DEGGENDORF INSTITUTE of TECHNOLOGY

Study and examination regulations for the Bachelor's study programme Industrial Engineering/ Maintenance and Operation at the Technische Hochschule Deggendorf of 01.10.2016

In accordance with Art. 13 Para. 2 Clause 2, 58 Para. 1, 61 Para. 2 Clause 1 of the Bavarian Higher Education Act (BayHSchG) of 23 May 2006 (BayRS 2210-1-1-WFK), amended on multiple occasions (Para. 1 No. 212 V of 22.7.2014, 286), the Technische Hochschule Deggendorf has enacted the following statutes:

Section 1 Study objective

- (1) Study in the Industrial Engineering Bachelor's study programme, majoring in "Maintenance and Operation" (MO), has the objective of teaching a broad interdisciplinary qualification in knowledge-intensive engineering and business administration based on scientific insights and methods and is practically orientated. A further objective of the programme of study is to impart specialist, methodical and social competence which enables students to independently apply scientific insights and procedures and to act responsibly both professionally and socially as an employee and as a contractor. Students also acquire social and international competencies which enable confident acting and competent dealing in the complex and intercultural environment of the economy, especially energy and resource management. Before the backdrop of increasing internationalisation of the economy, international aspects, extension of language competency and a period spent abroad of at least one semester in duration have a high value.
- (2) Students will be enabled to grasp overarching correlations, to react flexibly and to manage people by means of a generalist education, majoring in specialist engineering fields, supplemented with business management content, legal bases and key qualifications in the entrepreneurial field, in addition to the acquisition of generalist knowledge. Graduates will be enabled to grasp the rapid transformation of technical advances, to jointly develop possible technical designs and solutions and to evaluate their technical expediency, to assess technical concepts from a economic perspective and to use these for the company applying business management principles and to recognise the impact of decisions on company operations, employees and the environment and to act responsibly according to these.

- (3) The study programme is a qualification for generalist activities in the following work sectors:
 - Business sector and product planning, Business Development
 - Project planning of facilities, project management and project controlling
 - Innovative and technological management
 - Technical planning and controlling
 - Technical procurement, organisation and logistics
 - Industrial goods marketing
 - Commercial engineering
 - Service and maintenance engineering
 - Maintenance management
 - Controlling for technical specialist sectors
 - International language competency
 - Assistant to company management, profit center responsibility
 - Business sector management and company management
 - Company start-up and company succession.
- (4) Store is set by a multifaceted, qualified and cross-curricular education which enables graduates to be able to seize diverse professional opportunities. An implementation-orientated degree, taking into account the requirements of small and medium-sized companies is the focus of the training. The graduates will be prepared for subsequent managerial functions in companies and for possible autonomy or company succession.

Section 2 Pre-requisites for admission

For the Industrial Engineering Bachelor's study programme the general admission requirements must be fulfilled for study at a university in accordance with Art. 43, 45 BayHSchG in conjunction with the Ordinance regarding Quailfication for a Study Programme at Universities in the Free State of Bavaria and the non-state universities recognised by the state (Qualification Ordinance QualV) (BayRS 2210-1-1-3-UK/WFK) in the respectively applicable version.

Section 3 Standard study period, study programme composition, majors

- 1. The study programme encompasses a standard study period of seven semesters of study with six theoretical semesters of study and one practical semester of study. The practical semester of study shall take place in the sixth semester of study.
- 2. Classes and examinations shall be undertaken in the German and English language in the first and second semester. Language courses shall take place in the English language in the first two semesters. The dissertation can be written in the German or English language. Details are given in Annex 1 to the "Bachelor's Programme Industrial Engineering (MO)".

- 3. From the 3rd semester onwards, a second foreign language is compulsory (Spanish, Czech, Polish, Hungarian or French). The aim is to obtain a degree at level A 1, level 3.
- 4. The Industrial Engineering Bachelor's study programme is sub-divided into the two Engineer and Manager majors from the 3rd semester onwards. The students must decide which major they wish to select at the end of the 2nd semester at the latest.
- 5. Students can select different modules according to their choice of major from the third semester onwards (matrix organisation).
- 6. 40 ECTS credit points must be acquired in each major between the third and seventh semester. Hereof, 15 ECTS credit points are specified as a compulsory subject in the major. The remaining 25 ECTS credit points are specialist elective compulsory modules (SEC) and can be selected by the students themselves.
- 7. In addition, regardless of the major, 20 ECTS credit points must be acquired in the field of Sustainability and Data Processing (common electives) from the third semester onwards. Hereof, 5 ECTS credit points are specified as a compulsory subject for both majors. The remaining 15 ECTS credit points are specialist elective compulsory modules (SEC) and can be selected by the students themselves (Common electives).
- 8. 15 ECTS credit points must be acquired from every non-major from the third semester onwards. Hereof, 5 ECTS credit points are specified as a compulsory subject. The remaining 10 ECTS credit points are specialist elective compulsory modules (SEC) and can be selected by the students themselves.

Section 4 Modules

- (1) The study programme consists of modules which can comprise teaching sessions with specialist correlations. ECTS credit points which take into account the necessary time requirements for the students are assigned to every module.
- (2) The compulsory and elective compulsory modules, the teaching form, the number of hours, the examinations and the ECTS points are laid down in the appendix to these statutes. The regulations are supplemented with the curriculum for the general and specialist elective compulsory modules.
- (3) All modules consist of compulsory subjects or elective compulsory subjects:
 - 1. Compulsory modules are binding for all students.
 - 2. Elective compulsory modules are the modules which are offered individually or alternatively in groups. Students must make a certain selection from these in accordance with these study and examination regulations. The selected modules are treated as compulsory modules.

- 3. Elective modules are modules which are not prescribed as binding for attainment of the study objective. Students can additionally select these from the range of courses offered by the university
- (4) Modules can also be taught in blocks.
- (5) No claim exists to insisting that all envisaged elective compulsory modules and elective modules are actually offered. Likewise, no claim exists to insisting that the pertaining teaching sessions take place if there is an insufficient number of participants.

Section 5 Curriculum

The faculty responsible creates a curriculum to ensure the range of courses on offer and for information purposes of the students from which the specific sequence of the study programme results. The curriculum is decided on by the faculty council and must be published within the university before the start of the semester. Notifications of changes or new regulations must be made at the latest at the start of the lecture period of the semester in which these changes are to be applied for the first time. The curriculum in particular contains regulations and information on

- 1. the time allocation for hours per week of the semester for each module and semester of study, including ECTS points,
- 2. the name and majors offered in the study programme and their compulsory and elective compulsory modules and the number of hours, the type of teaching session, study programme objectives and study programme content of these modules,
- 3. the specialist elective compulsory modules with their number of hours,
- 4. the teaching method in the individual modules, insofar as they have not been finally determined in the appendix,
- 5. the study objectives and content of the individual modules (module handbook),
- 6. the objectives and content of practical and practically orientated teaching sessions in the practical semester of the study programme and their form and organisation.

