will serve to build	up the theoretical	basis before	e it is applied	to practice.	
5. Participation requirements					
Enrolled in one of the following continuin	-		-		-
(MBA) or Sustainable Mobility Manageme		-	-	-	
places, students in the continuing educati have priority.	ion master's progr	am in Sustai	nable Mobili	ty Management (	MBA) will
6. Module can be taken in following prog	grams				
Continuing education master's in Sustaina	able Mobility Man	agement at "	[U-Campus F	URFF (TU Berlin)	
concerns concerns in Justaine	aware in conney indire	-ocnent at			

7. Workload and credits		
Seminar-style lectures (in person)		44 h
Case studies & accompanying program (in person)		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation (1 test)		30 h
This amounts to a workload of <b>180 hours</b> per semester, w	which is equivalent to <b>6</b>	credits.
8. Completion of the module		
Type of assessment: Portfolio If a student fails, the examination will be repeated at the graded examination (120 minutes).	e beginning of the follow	ing semester in the form of a
Task	Points	
(Learning process evaluation) Project - Contribution to t	25	
(Output evaluation) Oral presentation	50	
(Output evaluation) Presentation materials / written cor	25	
9. Module duration		
This module takes place during the third semester.		
10. Number of participants		
Maximum number of participants: 25		
11. Registration formalities		
Students can register for the e-learning course and the e	examination 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 prog The reading list is provided in the e-learning course on M	-	u-berlin.de/2.0/

Module title: Urban and Transport Planning in Emerging Economies: Concepts and Experiences	<b>Credit Points (ECTS):</b> 6	Short title: Urban planning (SuMo) E-SuMo 3
Module supervisor: Prof. Dr. Hans-Liudger Dienel	Office: Alina Pfeifer	Email: alina.pfeifer@campus.tu-berlin.de
	Module description	
1. Module aims		
After taking this module, students will:		
- be familiar with the urban and trans	port planning experience	es in Emerging Economies;
<ul> <li>have knowledge of smart city concept</li> </ul>	ots, theories, and criticis	ms
<ul> <li>Use this knowledge to apply analytic</li> </ul>	al methods in various ins	stitutional and economic contexts;
	on these.	

## 2. 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 sustainable economy: indicators for monitoring and assessing;
- Knowledge and technology exchange transfer and barriers;
- Mobility challenges in the developing world on rural and urban scale;
- Megacities, Smart city concepts, theories, and criticism.

#### 3. Module components

Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Urban and Transport Planning	IV	2,9	c	C.C.	Winter
Case studies & accompanying program	IV	1.1	6	CE	semester

## 4. Description of course types

Lectures and exercises on individual topics will be grouped in blocks so that there will be plenty of opportunities for in-depth study.

Overall, the first phase will serve to build up the theoretical basis before it is applied to practice.

## 5. Participation requirements

Enrolled in one of the following continuing education master's: Energy Management (MBA), Building Efficiency (MBA) or Sustainable Mobility Management (MBA) at TU Berlin (2nd 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 in Sustainable Mobility Management at TU-Campus EUREF (TU Berlin)

7. Workload and credits			
Seminar-style lectures (in person)		44 h	
Case studies & accompanying program (in person)		16 h	
Preparation and follow-up incl. e-learning		90 h	
Examination and exam preparation	amination and exam preparation		
This amounts to a workload of <b>180 hours</b> per semester, v	which is equivalent to <b>6</b> o	credits.	
8. Completion of the module			
Graded: no Type of assessment: Portfolio If a student fails, the examination will be repeated at the graded examination (120 minutes).	beginning of the follow	ing semester in the form of a	
Task		Points	
(Learning process evaluation) Project - Contribution to t	25		
(Output evaluation) Oral presentation	50		
(Output evaluation) Presentation materials / written con	25		
9. Module duration			
This module takes place during the third semester.			
10. Number of participants			
Maximum number of participants: 25			
11. Registration formalities			
Students can register for the e-learning course and the ex	xamination 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 progr The reading list is provided in the e-learning course on M	• • • •	ı-berlin.de/2.0/	

