

Verkündungsblatt 08/2019

25.11.2019

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HAWK

HOCHSCHULE

FÜR ANGEWANDTE WISSENSCHAFT UND KUNST

Hildesheim/Holzminde n/Göttingen

University of Applied Sciences and Arts

Prüfungsordnung für den Bachelorstudiengang Green Building – Gebäudetechnik, Energieeffizienz, Mensch und Umwelt (Besonderer Teil)

Fakultät Management, Soziale Arbeit, Bauen

Der Fakultätsrat der Fakultät Management, Soziale Arbeit, Bauen der HAWK Hochschule für angewandte Wissenschaft und Kunst Hildesheim/Holzminde n/Göttingen hat am 23. Oktober 2019 die Ordnung über den Besonderen Teil der Prüfungsordnung für den Bachelorstudiengang Green Building – Gebäudetechnik, Energieeffizienz, Mensch und Umwelt beschlossen. Die Ordnung wurde am 18. November 2019 vom Präsidium der Hochschule gemäß § 37 Absatz 1 Satz 3 Ziffer 5b) NHG genehmigt. Die hochschulöffentliche Bekanntmachung erfolgte am 25. November 2019.

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§ 1 Dauer und Verlauf des Studiums

- (1) Die Regelstudienzeit des Bachelorstudiengangs Green Building – Gebäudetechnik, Energieeffizienz, Mensch und Umwelt beträgt sieben Semester.
- (2) Der Gesamtumfang der Pflicht- und Wahlpflichtbereiche beträgt 210 Leistungspunkte (Credits). Das Studium setzt sich aus Pflichtmodulen im Umfang von 171 Leistungspunkten sowie Wahlpflichtmodulen im Umfang von 39 Leistungspunkten zusammen (QM I bis IV 24 Leistungspunkte, WPM I bis III neun Leistungspunkte, HAWK plus sechs Leistungspunkte). Studienverlauf und Workload der Module werden in Anlage 1 aufgezeigt. Er gilt für Studierende, die zum Wintersemester in das erste Fachsemester immatrikuliert werden. Für Studierende, die zum Sommersemester in das erste Fachsemester immatrikuliert werden, werden die in der Anlage 1 dargestellten Module gemäß zugehörigem Studienverlaufsplan in anderer Reihenfolge studiert.
- (3) Wählbare Studienprofile sind „Baukonstruktion und Bautechnik“ und „TGA - Digitale Planung“. Insgesamt sind 24 Leistungspunkte aus dem Angebot der Qualifizierungsmodule zu absolvieren. Ein Studienprofil wird im Abschlusszeugnis bescheinigt, wenn mindestens 18 Leistungspunkte im entsprechenden Studienprofil absolviert wurden.

§ 2 Prüfungen

- (1) Die für die Bachelorprüfung zu erbringenden Prüfungen werden studienbegleitend erbracht. Der Modulübersicht (Anlage 1) ist zu entnehmen, welche Prüfungsformen einem Modul zugeordnet sind und ob es sich um benotete Prüfungs- oder unbenotete Studienleistungen handelt. Neben der Art der Prüfung ist in den Modulbeschreibungen bei zusammengesetzten Modulprüfungen die Gewichtung ausgewiesen, mit der die Gesamtmodulnote zu berechnen ist.
- (2) Ist in den Modulbeschreibungen eine Studienleistung als Prüfungsvorleistung (PVL) vorgesehen, so ist das Bestehen dieser Prüfungsvorleistung neben dem Vorliegen der Voraussetzungen gemäß § 8 des Allgemeinen Teils der Prüfungsordnung für die Zulassung zur Noten bildenden Modulabschlussprüfung erforderlich.
- (3) Für die Vergabe der Noten gemäß Absatz 4 gilt – unter Beachtung der Rundung auf eine Nachkommastelle - folgendes Bewertungsschema:

bei 95,5 % bis 100 % der erreichbaren Leistung	= 1,0
bei 90,9 % bis 95,4 % der erreichbaren Leistung	= 1,3
bei 84,8 % bis 90,8 % der erreichbaren Leistung	= 1,7
bei 80,3 % bis 84,7 % der erreichbaren Leistung	= 2,0
bei 75,8 % bis 80,2 % der erreichbaren Leistung	= 2,3
bei 69,7 % bis 75,7 % der erreichbaren Leistung	= 2,7
bei 65,2 % bis 69,6 % der erreichbaren Leistung	= 3,0
bei 60,6 % bis 65,1 % der erreichbaren Leistung	= 3,3
bei 54,5 % bis 60,5 % der erreichbaren Leistung	= 3,7
bei 50,0 % bis 54,4 % der erreichbaren Leistung	= 4,0
und bei weniger als 50 % der erreichbaren Leistung	= 5,0 (nicht bestanden)
- (4) Abweichend von § 15 Absatz 2 der Prüfungsordnung Allgemeiner Teil 2019 findet keine Pflichtanmeldung zur ersten Wiederholungsprüfung statt. Eine nicht bestandene Modulprüfung nach § 15 Absatz 1 der Prüfungsordnung Allgemeiner Teil soll jedoch in der Regel im Rahmen der regulären Prüfungstermine innerhalb der nächsten beiden Semester in der gleichen Art und Dauer wiederholt werden.

§ 3 Praxismodul

- (1) Die Zulassung zum Praxismodul (Modul GB7 604) erfolgt auf Antrag, welcher in Form einer Modulmeldung innerhalb der hierfür laut Semesterzeitplan vorgesehenen Fristen in der Prüfungsverwaltung einzureichen ist.
- (2) Zum Praxismodul wird zugelassen, wer bis dahin alle Module der ersten beiden Fachsemester bestanden und mindestens 132 Leistungspunkte erreicht hat. Näheres regeln Modulbeschreibung sowie Praxisleitfaden in ihrer jeweils gültigen Form.

§ 4 Bachelorarbeit und Kolloquium

- (1) Die Bearbeitungszeit für die Bachelorarbeit (Modul GB7 904) beträgt sieben Wochen.
- (2) Eine Zulassung zum Modul Bachelorarbeit ist erst möglich, wenn alle Leistungspunkte bis auf die Leistungspunkte der Abschlussarbeit selbst, die Leistungspunkte der Module des Abschlussessemesters sowie die Leistungspunkte eines weiteren Moduls erbracht sind. Das offene Modul darf nicht aus den ersten beiden Fachsemestern stammen. Für das im letzten Fachsemester angesiedelte Praxismodul muss die Zulassung erteilt worden sein. Es muss ferner durch einen aussagekräftigen Nachweis (z.B. Praktikumsvertrag) erkennbar sein, dass der Pflichtteil des Praktikums rechtzeitig vor Ausgabe des Bachelorthemas abgeschlossen sein wird. Dieser Nachweis ist gemeinsam mit dem Zulassungsantrag zur Bachelorarbeit in der Prüfungsverwaltung einzureichen.
- (3) Im Antrag auf Zulassung zur Bachelorarbeit (Modulanmeldung) ist der Themenbereich der Aufgabenstellung für die Bachelorarbeit sowie die/der Erstprüfende zu nennen. Es ist ferner die Unterschrift der/des Erstprüfenden einzuholen.
- (4) Zum Kolloquium wird zugelassen, wessen Bachelorarbeit von beiden Prüfenden vorläufig mit mindestens ausreichend bewertet wurde. Eine Zulassung zum Kolloquium ist bereits dann möglich, wenn die Modulprüfung im gemäß Absatz 2 zulässigerweise noch offenen weiteren Fachmodul aussteht.
- (5) Das Kolloquium soll in der Regel innerhalb von sechs Wochen nach Abgabe der Bachelorarbeit durchgeführt werden.
- (6) § 21 Absatz 4 der Prüfungsordnung Allgemeiner Teil 2019 wird ersetzt durch folgenden Text: Die Betreuung der Abschlussarbeit kann von jedem Mitglied der Professor/inn/engruppe der Fakultät übernommen werden. Mit Zustimmung der Prüfungskommission kann die Betreuung auch von einer/einem Professor/in vorgenommen werden, die oder der nicht Mitglied dieser Fakultät ist. Sie kann auch von anderen Prüfer/inne/n nach § 5 Absatz 1 und 2 der der Prüfungsordnung Allgemeiner Teil 2019 übernommen werden. In der Regel muss die oder der Erstprüfende lehrende/r Professor/in sein.