Section 6 Specialist study guidance

It is suggested that students who have not yet attained 40 ECTS credit points after two semesters of specialist study consult the specialist study programme guidance office.

Section 7 Basic and orientation examination

Students must have sat the examinations of the following modules for the first time by the end of the second semester

• EB-01 Principles of Mathematics

Section 8 Practical semester of study

- (1) The sixth semester of the study programme is intended to be a practical semester of study. It encompasses at least 20 weeks and includes an internship in a company and accompanying teaching sessions, as can be seen from Appendix 1. Proof of practical activity can be replaced with subject-related practical training in especially justified exceptional cases. The internship officer of the faculty shall make the decision in this regard.
- (2) The regulations of the practical semester ordinance shall also apply.
- (3) If the training objective is not adversely affected, making up for interruptions to practical attendance is exceptionally not required if the students are not liable (e.g. company holidays, illness) and the days of absence caused by the interruption do not exceed five working days in total. When fulfilling a defence exercise, making up for interruptions is not required if its duration is no longer than 10 working days. Students must prove that they are not liable for the interruption. If the interruptions extend over more than 5 or 10 working days, the days of absence must therefore be made up overall. Overtime accomplished can be credited to interruptions.
- (4) The pre-requisite for entry to the practical semester of study is that at least 90 ECTS credit points have been attained.

Section 9 Evaluation of examination performances

(1) An examination is assigned to each module. If a module examination consists of several examination performances, the module grade is calculated from an arithmetical average of grades of the individual examination performances rounded to one decimal place. The individual examination performances are weighted according to the ECTS credit points assigned. For the specified ECTS credit points cf. Appendix – overview of the modules. ECT credit points are only acquired on successful completion of the modules.

ECTS points for each teaching session are specified to calculate the module grade.

(2) If a module examination consists of several examination performances, the

grade "inadequate" in a partial examination cannot be offset by a better grade in a different partial examination.

- (3) 1The overall examination grade is calculated by forming the weighted arithmetical average of the individual grades. The weight of an individual grade is equivalent to the number of ECTS credit points assigned to the subject for which the grade was awarded.
- (4) In addition to the overall examination grade according to Para. 3 on the basis of the number value attained, a relative grade is shown according to the ECTS user guide according to the regulations in Section 8 Para. 6 of the General Examinations Regulation of the Hochschule Deggendorf.

Section 10 Bachelor's dissertation

- (1) In the Bachelor's dissertation students should prove their ability to independently apply the knowledge and skills acquired during the study programme to complex tasks.
- (2) Students who have attained 120 ECTS credit points can enrol for the Bachelor's dissertation.
- (3) The Bachelor's thesis may be written in a foreign language other than English or German with the approval of the examination board. Topics are issued by professors in the faculty.
- (4) The writing time for the Bachelor's dissertation is 6 months.

Section 11 Report

A report is issued in relation to the successfully completed Bachelor's degree examination according to the respective sample in the appendix to the General Examination Regulations of the Technische Hochschule Deggendorf.

Section 12 Academic degree and Diploma Supplement

- (1) Following successful completion of the Bachelor's examination, the academic degree of "Bachelor of Engineering" (abbreviated to "B.Eng.") is awarded.
- (2) A certificate is issued in association with the awarding of the academic degree according to the respective sample in the appendix to the General Examination Regulations of the Technische Hochschule Deggendorf.
- (3) The certificate is drafted in two languages. A diploma supplement is also enclosed which describes in particular the fundamental content of the study programme on which the qualification is based, the study programme and the qualification which the academic degree confers.

Section 13 Entry into force

These study and examination regulations enter into force on 01 October 2016. They apply to all students commencing their study programme in the winter semester 2016/2017.

Drafted on the basis of the Resolution of the Senate of Technische Hochschule Deggendorf of dd.mm.yyyy and legal supervisory approval of the Vice Presient of Technische Hochschule Deggendorf of dd.mm.yyyy.

Prof. Dr. Peter Sperber President

The statutes were laid down on dd.mm.yyyy at Technische Hochschule Deggendorf. The laying down was announced by public notice on dd.mm.yyyy. The day of announcement is therefore dd.mm.yyyy.

	Overview study structure "	Bachelor Industrial Engineering / Main	tenance and Operation"
ECTS		Mandatory for all	
54	Fundamentals - Natural Science: - 410 Technical Mechanics (5) - 805 Principles in Natural Science (8)	Fundamentals - Economics: - 505 Priciples in Business (10) - 705 Business Law & Taxes (8) - 610 Marketing (5)	Fundamentals - Mathematics & Informatics - 110 & 210 Principles in Mathematics (10) - 305 Informatics for Engineering (8)
31	910-950 & 1	010-1030 Languages (21) and 1105 Intercultural Co	mpetences (10)
6		1210 Project with report (6)	
30		1410 Internship (30)	
14	1320 B	achelor thesis (12) & 1310 Academic writing and r	esearch (2)
		Majors	
	Engineer	Both	Manager
	Maintenance-Technique	Sustainability and IT	Maintenance-Management
	- 2705 Renewable Energies (5)	- 1705 Plant Engineering (5)	- 3805 Logistics (5)
	- 2905 Measurement and Control Engineering (10)	- 1505 Insights into the Corporate World (5)	- 3305 Capital Budgeting and Financing (10)
	- 2410 Electrical Engineering (5)	- 1605 Sustainability (10)	- 3405 Management (5)
75	- 2505 Process Engineering (5)	- 1805 Quality Management (5)	- 3505 MRO Strategies and Strategic Planning (5)
	- 2605 Design Engineering a. Materials Science (5)	- 1905 Human Resource Management and Labour Law (5)	- 3605 Globalisation (5)
	- 2805 Energy Technique (5)	- 2010 Statistics (5)	- 3705 Business and Start-up Planning (5)
	- 3105 Process Reliability and Work Safety (5)	- 2105 IT in Plant Engineering (5)	- 3905 Operational Processes (5)
	- 3205 Process Optimization (5)	- 2205 Data Processing, Geoinformation Systems (5)	- 4005 Cost Accounting and Budgeting (5)
	- 3010 & 3020 Lab Work (5)	- 2305 Energy Markets and Economic Geography (5)	
	-> Red subjects are mandatory for both majors	-> Red subjects are mandatory for both majors	-> Red subjects are mandatory for both majors
	-> Blue subject is mandatory in own major	-> From this section both majors have to choose	-> Blue subject is mandatory in own major
	-> Elective-mandaroty subjects (black printed):	15 ECTS from the black printed exams	-> Elective-mandaroty subjects (black printed):
	> 25 ECTS from own major		> 25 ECTS from own major
	> 15 ECTS from sector Sustainability and IT		> 15 ECTS from sector Sustainability and IT
	> 10 ECTS from major Manager		> 10 ECTS from major Engineer
210			

