

Degree programme and examination regulations for the special development programme Transition Studies Engineering at the Faculty of Engineering, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)

– FPOTSE –

Dated 29 July 2021

Based on Section 13 (1)(2) in conjunction with Section 43 (6)(4), Section 56 (6)(3), Section 58 (1) and Section 61 (2)(1) of Bavarian Higher Education Act (Bayerisches Hochschulgesetz, **BayHSchG**), FAU enacts the following degree programme and examination regulations:

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Section 35 Scope; Objectives

(1) These degree programme and examination regulations govern the objectives, content and examinations in the Transition Studies Engineering programme at the Faculty of Engineering at FAU pursuant to Section 56 (6)(3) **BayHSchG** and supplement the General Examination Regulations for the Bachelor's and Master's Degree Programmes at the Faculty of Engineering at FAU – **ABMPO/TechFak**.

(2) The Transition Studies Engineering programme allows candidates to acquire the skills they were determined to be lacking during the qualification assessment process for Master's degree programmes at the Faculty of Engineering at FAU, and increases their chances of admission to the above-mentioned degree programmes if they apply again.

Section 36 Structure; Standard Duration of Study and Scope; Teaching and Examination Language; Starting Date

(1) ¹During Transition Studies Engineering, students acquire a knowledge of the scientific and methodological skills they are currently lacking but which are required in order to be admitted to a Master's degree programme at the Faculty of Engineering. ²The first semester consists of distance learning (e-learning) courses. ³The second semester consists of face-to-face teaching on campus at FAU. ⁴Towards the end of the first semester, students are required to complete assessments in the form of un-

graded online tests (students can choose between on campus examinations or electronic remote examinations as defined in **EFernPO**) on the fundamentals of the chosen degree programme and in mathematics. ⁵The results of these tests shall be either 'bestanden' (pass) or 'nicht bestanden' (fail).

(2) ¹The standard duration of studies is two semesters. ²Other than in the cases stipulated in Section 7(2) **ABMPO/TechFak**, students cannot re-register for a further semester; the programme may not be repeated. ³The scope of the modules offered as part of Transition Studies Engineering is set out in the **Appendices**. ⁴In order to successfully pass Transition Studies Engineering, students must complete examination achievements in modules worth a total of 60 ECTS credits.

(3) The teaching and examination language is English.

(4) ¹Students can only be accepted onto the Transition Studies Engineering programme in the winter semester. ²After signing the participation contract and paying tuition fees, participants shall receive a letter of admission.

Section 37 Admission Requirements

In order to be admitted to Transition Studies Engineering, candidates must have the following qualifications:

1. A university degree or an equivalent qualification obtained in Germany or another country (Section 43 (6)(1) BayHSchG) in one of the subjects offered at the Faculty of Engineering; Section 63 BayHSchG shall remain unaffected.
2. English language proficiency at level B2 of the Common European Framework of Reference (CEFR) or equivalent.
3. ¹German language proficiency at level A1 CEFR or equivalent. ²If this proof cannot be submitted before starting the programme, candidates can submit it to the admissions committee pursuant to Section 38 before completing the programme in Transition Studies Engineering, but at the latest within one year of starting the programme.
4. ¹At least three months work experience or similar practical experience outside of work in a relevant area of work. ²A relevant area of work for the purposes of sentence 1 is considered to cover in particular activities in research laboratories at universities or other institutions and in industry. ³Work experience may also be gained during the programme and the relevant proof submitted to the admissions committee pursuant to Section 38 before completing the programme in Transition Studies Engineering but at the latest within one year of starting the programme.
5. A further prerequisite candidates must meet before being admitted to Transition Studies Engineering is a letter of admission from the admissions committee of the Master's degree programme at the Faculty of Engineering pursuant to Section 38(2) or a recommendation included in the letter of rejection encouraging the candidate to acquire the skills they are lacking by completing the Transition Studies Engineering programme.

Section 38 Admissions Committee

¹The admissions committee for Transition Studies Engineering is equivalent to the admissions committee for the Master's degree programme at the Faculty of Engineering that the candidate hopes to be accepted onto and is subject to the provisions in the relevant degree programme and examination regulations. ²Candidates who applied unsuccessfully for the relevant Master's degree programme who are expected to be

able to acquire the previously lacking skills required for the Master's degree programme through attending the Transition Studies Engineering programme shall receive from the admissions committee a recommendation or be admitted to the Transition Studies Engineering programme if they meet all other qualification requirements pursuant to Section 37.