§ 5 Hochschulgrad, Zeugnis

- (1) Der Studiengang schließt mit dem Kolloquium zur Bachelorarbeit oder mit dem Abschluss des im gemäß Absatz 2 zulässigerweise noch offenen Fachmoduls ab.
- (2) Die Hochschule verleiht zum Abschluss den Hochschulgrad Bachelor of Engineering, abgekürzt B.Eng. Hierüber stellt die Hochschule eine Urkunde mit dem Datum des Zeugnisses aus (Anlage 2). Ein Muster des Bachelorzeugnisses enthält Anlage 3. Gleichzeitig mit dem Zeugnis wird der/dem Studierenden ein Diploma Supplement (Anlage 4) ausgehändigt.

§ 6 Inkrafttreten und Übergangsregelungen

- (1) Diese Prüfungsordnung tritt am Tag nach ihrer hochschulöffentlichen Bekanntmachung in Kraft.
- (2) Sie gilt erstmalig für Studierende, die ihr Studium zum Wintersemester 2019/2020 im ersten Fachsemester begonnen haben bzw. für Studierende, die in Folgesemestern in das jeweils gleiche Fachsemester zugelassen werden wie die Studienanfänger des Wintersemesters 2019/2020. Für Studierende, die zum Wintersemester 2019/2020 in ein höheres Fachsemester zugelassen werden, gilt die bisherige Prüfungsordnung 2012 (in der Fassung von 2016).
- (3) Der Regelstudienbetrieb wird den Studierenden für die Dauer der in dieser Ordnung vorgesehenen Regelstudienzeit zuzüglich von zwei weiteren Semestern gewährleistet. Dann erfolgt eine Überführung in die neue Ordnung.

Anlage 1: Modulübersicht

a) Modulübersicht (siehe § 1 Absatz 2 Sätze 5 und 6)

Modul-Nr.	Modulname	LP/Semester							Work-load	Prüfungsform
		1	2	3	4	5	6	7		
GB1_016	DV und CAD in der Gebäudetechnik	6							180	K3/K1,5+ST/ST
GB1_012	Mathematik	6							180	K2
GB1_130	Green Building - Mensch, Umwelt, Gebäude	6							180	PF/IR
GB1_011	Grundlagen des Rechts	3							90	K1,5/ST
GB1_7XX	Wahlpflichtmodul IPS I	3							90	<i>individuell</i>
GB1_017	Grundlagen der Elektro- und Messtechnik	6							180	K2+R+LB*/K2+LB*
GB2_131	Energieoptimiertes Bauen		6						180	ST/PA
GB2_132	Thermodynamik und Wärmeübertragung		6						180	K3/M
GB2_133	Bauphysik – Brandschutz, Raumklima, Schallschutz		6						180	K2+LB*
GB2_134	Sanitär- und Lichttechnik		6						180	ST/PA
GB2_511	Projekt Energieoptimiertes Bauen		6						180	PA
GB3_135	Heizung und Kälte			6					180	K3+LB*/M+LB*
GB3_201	Einführung in das Baumanagement und AVA			6					180	K2
GB3_41X	Qualifizierungsmodul QM I			6					180	<i>s. Tabelle unter b)</i>
GB3_136	Lüftung und Klima			6					180	K3+LB*/M+LB*
GB3_512	Projekt TGA			6					180	R/ST/EDRP/PB
GB4_137	Grundlagen der Energietechnik				6				180	K2+LB*/K1,5+PR+LB*/R+LB*
GB4_138	Energetische Bilanzierung und Gebäudesimulation				6				180	EDRP/M
GB4_42X	Qualifizierungsmodul QM II				6				180	<i>s. Tabelle unter b)</i>
GB4_202	Vertragsrecht				3				90	K1,5/ST
GB4_8XX	Wahlpflichtmodul WPM I				3				90	<i>s. Tabelle unter c)</i>
GB4_513	Projekt Gebäude und Anlagen				6				180	FS+PR/PA+PR/R
GB5_139	Ressourcenschonende Energietechnik					6			180	K3/K1,5+PR/R
GB5_205	Kostenrechnung/Kalkulation					6			180	K2/K1+ST
GB5_43X	Qualifizierungsmodul QM III					6			180	<i>s. Tabelle unter b)</i>
GB5_211	Wirtschaftlichkeitsanalysen					3			90	R/ST/M/K1,5
GB5_8XX	Wahlpflichtmodul WPM II					3			90	<i>s. Tabelle unter c)</i>
GB5_514	Projekt Simulation					6			180	R/ST/EDRP/PB
GB6_140	Energieeffizienz						6		180	PA/R/K1,5+PR
GB6_141	Nachhaltigkeitsbewertung						6		180	K2/R/M
GB6_44X	Qualifizierungsmodul QM IV						6		180	<i>s. Tabelle unter b)</i>

GB6_7XX	Wahlpflichtmodul IPS II							3		90	<i>individuell</i>
GB6_7XX	Wahlpflichtmodul WPM III							3		90	<i>s. Tabelle unter c)</i>
GB6_515	Projekt Nachhaltigkeit							6		180	R/ST/EDRP/PB
GB7_604	Praxismodul								18	540	PB+PR
GB7_904	Bachelorarbeit								12	360	Bachelorarbeit mit Kolloquium

b) Modulübersicht über die Qualifizierungsmodule QM I, QM II, QM III, QM IV (siehe § 1 Absatz 3)

Modul-Nr.	Modulname	LP/Semester							Work-load	Prüfungsform	
		1	2	3	4	5	6	7			
Studienprofil Baukonstruktion und Bautechnik											
GB3_411	Grundlagen der Tragwerkslehre			6						180	K2+ST
GB4_421	Nachhaltigkeit von Baustoffen				6					180	K2+LB*
GB5_431	Nachhaltigkeit von Konstruktionen					6				180	K3+LB*/R+LB*/M+LB*
GB6_441	Tragwerkslehre/ Konstruktives Entwerfen							6		180	K2+ST
Studienprofil TGA – Digitale Planung											
GB3_412	Fluidmechanik und Strömungsmaschinen			6						180	K2+LB*/M+LB*
GB4_422	Energie- und Anlagenplanung				6					180	EDRP/M/R
GB5_432	Gebäudeautomation und angewandte Regelungstechnik					6				180	K2+LB*/R+LB*/M+LB*
GB6_442	Wärmepumpentechnik und Anlagensimulation							6		180	K2+PA/M+PA/K2+R

c) Modulübersicht über die Wahlpflichtmodule WPM I, WPM II, WPM III (siehe § 1 Absatz 2)**.