Appendix 1 "Bachelor Industrial Engineering / Maintenance and Operation (MO)" – Matrix structure for illustrative purposes

Appendix 2 a to the study and examination regulations for the "Industrial Engineering / Maintenance and Operation" Bachelor's study programme – <u>Major Engineering</u>

	Bachelor Industrial Engineering / Maintenance and Operation - Major Engineering Principle Courses													
Overview	over module a	and course numbers, module and courses (SWS and ECTS)	Semester periods per week (SWS)							European Credit Transfer System				
Module-Nr.	Course-Nr.	Module / Course	Module	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.	Module	Teaching form	Type of examination and duration	Type of module
EB-01		Principles of Mathematics	4								5			
	EB1101	Analytical Principles of Engineering		4								SU/Ü	GMPschr 90 min.	mandatory
EB-02		Principles in Mathematics for Engineering	4								5			
ER-02	EB2101	Mathematics for Engineering	•		4						0	SU/U	GMPschr 90 min.	mandatory
20-05	EB1102	Informatics 1	0	2								SU/Ü		
	EB1103	Informatics excercises		2								Pr	GMPSchr 90 min.	mandatory
	EB2102	Informatics 2			4							SU/Ü		
EB-04		Technical Mechanics	4								5			
ER OF	EB1104	Technical Mechanics (statics, material strength)	0	4	_	_					10	SU/U	GMPschr 90 min.	mandatory
EB-05	FB1105	Fundamentals in Business Administration and	•	4							10	SU/Ü		
	EB1106	Accounting		4								SU/Ü	GMPschr 120 min.	mandatory
EB-06		Marketing	4								5			
	EB1107	Marketing		4								SU/Ü	GMPschr 120 min.	mandatory
EB-07		Business law	8								8			
	EB2103	Tayos			4	<u> </u>						5U/U SU/Ü	GMPschr 120 min.	mandatory
FB-08	-02104	Principles in Natural Sciences	6		7							30/0		
28-08	EB2105	including lab work	•		2	-			_		•	SU/Ü/Dr		
	EB2105	Chemistry			2							SU/Ü/Pr	GMPschr 120 min	mandatory
	EB2100	Biology			2							SU/Ü/Pr		manaacory
						<u> </u>					European Credit			
Overview	over module a	ects)			Semeste	r periods p	er week i	(SWS)			Transfer System (ECTS)		Type of	
Module-Nr.	Course-Nr.	Module / Course	Module	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.	Module	Teaching form	examination and duration	Type of module
EB-09		English	12								12			
	EB1108	Business English 1		2							2	SU/U	Pschr 60 min.	mandatory
	EB3101	Business English 2			2	2					2	SU/U SU/Ü	Pschr 60 min.	mandatory
	EB3102	Technical English 2			2	2					2	50/0 SU/Ü	Pschr 60 min.	mandatory
	EB5101	English Level C1						4			4	SU/Ü	PSchr 90 min.	mandatory
EB-10		Languages II Choices: Spanish, Czech, Polish, Hungarian or French	6								9			
	EB3103	Languages II Level A1 part 1				2					3	SU/Ü	Pschr 60 min.	mandatory
	EB4101	Languages II Level A1 part 2					2				3	SU/Ü	Pschr 60 min.	mandatory
	EB5102	Languages II Level A1 part 3						2			3	SU/Ü	Pschr 60 min.	mandatory
EB-11	585403	Intercultural competences	8			_					10	cu iii		
	EB5103	Specialisation in one cultural / economic region				L		4				50/0	GMPSchr 120 min.	mandatory
	EB5104	(language & social skills)						4				50/0		
			Man	datory	course	s for M	ajor Er	ngineer	ing					
Overview	over module a	and course numbers, module and courses (SWS and ECTS)			Semeste	r periods p	ier week i	(SWS)			European Credit Transfer System (ECTS)			
Module-Nr.	Course-Nr.	Module / Course	Module	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.	Module	Teaching form	Type of examination and duration	Type of module
EB-15		Plant Technology	4								5			
	EB3104	Energy Plant Engineering				2						SU/Ü	GMPSchr 90 min.	mandatory
	EB3105	Production System Engineering				2						SU/Ü		
EB-25	EB2112	Renewable Energies	4								5	CI /Ű		
	EB4108	Renewable Energy Systems				<u> </u>	2					SU/Ü	GMPschr 90 min.	mandatory
EB-36		Logistics	4				-				5			
	EB4115	Logistics					2					SU/Ü	GMPSchr 90 min	mandatory
L	EB4116	Operations Research, especially Workforce Planning					2					SU/Ü		anoutory
EB-27	594405	Measurement and Control Engineering Fundamentals of Measurement and Control	8			-					10			
	EB5112	Engineering Applied Measurement Engineering with exercises				<u> </u>	4	2				SU/U	GMPschr 120 min	mandatory
	EB5113	Applied Control Engineering with exercises				<u> </u>		2				SU/Ü		
EP-12		Project work with report	6								6			
CD-12	EB5105	Project work with report	6			-		6			6	PA	Project (report)	mandatory
EP-12		Pachalar thesis	2			<u> </u>					14			,
20-13	EB2109	Methods in scientific work and academic writing	2		2	-					2	SU/Ü	PSchr 90 min.	mandatory
	EB7101	Bachelor thesis (incl. final presentation)								12	12	BA	Bachelor thesis	mandatory
EB-42		Internship including PLV-seminars									30			
	EB6101	Internship including PLV-seminars							30			Pr	Internship	mandatory

