



Study and Examination Regulations
for the continuing education Master's Degree Programme
Prozessmanagement und Ressourceneffizienz (German and English)
Process Management and Resource Efficiency (English)
at Landshut University of Applied Sciences
dated 28 February 2022, in the version of the consolidated
– non-official – version of the second amendment statute
dated 2 August 2026

Please note that the German version is binding.

Pursuant to Art. 9, sentences 1 and 2, Article 90(1), second sentence, and (2), Article 80(1), Article 84(2) and Article 96(1), first sentence, of the Bavarian Higher Education Innovation Act (BayHIG) of 5 August 2022 (GVBl. p. 414, BayRS 2210-1-3-WK), as last amended by Section 3 of the Act of 2 June 2023 and by Section 2 of the Act of 24 July 2023 (GVBl. p. 455), the Landshut University of Applied Sciences hereby adopts the following Statutes:

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§ 1

Purpose of the Study and Examination Regulations

These Study and Examination Regulations serve to specify and supplement the General Examination Regulations of Landshut University of Applied Sciences (APO) dated 13 June 2023, as amended from time to time.

§ 2

Objectives of the degree programme

- (1) ¹Building on a degree in Business Administration, Engineering, or a comparable domestic or international degree programme, students acquire advanced and expanded academic knowledge, skills, and competencies that qualify them to assume particularly demanding technical and business-related specialist and management responsibilities in a dynamic and complex professional environment. ²These knowledge and competencies enable them to understand and responsibly help shape societal processes triggered by the digitalisation of products and production.
- (2) The programme provides, in balanced measure, advanced subject-specific knowledge in Engineering Sciences and Business Administration, the interdisciplinary integration of these two fields of study, as well as interdisciplinary skills and competencies.

§ 3

Admission requirements

- (1) The admission requirement is a university degree from a German university in an industrial engineering or engineering-related programme, typically comprising 210 ECTS credits, with an overall grade of "satisfactory" or better, or a comparable domestic or international degree.
- (2) ¹Graduates of a degree programme with a focus (at least 50 percent of the study content) in the field of business administration may be admitted upon application to the Examination Board if they can demonstrate at least two years of relevant, qualified professional experience in the field of industrial engineering and/or engineering through a qualified employment reference. ²This includes activities at the interface between technology and business, such as procurement and logistics, sales, production and manufacturing, corporate planning, plant engineering, marketing, personnel management, and quality management.
- (3) An additional admission requirement for the programme is proof of at least one year of relevant, qualified professional experience with an industrial engineering and/or engineering background after completion of the degree; this proof is generally provided by a qualified employment reference.

- (4) ¹If applicants hold a completed university degree in industrial engineering or engineering with fewer than 210 ECTS credits (but at least 180 ECTS credits), an additional requirement for admission, in addition to the first degree, is proof of relevant professional experience with a business and/or engineering background totalling at least six months of continuous work. ²This experience must correspond to the requirements of the practical study semester of a Bachelor's programme in industrial engineering and/or engineering at Landshut University of Applied Sciences. ³This must be demonstrated in addition to the periods of qualified relevant professional experience required under paragraph 3. ⁴The proof is to be submitted in the form of a qualified employment reference. ⁵The Examination Board decides on whether the admission requirements are fulfilled.
- (5) The Examination Board decides on the equivalence and classification of degrees as well as on applications submitted by students within the framework of the statutory provisions.
- (6) ¹Admission to the bilingual degree programme Process Management and Resource Efficiency requires German language proficiency at level C1 of the Common European Framework of Reference for Languages (CEFR) and English language proficiency at level B2 of the CEFR. ²Admission to the fully English-taught degree programme Process Management and Resource Efficiency requires proof of English language proficiency at level C1 of the Common European Framework of Reference for Languages.