Section 39 Participating in Modules in the Second Semester

Students must pass the examinations for the modules in the first semester before they can be permitted to progress to the modules in the second semester.

Section 40 Admission to Examinations

¹By enrolling for Transition Studies Engineering, students are considered to have been admitted to the module examinations in Transition Studies Engineering. ²Students shall be admitted to the module examinations for the second semester once the compulsory modules from the first semester have been completed pursuant to Section 39.

Section 41 Resit Examinations

(1) ¹Any module examination failed during the Transition Studies Engineering programme can be repeated once. ²It may not be repeated a second time.

(2) ¹A module examination taken and passed during the Transition Studies Engineering programme may not be repeated. ²This shall not affect the rest of Section 28 **AB-MPO/TechFak**.

Section 42 Examinations and Types of Examinations

The subject matter, nature and scope of the examinations are detailed in the **Appendices**.

Section 43 Evaluation of Examinations

Notwithstanding the provisions stipulated in Section 18 **ABMPO/TechFak**, the result for examinations (Section 42) shall be either 'bestanden' (pass) or 'nicht bestanden' (fail).

Section 44 Transcript of Records

A transcript of records shall be provided as proof that module examinations have been completed successfully during the Transition Studies Engineering programme.

Section 45 Legal Validity; Transitory Provisions

(1) ¹These degree programme and examination regulations shall come into effect on the day after their publication. ²They shall apply to all participants starting Transition Studies Engineering from winter semester 2021/2022 onwards.

(2) ¹These degree programme and examination regulations shall cease to apply after winter semester 2024/2025. ²The Faculty of Engineering shall evaluate whether or not to continue the Transition Studies Engineering programme in good time before these degree programme and examination regulations cease to apply.

Appendix 1: Basic plan for all subjects

Module name	Teaching unit	SWS (se- mester hours)				Total ECTS credits	Workload in hours		Type and scope of the examination
		L	T	P	S		1st sem.	2nd sem.	
General subject-specific fun- damentals (online)						15	450 hrs		Written or oral ex- amination (90 min)
Subject-specific mathematics specialisation (online)						10	300 hrs		Written or oral ex- amination (90 min)
Intercultural and language skills (online)	Living and studying in Ger- many					5	75 hrs		Report (approx. five pages)
	B2 Online academic English						75 hrs		
In-depth subject-specific con- tent						10		300 hrs	Written or oral ex- amination (90 min)
Scientific practice	seminar				2	5		150 hrs	Seminar achieve- ment pursuant to Section 6 (3) AB- MPO/TechFak
	Project report			2		10		300 hrs	Oral examination (30 min)
Elective engineering module ¹						5		150 hrs	depending on selected module ²
Total				2	2	60		1800 hrs	

¹ Students can choose any elective module from those offered at the Faculty of Engineering. Alternatively, a combination may be chosen of several key qualification modules offered across FAU, each worth fewer ECTS credits.

² The type and scope of the examination depend on the specific manner in which the respective module is taught and are regulated by the applicable **degree programme and examination regulations** and/or the relevant module handbook.

Appendix 2: Specialisation in Computational Engineering

Module name	Teaching unit	SWS (se- mester hours)				Total ECTS credits	Workload in hours		Type and scope of the examination
		L	T	P	S		1st sem.	2nd sem.	
General subject-specific fun- damentals (online)	Basics for computational engineering	4	4			15	450 hrs		Written or oral ex- amination (90 min)
Subject-specific mathematics specialisation (online)	Elementary numerical mathematics	2	2			10	300 hrs		Written or oral ex- amination (90 min)
Intercultural and language skills (online)	Living and studying in Ger- many					5	75 hrs		Report (approx. five pages)
	B2 Online academic English						75 hrs		
In-depth subject-specific con- tent	Scientific computing	2	2			10		300 hrs	Written or oral ex- amination (90 min)
	Basics of scientific computing	1							
Scientific practice	Seminar				2	5		150 hrs	Seminar achieve- ment pursuant to Section 6 (3) AB- MPO/TechFak
	Project report					10		300 hrs	Oral examination (30 min)
Elective engineering module ¹						5		150 hrs	depending on selected module ²
Total		9	8	0	2	60		1800 hrs	

¹ Students can choose any elective module from those offered at the Faculty of Engineering. Alternatively, a combination may be chosen of several key qualification modules offered across FAU, each worth fewer ECTS credits.

² The type and scope of the examination depend on the specific manner in which the respective module is taught and are regulated by the applicable **degree programme and examination regulations** and/or the relevant module handbook.