

Degree and examination regulations for the consecutive international master's program in Architecture – Typology at Faculty VI of the Technische Universität Berlin,

October 12, 2016

On October 12, 2016, the Council of Faculty VI of the Technische Universität Berlin resolved the following degree and examination regulations for the consecutive international master's program in Architecture – Typology in accordance with section 18, paragraph 1, item 1 of the University Charter of the Technische *Universität Berlin*, and with section 71, paragraph 1, item 1 of the *Gesetz über die Hochschulen im Land Berlin* (law on higher education institutions in the state of Berlin – BerlHG) in the version of July 26, 2011 (Official Gazette – GVBl., p. 378), last amended on May 5, 2016 (GVBl. p. 226).¹

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I. General regulations

1. Scope of application

These degree and examination regulations set out the aims, structure, and requirements and arrangements of examinations in the consecutive international master's program in Architecture – Typology.

They supplement the *Ordnung zur Regelung des allgemeinen Studien- und Prüfungsverfahrens der Technischen Universität Berlin* (the university's regulations governing general degree and examination procedures – AllgStuPo) with program-specific regulations.

¹ Confirmed by the chair of TU Berlin on January 5, 2017 and by Senate Chancellery – science and research on May 18, 2017.

2. Period of application

These regulations take effect on the day after their publication and apply to students enrolling from the 2017/18 winter semester onwards.

II. Program aims and structure

3. Program aims, content and areas of professional activity

The international English-language master's program in Architecture – Typology at the TU Berlin provides students with the knowledge and skills they need for a career in architecture. The focus of this project-based program is on architectural design. Architectural and urban design tasks confront students with a range of political, cultural, technical, economic, social and environmental changes. The design process involves exploring these multi-faceted and at times contradictory challenges and aims and reaching a holistic architectural solution.

A particular focus of the international master's program in Architecture – Typology is on building typologies. To meet current challenges, we need a variety of typological approaches in building analysis and design: in many regions, urban infill is closely linked to the development of hybrid, multiple-use types. The building stock is constantly being transformed and adapted to new needs by owners and occupants. Evolving lifestyles in an increasingly connected and transcultural society are affecting the way we design and organize buildings. As technical requirements for buildings become more complex, so too does the potential of new planning and construction technologies.

In this context, the program looks at how building typologies are being rethought and new tools developed which allow us to find context-specific solutions to complex challenges. We not only use established typological analysis and design methods but also new, experimental, digital and speculative approaches. In developing typologies, we start at the building scale and work towards the urban scale in one direction, and towards materials, construction and details in the other. In this, creative, social and technological aspects play an important role. By working on concrete design tasks, students devise and develop different typological design approaches and methods at various scales. They acquire a deeper theoretical and historical understanding of typological thought and design in architecture. And they build up an awareness of how typological thinking evolves as the world we live in and the architecture we create are more thoroughly analyzed.

The international master's program in Architecture – Typology builds on the competencies acquired at bachelor's level. Graduates of this consecutive master's degree will have the highly developed design and construction skills and advanced knowledge necessary to work as generalists tasked with developing and coordinating complex planning processes in an interdisciplinary and integrated manner. Specifically, students will be able to:

1. Identify the specific contexts and potentials of future design tasks in all their variety and complexity, and translate these into innovative designs.
2. Understand appropriate typological analysis and design methods at architectural and urban scale and develop and apply these themselves.
3. Develop new types that respond to social and technological changes and contribute to the enhancement of architecture as a cultural discipline.
4. Place current questions about the meaning of typological thought and design in their theoretical and historical context, and evaluate these.
5. Recognize the need and potential for involving and integrating the ideas of other disciplines in the planning process.
6. Identify and integrate complex planning, architectural, technical, social, historical and environmental concerns in particular in relation to sustainability and gender.
7. Produce academically rigorous work on architectural topics in order to be able to conduct more extensive independent research and studies.
8. Engage critically and creatively with social and ethical issues arising from complex situations

encountered by architects.