Modul-Nr.	Modulname	LP/Semester							Workload	Prüfungsform
		1	2	3	4	5	6	7		
GB4_811	Ausgewählte Kapitel des nachhaltigen Bauens				3				90	R/PR/PB/M/K2
GB4_812	IT-Tutorials				3				90	R/PR/EDRP/M/K1,5
GB4_813	Technisches Englisch				3				90	K1
GB5_821	Ausgewählte Kapitel des Bauwesens					3			90	R/K2
GB5_822	Elektrotechnik im Gebäude					3			90	R+LB*/ST+LB*/M+LB*/K1,5+LB*
GB5_823	Technisches Facility Management					3			90	K1,5/ST/R
GB6_831	Ausgewählte Kapitel der Lüftungs- und Klimatechnik						3		90	R/PR/M/PB/K2
GB6_832	Ausgewählte Kapitel der Heizungs- und Kältetechnik						3		90	R+LB*/PR+LB*/M+LB*/K2+LB*
GB6_833	Ausgewählte Kapitel der regenerativen Energieerzeugung						3		90	R/PR/PA/M

**Das konkrete Modulangebot richtet sich nach Studierendenzahlen und Personalverfügbarkeit.

d) Abkürzungen für die Prüfungsformen (siehe § 8 Absatz 3 Prüfungsordnung Allgemeiner Teil):

Abkürzung	Bezeichnung
*	Studienleistung (alle anderen sind Prüfungsleistungen)
/	Der Schrägstrich trennt alternative Varianten der vorgesehenen Prüfungsformen.
FS	Fallstudie
IR	Internetrecherche
K2	Klausur (2 Stunden)
LB	Laborbericht
M	Mündliche Prüfung
PR	Präsentation
PA	Projektarbeit
PB	Praktikumsbericht
PF	Portfolio
R	Referat
EDRP	Erstellung und Dokumentation von Rechnerprogrammen
ST	Studienarbeit

Anlage 2: Bachelorurkunde

BACHELORURKUNDE

**Die HAWK
Hochschule für angewandte Wissenschaft und Kunst
Hildesheim/Holzminden/Göttingen
Fakultät Management, Soziale Arbeit, Bauen**

verleiht mit dieser Urkunde

Frau/Herrn **«Vorname» «Nachname»**
geboren am «Geburtsdatum» in «Geburtsort»

den Hochschulgrad **Bachelor of Engineering**
abgekürzt B. Eng.,
nachdem sie/er die Abschlussprüfung im Studiengang

**Green Building –
Gebäudetechnik, Energieeffizienz, Mensch und Umwelt**

bestanden hat.

Holzminden, den «Datum»

«Dekan/in»
Dekan/in

«Studiendekan/in»
Studiendekan/in

Anlage 3: Bachelorzeugnis

BACHELORZEUGNIS

Frau **«Vorname» «Nachname»**
 geboren am «Geburtsdatum» in «Geburtsort»

hat die Bachelorprüfung im Studiengang

**Green Building –
 Gebäudetechnik, Energieeffizienz, Mensch und Umwelt**

der Fakultät Management, Soziale Arbeit, Bauen
 bestanden.

Thema der Bachelorthesis:

Abschlussprüfung	Credits	Gesamtnote
	000	0,0 (in Worten)

Die Gesamtnote ergibt sich aus den Modulnoten (gemäß Anlage zum Bachelorzeugnis),
 die im Verhältnis der auf sie entfallenden Credits gewichtet werden.

Holzminde/n, den «PruefDatum»

«Studiendekan/in»
 Studiendekan/in

Notenstufen: 1,0 bis 1,50 = Sehr Gut; 1,51 bis 2,50 = Gut; 2,51 bis 3,50 = Befriedigend; 3,51 bis 4,0 = Ausreichend

Anlage 4: Diploma Supplement

DIPLOMA SUPPLEMENT

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

1. Holder of the Qualification

- | | | |
|-----|-------------------------------|-------------------------------------|
| 1.1 | Family Name | Nachname |
| 1.2 | First Name | Vorname |
| 1.3 | Date, Place, Country of Birth | oo.oo.oooo, Geburtsort, Land |
| 1.4 | Student ID Number or Code | oooooo |

2. Qualification

- 2.1 Name of Qualification (in original language)
Bachelor of Engineering– B.Eng.
Title Conferred
Bachelor of Engineering/B.Eng. Green Building – Gebäudetechnik, Energieeffizienz, Mensch und Umwelt
(Bachelor of Engineering/B.Eng. Green Building– Building Services, Energy Efficiency, Human and Environment)
- 2.2 Main Field(s) of Study
Green building engineering - building services engineering, energy efficiency, human and environment
- 2.3 Institution Awarding the Qualification (in original language)
HAWK Hochschule für angewandte Wissenschaft und Kunst
Hildesheim/Holzminde n/Göttingen
Fakultät Management, Soziale Arbeit, Bauen
Status (Type / Control)
University of Applied Sciences and Arts / State Institution
- 2.4 Institution Administering Studies (in original language)
[as above]
Status (Type / Control)
[as above]
- 2.5 Language(s) of Instruction/Examination
German

3. Level of the Qualification

- 3.1 Level of Qualification
Bachelor programme, undergraduate, first degree, by research with thesis
- 3.2 Official Length of Programme

Three and a half years, 7 semesters, 210 ECTS

- 3.3 Access Requirement(s)
General Higher Education Entrance Qualification or Entrance Qualification to Universities of Applied Sciences, or foreign equivalent.

4. Contents and Results gained

- 4.1 Mode of Study
Full Time Study
In the event of part-time study (individual application required), the official length of the programme will be extended accordingly.

- 4.2 Programme Requirements
Planning, projecting and managing of high efficient sustainable buildings are the main abilities of the graduates which can be intensified by passing one of two offered profiles:

Common Competences:

Common competences of the graduates of both profiles are coordination, presentation and organization in relation to all building systems, planning duties, general skills in language (technical English), methods (mathematics, statistics, data processing) and individual abilities (decision-making, conflict-solving, team work, presentation).

The graduate is able to analyse and to assess problems from technical and economical point of view without neglecting social and ecological interests.

Due to the interdisciplinary aspect of the study, graduates have the ability to coordinate different fields of planning, designing and operating as well as managing buildings and technical service installations by respecting energy efficiency.

The graduate of the profile Sustainability has special knowledge of planning and evaluating the sustainability of materials, buildings and quarters.

Furthermore the graduate has the knowledge of designing buildings and to apply building efficiency calculations in the context of Information Modelling (BIM).