Common electives: choose 15 ECTS														
Overview		and course numbers, module and courses (SWS and			Semester	r neriods i	her week	(SWS)			European Credit Transfer System			
		ECTS)			Semeste	, beilous i	Jer Week	(3113)			(ECTS)			
Module-Nr.	Course-Nr.	Module / Course	Module	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.	Module	Teaching	Type of examination and	Type of
												form	duration	module
EB-39		Insights into the Corporate World	4								5			
	EB1109	Insights into the Corporate World 1		2								SU/Ü	GMRS chr 90 min	DMD*1
	EB2110	Insights into the Corporate World 2			2							SU/Ü	GHF3CH 90 mm.	FWF-
EB-14		Sustainability	8								10			
	EB4102	Environment and Climate					2					SU/Ü		
	EB4103	Certification Systems (LCA)					2			L		SU/Ü	GMPSchr 120 min.	FWP*1
	EB4104	Energy and Resource Efficiency					4					SU/Ü		
EB-16		Quality Management	4								5			
	EB5106	Principles of Quality Management						2				SU/Ü	GMPSchr 90 min.	FWP*1
	EB5107	Quality Methods (Six Sigma)						2				SU/Ü	din Sch Stim.	
EB-17		Human Resource Management and Labour Law	4								5			
	EB4105	Human Resource Management					2					SU/Ü	GMPSchr 90 min.	FWP*1
	EB4106	Labour Law and Employee Management					2					SU/Ü	din Sen Sonnin	1 101
EB-18		Statistics	4								5			
	EB3106	Statistics				4						SU/Ü	PSchr 90 min	FWP*1
EB-19		IT in the Plant Technology	4								5			
	EB5108	Data Communication and Processing / Industry 4.0						2				SU/Ü	GMPSchr 90 min	EW/D*1
	EB5109	Human-Machine Interaction						2				SU/Ü	drif Sell So film.	1 101
EB-20		Data Processing, Geoinformation Systems	4								5			
	EB3107	Data and Signal Acquisition and Processing				2						SU/Ü	GMPSchr 90 min	EW/D*1
	EB3108	Geoinformation Systems				2						SU/Ü	din Sen Sonnin	1 101
EB-21		Energy Markets and Economic Geography	4								5			
	EB7103	Energy Markets								2		SU/Ü	CMRS chr 90 min	DMD*1
	EB7104	Economic Geography								2		SU/Ü	drif Sell So film.	1 107
			En	aineeri	ing elec	tives: c	hoose	25 ECT	rs					
Overview	aver medule i	and course numbers, module and courses (CMC and		<u>gc</u>							European Credit			
overview	over module a	ECTS)									Transfer System			
											(ECTS)		Type of	
Module-Nr.	Course-Nr.	Module / Course	Module	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.	Module	Teaching form	examination and	Type of module
												101-111	duration	morane
EB-22		Electrical Engineering	4								5			
	EB3109	Fundamentals of Electrical Engineering				4						SU/Ü	GMPschr 90 min.	FWP*1
EB-23		Process Engineering	4								5			
	EB3110	Fundamentals of Process Engineering				2						SU/Ü	CMRcchr 90 min	DMD#1
	EB4107	Chemical and Biotechnological Process Engineering					2					SU/Ü	GMPSCIII 90 IIIIII.	FWP**
EB-24		Design Engineering and Material Science	4								5			
	EB3111	Design Engineering				2						SU/Ü	CMDs also 00 as in	
	EB3112	Material Science				2						SU/Ü	GMPSChr 90 min.	FWP*-
EB-26		Energy Techology	4								5			
	EB5110	Fluid and Energy Technology (incl. Lab work)						2				SU/Ü/Pr		
	EB5111	Conventional Energy Technology						2				SU/Ü/Pr	GMPschr 90 min.	FWP**
EB-28		Lab work	4								5			
	EB3114	Lab work in Chemistry/Biology				2					3	SU/Ü/Pr	Practical work (report)	FWP*1
	EB4110	Lab work in Physics					2				2	SU/Ü/Pr	Practical work (report)	FWP*1
EB-29		Process Reliability and Work Safety	4								5			
	EB4111	Process Reliability					2					SU/Ü/Pr		
	EB4112	Work Safety					2					SU/Ü/Pr	GMPschr 90 min.	FWP**
EB-30		Process Optimisation	4								5			
	EB7105	LEAN-Management (Value Stream Mapping) and FMEA								2		SU/Ü		
	EB7106	Process Optimisation in Control and Systems								2		SU/Ü	GMPschr 90 min.	FWP**
	•		Max		ont ala	chivee	chooce	10 50	TC		•		•	•
			ria.	ayem	entele	cuves:	choose	: 10 EC	15		European Credit			
Overview	over module a	and course numbers, module and courses (SWS and ECTS)									Transfer System			
				-	<u> </u>	_	-	1		<u> </u>	(ECTS)		Type of	
Module-Nr.	Course-Nr.	Module / Course	Module	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.	Module	Teaching	examination and	Type of
												TOPIN	duration	module
EB-31		Capital Budgeting and Financing	8								10			
	EB3115	Financing				4						SU/Ü	CMDC also 120 min	DWD#1
	EB3116	Capital Budgeting and Technical Controlling				4						SU/Ü	Ger Jul 120 Min.	1 44 15
EB-32		Management	4								5			
	EB5114	Project Management						2				SU/Ü	GMPS chr 00 min	DVD#1
	EB5115	Innovation Management						2				SU/Ü	GHPSCII 90 MIN.	FWP**
EB-33		Maintenance, Repair and Operation Strategies	4								5			
	FB4113	Maintenance, Renair and Operation Strategies					7					SU/Ü		
1	EB4114	Strategic Planning					2					50/0 SU/0	GMPSchr 90 min.	FWP*1
EB-34	-0.114	Globalisation	-4				L É				5	30/0		
	EB7107	Regional and Global Economic Regions								2		SU/Ü		
1	EB7108	International Integration					-	1		2		SU/Ü	GMPSchr 90 min.	FWP*1
EB-35	-27 100	Business Planning and Start-up Management	4							-	5	55/0		
	EB7109	Business Planning								2		SU/Ü		
	EB7110	Start-up Management						1		2		SU/Ü	GMPSchr 90 min.	FWP*1
EB-37		Operational Processes	-4								5	50,0		
	FB4117	Operational Organisation					2					SU/Ü		
1	EB4118	Enterprise Information Systems					2			<u> </u>		SU/Ü	GMPSchr 90 min.	FWP*1
EB-38		Cost Accounting and Budgeting	4								5	23/0		
20-30	FB3117	Cost Accounting				2						SU/Ü		
	EB3118	Budgeting				2		1				SU/Ü	GMPSchr 90 min.	FWP*1
L						<u> </u>		-			1	30/0		I
				1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.				
Abbroviatio	ne		[Interne bie	Bachelor				
ADDreviatio	115								- interns nip	thesis				
BA	Bachelor the	sis						_						
ECTS	European Cr	edit Transfer System												
mdIP	Oral examina	tion						-						
Pr	Internship													
PA	Project work	with report						-						
PSchr	written exam	ination												
GMPschr	written modu	le examination						-						
SU	Course teach	ing/exercises/tutorials												
SWS	Semester pe	riods per week												
U	Exercise	nends on course offer)												
FWP*1	- a semester	abroad is possible.												
	mandatory m	odules for major Engineering or Management												
mandatory														

Appendix 2 b to the study and examination regulations for the "Industrial Engineering / Maintenance and Operation" Bachelor's study programme – <u>Major Management</u>