Module title:	Credit Points (I	CTS): Sh	ort title:		
Efficiency Management	6	Ef	ficiency (EM		
		E-	EM 1		
Module supervisor:	Office:	En	nail:		
Prof. DrIng. Joachim Müller- Kirchenbauer	Sandra Lubahn	Sa	ndra.lubahn	@campus.tu-be	rlin.de
	Module descri	ption			
1. Module aims					
The students will be able to define, evalu factories, and urban districts. They do th operations in companies and organizatio account.	is by integrating the t	echnologica	al, economic	, business and le	egal
2. Content					
Buildings and energy efficiency; greenho power generation, process chain manage heating, and cooling networks, project m to the energy, building or transport sector	ement, energy efficie nanagement, ISO star	ncy technol	ogies, amort	ization processe	es, local
3. Module components					
Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Efficiency management	IV	2.9			Winter
Case studies & accompanying program	IV	1.1	6	CE	Winter semester

# 4. Description of course types

Integrated courses (IV) in the form of seminar-style lectures, e-learning course, and tutorial

## 5. Participation requirements

Enrolled in one of the following continuing education master's: Energy Management (MBA), Building Efficiency (MBA) or Sustainable Mobility Management (MBA) at TU Berlin (2nd 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 in Energy Management (MBA) at TU Berlin.

7. Workload and credits		
Seminar-style lectures (in person)		44 h
Case Studies (in person)		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h
This amounts to a workload of <b>180 hours</b> per seme	ester, which is equivalent to <b>6 cre</b>	dits.
8. Completion of the module		
Graded: no		
Type of assessment: Portfolio		

If a student fails, the examination will be repeated at the beginning of the following semester in the form of a graded examination (120 minutes).

Task	Points
(Learning process evaluation) Project - Contribution to the discussion	25
(Output evaluation) Oral presentation	50
(Output evaluation) Presentation materials / written composition (term paper)	25

## 9. Module duration

This module takes place during the third semester.

## **10.** Number of participants

Maximum number of participants: 25

## **11.** Registration formalities

Students can register for the e-learning course and the examination 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/2.0/ The reading list is provided in the e-learning course on Moodle.

Module title:	Credit Points (ECTS):	Short title:
Rural Electrification	6	Rural Electrification (EM)
		E-EM 2
Module supervisor:	Office:	Email:
Dawud Ansari, M.Sc.	Sandra Lubahn	Sandra.lubahn@campus.tu-berlin.de
	Module description	

## 1. Module aims

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.

## 2. 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).

## 3. Module components

Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Efficiency management	IV	2.9			Mintor
Case studies & accompanying program	IV	1.1	6	CE	Winter semester

## 4. Description of course types

Integrated courses (IV) in the form of seminar-style lectures, e-learning course, and tutorial

## 5. Participation requirements

Enrolled in one of the following continuing education master's: Energy Management (MBA), Building Efficiency (MBA) or Sustainable Mobility Management (MBA) at TU Berlin (2nd 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 in Energy Management (MBA) at TU Berlin

7. Workload and credits		
Seminar-style lectures (in person)		44 h
Case Studies (in person)		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h
This amounts to a workload of <b>180 hours</b> per seme	ester, which is equivalent to <b>6 cre</b>	dits.
8. Completion of the module		
Graded: no		
Type of assessment: Portfolio		

If a student fails, the examination will be repeated at the beginning of the following semester in the form of a graded examination (120 minutes).

Task	Points
(Learning process evaluation) Project - Contribution to the discussion	25
(Output evaluation) Oral presentation	50
(Output evaluation) Presentation materials / written composition (term paper)	25

## 9. Module duration

This module takes place during the third semester.

## **10.** Number of participants

Maximum number of participants: 25

## **11.** Registration formalities

Students can register for the e-learning course and the examination 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/2.0/ The reading list is provided in the e-learning course on Moodle.

Module title:	Credit Points (ECTS):	Short title:
Project Management Skills.	6	Project Management Skills (EM)
Managing (Agile) Projects and Product Development (EM)		E-EM 3
Module supervisor:	Office:	Email:
Christian Busch, M.Sc., MBA	Sandra Lubahn	Sandra.lubahn@campus.tu-berlin.de
	Module description	

# 1. Module aims

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, 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.