The graduate of the profile Digital Planning has special knowledge of planning building technologies, building services and energy supply and is able to apply thermal and plant simulations as well as heat transfer calculations.

Hereinafter graduates knowledge and abilities are explained in detail.

Common competences:

Mathematics, data handling, CAD, building physics, electrical engineering, thermodynamics and heat flux, human resources.

Energy efficiency building, Heating and Cooling, Ventilation and air conditioning, energy engineering, energy calculation and simulation, energy efficiency, renewable energies.

Building management, economics and accounting.

Profile Building Construction and Building Technologies:

Theoretical knowledge and practical skills related to planning, layout and operation sustainable buildings in following disciplines:

Green Building engineering, structural design, sustainability of materials and constructions, construction drafting, Sustainable building evaluation.

Profile Digital Planning of Building Services:

Theoretical knowledge and practical skills related to planning, layout and operation of technical systems and plants in following disciplines:

Fluid mechanics and flow machines, Energy and plant design, Building automation and applied cybernetics, Heat pump technologies, Energy technics, energy efficiency, energy

management, Heating, ventilation and air conditioning (HVAC), Thermal building simulation, Plant simulation.

39 credits of personal choice (including chosen profile).

10 weeks of external practical training and a bachelor thesis.

4.3 Programme Details

Please refer to the Final Examination Certificate (Bachelorzeugnis) for a list of courses and grades.

4.4 Grading Scheme

Absolute grading scheme: "Sehr Gut" (1,0; 1,3) = Very Good; "Gut" (1,7; 2,0; 2,3) = Good; "Befriedigend" (2,7; 3,0; 3,3) = Satisfactory; "Ausreichend" (3,7; 4,0) = Pass; "Nicht ausreichend" (5,0) = Fail

Statistical distribution of grades: **grading table**

4.5 Overall Classification

0,0

The final grade is based on the grades awarded during the study programme and that of the final thesis (with oral component). Please refer to the Final Examination Certificate (Bachelorzeugnis).

When there are no marks given, not enough results are available yet to determine ECTS-grades.

5. **Function of the Qualification**

5.1 Access to Further Study

Qualifies to apply for admission for master programs – Prerequisite: In compliance with the requirements of the respective universities or universities of applied sciences and arts.

5.2 Professional Status

The Bachelor-degree in Green Building entitles its holder to the legally protected professional title "Bachelor of Science" and to exercise professional work in the field(s) for which the degree was awarded.

6. **Additional Information**

6.1 Additional Information

Non-academic acquired competencies were credited in an amount of **00** credits in the following modules: ...

6.2 Additional Information Sources

www.hawk.de

7. **Certification**

This Diploma Supplement refers to the following original documents:

Bachelorurkunde (Degree Certificate) dated from **00.00.0000**

Bachelorzeugnis (Final Examination Certificate) dated from **00.00.0000**

Transcript of Records dated from **00.00.0000**

Certification Date: **Ort, 00.00.0000**

(Official Seal / Stamp)

Dean of Study

8. Information on the German Higher Education Systemⁱ

8.1 Types of Institutions and Institutional Status

Higher education (HE) studies in Germany are offered at three types of Higher Education Institutions (HEI).ⁱⁱ

- *Universitäten* (Universities) including various specialized institutions, offer the whole range of academic disciplines. In the German tradition, universities focus in particular on basic research so that advanced stages of study have mainly theoretical orientation and research-oriented components.

- *Fachhochschulen* (Universities of Applied Sciences) concentrate their study programmes in engineering and other technical disciplines, business-related studies, social work, and design areas. The common mission of applied research and development implies an application-oriented focus of studies, which includes integrated and supervised work assignments in industry, enterprises or other relevant institutions.

- *Kunst- und Musikhochschulen* (Universities of Art/Music) offer studies for artistic careers in fine arts, performing arts and music; in such fields as directing, production, writing in theatre, film, and other media; and in a variety of design areas, architecture, media and communication.

Higher Education Institutions are either state or state-recognized institutions. In their operations, including the organization of studies and the designation and award of degrees, they are both subject to higher education legislation.

8.2 Types of Programmes and Degrees Awarded

Studies in all three types of institutions have traditionally been offered in integrated "long" (one-tier) programmes leading to Diplom- or Magister Artium degrees or completed by a Staatsprüfung (State Examination).

Within the framework of the Bologna-Process one-tier study programmes are successively being replaced by a two-tier study system. Since 1998, two-tier degrees (Bachelor and Master) have been introduced in almost all study programmes. This change is designed to provide enlarged variety and flexibility to students in planning and pursuing educational objectives, they also enhance international compatibility of studies.

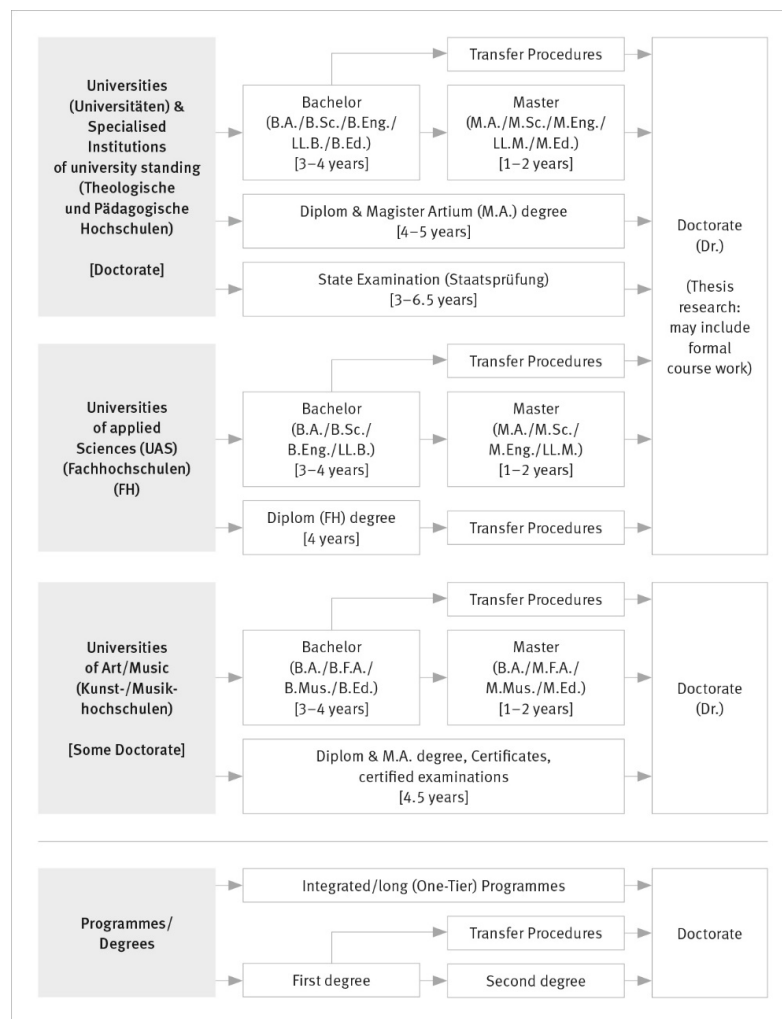
The German Qualifications Framework for Higher Education Degreesⁱⁱⁱ, the German Qualifications Framework for Lifelong Learning^{iv} and the European Qualifications Framework for Lifelong Learning^v describe the degrees of the German Higher Education System.

