

Study regulations for the postgraduate course in Global Production Engineering at the Faculty of Transport and Machine Systems (Faculty V) of the Technische Universität Berlin

16 July 2003

The Faculty Council of the Faculty of Transport und Machine Systems (FAK V) passed the following study regulations in accordance with Sections 26 and 71.1 No. 1 of the Higher Education Act of Land Berlin (*Berliner Hochschulgesetz – BerIHG*) in the version of 13 February 2003 (GVBl. p. 82), last amended by Article II of the act dated 27.5.2003 (GVBl. p. 185):

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Annex 1: Course schedule

Annex 2: Module catalogue

Other relevant documents:

Examination regulations, Global Production Engineering (PO GPE)

Admission regulations, Global Production Engineering (ZO GPE)

Fee Regulations for Global Production Engineering (GO GPE)

Section 1 Scope and field of application

These study regulations establish the objectives, contents, and structure of the post-graduate course in Global Production Engineering at the Technische Universität Berlin.

Section 2 Course outcome

Based on the qualifications required for admission to the course in accordance with Section 3 of the admission regulations (ZO), the course qualifies students for careers in technology management. Production-technical expertise is essential for many international companies. The ability to make decisions on technological questions, resource management on the basis of criteria of effectiveness and efficiency, and also intercultural skills are characteristic for managerial personnel. The students acquire:

- Technical and economic system expertise,
- Methodological skills in processes relating to engineering and economics,
- Social skills in communication and cooperation,
- General expertise in production engineering, with specialisation in selected cases.

The student may combine modules from the sections "Production", "Engineering", "Management" and "Intercultural Communication", as well as from selected special profile courses to provide their own individual profile in accordance with their career planning. Specialist knowledge is promoted in the engineering disciplines: Development of production processes and tools, Modelling and simulation, Quality control and

economic assessments, in addition also abilities relating to: lifelong learning in rapidly changing scientific domains, taking initiatives even under uncertain conditions; to take decision and act under time pressure; to work together in interdisciplinary teams; as well as promoting intercultural understanding and project leadership.

The graduates have acquired the ability to take an engineering perspective, as well the ability to solve theoretical and practical problems within an international network in the field of innovative technology management. They are therefore prepared for a technical career in multinational corporations and organisations.

Section 3 Modules and module catalogue

(1) The course is subdivided into modules in accordance with the European Credit Transfer System (ECTS), and these are rated in terms of credit points ('LP') and credit hours ('SWS'). A credit hour is one class (generally 45 minutes) each week throughout the semester. A credit point represents an average studying time of approx. 30 working hours spread over the semester for the participation in a credit course, working through the contents, preparing written tutorial work, and revising for the examination.

(2) A module can consist of one or more classes and will as a rule bring together various forms of teaching.

(3) For each module a description will be provided containing the following details:

1. Contents and qualification goal
2. Forms of teaching
3. Requirements for participation
4. Applicability of module
5. Basis on which credits points will be awarded
6. Credit points and grades
7. Frequency that the course will be on offer
8. Work involved
9. Duration of the module.

The module descriptions are collected in the module catalogue for the course in accordance with Annex 2 of the study regulations. The descriptions of the module which have been successfully completed are handed out to the student as an annex to the final certificate (Diploma Supplement) together with this, or on leaving the university.

(4) The Faculty Council may, on the recommendation of the examination committee, replace individual elements of a module, provided that this does not affect the extent and the goals of the module, or may include modules in the module catalogue which are particularly suitable to contribute towards achieving the skills profile in accordance with Section 2.

Section 4 Structure of the course

(1) The course stretches over four semesters. The teaching is arranged so that a student can begin studies in the Winter Semester and finish in the fourth semester by submitting a master's thesis.

(2) The structure of the course of studies, the arrangement of the classes and the time taken can be seen from the example of the schedule provided in Annex 1.

(3) The student shall complete modules in the following groups as specified. In all, it is necessary to obtain 90 credit points (LPs).

Generally, Group E modules are rated with 6 points, the modules in the other groups with 12 points.

A Production	at least 12 LP
B Engineering	at least 12 LP
C Management	at least 12 LP
D Intercultural Communication	at least 12 LP
E Special Profile	at least 6 LP

A further 36 points must be obtained from any modules in the module catalogue.

(4) Additionally, the following modules are to be completed:

Internship	12 LP
Thesis	18 LP

(5) During the course, an internship of at least 9 weeks shall be completed in a country which is not the country of origin of the student, and which as far as possible should belong to a different culture.

(6) The internship must have been completed before registration to the final master's examination. If a well-founded application is made to them, the examination committee can allow an exception; in this case the degree certificate will be awarded only after completion of the internship.

(7) The examination committee is responsible for the recognition of the internship, and the committee shall be presented with a work certificate from the company in question.

(8) The course of studies shall be concluded with a master's examination, for students without a first degree the studies will be concluded with a certificate. Details will be regulated by the examination committee.

Section 5 Recognition of other credits

(1) Applications may be submitted for the recognition of courses attended and examination passed in other countries or other German institutions of higher education. Details will be determined by the examination committee (c.f. Section 6 OTU).

(2) If plausible evidence is provided – where necessary in the form of a doctor's note – that due to lengthy or permanent hindrance or impairment the student is not in the position to obtain a course credit in the form envisaged, then the examination committee must allow the student to obtain an equivalent credit in another form.

Section 6 Forms of teaching

The objectives of the course can be realised through the following forms of teaching:

Lecture (VL):

In lectures, the matter specified in the curriculum will be presented by the university teacher in the form of regular lectures.

Tutorial (UE):

Tutorials serve to follow-up and extend the contents taught in the lectures and to promote the ability to work independently in a scientific, practically-oriented fashion.

Project (PJ):

Projects involve carrying out a planning and realisation phase in a cooperative form of work.

Integrated teaching (IV):

In integrated teaching the various forms of teaching are combined without any fixed sequence.

Seminar (SE):

Seminars involve the independent, in depth scientific study of topics and problems.

When putting together class groups, efforts are made to ensure that students from differing cultural backgrounds are included.

Section 7 Student counselling

(1) For general and psychological counselling, students should consult the General Student Counselling Office (*Allgemeine Studienberatung*) of the Technische Universität.

(2) Special counselling about the course will be provided by the examination committee, which will nominate a professor to be in charge of the course counselling. The professor will be supported by a coordination office. The remit will include among other things the regular revision of the module catalogue, which in accordance with **Section 7** shall be presented to the examination committee for their approval.

(3) A course guide will be issued.

Section 8 Validity

These study regulations shall come into force on the day after their publication in the Official Gazette of the Technische Universität Berlin.