

Study and Examination Regulations for the International Postgraduate Masters Program Global Production Engineering at the Faculty V – Transportation and Machine Systems at the Technische Universität Berlin dated November 18, 2020.

On November 11, 2020, the Faculty Council of Faculty V – Transportation and Machine Systems of the Technische Universität Berlin adopted the following study and examination regulations for the Master's degree program in Global Production Engineering in accordance with § 18 (1) No. 1 of the Basic Regulations of the Technische Universität, § 71 (1) No. 1 of the Law on Higher Education Institutions in the State of Berlin (Berlin Higher Education Act – BerlHG) in the version of July 26, 2011 (GVBl. p. 378), last amended by Article 6 of the Law of February 2, 2018 (GVBl. p. 160)

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I. General Regulations

§ 1 – Scope of Application

These study and examination regulations govern the objectives and the structure of the study program, as well as the requirements and conduct

of the examinations in the Master's degree program Global Production Engineering. They supplement the regulations governing the general study and examination procedure of the Technische Universität Berlin (AllgStuPo) with provisions specific to the study program.

§ 2 – Entry into force

- (1) These regulations come into force on April 1, 2021.
- (2) The study and examination regulations for the Master's program Global Production Engineering of July 16, 2003 (AMBI. TU 12/2003 p. 177ff.) shall cease to be in force when these study and examination regulations come into force.

II. General objectives of study

§ 3 – Qualification goals, contents and professional fields of activity

- (1) Upon completion of the Master's program in Global Production Engineering, the graduate will be familiar with interrelationships, design fields and challenges of global value creation with regard to the factors: product, process, organization, man and machine. The graduate is able to systematically analyze problems from science and practice in fields of production, engineering, management and intercultural communication and to develop (further) sustainable solutions in a structured manner. The program prepares students for qualified work in technology management.
- (2) From the module groups "Production", "Engineering", "Management" and "Intercultural Communication", as well as from selected "Special Profile" modules, the student can combine modules according to his/her professional planning to create an individual profile. Expertise in engineering disciplines such as the development of production processes and tools, modeling and simulation, quality management, sustainable production and economic assessment are promoted as well as the skills for lifelong learning in rapidly changing knowledge domains, for initiative even in uncertain environmental conditions, for decision-making and action under time pressure, for interdisciplinary teamwork, for intercultural understanding and project management.

(3) Graduates are characterized by engineering imagination as well as theoretical and practical problem-solving skills in multinational companies and organizations in the field of technology management and entrepreneurial thinking with a solid scientific foundation, which also qualifies them for doctoral studies at the end of their studies.

§ 4 - Start of Studies, Standard Period of Study and Scope of Studies

- (4) The study program begins in the winter semester.
- (5) The standard period of study, including the preparation of the master's thesis, is 4 semesters.
- (6) The scope of study of the Master's program is 120 credit points.
- (7) The educational program as well as the entire examination procedure are designed and organized in such a way that the studies can be completed within the standard period of study.
- (8) The language of instruction is English.

§ 5 – Program structure

- (1) Students have the right to organize their course of study individually. However, they are obliged to comply with the specifications of these study and examination regulations. The sequence of modules is recommended by the exemplary study plan as Annex 2 of these regulations. This does not affect constraints resulting from the definition of subject-specific admission requirements for modules.
- (2) A total of 120 credit points must be earned, of which 90 LP in modules, 12 LP in the internship and 18 LP in the Master's thesis.
- (3) The compulsory area has a scope of 90 LP and is divided into the following sections:

A) „Production“ 12 LP	min.
B) „Engineering“ 12 LP	min.
C) „Management“ 12 LP	min.
D) „Intercultural Competence“ 12 LP	min.
E) „Special Profile“	min. 6 LP

The modules assigned to each section can be found in the module list (Appendix 1).

(4) Module-related competencies to be taught, requirements for module examinations as well as any admission requirements shall be updated semester by semester in the form of course-specific module catalogs in accordance with § 33 para. 4 AllgStuPo and shall be publicly announced at the beginning of the winter semester and at the beginning of the summer semester.

5) A specialized internship of 12 LP must be completed. Further details are regulated by the internship guideline.

III. Requirement and Conduct of Examinations

§ 6 – Purpose of the Masters examination

The Masters examination determines whether a candidate has achieved the qualification goals according to § 3 of these regulations.

§ 7 – Master's degree

Based on the successful completion of the Master's examination, the Technische Universität Berlin, through Faculty V – Transportation and Machine Systems, awards the academic degree Master of Science (M. Sc.) in Global Production Engineering.

§ 8 – Scope of Masters examination, Composition of Final Grade

- (1) The Master's examination consists of the module examinations listed in the module list (Annex 1), the specialized internship and the Master's thesis according to § 9.
- (2) The overall grade is formed according to the principles in § 47 para. 6 AllgStuPo from the module examinations marked as graded in the module list with the corresponding weighting. Complete modules up to the extent of 18 credit points from the areas of Production, Engineering, Management, Intercultural Communication and Special Profile as well as the ungraded specialized internship to the extent of 12 credit points are not included in the calculation of the overall grade. Modules with the lowest grade are selected for this purpose. If modules are of equal rank, the modules taken last are not considered in the calculation of the overall grade. Modules that are ungraded will be given priority in the credit points not to be considered. Grades not

included in the calculation of the final grade will be marked on the final transcript. The grades of all modules will be listed on the final transcript.

IV. Annexes

Appendix 1: Module list

Appendix 2: Exemplary study plan

§ 9 – Master’s thesis

- (1) The Master’s thesis is usually written in the fourth semester. It has a scope of 18 LP, the processing time is 16 weeks. If there is an important reason for which the student is not responsible, the examination board will grant an extension for the duration of the reason. The total possible extension is a maximum of eight weeks. If the total number of extensions exceeds the maximum extension, the student may withdraw from the examination.
- (2) For the application for admission to the Master’s thesis, proof of successfully completed module examinations amounting to 90 LP as well as proof of recognition of the specialized internship must be submitted to the responsible office of the Central University Administration.
- (3) The topic of the Master’s thesis may be returned once, but only within the first six weeks after it has been handed out by the responsible office of the Central University Administration.
The procedures for the application for admission to, as well as for the evaluation of these are regulated in the currently valid version of the AllgStuPo.
- (4) People experienced in professional practice and education may be appointed as examiners for final thesis. As a rule, this applies primarily to the appointment of second examiners. People experienced in professional practice must have at least the degree sought with the program or an equivalent degree.

§ 10 - Forms of Examination and Registration for Examinations

Forms of examination, as well as the procedure for registering for module examinations are regulated in the currently valid version of the AllgStuPo.

§ 11 – Certificates, diploma

The documents designated according to § 53 AllgStuPo, such as certificates, transcripts and diplomas, shall be issued in English.