§ 4

Structure of the degree programme, standard period of study

- (1) ¹The programme is offered on a part-time basis alongside employment. ²The standard period of study is five semesters. ³A total of 90 ECTS credits (European Credit Transfer and Accumulation System) are awarded upon successful completion of the programme. ⁴One ECTS credit corresponds to a student workload of 25 hours, including both classroom attendance and self-study. ⁵As a rule, studies commence in the winter semester. ⁶If admission to the summer semester is also offered, this will be publicly announced prior to the start of the application process.
- (2) ¹On-campus teaching takes place in block sessions and on Fridays/Saturdays at Landshut University of Applied Sciences; it is supplemented by virtual study modules as well as project work. ²A Master's Thesis must be completed as part of the programme (§ 8).
- (3) If the number of applicants is insufficient, there is no entitlement to the programme being offered.

§ 5

Modular structure

- (1) ¹The programme is structured in modules. ²A module is a combination of teaching units that are thematically and temporally self-contained, internally coherent, and assigned ECTS credits. ³A module may consist of sub-modules.
- (2) All modules are compulsory modules; compulsory modules are modules within a degree programme that are mandatory for all students.
- (3) ¹The compulsory modules, their weekly contact hours per semester and ECTS credits, the types of courses, examinations, admission requirements for examinations, and coursework completed during the semester are specified in the Appendix to these Study and Examination Regulations. ²Further details are governed by the curriculum and examination plan with module catalogue.

§ 6

Curriculum and Examination Plan with Module Catalogue

- (1) ¹The Faculty of Electrical Engineering and Industrial Engineering establishes a curriculum and examination plan with a module catalogue to ensure the provision of teaching and to inform students. ²This document specifies all further details regarding the compulsory modules and the structure of the programme, insofar as these are not already conclusively regulated by these Study and Examination Regulations. ³The curriculum and examination plan with module catalogue does not form part of these Study and Examination Regulations. ⁴It is adopted by the Faculty Council of Electrical Engineering and Industrial Engineering and published publicly within the university. ⁵Any amendments to its regulations must be announced publicly no later than two weeks after the start of lectures in the semester in which they first apply.
- (2) The curriculum and examination plan with module catalogue shall, in particular, include provisions and information on:
 1. the distribution and number of contact hours and ECTS credits per module/sub-module and semester, as well as the module coordinators;
 2. the catalogue of compulsory modules;
 3. the learning content and qualification objectives of the modules/sub-modules;
 4. the applicability of modules/sub-modules in relation to other modules/sub-modules within the degree programme or in other degree programmes;
 5. the type of teaching, teaching and learning methods in the individual modules/sub-modules, insofar as these are not conclusively specified in the Appendix;

6. the language of instruction and examination, insofar as these are not conclusively specified in the Appendix;
 7. detailed provisions on the prerequisites for participation in modules/sub-modules as well as on the requirements for the award of ECTS credits (in particular type, scope, and duration of examinations, insofar as these are not conclusively specified in the Appendix) and on the weighting of grades in the calculation of module grades and the overall examination result;
 8. the frequency with which modules/sub-modules are offered;
 9. the workload and duration of the modules/sub-modules.
- (3) ¹The courses of the degree programme are taught in German or English. ²The relevant language of instruction for each cohort is determined by the Faculty Council. ³As a rule, the Faculty Council decides on the language of instruction for each cohort approximately one year before the start of the programme, but no later than two weeks before the application deadline begins. ⁴The decision must be publicly announced within the university as a rule.
- (4) ¹The language of instruction for individual modules is specified in the curriculum and examination plan with module catalogue. ²As a general rule, examinations are taken in the language of instruction of the respective module. ³In individual cases, deviations may be permitted by the responsible examiner, provided that the intended learning outcome of the examination is maintained.

§ 7

Academic advising and regulations on academic progress

¹Academic advising is appointed by the Faculty Council. ²Its primary responsibility is to support and inform students in all matters relating to study planning and the organization of their studies. ³Academic advising should be consulted in particular at the beginning of the programme and in cases of failed examinations.