Bachelor Industrial Engineering / Maintenance and Operation - Major Management														
Principle Courses														
Overview ove	er module and	course numbers, module and courses (SWS and ECTS)	Semester periods per week (SWS)					European Credit Transfer System (ECTS)						
Module-Nr.	Course-Nr.	Module / Course	Module	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.	Module	Teaching form	Type of examination and duration	Type of module
EB-01		Principles of Mathematics	4								5			
20 01	EB1101	Analytical Principles of Engineering		4							<u> </u>	SU/Ü	GMRechr 90 min	mandatory
50.00	CBIIUI	Analytical Principles of Engineering		4							-	30/0	GMPSCIII 90 IIIIII.	manuatory
EB-UZ		Principles in Mathematics for Engineering	4			_					5			
	EB2101	Mathematics for Engineering			4							50/0	GMPschr 90 min.	mandatory
EB-03		Informatics for Engineering	8								8			
	EB1102	Informatics 1		2								SU/Ü		
	EB1103	Informatics excercises		2								Pr	GMPSchr 90 min.	mandatory
	EB2102	Informatics 2			4							SU/Ü		
EB-04		Technical Mechanics	4								5			
	FB1104	Technical Mechanics (statics, material strength)		4								SU/Ü	GMPschr 90 min.	mandatory
ER OF	COTTOT	Dringinles in Rusiness	0								10	50/0	drif Schr 50 min.	mandacory
EB=05		Fundamentals in Business	•								10			
	EB1105	Economics		4								SU/Ü	GMPschr 120 min.	mandatory
	EB1106	Accounting		4								SU/Ü		,
EB-06		Marketing	4								5			
	FB1107	Marketing		4								SU/Ü	GMPschr 120 min.	mandatory
ER-07		Rusinger Jaw	9								•			,
20-07	EP3102	Delvate Jaw									•	CU/0		
	CB2103	rivate läw			4					I		50/0	GMPschr 120 min.	mandatory
	EB2104	laxes			4							SU/U		
EB-08		Principles in Natural Sciences									8			
	582105	Division										CILI ^D In-		
	св2105	Physics			2							50/0/Pr	l	
	EB2106	Chemistry			2							SU/U/Pr	GMPschr 120 min.	mandatory
	EB2107	Biology			2							SU/Ü/Pr		
a											European Credit			
Overview ove	er module and	course numbers, module and courses (SWS and FCTS)									Transfer System			
Module-Nr.	Course-Nr.	Module / Course	Module	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.	(ECTS) Module	Teaching	Type of examination and	Type of
												form	duration	module
EB-09		English	12								12			
	EB1108	Business English 1		2							2	SU/Ü	Pschr 60 min.	mandatory
	EB3101	Business English 2				2					2	SU/Ü	Pschr 60 min.	mandatory
	EB2108	Technical English 1			2						2	SU/Ü	Pschr 60 min.	mandatory
	EB3102	Technical English 2				2					2	SU/Ü	Pschr 60 min.	mandatory
	FB5101	English Level C1						4			4	SU/Ü	PSchr 90 min.	mandatory
		Languages II												,
EB-10		Choices: Spanish, Czech, Polish, Hungarian or French	6								9			
	EB3103	Languages II Level A1 part 1				2					3	SU/Ü	Pschr 60 min.	mandatory
	EB4101	Languages II Level A1 part 2					2				3	SU/Ü	Pschr 60 min.	mandatory
	EB5102	Languages II Level A1 part 3					-	2			3	SU/Ü	Pschr 60 min.	mandatory
EB-11		Intercultural competences	8								10			
	EB5103	Intercultural Basic Module						4				SU/Ü		
	LUSIUS							4				30/0	GMPSchr 120 min.	mandatory
	EB5104	(language & social skills)						4				SU/Ü		,
	•				· · · · ·									
			Mandatory courses for Major Management											
Overview ove	er module and	course numbers, module and courses (SWS and ECTS)			Semester	periods p	er week (SWS)			European Credit Transfer System (ECTS)			
Module-Nr.	Course-Nr.	Module / Course	Module	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.	Module	Teaching form	Type of examination and duration	Type of module
ED 21		Canital Rudgeting and Financing	•								10			
CD-31		capital budgeting and Financing	- 8								10	eu 15		
	EB3115	Financing				4						SU/U	GMPSchr 120 min.	mandatory
	EB3116	Capital Budgeting and Technical Controlling				4						SU/Ü		
EB-15		Plant Technology	4								5			
	EB3104	Energy Plant Engineering				2						SU/Ü	GMPSchr 90 min	mandatory
	EB3105	Production System Engineering				2						SU/Ü	anradii 30 mm.	manuacory
EB-25		Renewable Energies	4	_						_	5			
	EB3113	Fundamentals of Renewable Energies				2						SU/Ü		
	FB4108	Renewable Energy Systems				<u> </u>	2					SU/Ü	GMPschr 90 min.	mandatory
EB-36		Logistics	4				-				5	2 3/ 0		
20-30	EP.4115	Lagistics	*				-					CU/0		
	EB4115	Operations Research, especially Workforce					2					SU/Ü	GMPSchr 90 min.	mandatory
										_			1	
EB-12		Project work with report	6								6			
	EB5105	Project work with report						6				PA	Project (report)	mandatory
EP-12		Rachelor thesis	2					_		-	14			
ED-13	EP3102	Mathada in scientific work and an damin	2								14	611/0	DC alter 00 m ²	mandata
	св2109	methods in scientific work and academic writing		l	2						2	50/0	PScnr 90 min.	mandatory
	EB7101	Bachelor thesis (incl. final presentation)		L						12	12	BA	Bachelor thesis	mandatory
EB-42		Internship including PLV-seminars		_							30			
	EB6101	Internship including PLV-seminars							30			Pr	Internship	mandatory
					I									