They contain the classification of the qualification levels as well as the resulting qualifications and competencies of the graduates.

For details cf. Sec. 8.4.1, 8.4.2, and 8.4.3 respectively. Table 1 provides a synoptic summary.

8.3 Approval/Accreditation of Programmes and Degrees

To ensure quality and comparability of qualifications, the organization of studies and general degree requirements have to conform to principles and regulations established by the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany (KMK).^{vi} In 1999, a system of accreditation for programmes of study has become operational under the control of an Accreditation Council at national level. All new programmes have to be accredited under this scheme; after a successful accreditation they receive the quality-label of the Accreditation Council.^{vii}



8.4 Organization and Structure of Studies

The following programmes apply to all three types of institutions. Bachelor's and Master's study courses may be studied consecutively, at various higher education institutions, at different types of higher education institutions and with phases of professional work between the first and the second qualification. The organization of the study programmes makes use of modular components and of the European Credit Transfer and Accumulation System (ECTS) with 30 credits corresponding to one semester.

8.4.1 Bachelor

Bachelor degree study programmes lay the academic foundations, provide methodological skills and lead to qualifications related to the professional field. The Bachelor degree is awarded after 3 to 4 years. The Bachelor degree programme includes a thesis requirement. Study courses leading to the Bachelor degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.^{viii} First degree programmes (Bachelor) lead to Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.), Bachelor of Engineering (B.Eng.), Bachelor of Laws (LL.B.), Bachelor of Fine Arts (B.F.A.), Bachelor of Music (B.Mus.) or Bachelor of Education (B.Ed.).

The Bachelor degree corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

8.4.2 Master

Master is the second degree after another 1 to 2 years. Master study programmes may be differentiated by the profile types "practice-oriented" and "research-oriented". Higher Education Institutions define the profile. The Master degree study programme includes a thesis requirement. Study programmes leading to the Master degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.^{ix} Second degree programmes (Master) lead to Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Laws (L.L.M.), Master of Fine Arts (M.F.A.), Master of Music (M.Mus.) or Master of Education (M.Ed.). Master study programmes which are designed for continuing education may carry other designations (e.g. MBA).

The Master degree corresponds to level 7 of the German Qualifications Framework/ European Qualifications Framework.

8.4.3 Integrated "Long" Programmes (One-Tier): Diplom degrees, Magister Artium, Staatsprüfung

An integrated study programme is either mono-disciplinary (*Diplom* degrees, most programmes completed by a *Staatsprüfung*) or comprises a combination of either two major or one major and two minor fields (*Magister Artium*). The first stage (1.5 to 2 years) focuses on broad orientations and foundations of the field(s) of study. An Intermediate Examination (*Diplom-Vorprüfung* for *Diplom* degrees; *Zwischenprüfung* or credit requirements for the *Magister Artium*) is prerequisite to enter the second stage of advanced studies and specializations. Degree requirements include submission of a thesis (up to 6 months duration) and comprehensive final written and oral examinations. Similar regulations apply to studies leading to a *Staatsprüfung*. The level of qualification is equivalent to the Master level.

- Integrated studies at *Universitäten (U)* last 4 to 5 years (*Diplom* degree, *Magister Artium*) or 3 to 6.5 years (*Staatsprüfung*). The *Diplom* degree is awarded in engineering disciplines, the natural sciences as well as economics and business. In the humanities, the corresponding degree is usually the *Magister Artium* (M.A.). In the social sciences, the practice varies as a matter of institutional traditions. Studies preparing for the legal, medical and pharmaceutical professions are completed by a *Staatsprüfung*. This applies also to studies preparing for teaching professions of some *Länder*.

The three qualifications (*Diplom*, *Magister Artium* and *Staatsprüfung*) are academically equivalent and correspond to level 7 of the German Qualifications Framework/ European Qualifications Framework.

They qualify to apply for admission to doctoral studies. Further prerequisites for admission may be defined by the Higher Education Institution, cf. Sec. 8.5.

- Integrated studies at *Fachhochschulen (FH)*/Universities of Applied Sciences (UAS) last 4 years and lead to a *Diplom (FH)* degree which corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

While the *FH*/UAS are non-doctorate granting institutions, qualified graduates may apply for admission to doctoral studies at doctorate-granting institutions, cf. Sec. 8.5.

- Studies at *Kunst- and Musikhochschulen* (Universities of Art/Music etc.) are more diverse in their organization, depending on the field and individual objectives. In addition to *Diplom/Magister* degrees, the integrated study programme awards include Certificates and certified examinations for specialized areas and professional purposes.

8.5 Doctorate

Universities as well as specialized institutions of university standing and some Universities of Art/Music are doctorate-granting institutions. Formal prerequisite for admission to doctoral work is a qualified Master (UAS and U), a *Magister* degree, a *Diplom*, a *Staatsprüfung*, or a foreign equivalent. Comparable degrees from universities of art and music can in exceptional cases (study programmes such as music theory, musicology, pedagogy of arts and music, media studies) also formally qualify for doctoral work. Particularly qualified holders of a Bachelor or a *Diplom (FH)* degree may also be admitted to doctoral studies without acquisition of a further degree by means of a procedure to determine their aptitude. The universities respectively the doctorate-granting institutions regulate entry to a doctorate as well as the structure of the procedure to determine aptitude. Admission further requires the acceptance of the Dissertation research project by a professor as a supervisor.

The doctoral degree corresponds to level 8 of the German Qualifications Framework/ European Qualifications Framework.

8.6 Grading Scheme

The grading scheme in Germany usually comprises five levels (with numerical equivalents; intermediate grades may be given): "*Sehr Gut*" (1) = Very Good; "*Gut*" (2) = Good; "*Befriedigend*" (3) = Satisfactory; "*Ausreichend*" (4) = Sufficient; "*Nicht ausreichend*" (5) = Non-Sufficient/Fail. The minimum passing grade is "*Ausreichend*" (4). Verbal designations of grades may vary in some cases and for doctoral degrees.

In addition, grade distribution tables as described in the ECTS Users' Guide are used to indicate the relative distribution of grades within a reference group.

8.7 Access to Higher Education

The General Higher Education Entrance Qualification (*Allgemeine Hochschulreife, Abitur*) after 12 to 13 years of schooling allows for admission to all higher educational studies.

Specialized variants (*Fachgebundene Hochschulreife*) allow for admission at Fachhochschulen (UAS), universities and equivalent higher education institutions, but only in particular disciplines. Access to study programmes at *Fachhochschulen* (UAS) is also possible with a *Fachhochschulreife*, which can usually be acquired after 12 years of schooling. Admission to study programmes at Universities of Art/Music and comparable study programmes at other higher education institutions as well as admission to a study programme in sports may be based on other or additional evidence demonstrating individual aptitude.