§ 8

Master's Thesis

- (1) In the Master's Thesis, students must demonstrate their ability to apply the knowledge acquired during their studies within a specified period of time in an independently prepared academic work based on scientific principles, and to address problems from both business administration and engineering fields.
- (2) ¹The topic of the Master's Thesis is normally issued at the end of the third semester. ²The Master's Thesis must be submitted no later than eight months after the topic has been issued.

- (3) One of the two examiners of the thesis is generally a full-time professor at Landshut University of Applied Sciences whose field of expertise covers the subject matter of the thesis.

§ 9

Examination Board

- (1) ¹An Examination Board consisting of a Chair and two additional members is established, who are appointed by the Faculty Council of the Faculty of Electrical Engineering and Industrial Engineering. ²The Examination Board may also be responsible for additional degree programmes within the faculty.
- (2) Upon application, the Examination Board decides on the recognition and crediting of competencies.

§ 10

Portfolio assessment, evaluation of examination performance, bonus marks and calculation of the overall examination result

- (1) ¹In a portfolio examination, partial assessment components are collected over the course of the semester; these individual components are not relevant for passing or failing. ²At the end of the semester, an overall grade is formed from all components of the portfolio examination. ³The composition of each portfolio examination is specified in the appendix to these Study and Examination Regulations. ⁴If parts of the portfolio examinations are not taken or if components are missing without reasons attributable to the student, these parts are graded with zero points or as “insufficient” in the final grading. ⁵If participation in parts of the portfolio examination is not possible due to reasons not attributable to the student, the already completed components remain valid and the portfolio examination must be completed at the next possible opportunity when the missing components are offered; otherwise, the final grade is calculated in accordance with sentence 4. ⁶Upon application to the Examination Board, a final grading in accordance with sentence 4 may also be applied in cases where components are missing for reasons not attributable to the student.
- (2) ¹For differentiated assessment of examination performances on which final grades are based, as well as the Master's Thesis, grades may be increased or decreased by 0.3; however, the grades 0.7, 4.3, 4.7, and 5.3 are excluded. ²If multiple examination performances are combined into a final grade, the grade is calculated as the weighted arithmetic mean of the individual grades, rounded down to one decimal place, in accordance with the appendix to the Study and Examination Regulations.

- (3) ¹In accordance with § 17 of the General Examination Regulations (APO), the module coordinators may define bonus achievements in all modules listed in the appendix to these Study and Examination Regulations. ²Bonus achievements may include one or more academic papers on a specified topic, one or more presentations on a specified topic, the execution and evaluation of one or more practical laboratory experiments, the development of technical solutions in self-study, and the completion of one or more tasks or tests in electronic form. ³A combination of the above individual components may also be used as bonus achievements. ⁴The module-specific activities eligible for earning a bonus are specified in the current curriculum and examination plan. ⁵A deterioration of the module grade as a result of bonus achievements is excluded. ⁶If the module (partial) examination is failed, any earned bonus expires. ⁷The bonus can only be earned within a single semester and cannot be transferred to subsequent semesters. ⁸In the case of illness certified by a medical certificate or for reasons under the Maternity Protection Act, a rescheduled attempt is only possible if it can take place before the relevant module (partial) examination. ⁹The provisions regarding duration, content, and scope of the respective bonus achievements must be announced no later than two weeks after the start of the semester.
- (4) Examination performances that do not contribute to the final grade are assessed as either “passed” or “failed.”
- (5) The overall examination result is calculated as the weighted arithmetic mean of the graded examination performances, rounded down to one decimal place, in accordance with the appendix to these Study and Examination Regulations.

§ 11

Certificate and academic degree

- (1) ¹Upon successful completion of the Master's examination, a certificate is issued. ²This certificate lists the final grades of all modules that are relevant for passing the programme. ³As an annex to the certificate, a Diploma Supplement is issued in English to explain the degree programme.
- (2) ¹Upon successful completion of the Master's examination, the academic degree “Master of Business Administration and Engineering”, abbreviated as MBA & Eng., is awarded. ²A degree certificate (diploma) is issued confirming the award of the academic degree.

