

**Special Study and Examination Regulations for Masters in Resource Efficiency in Architecture and Planning (Master of Science) at the HafenCity University Hamburg (HCU)**

On 21<sup>st</sup> July 2009, the executive committee at HafenCity University approved the Special Study and Examination Regulations for "Resource Efficiency in Architecture and Planning (REAP) (Master of Science)" (BSPO-MSc-REAP-09) decided on 8<sup>th</sup> July 2009 by the senate according to § 85(1)(1) HmbHG at HafenCity University Hamburg in the following version according to § 108 paragraph 1 sentence 3 of the Hamburg law on further education (HmbHG) from 18<sup>th</sup> July 2001 (HmbGVBl. S. 171), last changed by a regulation from 26th May 2009 (HmbGVBl. S. 160).

**Contents**

- § 1 General regulations
- § 2 Study aims
- § 3 Academic degree
- § 4 Teaching and examination language
- § 5 Type and scope of the course of study
- § 6 Entry requirements
- § 7 Class forms and exam performances
- § 8 Type and scope of examination for masters
- § 9 Thesis
- § 10 Coming into force and interim settlements

**Attachments:**

**Attachments 1:** Module plan / module structure

**Attachments 2:** Curriculum / transcript

## **§ 1 General regulations**

This study and examination regulation governs the study of the Masters programme in "Resource Efficiency in Architecture and Planning (REAP)". All regulations of the "General Examination and Study Regulation for Bachelor and Masters Examinations of the HafenCity University Hamburg (ASPO)" apply.

## **§ 2 Study aims**

(1) The course focuses on specialisation in the area of Resource Efficiency in Architecture and Planning (REAP) (Master of Science) and is an excellent basis for qualified engineering work in the area of sustainable planning and construction. The programme is devoted not only to technical questions with regard to the problem area, but also considers the respective cultural, social and creative as well as economic questions. In addition to the traditional technical solutions taught, the course prepares the students for practice-orientated everyday work in a wide variety of specialist areas.

(2) In the Master programme for Resource Efficiency in Architecture and Planning (REAP) (Master of Science) the students will be introduced gradually to increasingly complex problems, in order to learn how to solve these using scientific methods. The aim is to develop methodical and analytical competencies which are necessary for independent integration of scientific methods in different specialist areas.

## **§ 3 Academic degree**

HafenCity University awards the academic degree "Master of Science" ("M.Sc." abbreviated) upon successfully passing the two year program.

## **§ 4 Teaching and examination language**

Classes are taught in English. Examinations are taken in English.

## **§ 5 Type and scope of the course of study**

(1) The Masters course has collective Credit Points (CP) which includes the seminar for the Masters thesis at 20 CP.

(2) The course is made up in modules. It includes compulsory modules, core-elective modules and elective modules, the modules of the Studium Fundamentale and the Masters thesis.

(3) The scope of studying and examination (module plan) including the allocation of CPs is listed in Attachments 1 and 2 to the BSPO-MSc-REAP-09.

(4) In terms of choice, the students will be given the possibility to choose modules from other Masters courses at HCU. Interdisciplinary modules are to be chosen from the compulsory, core-elective or elective modules and are to be successfully completed with the relevant examination and study certificates.

(5) The modules for the Studium Fundamentale are to be chosen from HCU's module prospectus for the Studium Fundamentale at Masters level and are to be successfully completed with the relevant examination and study certificates.

(6) In addition to the compulsory modules, the REAP Masters course includes 4 core-elective modules which can be chosen from two areas, two Studium Fundamentale modules and one elective module which can be chosen freely.

### **§ 6 Entry requirements**

The entry requirements for the course are regulated by the valid General Admission Regulations (AZO) and the Special Admission Regulations for Masters in Resource Efficiency in Architecture and Planning (REAP BZO).

### **§ 7 Class forms and exam performances**

(1) Class forms are regulated by the General Study and Examination Regulation (ASPO) of the HCU.

(2) The fixed class forms and exams for the individual modules are to be taken from the overview of the exam and study performances (Attachment 2). They will be handed out by teaching staff at the beginning of classes.