				Comm	<mark>ion ele</mark> e	tives:	<u>choose</u>	15 EC	TS					
Overview ove					Semester	neriods r	er week i	SWS)			European Credit Transfer System			
		ECTS)						,			(ECTS)			
Module-Nr.	Course-Nr.	Module / Course	Module	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.	Module	Teaching	Type of examination and	Type of
												TOTIM	duration	mouure
EB-39		Insights into the Corporate World	4								5			
	EB1109	Insights into the Corporate World 1		2		<u> </u>						SU/Ü	GMPSchr 90 min.	FWP*1
ED 14	EB2110	Insights into the Corporate World 2	•		2						10	50/0		
EB-14	FB4102	Environment and Climate	•			-	2				10	SU/Ü		
	EB4103	Certification Systems (LCA)					2					SU/Ü	GMPSchr 120 min.	FWP*1
	EB4104	Energy and Resource Efficiency					4					SU/Ü		
EB-16		Quality Management	4								5	, .		
	EB5106	Principles of Quality Management						2				SU/Ü	CMDC also con an la	munch
	EB5107	Quality Methods (Six Sigma)						2				SU/Ü	GMPSchr 90 min.	FWP*1
EB-17		Human Resource Management and Labour	4								5			
	EB4105	Law Human Recource Management				-	2					SU/Ü		
	EB4106	Labour Law and Employee Management					2					SU/Ü	GMPSchr 90 min.	FWP*1
EB-18		Statistics	4				-				5			
	EB3106	Statistics				4						SU/Ü	PSchr 90 min	FWP*1
EB-19		IT in the Plant Technology	4								5			
	EB5108	Data Communication and Processing / Industry						2				SU/Ü		
	FB5109	4.0 Human-Machine Interaction						2				SU/Ü	GMPSchr 90 min.	FWP*1
EB-20		Data Processing, Geoinformation Systems	4					-			5			
	EB3107	Data and Signal Acquisition and Processing				2					-	SU/Ü		
	EB3108	Geoinformation Systems				2						SU/Ü	GMPSchr 90 min.	FWP*1
EB-21		Energy Markets and Economic Geography	4								5			
	EB7103	Energy Markets								2		SU/Ü	CMDC obx 00 min	ENDAL
	EB7104	Economic Geography								2		SU/Ü	GMPSCHI 90 mm.	rwr.
			м	anage	ment e	lectives	: choo	se 25 E	CTS					
Overview ove	r modulo and	course numbers, module and courses (SWS and									European Credit			
Overview ove		ECTS)			Semester	periods p	er week (Transfer System (FCTS)			
											(20.0)	Teaching	Type of	Type of
Module-Nr.	Course-Nr.	Module / Course	Module	1. Sem.	2. Sem.	3. Sem.	4. Sem.	5. Sem.	6. Sem.	7. Sem.	Module	form	examination and duration	module
EB-32		Management	4								5			
20-32	EB5114	Project Management	4					2				SU/Ü		
	EB5115	Innovation Management				<u> </u>		2				SU/Ü	GMPSchr 90 min.	FWP*1
	LUGIIIG	Maintenance, Repair and Operation						-			_	50/0		
EB-33		Strategies and Planning	4								5			
	EB4113	Maintenance, Repair and Operation Strategies					2					SU/Ü	GMPSchr 90 min.	FWP*1
	EB4114	Strategic Planning					2					SU/U		
EB-34		Globalisation	4			_					5	eu 10		
	EB/10/	Regional and Global Economic Regions				<u> </u>				2		SU/U	GMPSchr 90 min.	FWP*1
	207100	Business Planning and Start-up								- 2		30/0		
EB-35		Management	4								5			
	EB7109	Business Planning								2		SU/Ü	GMPSchr 90 min.	FWP*1
	EB7110	Start-up Management								2		SU/Ü		
EB-37		Operational Processes	4								5			
	EB4117	Operational Organisation				<u> </u>	2					SU/U	GMPSchr 90 min.	FWP*1
	EB4118	Enterprise Information Systems					2					SU/U		
50.00		Cost Assessments and Budgesting									-			
EB-38	EP2117	Cost Accounting and Budgeting	4			2					5	cu/ü		
EB-38	EB3117 EB3118	Cost Accounting and Budgeting Cost Accounting Budgeting	4			2					5	SU/Ü	GMPSchr 90 min.	FWP*1
EB-38	EB3117 EB3118	Cost Accounting and Budgeting Cost Accounting Budgeting	4			2					5	SU/Ü SU/Ü	GMPSchr 90 min.	FWP*1
EB-38	EB3117 EB3118	Cost Accounting and Budgeting Cost Accounting Budgeting	4	inginee	ering el	2 2 ectives	: choos	<mark>e 10 E</mark>	стя		5	SU/Ü SU/Ü	GMPSchr 90 min.	FWP*1
E B-38 Overview ove	EB3117 EB3118 er module and	Cost Accounting and Budgeting Cost Accounting Budgeting course numbers, module and courses (SWS and	4	inginee	ering ele	2 2 ectives	choos er week (<mark>e 10 E</mark> sws)	CTS		5 European Credit Transfer System	SU/Ü SU/Ü	GMPSchr 90 min.	FWP*1
EB-38 Overview ove	EB3117 EB3118 er module and	Cest Accounting and Budgeting Cost Accounting Budgeting course numbers, module and courses (SWS and ECTS)	4	inginee	ering ek	2 2 ectives	choos er week (<mark>e 10 E</mark> sws)	CTS		5 European Credit Transfer System (ECTS)	SU/Ü SU/Ü	GMPSchr 90 min.	FWP* ¹
EB-38 Overview ove	EB3117 EB3118 er module and Course-Nr.	Cest Accounting and Budgeting Cost Accounting Budgeting course numbers, module and courses (SWS and ECTS) Module / Course	4 Module	inginee	Semester	2 2 ectives · periods p 3. Sem.	: choos er week (4. Sem.	<mark>e 10 E</mark> SWS) 5. Sem.	CTS 6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module	SU/Ü SU/Ü Teaching form	GMPSchr 90 min. Type of examination and	FWP* ¹
EB-38 Overview ove	EB3117 EB3118 r module and Course-Nr.	Cest Accounting and Budgeting Cost Accounting Budgeting course numbers, module and courses (SWS and ECTS) Module / Course	4 Module	inginee	Semester 2. Sem.	2 2 ectives periods p 3. Sem.	er week (4. Sem.	<mark>e 10 E</mark> SWS) 5. Sem.	CTS 6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module	SU/Ü SU/Ü Teaching form	GMPSchr 90 min. Type of examination and duration	FWP* ¹ Type of module
EB-38 Overview ove Module-Nr. EB-22	EB3117 EB3118 er module and Course-Nr.	Cost Accounting and Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering	4 Module	I. Sem.	Semester 2. Sem.	2 2 ectives · periods p 3. Sem.	: choos er week (4. Sem.	e 10 E SWS) 5. Sem.	CTS 6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5	SU/Ü SU/Ü Teaching form	GMPSchr 90 min. Type of examination and duration	FWP* ¹ Type of module
EB-38 Overview ove Module-Nr. EB-22	EB3117 EB3118 er module and Course-Nr. EB3109	Cest Accounting and Budgeting Cost Accounting Budgeting course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering	4 Module	I. Sem.	ering ele Semester 2. Sem.	2 2 ectives • periods p 3. Sem.	er week (e 10 E SWS) 5. Sem.	6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5	SU/Ü SU/Ü Teaching form	GMPSchr 90 min. Type of examination and duration GMPschr 90 min.	FWP* ¹ Type of module FWP* ¹