§ 12

Winter Semester

- (1) The winter semester begins on 1 September and ends on 14 February.
- (2) ¹The lecture period begins on the second Monday of September and ends on 23 January. ²If 23 January falls on a Saturday, Sunday, or Monday, the lecture period ends on the preceding Friday.
- (3) ¹The examination period in the winter semester begins on 24 January. ²If this date falls on a Friday, Saturday, or Sunday, the examination period begins on the following Monday. ³The examination period ends on 14 February. ⁴If this date falls on a Saturday, Sunday, or Monday, the examination period ends on the preceding Friday.
- (4) ¹The period from 24 December to 6 January inclusive is lecture-free for Christmas. ²If 24 December falls on a Sunday, Monday, or Tuesday, the lecture-free period begins on the preceding Saturday. ³If 7 January falls on a Friday, Saturday, or Sunday, the lecture period begins on the following Monday.

§ 13

Summer Semester

- (1) The summer semester begins on 15 February and ends on 31 August.
- (2) ¹The lecture period in the summer semester begins on the first Monday in March and ends on 7 July. ²If 7 July falls on a Saturday, Sunday, or Monday, the lecture period ends on the preceding Friday.
- (3) ¹The examination period in the summer semester begins on 8 July. ²If this date falls on a Friday, Saturday, or Sunday, the examination period begins on the following Monday. ³The examination period in the summer semester ends on 24 July. ⁴If 24 July falls on a Saturday, Sunday, or Monday, the examination period ends on the preceding Friday.
- (4) At Easter, there are no lectures from Maundy Thursday until the Tuesday after Easter inclusive; at Pentecost, there are no lectures from the Friday before Pentecost until the Tuesday after Pentecost inclusive.
- (5) The semester break begins on 1 August and ends on 31 August.

§ 14

Entry into force*

- (1) This statute enters into force on 1 September 2022.
- (2) It applies to students who begin their studies in the winter semester 2022/2023 or later.

*This provision concerns the entry into force of the original version of the statute dated 14 July 2020. The date of entry into force of any amendments is determined by the amendment statutes published in the official gazette of Landshut University of Applied Sciences.

First amendment statute:

This amendment statute enters into force on 1 September 2022.

Second amendment statute:

¹This statute enters into force on 1 September 2026. ²It applies to students who begin their studies in the winter semester 2026/2027 or later.

Appendix 1: Process Management and Resource Efficiency (English)

First semester

Module number	Module name	Type of module	Language	Type of course	SWS	ECTS points	Entry requirements for the examination	Examination type	Exam scope	ESdP	Grade weighting (Weighted PortP)
MPB100	Advanced Topics in Project Management	PFM	en	SU, Ü	4	5	15 min. Presentation, Graded with m.E./o.E.	Written Exam	90 min.	1	5/90
MPT120	Energy Efficiency in Industry	PFM	en	SU	3	5		LN	Written Term Paper (approx. 15 Pages)	1	5/90
MPT110	Measurement Technology with Measurement Practical Course	PFM	en	SU, PR	3	5		LN	6 Written Laboratory Reports (approx. 15 Pages each)	1	5/90
MPM100	Lean Factory Design and Lean Production	PFM	en	SU, PR	4	5	30 min. Presentation, Graded with m.E./o.E.	LN	Written Term Paper (approx. 15 Pages)	1	5/90
Total					14	20					20/90