(3) For tutorials, practical courses, seminars and projects it is compulsory to attend at least 80 % of the set number of courses. If the compulsory attendance is not fulfilled, the related performance and study certificates for the class will not be distributed.

### **§ 8 Type and scope of examination for masters**

(1) The Masters examination is a course-related exam and covers the modules from the first and second years of study and a Masters thesis.

(2) The Masters examination covers the successful completion of all modules in the programme.

(3) The evaluation and scope of the examination performances is set out in Attachment 2 to the BSPO-MA-REAP-09.

### **§ 9 Masters thesis**

- (1) The thesis is an assessed assignment.
- (2) The submission of the thesis requires approval. This will be given if the regulations of the ASPO of the HCU are fulfilled.
- (3) Students have to apply for approval for the Masters thesis through the registrar's office.
- (4) The time required for the thesis is 15 weeks. The thesis will be drawn up in the fourth semester and must be submitted one month before the end of the current semester.
- (5) The student develops a proposal for the subject of his or her thesis in collaboration with the teaching staff. Before the start of the semester in which the thesis should be completed, the student will submit the subject proposal to the dean, and at the same time will suggest an examiner. The subject of the work and the proposed examiner must be approved by the dean.
- (6) A subject must be found so that it can be worked out within the scheduled deadline. During the writing-up period, there can be accompanying seminars with compulsory attendance in which the students can show their progress and discuss their results so far with their advisor.
- (7) The Masters thesis can be a theoretical, planning, empirical and/or experimental work. It has to be handed in as a written report or for planning or experimental work together with an written explanatory report. In the thesis the students should show that they are able to work on a problem concerning the scientific and practice-orientated fields of work in the course and also to put it in interdisciplinary contexts.
- (8) Final grades are based on the marks for the masters thesis from both examiners and from the marks given for the presentation and examination.

### **§ 10 Coming into force and interim settlements**

- (1) REAP-BSPO from 11th February 2009 is repealed.
- (2) This regulation comes into force one day after it is published in the official advertiser. It is valid from the winter semester 2009/2010.

Hamburg, 21st July 2009  
HafenCity University Hamburg

**REAP - Module Structure  
MASTER (M.Sc.)**

Subject Area	Semester 1	CP	Semester 2	CP	Semester 3	CP	Semester 4	CP	
1 Fundamentals and Methods Σ 35 CP	REAP_M0101 Fundamentals of Sustainability	5	REAP_M0201 Urban Material Cycles	5					
	REAP_M0102 Research Methods and Statistics	5	REAP_M0202 Fundamentals of Acoustics and Urban Noise	5					
	REAP_M0103 Legal and Economic Instruments	5	REAP_M0203 Urban Energy Flows	5					
			REAP_M0204 Urban Water Cycles	5					
2 Resources, Technologies and Environment (students have to select two modules from this block) Σ 10 CP					REAP_M0301 Climate Responsive Architecture and Planning	5			
					REAP_M0302 Technologies for Sustainable Water Resource Management	5			
					REAP_M0303 Noise Emission Prognosis and Control Measures	5			
					REAP_M0304 Technologies for Sustainable Material Cycles	5			
3 Resources, Institutions and Instruments (students have to select two modules from this block) Σ 10 CP					REAP_M0305 Economics and Planning of Technical Urban Infrastructure Systems	5			
					REAP_M0306 Decision Support and Project Evaluation	5			
					REAP_M0307 Material Flow Analysis and Life Cycle Assessment	5			
					REAP_M0308 International Development: Institutions and Policies	5			
4 Projects / Thesis Σ 50 CP	REAP_M0104 Project I	10	REAP_M0205 Project II	10	REAP_M0309 Project III	10	REAP_M0401 Master Thesis	20	
5 Studium Fundamentale* Σ 10 CP	REAP_MSF01 Studium Fundamentale I	5					REAP_MSF02 Studium Fundamentale II	5	
6 General Elective ** Σ 5 CP							REAP_M0402 General Elective	5	
<b>Credit Points (CP) Total</b>		<b>30</b>		<b>30</b>		<b>30</b>		<b>30</b>	<b>120</b>