#### 2. 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 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).

#### 3. Module components

Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Efficiency management	IV	2.9			Winter
Case studies & accompanying program	IV	1.1	6	CE	semester
4. Description of course types					

Integrated courses (IV) in the form of seminar-style lectures, e-learning course, and tutorial

#### 5. Participation requirements

Enrolled in one of the following continuing education master's: Energy Management (MBA), Building Efficiency (MBA) or Sustainable Mobility Management (MBA) at TU Berlin (2nd 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 in Energy Management (MBA) at TU Berlin

#### 7. Workload and credits

Seminar-style lectures (in person)	44 h
Case Studies (in person)	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. Completion of the module

Graded: no

#### Type of assessment: Portfolio

If a student fails, the examination will be repeated at the beginning of the following semester in the form of a graded examination (120 minutes).

Task	Points
(Learning process evaluation) Project - Contribution to the discussion	25
(Output evaluation) Oral presentation	50
(Output evaluation) Presentation materials / written composition (term paper)	25

## 9. Module duration

This module takes place during the third semester.

#### **10.** Number of participants

Maximum number of participants: 25

## **11. Registration formalities**

Students can register for the e-learning course and the examination 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/2.0/ The reading list is provided in the e-learning course on Moodle.

Module title: User-Centered Business Model Innovation & Research	<b>Credit Points (ECTS):</b> 6	Short title: BMIR (BuSu) E-BuSu 1
<b>Module supervisor:</b> Prof. DrIng. Joachim Müller- Kirchenbauer	Office: Laura Lehmann	Email: laura.lehmann.1@campus.tu-berlin.de
	Module description	

# 1. Module aims

The User-Centered Business Model Innovation & Research module is an interdisciplinary project that awards 6 ECTS for one semester. The course offers theoretical input sessions on innovation management, project management, team building, user-centered business model development, and methods of business research. Using innovative design thinking and lean startup methods, the students apply this knowledge independently to the development of their business idea. With an entrepreneurial spirit, the teams work with various interest groups (industry, government, and startups).

#### 2. Content

Innovation management basics, open & user innovation, team building, and team management, innovation assessment, 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	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Efficiency management	IV	2.9			Winter
Case studies & accompanying program	IV	1.1	6	CE	semester

# 4. Description of course types

Integrated courses (IV) in the form of seminar-style lectures, e-learning course, and tutorial

## 5. Participation requirements

Enrolled in one of the following continuing education master's: Energy Management (MBA), Building Efficiency (MBA) or Sustainable Mobility Management (MBA) at TU Berlin (2nd semester) If there is a high demand for places, students in the continuing education master's program in Building Efficiency (MBA) will have priority.

## 6. Module can be taken in following programs

Continuing education master's in Building Efficiency (MBA) at TU Berlin.

7 Meruland and medite		
7. Workload and credits		
Seminar-style lectures (in person)		44 h
Case Studies (in person)		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h
This amounts to a workload of <b>180 hours</b> per semester,	which is equivalent to <b>6</b>	credits.
8. Completion of the module		
Graded: no Type of assessment: Portfolio If a student fails, the examination will be repeated at the graded examination (120 minutes).	e beginning of the follow	ing semester in the form of a
Task		Points
(Learning process evaluation) Project - Contribution to the discussion		25
(Output evaluation) Oral presentation		50
(Output evaluation) Presentation materials / written composition (term paper)		25
9. Module duration		
This module takes place during the third semester.		
10. Number of participants		
Maximum number of participants: 25		
11. Registration formalities		
Students can register for the e-learning course and the e	examination 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 prog The reading list is provided in the e-learning course on N		u-berlin.de/2.0/

Module title:	Credit Points (ECTS):	Short title:
Energy-Efficient Societies	6	EES (BuSu)
		E-BuSu 2
Module supervisor:	Office:	Email:
Dr. Caroline Schröder	Laura Lehmann	laura.lehmann.1@campus.tu-berlin.de
	Module description	

## 1. Module aims

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.

## 2. 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 for 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, users in different project contexts)

• acquire conflict management skills (communication, participation, and cooperation)

## 3. Module components

Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)
Efficiency management	IV	2.9			Mintor
Case studies & accompanying program	IV	1.1	6	CE	Winter semester

## 4. Description of course types

Integrated courses (IV) in the form of seminar-style lectures, e-learning course, and tutorial

## 5. Participation requirements

Enrolled in one of the following continuing education master's: Energy Management (MBA), Building Efficiency (MBA) or Sustainable Mobility Management (MBA) at TU Berlin (2nd semester) If there is a high demand for places, students in the continuing education master's program in Building Efficiency (MBA) will have priority.