EB-38 Overview ove Module-Nr. EB-22 EB-23	EB3117 EB3118 er module and Course-Nr. EB3109	Cost Accounting and Budgeting Cost Accounting Budgeting course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Process Engineering	4 Module 4	1. Sem.	ering eld Semester 2. Sem.	2 2 ectives • periods p 3. Sem.	er week (4. Sem.	<mark>e 10 E</mark> SWS) 5. Sem.	CTS 6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5 5	SU/Ü SU/Ü Teaching form SU/Ü	GMPSchr 90 min.	FWP*1 Type of module FWP*1
EB-38 Overview ove Module-Nr. EB-22 EB-23	EB3117 EB3118 er module and Course-Nr. EB3109 EB3110	Cest Accounting and Budgeting Cost Accounting Budgeting course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Process Engineering Fundamentals of Process Engineering Chamical and Biosechologia Decorer	4 Module 4 4	inginee	Semester 2. Sem.	2 2 ectives • periods p 3. Sem. 4	er week (<mark>e 10 E</mark> SWS) 5. Sem.	CTS 6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5 5	SU/Ü SU/Ü Teaching form SU/Ü	GMPSchr 90 min.	FWP*1 Type of module FWP*1
EB-38 Overview ove Module-Nr. EB-22 EB-23	EB3117 EB3118 Course-Nr. EB3109 EB3110 EB4107	Cost Accounting and Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Fundamentals of Process Engineering Chemical and Biotechnological Process Engineering	4 Module 4	1. Sem.	2. Sem.	2 2 ectives periods p 3. Sem. 4 4	4. Sem.	e 10 E SWS) 5. Sem.	6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5 5	SU/Ü SU/Ü Teaching form SU/Ü SU/Ü	GMPSchr 90 min. Type of examination and duration GMPschr 90 min.	FWP*1
EB-38 Overview ove Module-Nr. EB-22 EB-23 EB-23	EB3117 EB3118 r module and Course-Nr. EB3109 EB3110 EB4107	Cost Accounting and Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Process Engineering Chemical and Biotechnological Process Engineering Design Engineering and Material Science	4 Module 4 4	1. Sem.	2. Sem.	2 2 ectives 9 periods p 3. Sem. 4 2	er week (4. Sem.	<mark>e 10 E</mark> SWS) 5. Sem.	6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5 5 5	SU/Ü SU/Ü Teaching form SU/Ũ SU/Ũ	GMPSchr 90 min. Type of examination and duration GMPschr 90 min. GMPschr 90 min.	FWP*1 Type of module FWP*1
EB-38 Overview ove Module-Nr. EB-22 EB-23 EB-24	EB3117 EB3118 Course-Nr. EB3109 EB3110 EB4107 EB3111	Cost Accounting and Budgeting Cost Accounting Budgeting course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Process Engineering Chemical and Biotechnological Process Engineering Design Engineering and Material Science Design Engineering	4 Module 4 4	1. Sem.	2. Sem.	2 2 ectives 9 periods p 3. Sem. 4 2 2	er week (4. Sem.	<mark>e 10 E</mark> SWS) 5. Sem.	6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5 5 5	SU/Ŭ SU/Ŭ Teaching form SU/Ŭ SU/Ŭ SU/Ŭ	GMPSchr 90 min.	FWP*1 Type of module FWP*1 FWP*1 FWP*1 FWP*1
EB-38 Overview ove Module-Nr. EB-22 EB-23 EB-24	EB3117 EB3118 Course-Nr. EB3109 EB3110 EB4107 EB3111 EB3111 EB3112	Cost Accounting and Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Process Engineering Chemical and Biolechnological Process Engineering Design Engineering and Material Science Design Engineering Material Science	4 Nodule 4 4	1. Sem.	2. Sem.	2 2 2 ectives 3. Sem. 4 2 2 2 2	4. Sem.	e 10 E SWS) 5. Sem.	6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5 5 5 5	SU/Ŭ SU/Ŭ Teaching form SU/Ŭ SU/Ŭ SU/Ŭ SU/Ŭ SU/Ŭ	GMPSchr 90 min.	FWP*1
EB-38 Overview ove Module-Nr. EB-22 EB-23 EB-24 EB-26	EB3117 EB3118 r module and Course-Nr. EB3109 EB3110 EB3110 EB3111 EB3112 EB3112	Cost Accounting and Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Fundamentals of Process Engineering Chemical and Biotechnological Process Engineering Design Engineering and Material Science Design Engineering Material Science Energy Technology	4 Module 4 4	1. Sem.	2. Sem.	2 2 ectives periods p 3. Sem. 4 2 2 2 2	4. Sem.	e 10 E SWS) 5. Sem.	6. Sem.	7. Sem.	5 European Credit Transfers System (ECTS) Module 5 5 5 5	SU/Ü SU/Ü Teaching form SU/Ü SU/Ü SU/Ü SU/Ü	GMPSchr 90 min. Type of examination and duration GMPschr 90 min. GMPschr 90 min.	FWP*1 FWP*1 FWP*1 FWP*1
EB-28 Overview ove Module-Nr. EB-22 EB-24 EB-24 EB-26	EB3117 EB3118 r module and Course-Nr. EB3109 EB3110 EB3110 EB3111 EB3112 EB3112	Cost Accounting and Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Process Engineering Chemical and Biotechnological Process Engineering Design Engineering and Material Science Design Engineering Material Science Energy Technology (incl. Lab work) Chanadia for:	4 Module 4 4	1. Sem.	2. Sem.	2 2 ectives 3. Sem. 4 2 2 2 2	2	e 10 E SWS) 5. Sem.	6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5 5 5 5	SU/0 SU/0 Teaching form SU/0 SU/0 SU/0 SU/0 SU/0 SU/0/PPr SU/0/Pr	GMPSchr 90 min. Type of examination and duration GMPschr 90 min. GMPschr 90 min. GMPschr 90 min. GMPschr 90 min.	FWP*1 FWP*1
EB-38 Overview ove Module-Nr. EB-22 EB-23 EB-24 EB-26 EB-26	EB3117 EB3118 r module and Course-Nr. EB3109 EB3110 EB3110 EB3111 EB3112 EB5110 EB5110	Cest Accounting and Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Fundamentals of Process Engineering Chemical and Blotechnological Process Engineering Design Engineering and Material Science Design Engineering Fudated Science Energy Technology Fuid and Energy Technology (Incl. Lab work) Conventional Energy Technology	4 Module 4 4	1. Sem.	2. Sem.	2 2 2 9 eriods p 3. Sem. 4 2 2 2	2	e 10 E SWS) 5. Sem.	6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5 5 5 5	SU/Ü SU/Ü Teaching form SU/Ü SU/Ü SU/Ü SU/Ü SU/Ü SU/Ü/Pr SU/Ü/Pr	GMPSchr 90 min. Type of examination and duration GMPschr 90 min. GMPschr 90 min. GMPschr 90 min. GMPschr 90 min.	FWP*1 FWP*1 FWP*1 FWP*1 FWP*1 FWP*1 FWP*1