Applicants with a vocational qualification but without a school-based higher education entrance qualification are entitled to a general higher education entrance qualification

and thus to access to all study programmes, provided they have obtained advanced further training certificates in particular state-regulated vocational fields (e.g. *Meister/Meisterin im Handwerk, Industriemeister/in, Fachwirt/in (IHK und HWK), staatlich geprüfte/r Betriebswirt/in, staatliche geprüfte/r Gestalter/in, staatlich geprüfte/r Erzieher/in*). Vocationally qualified applicants can obtain a *Fachgebundene Hochschulreife* after completing a state-regulated vocational education of at least two years' duration plus professional practice of normally at least three years' duration, after having successfully passed an aptitude test at a higher education institution or other state institution; the aptitude test may be replaced by successfully completed trial studies of at least one year's duration.^x

Higher Education Institutions may in certain cases apply additional admission procedures.

8.8 National Sources of Information

- *Kultusministerkonferenz (KMK)* [Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany]; Graurheindorfer Str. 157, D-53117 Bonn; Fax: +49[0]228/501-777; Phone: +49[0]228/501-0
- Central Office for Foreign Education (ZaB) as German NARIC; www.kmk.org; E-Mail: zab@kmk.org
- German information office of the *Länder* in the EURYDICE Network, providing the national dossier on the education system; www.kmk.org; E-Mail: eurydice@kmk.org
- *Hochschulrektorenkonferenz (HRK)* [German Rectors' Conference]; Ahrstrasse 39, D-53175 Bonn; Fax: +49[0]228/887-110; Phone: +49[0]228/887-0; www.hrk.de; E-Mail: post@hrk.de
- "Higher Education Compass" of the German Rectors' Conference features comprehensive information on institutions, programmes of study, etc. (www.higher-education-compass.de)

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- ⁱ The information covers only aspects directly relevant to purposes of the Diploma Supplement.
 - ⁱⁱ *Berufsakademien* are not considered as Higher Education Institutions, they only exist in some of the *Länder*. They offer educational programmes in close cooperation with private companies. Students receive a formal degree and carry out an apprenticeship at the company. Some *Berufsakademien* offer Bachelor courses which are recognized as an academic degree if they are accredited by a German accreditation agency.
 - ⁱⁱⁱ German Qualifications Framework for Higher Education Degrees. (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 February 2017).
 - ^{iv} German Qualifications Framework for Lifelong Learning (DQR). Joint resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany, the German Federal Ministry of Education and Research, the German Conference of Economics Ministers and the German Federal Ministry of Economics and Technology (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 15 November 2012). More information at www.dqr.de
 - ^v Recommendation of the European Parliament and the European Council on the establishment of a European Qualifications Framework for Lifelong Learning of 23 April 2008 (2008/C 111/01 – European Qualifications Framework for Lifelong Learning – EQF).
 - ^{vi} Common structural guidelines of the *Länder* for the accreditation of Bachelor's and Master's study courses (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 10.10.2003, as amended on 04.02.2010).
 - ^{vii} "Law establishing a Foundation "Foundation for the Accreditation of Study Programmes in Germany", entered into force as from 26 February 2005, GV. NRW. 2005, No. 5, p. 45 in connection with the Declaration of the *Länder* to the Foundation "Foundation for the Accreditation of Study Programmes in Germany" (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 December 2004).

viii See note No. 7.

ix See note No. 7.

x Access to higher education for applicants with a vocational qualification, but without a school-based higher education entrance qualification (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 6 March 2009).

HAWK

HOCHSCHULE

FÜR ANGEWANDTE WISSENSCHAFT UND KUNST

Hildesheim/Holzminden/Göttingen

University of Applied Sciences and Arts

Prüfungsordnung für den Bachelorstudiengang Baumanagement (Besonderer Teil)

Fakultät Management, Soziale Arbeit, Bauen

Der Fakultätsrat der Fakultät Management, Soziale Arbeit, Bauen der HAWK Hochschule für angewandte Wissenschaft und Kunst Hildesheim/Holzminden/Göttingen hat am 23. Oktober 2019 die Ordnung über den Besonderen Teil der Prüfungsordnung für den Bachelorstudiengang Baumanagement beschlossen. Die Ordnung wurde am 18. November 2019 vom Präsidium der Hochschule gemäß § 37 Absatz 1 Satz 3 Ziffer 5b) NHG genehmigt. Die hochschulöffentliche Bekanntmachung erfolgte am 25. November 2019.

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§ 1 Dauer und Verlauf des Studiums

- (1) Die Regelstudienzeit des Bachelorstudiengangs Baumanagement beträgt sieben Semester.
- (2) Der Gesamtumfang der Pflicht- und Wahlpflichtmodule beträgt 210 Leistungspunkte (Credits). Das Studium setzt sich aus Pflichtmodulen im Umfang von 135 Leistungspunkten sowie Wahlpflichtmodulen für die jeweilige Studienrichtung im Umfang von 63 Leistungspunkten und nicht einer Studienrichtung zugeordneten Wahlpflichtmodulen im Umfang von 12 Leistungspunkten zusammen. Studienverlauf und Workload der einzelnen Module werden in Anlage 1 aufgezeigt. Er gilt für diejenigen Studierenden, die zum Wintersemester in das erste Fachsemester immatrikuliert werden. Für Studierende, die zum Sommersemester in das erste Fachsemester immatrikuliert werden, werden die in der Anlage 1 dargestellten Module gemäß zugehörigem Studienverlaufsplan in anderer Reihenfolge studiert.
- (3) Wählbare Studienrichtungen sind „Hochbau“ und „Ingenieurbau“. Die Module der ersten beiden Semester (60 Leistungspunkte) sind für beide Studienrichtungen gleich, ebenso Module im Umfang von 75 Leistungspunkten in den höheren Semestern. Ab dem dritten Semester ist dem jeweiligen Studienverlaufsplan der gewählten Studienrichtung zu folgen, um den Studiengang erfolgreich abschließen zu können. Die der jeweiligen Studienrichtung zugeordneten Module sind der Anlage 1 zu entnehmen. Ein interdisziplinäres Studium aus beiden Studienrichtungen ist nicht möglich.
- (4) Studierende müssen aus dem Angebot der zentralen Einrichtung HAWK plus Wahlpflichtmodule im Umfang von sechs Leistungspunkten auswählen.