## 6. Module can be taken in following programs

Continuing education master's in Building Efficiency (MBA) at TU Berlin

7. Workload and credits		
Seminar-style lectures (in person)		44 h
Case Studies (in person)		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h
This amounts to a workload of <b>180 hours</b> per semester, v	which is equivalent to <b>6</b>	credits.
8. Completion of the module		
Type of assessment: Portfolio If a student fails, the examination will be repeated at the graded examination (120 minutes).	beginning of the follow	-
Task		Points
(Learning process evaluation) Project - Contribution to the discussion		25
(Output evaluation) Oral presentation		50
(Output evaluation) Presentation materials / written composition (term paper)		25
9. Module duration		
This module takes place during the third semester.		
10. Number of participants		
Maximum number of participants: 25.		
11. Registration formalities		
Students can register for the e-learning course and the ex	xamination 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 progr The reading list is provided in the e-learning course on M		u-berlin.de/2.0/

Module title: Integration of Renewable Energies	<b>Credit Points (ECTS)</b> : 6		Short title: IRE (BuSu) E-BuSu 3			
Module supervisor: DiplIng. Martin Schnauss	Office: Laura Lehmann		Email: laura.lehmann.1@campus.tu-berlin.de			
	Module desc	ription				
1. Module aims						
This module revisits and broadens studen today's changing world, preparing the fo knowledge independently to selected cas	undation for the co		-	•		
2. Content						
Students will gain a basic understanding building environment. In this context, stu energy supply systems for buildings and interaction with conventional/fossil reso	udents will develop neighborhoods bas	academic re	search skills	in the field of the	e design of	
3. Module components						
Course title	Course type	Course hours per week	ECTS credits	Compulsory (C) / Elective (E) Compulsory elective (CE)	Semester (WS/SS)	
Efficiency management	IV	2.9			) A l'ant a m	
Case studies & accompanying program	IV	1.1	6	CE	Winter semester	
4. Description of course types			1	1		
Integrated courses (IV) in the form of ser	ninar-style lectures	, e-learning	course, and t	utorial		
5. Participation requirements						
Enrolled in one of the following continuir (MBA) or Sustainable Mobility Managem places, students in the continuing educat	ent (MBA) at TU Be	rlin (2nd ser	nester) If the	ere is a high dem	and for	
6. Module can be taken in following pro	grams					

Continuing education master's in Building Efficiency (MBA) at TU Berlin

7. Workload and credits		
Seminar-style lectures (in person)		44 h
Case Studies (in person)		16 h
Preparation and follow-up incl. e-learning		90 h
Examination and exam preparation		30 h
This amounts to a workload of <b>180 hours</b> per semester, v	which is equivalent to <b>6</b>	credits.
8. Completion of the module		
Type of assessment: Portfolio If a student fails, the examination will be repeated at the graded examination (120 minutes).	beginning of the follow	-
Task		Points
(Learning process evaluation) Project - Contribution to the discussion		25
(Output evaluation) Oral presentation		50
(Output evaluation) Presentation materials / written composition (term paper)		25
9. Module duration		
This module takes place during the third semester.		
10. Number of participants		
Maximum number of participants: 25		
11. Registration formalities		
Students can register for the e-learning course and the ex	xamination 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 progr The reading list is provided in the e-learning course on M	-	u-berlin.de/2.0/

Application and Admission Regulations for the International Continuing Education Master's Program in Sustainable Mobility Management (MBA) at TU-Campus EUREF of Technische Universität Berlin

#### of 23 October 2018

On 23 October 2018, the Joint Decision-Making Committee of TU-Campus EUREF of Technische Universität Berlin adopted the following Application and Admission Regulations for the continuing education master's program in Energy Management (MBA) in accordance with Section 43 (3) no. 3 of the Constitution of Technische Universität Berlin and Section 10 (5) of the Berlin State Higher Education Act (Berliner Hochschulgesetz – BerlHG) in the version of 26 July 2011 (Berlin Gazette of Laws and Ordinances [GVBl.], p. 378), last amended by Article 6 of the same Act of 2 February 2018 (Berlin Gazette of Laws and Ordinances, p. 160), in conjunction with Section 10 of the Act on the Admission to Higher Education Institutions in the State of Berlin to Degree Programs with Restricted Admission (Berliner Hochschulzulassungsgesetz - BerlHZG) in the version of 18 June 2005 (Berlin Gazette of Laws and Ordinances, p. 393), last amended by Article I of the same Act of 26 June 2013 (Berlin Gazette of Laws and Ordinances, p. 198.)\*