Second semester

Module number	Module name	Type of module	Language	Type of course	SWS	ECTS points	Entry requirements for the examination	Examination type	Exam scope	ESdP	Grade weighting (Weighted PortP)
MPP200	Business Simulation Game	PFM	en	SU	3	5	Compulsory Attendance	LN	6 Assessments	2	5/90
MPM200	Quality with Six Sigma	PFM	en	SU	4	5		Written Exam	90 min.	2	5/90
MPT200	Energy Management, Energy and Environmental Technology	PFM	en	SU	4	5		StA	Written Term Paper (approx. 15 Pages)	2	5/90
MPB200	Innovation Management and Leadership Skills	PFM	en	SU, PR	4	5		StA	Written Term Paper (approx. 30 Pages)	2	5/90
Total					15	20					20/90

Third semester

Module number	Module name	Type of module	Language	Type of course	SWS	ECTS points	Entry requirements for the examination	Examination type	Exam scope	ESdP	Grade weighting (Weighted PortP)
MPB300	Change Management, Value Analysis and Production Controlling	PFM	en	SU, Ü	4	5	Written Term Paper (approx. 10 Pages)	Written Exam	45 min.	3	5/90
MPM300	Lean Administration and Business Process Management	PFM	en	SU	4	5		Written Exam	90 min.	3	5/90
MPT300	Material Flow Management and Waste Management	PFM	en	SU, PR	4	5	Excursion	Written Exam	90 min.	3	5/90
MPM310	Supply Chain Management and International Procurement	PFM	en	SU	4	5		LN/LN	Written Term Paper (approx. 8-10 Pages), 15 min. Presentation	3	5/90

Total	16	20		20/90
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Fourth semester

Module number	Module name	Type of module	Language	Type of course	SWS	ECTS points	Entry requirements for the examination	Examination type	Exam scope	ESdP	Grade weighting (Weighted PortP)
MPA400	Master's Thesis	PFM	en		0	25				4	25/90
Total					0	25					25/90

Fifth semester

Module number	Module name	Type of module	Language	Type of course	SWS	ECTS points	Entry requirements for the examination	Examination type	Exam scope	ESdP	Grade weighting (Weighted PortP)
MPA500	Master's Thesis Seminar	PFM	en	SU	1	5	Compulsory Attendance, Public University Presentation (30 min.)	LN		5	5/90
Total					1	5					5/90

Footnote:

¹The monitoring of attendance is the responsibility of the lecturers and must be documented by them. ²To fulfil the attendance requirement, students may not miss more than 25 percent of the course sessions. ³If students miss more than 25 percent of the course sessions for reasons beyond their control, ECTS credits may be awarded upon written application by the students, subject to an additional requirement that enables the learning outcomes to be achieved by other means. ⁴The examination board decides on the application as well as the type and content of the additional requirement. ⁵Students must provide credible evidence for the reason for their absence; in the case of illness, this must be proven by submitting a medical certificate. ⁶The lecturers are responsible for documenting absences.

Explanation of the abbreviations:

Abs.	Paragraph / Section
APO	General Examination Regulations
Art.	Article
Ausarb	Written Assignment
Ausarb.Stud	Term Paper / Study Paper
Ausarb.Ber	Report
BayHIG	Bavarian Higher Education Innovation Act
de	German
de*	German *or the working language of the internship company
ECTS	European Credit Transfer and Accumulation System
en	English
ESdP	Recommended Semester for the Examination
GER	Common European Framework of Reference for Languages (CEFR)
Koll	Colloquium
m.E.	Passed / Successful
mdIPr	Oral Examination
o.E.	Failed / Unsuccessful
P	Assessment of examination performance with the grade "passed" or "failed"
PFM	Compulsory Module
portP	Portfolio Examination
PR	Practical Training / Internship
prakP PZ	Practical Examination during the Examination Period
prakP.sb	Practical Examination during the Semester
QualV	Regulation on Qualification for University Studies in Bavaria
S	Seminar
SU	Seminar-style Instruction
SWS	Weekly Semester Hours
T	Test
THE	Take-Home Exam
Ü	Exercise / Tutorial
Votr.PZ	Presentation during the Examination Period
Votr.sb	Presentation during the Semester
WPFM	Elective Compulsory Module
ZV	Admission Requirement