§ 2 Prüfungen

- (1) Die für die Bachelorprüfung zu erbringenden Prüfungen werden studienbegleitend erbracht. Der Modulübersicht (Anlage 1) ist zu entnehmen, welche Prüfungsformen einem Modul zugeordnet sind und ob es sich um Prüfungs- oder Studienleistungen handelt. Neben der Art der Prüfung ist in den Modulbeschreibungen bei zusammengesetzten Modulprüfungen die Gewichtung ausgewiesen, mit der die Gesamtmodulnote zu berechnen ist.
- (2) Ist in den Modulbeschreibungen eine Studienleistung als Prüfungsvorleistung (PVL) vorgesehen, so ist das Bestehen dieser Prüfungsvorleistung neben dem Vorliegen der Voraussetzungen gemäß § 8 des Allgemeinen Teils der Prüfungsordnung für die Zulassung zur Noten bildenden Modulabschlussprüfung erforderlich.
- (3) Für die Vergabe der Noten gemäß Absatz 4 gilt – unter Beachtung der Rundung auf eine Nachkommastelle - folgendes Bewertungsschema:

bei 95,5 % bis 100 % der erreichbaren Leistung	= 1,0
bei 90,9 % bis 95,4 % der erreichbaren Leistung	= 1,3
bei 84,8 % bis 90,8 % der erreichbaren Leistung	= 1,7
bei 80,3 % bis 84,7 % der erreichbaren Leistung	= 2,0
bei 75,8 % bis 80,2 % der erreichbaren Leistung	= 2,3
bei 69,7 % bis 75,7 % der erreichbaren Leistung	= 2,7
bei 65,2 % bis 69,6 % der erreichbaren Leistung	= 3,0
bei 60,6 % bis 65,1 % der erreichbaren Leistung	= 3,3
bei 54,5 % bis 60,5 % der erreichbaren Leistung	= 3,7
bei 50,0 % bis 54,4 % der erreichbaren Leistung	= 4,0
und bei weniger als 50 % der erreichbaren Leistung	= 5,0 (nicht bestanden)
- (4) Abweichend von § 15 Absatz 2 der Prüfungsordnung Allgemeiner Teil 2019 findet keine Pflichtanmeldung zur ersten Wiederholungsprüfung statt. Eine nicht bestandene Modulprüfung nach § 15 Absatz 1 der Prüfungsordnung Allgemeiner Teil soll jedoch in der Regel im Rahmen der regulären Prüfungstermine innerhalb der nächsten beiden Semester in der gleichen Art und Dauer wiederholt werden.

§ 3 Praxismodul

- (1) Die Zulassung zum Praxismodul (Modul BH7 601 bzw. BI7 601) erfolgt auf Antrag, welcher in Form einer Modulanmeldung innerhalb der hierfür laut Semesterzeitplan vorgesehenen Fristen in der Prüfungsverwaltung einzureichen ist.
- (2) Zum Praxismodul wird zugelassen, wer bis dahin alle Module der ersten beiden Fachsemester bestanden und mindestens 132 Leistungspunkte erreicht hat. Näheres regeln Modulbeschreibung sowie Praxisleitfaden in ihrer jeweils gültigen Form.

§ 4 Bachelorarbeit und Kolloquium

- (1) Die Bearbeitungszeit für die Bachelorarbeit (Modul BH7 901 bzw. BI7 901) beträgt sieben Wochen.
- (2) Eine Zulassung zum Modul Bachelorarbeit ist erst möglich, wenn alle Leistungspunkte bis auf die Leistungspunkte der Abschlussarbeit selbst, die Leistungspunkte der Module des Abschlussessemesters sowie die Leistungspunkte eines weiteren Moduls erbracht sind. Das offene Modul darf nicht aus den ersten beiden Fachsemestern stammen. Für das im letzten Fachsemester angesiedelte Praxismodul muss die Zulassung erteilt worden sein. Es muss ferner durch einen aussagekräftigen Nachweis (z.B. Praktikumsvertrag) erkennbar sein, dass der Pflichtteil des Praktikums rechtzeitig vor Ausgabe des Bachelorthemas abgeschlossen sein wird. Dieser Nachweis ist gemeinsam mit dem Zulassungsantrag zur Bachelorarbeit in der Prüfungsverwaltung einzureichen.
- (3) Im Antrag auf Zulassung zur Bachelorarbeit (Modulanmeldung) ist der Themenbereich der Aufgabenstellung für die Bachelorarbeit sowie die/der Erstprüfende zu nennen. Es ist ferner die Unterschrift der/des Erstprüfenden einzuholen.
- (4) Zum Kolloquium wird zugelassen, wessen Bachelorarbeit von beiden Prüfenden vorläufig mit mindestens ausreichend bewertet wurde. Eine Zulassung zum Kolloquium ist bereits dann möglich, wenn die Modulprüfung im gemäß Absatz 2 zulässigerweise noch offenen weiteren Fachmodul aussteht.
- (5) Das Kolloquium soll in der Regel innerhalb von acht Wochen nach Abgabe der Bachelorarbeit durchgeführt werden.
- (6) § 21 Absatz 4 der Prüfungsordnung Allgemeiner Teil 2019 wird ersetzt durch folgenden Text: Die Betreuung der Abschlussarbeit kann von jedem Mitglied der Professor/inn/engruppe der Fakultät übernommen werden. Mit Zustimmung der Prüfungskommission kann die Betreuung auch von einer/einem Professor/in vorgenommen werden, die oder der nicht Mitglied dieser Fakultät ist. Sie kann auch von anderen Prüfer/inne/n nach § 5 Absatz 1 und 2 der der Prüfungsordnung Allgemeiner Teil 2019 übernommen werden. In der Regel muss die oder der Erstprüfende lehrende/r Professor/in sein.

§ 5 Hochschulgrad, Zeugnis

- (1) Der Studiengang schließt mit dem Kolloquium zur Bachelorarbeit oder mit dem Abschluss des im gemäß Absatz 2 zulässigerweise noch offenen Fachmoduls ab.
- (2) Die Hochschule verleiht zum Abschluss den Hochschulgrad Bachelor of Engineering, abgekürzt B.Eng. Hierüber stellt die Hochschule eine Urkunde mit dem Datum des Zeugnisses aus (Anlage 2). Ein Muster des Bachelorzeugnisses enthält Anlage 3. Gleichzeitig mit dem Zeugnis wird der/dem Studierenden ein Diploma Supplement (Anlage 4) ausgehändigt.

§ 6 Inkrafttreten und Übergangsregelungen

- (1) Diese Prüfungsordnung tritt am Tag nach ihrer hochschulöffentlichen Bekanntmachung in Kraft.
- (2) Sie gilt erstmalig für Studierende, die ihr Studium zum Wintersemester 2019/2020 im ersten Fachsemester begonnen haben bzw. für Studierende, die in Folgesemestern in das jeweils gleiche Fachsemester zugelassen werden wie die Studienanfänger des Wintersemesters 2019/2020. Für Studierende, die zum Wintersemester 2019/2020 in ein höheres Fachsemester zugelassen werden, gilt die bisherige Prüfungsordnung 2012 (in der Fassung von 2016).
- (3) Der Regelstudienbetrieb wird den Studierenden für die Dauer der in dieser Ordnung vorgesehenen Regelstudienzeit zuzüglich von zwei weiteren Semestern gewährleistet. Danach wird in die neue Ordnung überführt.

Anlage 1: Modulübersicht

a) Modulübersicht (für beide Studienrichtungen). Es gilt § 1 Absatz 3.