9. Use up-to-date methods of presentation, facilitation and mediation to present and communicate their work, and take the lead in the management of planning and implementation processes.

4. Program start date, standard duration, and number of credits

- (1) The program starts in the winter semester.
- (2) The standard duration is four semesters including completion of the master's thesis.
- (3) The program comprises 120 credits.
- (4) The teaching curriculum and all examination procedures are structured so that students can complete the program within the regular duration of study.

5. Program structure

- (1) Students are able to structure their studies individually. However, they are required to comply with the provisions of these degree and examination regulations. The recommended module pathway is shown in the sample program schedule in Annex 2. Content-related admission requirements for modules shown in the schedule apply.
- (2) Students earn a total of 120 credits, of which 102 are awarded for taught modules and 18 for the master's thesis.
- (3) Students take compulsory modules worth a total of 66 credits. Compulsory optional modules amounting to 24 credits in total are chosen from a pre-defined catalog. The modules offered can be found in the module list (Annex 1) and the module catalog as stipulated in paragraph 5.
- (4) Students must take optional modules worth a total of 12 credits. These modules give students the opportunity to acquire additional subject-specific, general and professional skills and can be chosen from the entire range of courses offered at the Technische Universität Berlin, at other universities and institutions of higher education considered on a par with universities according to the *Hochschulrahmengesetz* (higher education framework act), or at accredited higher education institutions and universities in other countries. Students are advised to choose general skills courses. The modules that can be chosen include foreign language courses.
- (5) The skills taught in the modules, the requirements for module exams and any admission requirements are updated annually in program-specific module catalogs in accordance with section 33, paragraph 6 of AllgStuPO. They are also published in TU Berlin's Official Gazette at the beginning of the winter semester in October and the summer semester in April.
- (6) Before being offered a place on the program, students must complete one or several internships amounting to at least 640 hours (generally in 16 weeks). Practical experience gained before or during a previous higher education degree can also be used to fulfil this requirement. Equivalent work can also be carried out during the master's program. In this case, students can be awarded 6 credits in the optional modules area as explained in paragraph 4. Students must provide evidence of completion of the internship(s) before registering for the master's thesis. The internships officer is responsible for approving the internships. Certificate(s) of employment from the workplace(s) where the internships were carried out must be submitted to the officer, along with an internship report. Further details are covered in a set of internship guidelines.

III. Requirements and conduct of examinations

6. Aim of the master's examination

The master's examination determines whether a candidate has achieved the qualification aims in accordance with section 3 of these regulations.

7. Master's qualification

Students who have passed the master's examination are awarded the "Master of Science" (M.Sc.) qualification by the Technische Universität Berlin.

8. Contents of the master's examination; calculation of the overall grade

- (1) The master's examination comprises the module examinations listed in the module list (Annex 1) and the master's thesis as explained in section 9.
- (2) The overall grade is determined in accordance with the principles outlined in section 47 of AllgStuPO and on the basis of the module examinations indicated in the module list as being graded and forming part of the overall grade, along with the grade of the master's thesis.

9. Master's thesis

- (1) The Master's thesis is usually completed in the fourth semester. It is worth 18 credits and comprises a written composition or documentation and an oral defense. The composition/documentation take 20 weeks to complete/compile. If there is an important reason which the student cannot be held responsible for, the examination committee grants an extension for the duration of that reason with a maximum of 20 weeks. Will the duration of the reason extend the maximum extension period the student can withdraw from the examination.
- (2) To be admitted to complete a master's thesis, students must submit evidence of having successfully completed module examinations worth at least 80 credits in which all design studios have to be completed, along with evidence of the internship in accordance with section 5, paragraph 6, to the responsible office in the university's central administration. All design studio modules must have been successfully completed.
- (3) The topic of the master's thesis may be turned down once, but only within the first three weeks after it has been issued by the responsible office of the central university administration.
- (4) The procedure for applying for admission to work on master's thesis and the procedure for evaluating master's theses are set down in AllgStuPO as amended.
- (5) The final grade for the master's thesis is given after the oral defense by the student(s) and the discussion with the evaluators about the written composition or documentation. The defense should take place within eight weeks of submission of the composition or documentation. The final grade is composed of the average of the evaluators' grades for the defense and the composition/documentation. The defense and the composition/documentation have equal weighting.
- (6) Persons with experience of professional practice and training can be appointed as examiners of master's theses. This applies in general rather to the appointment of second evaluators. At least one evaluator must be a member of TU Berlin.

