This English translation of Section 60 *Masterstudiengang Innovation Engineering's* study and examinations regulations (SPO) is intended solely as a convenience to non-German-readers. Only the German text published is legally binding. In the event of any conflict between the English and German text, its structure, meaning or interpretation, the German text, its structure, meaning or interpretation shall prevail.

Section 60 master programme Innovation Engineering

(1) The Innovation Engineering study programme comprises three curricular semesters.

(2) The total volume of both elective and compulsory modules required for the successful completion of the programme is 90 credit points (ECTS).

(3) The study programme offers two specialisations, Product Innovation (PI) and Business Innovation (BI). Each has its own focus and requirements. Therefore, the specialisation has to be selected at the time of application for the study programme.

(4) Those compulsory modules required for the successful completion of the study programme as well as the corresponding graded and non-graded assessments are listed in table 2. Table 1 shows an overview of the module structure. Where indicated (PI / BI), the module in question is part of that specialisation and will have to be taken for the successful completion of the degree. Modules which are not marked in this way, have to be completed for either specialisation.

(5) First semester modules/courses take place during the winter semester (October to February), second semester modules/courses take place during the summer semester (March to August). Modules which are part of both specialisations will take place every semester; this will also apply to some of such a module's courses. Only the BI modules are taught in English, the PI modules are taught in German. Any course not expressly marked as PI or BI, will be taught in English. For details, confer table 2.

table 1: module structure

module/ semester	1	2	3	4	5
3	Scholarly Publishing	compulsory elective module	thesis		
2	specialisation module 5	specialisation module 6	specialisation module 7	specialisation module 8	innovation project
1	specialisation module 1	specialisation module 2	specialisation module 3	specialisation module 4	

table 2: Innovation Engineering (curricular semester 1- 3)

module	title	type	volume (SWS)	graded assessment	non-graded assessment	credits (LP)
curricular semester 1 **Product Innovation** (German)						**30**
specialisation module 1 (6 LP): Produktentstehung (PI)						
Produktentstehung (PI) (6 LP)						
	Ganzheitliche Produktentstehung (PI)	V/W	2			
	Innovationsplanung (PI)	V/W	2			
	module exam Produktentstehung	Pr		1K		6
specialisation module 2 (6 LP): Mechatronische Produkte (PI)						
Mechatronische Produkte (PI) (6 LP)						
	Mechatronik (PI)	V/S	2			
	Produktsicherheit (PI)	V/S	2			
	module exam Mechatronische Produkte	Pr		1K		6
specialisation module 3 (6 LP): Produktion (PI)						
Produktion (PI) (6 LP)						
	Innovative Prozesstechnik (PI)	S	2	1M		3
	Smart Factory (PI)	S/P	2	1sbaA		3
specialisation module 4 (6 LP): Strategie & Leadership (PI)						
Strategie und Leadership (PI) (6 LP)						
	Strategisches Management (PI)	W	2	1sbPN		3
	Leadership (PI)	V/W	2	1sbPN		3
innovation project (part 1) (6 of 12 LP)						
	project seminar 1	S	2	1ST		6

module	title	type	volume (SWS)	graded assessment	non-graded assessment	credits (LP)
curricular semester 1 **Business Innovation** (English)						**30**
specialisation module 1 (6 LP): Solution Design (BI)						
Solution Design (BI) (6 LP)						
	Design Thinking (BI)	W	2	1sbaA		3
	Usability / UX (BI)	V/S	2	1sbaA		3
specialisation module 2 (6 LP): Business Transformation (BI)						
Business Transformation (BI) (6 LP)						
	Business Models and Transformation (BI)	V/Ü	2	1R		3
	International Business Development (BI)	V	2	1sbST		3
specialisation module 3 (6 LP): Digital Solutions (BI)						
Digital Solutions (BI) (6 LP)						
	Artificial Intelligence – Basics (BI)	V/Ü	2	1K (45 Min.)	1sbA	3
	Immersive Technologies (BI)	V/S	2	1sbaA		3
specialisation module 4 (6 LP): Systems & Innovation (BI)						
Systems and Innovation (BI) (6 LP)						
	Modelling and Systems Cybernetics (BI)	V/S	2	1sbR		3
	International Innovation Workshop (BI)	W	2	1sbPN		3
innovation project (part 1) (6 of 12 LP)						
	project seminar 1	S	2	1ST		6