#### **Overview of Content**

#### I. General regulations

Section 1 – Scope of application Section 2 – Entry into force/expiration

#### II. Application

Section 3 – Application requirements Section 4 – Procedure

#### III. Admission

Section 5 – Restriction of the number of eligible candidates Section 6 – Ranking criteria Section 7 – Procedure Section 8 – Capacity and application deadline

#### I. General regulations

#### Section 1 - Scope of application

These Application and Admission Regulations – in conjunction with the Regulations Governing General Study and Examination Procedures (*AllgStuPO*) and the Statutes of Technische Universität Berlin Governing University Selection Procedures (*AuswahlSa*), as amended from time to time – govern the application, admission and selection modalities for the consecutive master's program in Sustainable Mobility Management (MBA). The provisions of the AllgStuPO and AuswahlSa shall take precedence over the provisions of these Application and Admission Regulation, unless exceptions are expressly permitted therein.

## Section 2 – Entry into force/expiration

(1) These application and admission regulations shall enter into force on the day after their publication official in the Official Gazette of Technische Universität Berlin. They shall be applied for the first time to the procedures of the 2019/2020 winter semester.

(2) The Application and Admission Regulations of October 31, 2016 (TU Official Gazette 6/2017, p.120) will no longer apply once the present regulations take effect.

#### II. Application

#### Section 3 – Application requirements

The entry requirements are

1. a bachelor's or equivalent university degree and

2. suitable practical professional experience of generally no less than one year following the degree

#### Section 4 – Procedure

The fulfillment of the admission requirements must be proven during the enrollment procedure in accordance with Sections 16ff. of the Regulations Governing General Study and Examination Procedures (AllgStuPO), in cases outlined in Section 15 of the AllgStuPO as part of the application for admission. Supporting documents must be submitted in the original or in an officially certified form.

#### III. Admission

#### Section 5 – Restriction of the number of eligible candidates

The number of eligible candidates for the selection process can be restricted. It must be at least double the designated number of admissions. The selection criterion for participation in the selection process is the applicants' qualification level. The selection committee decides on any restriction, the number of eligible candidates, and their selection at the beginning of the selection process.

#### Section 6 – Ranking criteria

(1) A ranking of applicants shall be prepared according to the following selection criteria:

- 1. overall grade in the study program in accordance with Section 3 no.1
- 2. Test result of the Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) or assessment according to Section 6 (3), sentence 7f
- 3. Subject-specific eligibility of the previous degree
- 4. For each practical professional experience (for which evidence has been provided) lasting at least six months and following on from a bachelor's or equivalent university degree
- 5. Level of English language proficiency for which evidence has been provided
- 6. Motivation and reasons for applying for the master's program and overall impression of the application documents submitted

<sup>\*</sup> approved by the Executive Board of TU Berlin on February 10, 2019 and by the Senate Administration for Education, Youth and Science on April 4, 2019

Grade	Points	Grade	Points
1.0	100	2.6	52
1.1	97	2.7	49
1.2	94	2.8	46
1.3	91	2.9	43
1.4	88	3.0	40
1.5	85	3.1	37
1.6	82	3.2	34
1.7	79	3.3	31
1.8	76	3.4	28
1.9	73	3.5	25
2.0	70	3.6	22
2.1	67	3.7	19
2.2	64	3.8	16
2.3	61	3.9	13
2.4	58	4.0	10
2.5	55		

(2) For the criterion according to Subsection 1, no. 1, up to 100 points shall be awarded according to the following table:

If it is not possible to determine equivalent grades for foreign university qualifications even after consulting the decisions on grade equivalence of the Central Office for Foreign Education at the Standing Conference of the Ministers of Education and Cultural Affairs, points will be awarded according to the following table:

Grade	Points
1.0 to under 1.6	100
1.6 to under 2.6	70
2.6 to under 3.6	40
3.6 to under 4.0	10

(3) For the criterion outlined in Subsection 1, no. 2, up to 100 points will also be awarded in accordance with the regulation in section 6 (2).