EB-38 Overview ove Module-Nr. EB-22 EB-23 EB-24 EB-26 EB-26	EB3117 EB3118 r module and Course-Nr. EB3109 EB3110 EB4107 EB3111 EB3112 EB5110 EB5111	Cost Accounting and Budgeting Cost Accounting Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Process Engineering Process Engineering Design Engineering and Material Science Design Engineering Material Science Energy Technology (ind. Lab work) Conventional Energy Technology Measurement and Control Engineering Material Science Energy Technology Measurement and Control Engineering	4 Nodule 4 4 4 4 8	1. Sem.	2. Sem.	2 2 2 9 periods p 3. Sem. 4 2 2 2 2	4. Sem.	e 10 E SWS) 5. Sem. 2 2	6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5 5 5 5 5	SU/0 SU/0 Teaching form SU/0 SU/0 SU/0 SU/0 SU/0 SU/0 Pr SU/0/Pr	GMPSchr 90 min. Type of examination and duration GMPschr 90 min. GMPschr 90 min. GMPschr 90 min.	FWP*1 FWP*1 FWP*1 FWP*1 FWP*1
EB-38 Overview ove Module-Nr. EB-22 EB-23 EB-24 EB-26 EB-26 EB-27	EB3117 EB3118 r module and Course-Nr. EB3100 EB3110 EB3111 EB3111 EB3112 EB5111 EB5111 EB4109	Cost Accounting and Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Frocess Engineering Design Engineering Design Engineering Design Engineering Design Engineering Design Engineering Chemical and Biotechnological Process Engineering Design Engineering Design Engineering Chemical and Energy Technology Huid an Energy Technology Measurement and Control Engineering Fundamentals of Measurement and Control Engineering	4 Module 4 4 4 8	1. Sem.	2. Sem.	2 2 2 3. Sem. 4 2 2 2 2 2	4. Sem.	e 10 E SWS) 5. Sem. 2 2	6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5 5 5 5 5	SU/0 SU/0 Teaching form SU/0 SU/0 SU/0 SU/0 SU/0 SU/0 SU/0 Pr SU/0 SU/0	GMPSchr 90 min. Type of examination and duration GMPschr 90 min. GMPschr 90 min. GMPschr 90 min.	FWP*1 FWP*1 FWP*1 FWP*1
EB-38 Overview ove Module-Nr. EB-22 EB-23 EB-24 EB-24 EB-26 EB-27	EB3117 EB3118 r module and Course-Nr. EB3109 EB3110 EB3110 EB3111 EB3112 EB5110 EB5111 EB5112	Cost Accounting and Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Process Engineering Indiamentals of Process Engineering Chemical and Biotechnological Process Engineering Design Engineering and Material Science Design Engineering Rutarial Science Elergy Technology Fluid and Energy Technology Conventional Energy Technology Material Science Fundamentals of Measurement and Control Engineering Applied Measurement Engineering with exercises	4 Module 4 4 4	I. Sem.	2. Sem.	2 2 2 cectives	2 2 4	e 10 E SWS) 5. Sem.	6. Sem.	7. Sem.	5 European Credit Transfer System (ECT5) Module 5 5 5 5 10	SU/Ü SU/Ü Teaching form SU/Ü SU/Ü SU/Ü SU/Ü SU/Ü SU/Ü Pr SU/Ü SU/Ü Pr	GMPSchr 90 min. Type of examination and duration GMPschr 90 min. GMPschr 90 min. GMPschr 90 min. GMPschr 90 min. GMPschr 90 min.	FWP*1 FWP*1 FWP*1 FWP*1 FWP*1 FWP*1
EB-38 Overview ove Module-Nr. EB-22 EB-23 EB-24 EB-24 EB-26 EB-27	EB3117 EB3118 r module and Course-Nr. EB3109 EB3109 EB3110 EB4107 EB5110 EB5110 EB5110 EB5110 EB5112 EB5112 EB5113	Cost Accounting and Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Fracess Engineering Fradamentals of Process Engineering Design Engineering Material Science Design Engineering and Material Science Design Engineering Material Science Energy Technology Fluid and Control Engineering Applied Measurement Engineering with exercises	4 Module 4 4 4 8	I. Sem.	2: Semester	2 2 2 2 3. Sem. 4 4 2 2 2 2	4. Sem.	e 10 E SWS) 5. Sem. 2 2 2 2 2	6. Sem.	7. Sem.	5 European Credit Transfer System (ECTS) Module 5 5 5 5 10	SU/Ü SU/Ü Teaching form SU/Ü SU/Ü SU/Ü SU/Ü SU/Ü/Pr SU/Ü/Pr SU/Ü SU/Ü SU/Ü	GMPSchr 90 min. Type of examination and duration GMPschr 90 min. GMPschr 90 min. GMPschr 90 min. GMPschr 90 min. GMPschr 90 min.	FWP*1 FWP*1 FWP*1 FWP*1 FWP*1 FWP*1 FWP*1 FWP*1
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EB-38 Overview ove Module-Nr. EB-22 EB-24 EB-24 EB-26 EB-26 EB-27 EB-27 EB-28 EB-29 EB-2	EB3117 EB3118 r module and Course-Nr. EB3109 EB3110 EB4107 EB3110 EB5111 EB5111 EB5111 EB5111 EB5112 EB5113 EB5114 EB5112 EB5113 EB5114 EB4109 EB5112 EB5113 EB5114 EB4111 EB4110 EB4111 EB4112 EB5115 EB5116 EB5116 EB5116 EB5116 EB5116 EB5116 EB5116 EB5116 EB5116 EB5116 EB5116 EB5116 EB5118 EB518 EB518 EB518 EB518 EB518 EB518 EB518	Cost Accounting and Budgeting Cost Accounting Budgeting Cost Accounting Budgeting Course numbers, module and courses (SWS and ECTS) Module / Course Electrical Engineering Fundamentals of Electrical Engineering Process Engineering Chemical and Biotechnological Process Engineering Design Engineering and Material Science Design Engineering Course Course Encery Technology (Incl. Lab work) Conventional Energy Technology Massurement and Control Engineering Applied Measurement Engineering Applied Measurement Engineering Applied Measurement Engineering Process Patibility and Work Safety Process Reliability Work Safety Process Reliability EAMAnagement (Value Stream Mapping) and Preform Softmation EAMAnagement Control and Systems Engineering Work Safety Process Optimisation EAMAnagement Control and Systems Engineering With report ination ing/exercises/tutorials idids pre week actions Course Conton Softmation Course Course Conton Softmation Course Course Course Conton Course Conton Course C	4 Module 4 4 4 4 4 4 4 4 4 4 4 4 4	1. Sem.	2. Sem.	2 2 2 2 2 3. Sem. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4. Sem.	e 10 E SWS) 5. Sem. 2 2 2 2 2 2 5. Sem.	6. Sem.	7. Sem. 7. Sem. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	5 European Credit Transfer System (ECTS) Module 5 5 5 5 5 5 5 5 5 5 5 5 5	SU/Ü SU/Ü SU/Ü SU/Ü SU/Ü SU/Ü SU/Ü/Pr SU/Ü/Pr SU/Ü/Pr SU/Ü/Pr SU/Ü/Pr SU/Ü/Pr SU/Ü/Pr SU/Ü/Pr	GMPSchr 90 min. GMPschr 90 min.	FWP*1 FW

Appendix 3 Attendance requirements for the Bachelor's study programme in Industrial Engineering at Technische Hochschule Deggendorf / European Campus Rottal Inn

Module	ule Course Justification for attendance requirement		Necessary attendance	Consequences	
EB-12	Project with report	Projects and practical designs can only be carried out if active participation is guaranteed	At least 75 % of sessions offered. In justified cases of absence, substitute tasks are possible	Project work is graded as "fail"	