\* Student's selection from Studium Fundamentale list

\*\* Student's selection from offered courses of study at HCU

**BSPO-REAP-MSc-09, Attachment 2, Study and examination performances for course REAP (Master of Science - M.Sc.)**  
Date 1/7/09

Department	Module No. REAP_M	Module	CP Module	CP LV	Mark distribution As part of overall grade (rounded up)	Semest er	LV Class type	PL Form of examination for class
B	C	D	E	F	G	H	L	N

Fundamentals and Methods	0101	Fundamentals of Sustainability	5	5	4.17%	1	VL	S
	0102	Research Methods and Statistics	5	5	4.17%	1	VL / UE	S
	0103	Legal and Economic Instruments	5	5	4.17%	1	VL	S
	0201	Urban Material Cycles	5	5	4.17%	2	VL / UE	R / S
	0202	Fundamentals of Acoustics and Urban Noise	5	5	4.17%	2	VL / UE	K / S
	0203	Urban Energy Flows	5	5	4.17%	2	VL / UE	R / S
	0204	Urban Water Cycles	5	5	4.17%	2	VL / SE	R / S

Resources, Technologies and Environment (Students have to select 2 modules from this block)	0301	Climate Responsive Architecture and Planning	5	5	4.17%	3	VL / SE	R / S
	0302	Technologies for Sustainable Water Resource Management	5	5	4.17%	3	VL / SE	R / S
	0303	Noise Emission Prognosis and Control Measures	5	5	4.17%	3	VL / SE	R / S
	0304	Technologies for Sustainable Material Cycles	5	5	4.17%	3	VL / SE	R / S

Resources, Institutions and Instruments (Students have to select 2 modules from this block)	0305	Economics and Planning of Technical Urban Infrastructure Systems	5	5	4.17%	3	SE	S
	0306	Decision Support and Project Evaluation	5	5	4.17%	3	SE	S
	0307	Material Flow Analysis and Life Cycle Assessment	5	5	4.17%	3	SE	R / S
	0308	International Development: Institutions and Policies	5	5	4.17%	3	SE	R / S

**BSPO-REAP-MSc-09, Attachment 2, Study and examination performances for course REAP (Master of Science - M.Sc.)**

Date 1/7/09

Section of the course	Module No. REAP_M	Module	CP Module	CP Class type	Mark distribution As part of overall grade (rounded up)	Semest er	LV Class type	PL Form of examination for class
B	C	D	E	F	G	I	L	N

Projects/Thesis	0104	Project I	10	10	8.33%	1	P	PR + D
	0205	Project II	10	10	8.33%	2	P	PR + D
	0309	Project III	10	10	8.33%	3	P	PR + D
	0401	Masters Thesis	20	20	16.67%	4		TH

Studium Fundamentale	MSF01	Studium Fundamentale I	5	5	4.17%	1	1)	1)
	MSF02	Studium Fundamentale II	5	5	4.17%	4	1)	1)

General Elective	0402	General Elective	5	5	4.17%	4	1)	1)
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<b>Total CP</b>			<b>120</b>	<b>120</b>	<b>100%</b>			
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1) Class type, number of hours, advance concessions for examinations and examination and study performances depend on the module chosen

**Class type (LV) according to § 5 ASPO**

(see column L) VL = lectures, SE = seminar, UE = tutorials, LP = practical course in lab, P = project, ST = impromptu, PK = practical training, EX = field trip

**Graded general examination performances (PL) according to § 13 ASPO**

(see column N)  
K = written examination  
M = oral examination  
R = report  
H = term paper  
S = semester work (collection)  
PR = presentation  
D = documentation  
KO = oral defense

**General explanations**

SWS = semester periods per week  
LV = type of course  
PL = Form of examination for the class

**Ungraded certificate of study (0) according to § 14 ASPO**

0 = certificate of study

**Thesis (TH) according to § 21 ASPO**

(see column N) TH = Thesis

**CP = Credit Points**

1 CP = 30 working hours per Semester (workload per CP, see module card)

**Recommendations:**

It is recommended to balance the set workload in chronological intervals in agreement with the students by using a questionnaire or something similar. An approximate value of the workload should be given to begin with.