The GMAT Total Score (GMATS) is converted into a grade according to the following formula:

Grade = (4-3\*(GMATS-400)/400)

For the calculated grade (rounded to the nearest tenth) points are awarded according to the table in Subsection 2. If the GMAT Total Score is below 400, the sub-grade is 4.0.

If a GRE test result is given, it will be converted into a GMAT Total Score. The conversion is carried out using the official conversion tool, the GRE® Comparison Tool for Business Schools.

If no test result is submitted, the selection committee will award a grade based on the scope and quality of previous academic achievements in the methodological subjects for which evidence is provided (mathematics, statistics, econometrics, microeconomics). This is based on the ECTS-weighted average grade of the methodological subjects.

(4) For the criterion outlined in Subsection 1, no. 3, points shall be awarded in accordance with the following arrangement:

 up to 200 points for degree programs in engineering and industrial engineering (specializations: traffic/transportation/mobility) as well as nonengineering subjects in transport and mobility studies,

- up to 150 points for degree programs in economics or business studies, industrial engineering (specializations other than those mentioned under 1) and urban and spatial studies and sustainability studies,
- up to 100 points for degree programs in other fields with at least 25% of the curriculum comprising modules related to economics, engineering, law or environmental studies,
- 4. up to 50 points for all other degree programs

(5) For the criterion outlined in Subsection 1, no. 4, points shall be awarded in accordance with the following arrangement:

- 1. for each qualified professional activity in the fields of mobility or project planning (technical, management, urban planning): 40 points (for every 6 months)
- for each qualified professional activity in the fields of mobility or project management: 40 points (for every 6 months)
- 3. for each qualified professional activity in the mobility sector: 30 points (for every 6 months)
- for each qualified professional activity in the fields of sustainability and environmental management: 30 points (for every 6 months)
- 5. 0 points for all other professional experience.

(6) For the criterion outlined in Subsection 1, no. 5, points shall be awarded in accordance with the following arrangement:

Level according to the Common European Framework of Reference for Languages	Points
C2 and higher	80
C1	60
B2	40
B1	10
A2 or lower	0

(7) For the criterion outlined in Subsection 1, no. 6, up to 100 points shall be awarded. The following aspects will be taken into account when awarding these points:

- 1. Motivation or reasons for the application to the program in the form of a max. two-page letter of motivation. Up to 50 points can be awarded for this.
- 2. Information on the focus of previous studies, the professional experience already gained and the academic and/or professional plans for the future. Up to 30 points can be awarded for this.
- 3. Overall impression of the application documents submitted, in particular with regard to the information provided in the curriculum vitae and other documents (letters of recommendation, etc.). Up to 20 points can be awarded for this.

#### Section 7 – Procedure

(1) Proof of fulfillment of the selection criteria must be provided when submitting the application for admission. To this purpose, applicants must include the following documents:

- 1. The documents requested in the application form.
- 2. Evidence that the admission requirements in accordance with Section 3 are met.
- 3. Evidence of the areas of focus of the course of studies (where these are not stated in the certificate), generally in the form of a diploma supplement, transcript or module description.

4. Relevant evidence of the selection criteria outlined in Section 6 (in particular the letter of motivation, CV, level of English).

(2) For each selection criterion, the selection committee shall award points in accordance with Section 6 (2) to (7).

(3) The selection committee shall rank the applicants in order of preference. The list documents the following for each participant in the selection process:

- 1. Number of points achieved for each criterion.
- 2. Total number of points.
- 3. Decision on selection (admission or rejection)

(4) Selected applicants receive prompt notification along with a deadline for providing written acceptance of the place in the program and for enrollment. If the applicant does not accept the place within the deadline, it is offered to the next candidate on the list.

(5) Applicants who are not admitted to the program receive notification of rejection, with reasons.

#### Section 8 - Capacity and application deadline

(1) The number of program places available is limited to 30 per year unless Technische Universität Berlin publishes other decisions on capacity in the Official Gazette of Technische Universität Berlin.

(2) The application deadline is April 30 of each year, unless Technische Universität Berlin publishes other deadlines in the Official Bulletin of Technische Universität Berlin.