module	title	type	volume (SWS)	graded assessment	non-graded assessment	credits (LP)
curricular semester 2 **Product Innovation** (German)						**30**
innovation project (part 2) (6 of 12 LP)						
	project seminar 2	S	2	1ST		6
specialisation module 5 (6 LP): Solution Design (PI)						
Solution Design (PI) (6 LP)						
	Design Thinking (PI)	W	2	1sbaA		3
	Usability / UX (PI)	V/S	2	1sbaA		3
specialisation module 6 (6 LP): Methoden und Technologien (PI)						
Methoden und Technologien (PI) (6 LP)						
	CAx-Methoden (PI)	V/W	2	1K (120 Min.)		3
	Leichtbau (PI)	V/S	2	1sbA (50%), 1sbK (50%, 45 Min.)[1]		3
specialisation module 7 (6 LP): Software-basierte Produkte (PI)						
Software-basierte Produkte (PI) (6 LP)						
	Datenverarbeitung und Modellierung (PI)	V/Ü	2		1sbA	1
	Künstliche Intelligenz – Anwendungen (PI)	V/Ü	2		1sbA	1
	module exam *Software-basierte Produkte*	Pr		1K		4
specialisation module 8 (6 LP): Business Transformation (PI)						
Business Transformation (PI) (6 LP)						
	Geschäftsmodelle und Transformation (PI)	V/Ü	2	1R		3
	International Business Development (PI)	V	2	1sbST		3

module	title	type	volume (SWS)	graded assessment	non-graded assessment	credits (LP)
curricular semester 2 **Business Innovation** (English)						**30**
innovation project (part 2) (6 of 12 LP)						
	project seminar 2	S	2	1ST		6
specialisation module 5 (6 LP): Business Management (BI)						
Business Management (BI) (6 LP)						
	Strategic Management (BI)	V	2	1K		3
	Industrial Competences (BI)	V/P	2	1H		3
specialisation module 6 (6 LP): Business Engineering (BI)						
Business Engineering (BI) (6 LP)						
	Business Process Management (BI)	V/S	2			
	Service Engineering (BI)	V/Ü	2			
	module exam Business Engineering	Pr		1K (180 Min.)		6
specialisation module 7 (6 LP): Operational Excellence (BI)						
Operational Excellence (BI) (6 LP)						
	Asset Management (BI)	V/Ü	2			
	Quality Management & Controlling (BI)	V/Ü	2			
	module exam Operational Excellence	Pr		1K		6
specialisation module 8 (6 LP): Digital Production (BI)						
Digital Production (BI) (6 LP)						
	Service Technologies (BI)	S/P	2	1sbaA		3
	Smart Factory (BI)	S/P	2	1sbaA		3

module	title	type	volume (SWS)	graded assessment	non-graded assessment	credits (LP)
curricular semester 3 **Product Innovation/ Business Innovation** (German or English)						**30**
Scholarly Publishing (3 LP)						
	Scholarly Publishing	V/W	1	1sbH		3
compulsory elective module (6 LP)						
	compulsory elective modules with a total volume of 6 credits (ECTS) (BI / PI)			PL		6
thesis (21 LP)						
	thesis (BI / PI)			1T (90%), 1PN (10%)[1]		21
total						**90**

1 you will only pass the entire graded assessment if you have achieved at least a grade of "*ausreichend*" (4,0 = sufficient) for each of the assessment parts. If a fail grade is awarded, you will have to and you may only re-take the failed assessment part(s).

2 If you have failed a non-graded assessment, you will have to and may only re-take the failed non-graded assessment.