10. Types of examination and examination registration

- (1) Types of examination and the procedure for registering for module examinations are set down

in AllgStuPO as amended.

- (2) For compulsory optional and optional modules taken at other faculties or universities, the types of examination set down in the relevant module descriptions apply.

IV. Annexes

Annex 1: Module list

Annex 2: Sample study schedule

Annex 1: Module list²

Module	Credits	Type of examination	Graded	Weighting in overall grade ³
Compulsory Modules				
Typology Design Studio	15	Portfolio Exam	Yes	1
Design Studio 1	15	Portfolio Exam	Yes	1
Design Studio 2	15	Portfolio Exam	Yes	1
Scales & Methodology	6	Portfolio Exam	Yes	1
Model & Type	6	Portfolio Exam	Yes	1
Types & Translation	6	Portfolio Exam	Yes	1
Master's Colloquium	3	Portfolio Exam	No	0
Compulsory Optional Modules				* The lowest graded 15 credits do not count in the overall grade
Architecture and Sign	3	Portfolio Exam	Yes	1
Communication in Architecture	6	Portfolio Exam	Yes	1
Structural Realization in an International Context	9	Portfolio Exam	Yes	1
Bioclimatic Design I	6	Portfolio Exam	Yes	1
Bioclimatic Design I	6	Portfolio Exam	Yes	1
Digital Architectural Production – Seminar (MA)	3	Portfolio Exam	Yes	1
Digital Architectural Production I (MA)	6	Portfolio Exam	Yes	1
Digital Architectural Production II (MA)	6	Portfolio Exam	Yes	1
Design Strategies for Hospitals and Health Care Settings	6	Portfolio Exam	Yes	1
Research on Building Typologies and Methods of Building Analysis	6	Portfolio Exam	Yes	1
Functional Structure Planning for Health Care Facilities	3	Portfolio Exam	Yes	1
Building Concepts	3	Portfolio Exam	Yes	1
Basics of International Urbanism	9	Portfolio Exam	Yes	1
Art in Theory and Practice	6	Portfolio Exam	Yes	1

² The module descriptions are published annually at the beginning of the winter semester in October and the beginning of the summer semester in April in TU Berlin's Official Gazette. These versions apply on publication. (See section 33, paragraph 6 of AllgStuPO).

³ A weighting of 1 means that the grade is weighted according to the number of credits (section 47, paragraph 6 of AllgStuPo); "0" means the grade won't be weighted; all other figures are multiplied by the number of credits.

Trans-scalar analysis methods for metropolitan regions	6	Portfolio Exam	Yes	1
Open Building 2.0 – Flexibility and Industrialization of Building Elements	6	Portfolio Exam	Yes	1
Sociology of Planning and Architecture	3	Oral Exam	Yes	1
Seminar, Planning and Construction Economics / Real Estate Management	3	Portfolio Exam	Yes	1
Seminar: Basics of International Urbanism	6	Portfolio Exam	Yes	1
Seminar: Special Areas of International Urbanism A	3	Portfolio Exam	Yes	1
Seminar: Special Areas of International Urbanism B	6	Portfolio Exam	Yes	1
Special Areas of Architecture and Urban Design	3	Portfolio Exam	Yes	1
Specialisation in urban development and planning	9	Portfolio Exam	Yes	1
Lecture: Basics of International Urbanism	3	Portfolio Exam	Yes	1
Scientific Specialisation	9	Portfolio Exam	Yes	1
Optional Modules	12	See selected modules		0
Total	120			

Annex 2: Sample study schedule

Recommended study abroad (mobility window): 3rd semester