Modul-Nr.	Modulname	Leistungspunkte/Semester							Workload	Prüfungsform
		1	2	3	4	5	6	7		
Pflichtmodule für alle Studierenden										
BM1_200	Einführung in das Baumanagement	3							90	K1
BM1_011	Grundlagen des Rechts	3							90	K1/ST
BM1_100	Baukonstruktion/Bauphysik	6							180	K2
BM1_101	Grundlagen der Tragwerkslehre	6							180	K2+ST
BM1_102	Mineralische Baustoffe	3							90	K1+LB*
BM1_103	Baukultur – Bau- und Kunstgeschichte	3							90	ST+PR*
BM1_012	Mathematik	6							90	K2
BM2_013	Bauzeichnen, CAD, 3D-Modellierung		6						180	K2+ST*/ST+ST*/K1+ST+ST*
BM2_104	Baukonstruktion/Mauerwerksbau		6						180	K1+ST
BM2_105	Tragwerkslehre/Konstrukt. Entwerfen		6						180	K2+ST
BM2_106	Baustoffkunde		6						180	K2+LB*
BM2_014	Vermessungskunde/Bauaufnahme		6						180	K2+ST*/PA+PR/ST+ST*
BM3_110	Grundlagen baulicher Brandschutz			3					90	K1,5
BM3_201	Grundlagen Baubetrieb und AVA			6					180	K2/K1+ST
BM4_202	Vertragsrecht			3					90	K1,5/ST
BM4_203	Bauvertragsrecht				3				90	K1,5/ST
BM4_204	Projektmanagement/Schlüsselfertigbau				6				180	K2/K1+ST
BM5_205	Kostenrechnung/Kalkulation					6			180	K2/K1+ST
BM5_501	Interdisziplinäres Projekt					6			180	ST+PR/PA
BM6_015	Building Information Modeling						3		90	ST+PR/ST
BM6_207	Bauverfahrenstechnik						3		90	K1/ST
BM6_208	Projektsteuerung/digitaler Planungs- und Bauprozess						6		180	K2/K1+ST/K1+M
BM7_209	Sicherheitstechnik							3	90	K1
BM7_601	Praxismodul							15	450	PB*+PR*
BX7_901	Bachelorarbeit							12	360	Bachelorarbeit mit Kolloquium
Module für die Studienrichtung Hochbau										
BH3_108	Gebäudelehre			6					180	R+PF/PF+PR/R
BH3_109	Geotechnik im Hochbau			6					180	K1,5+R+LB*
BH3_111	Innenausbau			3					90	ST/R
BH3_112	Gebäudetechnik			6					180	K2/ST/R
BH4_113	Holz-/Stahlkonstruktionen				6				180	PA+PR/PF+PR/R
BH4_114	Grundlagen des Entwerfens				6				180	PA+PR/PF+PR/R
BH4_500	Projekt Entwurf und Planung				6				180	PA+PR/PF+PR
BH5_115	Stahlbetonkonstruktionen					6			180	K2
BH5_116	Bauphysik					6			180	K2/ST/M

BH5_8XX	Wahlpflichtmodul WPM I					3			90	<i>s. Tabelle unter b)</i>
BH5_7XX	Wahlpflichtmodul IPS I					3			90	<i>individuell</i>
BH6_117	Skelett- und Fassadenbau						6		180	PA+PR/PF+PR/R
BH6_8XX	Wahlpflichtmodul WPM II						3		90	<i>s. Tabelle unter b)</i>
BH6_7XX	Wahlpflichtmodul IPS II						3		90	<i>individuell</i>
BH6_502	Projekt Bauen im Bestand						6		180	PA+PR/PF+PR
Module für die Studienrichtung Ingenieurbau										
BI3_120	Tragwerksplanung			6					180	K2+ST
BI3_121	Grundlagen des Stahlbetonbaus			6					180	K2
BI3_122	Geotechnik			3					90	K1,5+LB*
BI3_123	Ingenieurholzbau und Instandsetzung			6					180	K2+LB*
BI4_124	Stahlbau					6			180	K2
BI4_125	Verkehrswesen					6			180	K2
BI4_503	Projekt Entwurf und Planung (Infrastrukturbau)					6			180	PA+PR+M*/PA+M* /PA+R
BI5_126	Wasserbau/ Siedlungswasserwirtschaft						6		180	ST+PF*/K2+PF*
BI5_127	Stahlbetonbau						3		90	K1,5
BI5_128	Brückenbau						3		90	K1/M/ST/R
BI5_8XX	Wahlpflichtmodul WPM I						3		90	<i>s. Tabelle unter b)</i>
BI5_7XX	Wahlpflichtmodul IPS I						3		90	<i>individuell</i>
BI6_129	Geotechnik im Ingenieurbau							6	180	K2/ST/M/PA
BI6_8XX	Wahlpflichtmodul WPM II							3	90	<i>s. Tabelle unter b)</i>
BI6_7XX	Wahlpflichtmodul IPS II							3	90	<i>individuell</i>
BI6_504	Projekt Bauen im Bestand							6	180	PA+PR

b) Modulangebot** für die Wahlpflichtmodule WPM I und WPM II:

Modul-Nr.	Modulname	Leistungspunkte/Semester							Work-load	Prüfungsform
		1	2	3	4	5	6	7		
BM5_8XX	Ausgewählte Themen des Baumanagements I					3			90	K1/ST/R/PR/M
BM5_8XX	Ausgewählte Themen des Hochbaus I					3			90	ST+PF*/PF+PR/R+PF*
BM5_8XX	Ausgewählte Themen des Ingenieurbaus I					3			90	K1,5/ST/M/R/LB
BM5_8XX	Ausgewählte Themen EDV und Sprachen I					3			90	K1/ST/PA/EDRP/ST+PR*/PF/R
BM6_8XX	Ausgewählte Themen des Baumanagements II							3	90	K1/ST/R/PR/M
BM6_8XX	Ausgewählte Themen des Hochbaus II							3	90	ST+PF*/PR+PF*/R+PF*
BM6_8XX	Ausgewählte Themen des Ingenieurbaus II							3	90	K1,5/ST/M/R/LB
BM6_8XX	Ausgewählte Themen EDV und Sprachen II							3	90	K1/ST/PA/EDRP/ST+PR*/PF/R

**Das konkrete Modulangebot richtet sich nach Studierendenzahlen und Personalverfügbarkeit.

c) Abkürzungen für die Prüfungsformen (siehe § 8 Absatz 3 Prüfungsordnung Allgemeiner Teil):

Abkürzung	Bezeichnung
*	Studienleistung (alle anderen sind Prüfungsleistungen)
/	Der Schrägstrich trennt alternative Varianten der vorgesehenen Prüfungsformen.
FS	Fallstudie
IR	Internetrecherche
K2	Klausur (2 Stunden)
LB	Laborbericht
M	Mündliche Prüfung
PR	Präsentation
PA	Projektarbeit
PB	Praktikumsbericht
PF	Portfolio
R	Referat
EDRP	Erstellung und Dokumentation von Rechnerprogrammen
ST	Studienarbeit

Anlage 2: Bachelorurkunde

BACHELORURKUNDE

Die HAWK
Hochschule für angewandte Wissenschaft und Kunst
Hildesheim/Holzminden/Göttingen
Fakultät Management, Soziale Arbeit, Bauen

verleiht mit dieser Urkunde

Frau/Herrn **«Vorname» «Nachname»**
 geboren am «Geburtsdatum» in «Geburtsort»

den Hochschulgrad **Bachelor of Engineering**
 abgekürzt B. Eng.,
 nachdem sie/er die Abschlussprüfung im Studiengang

Baumanagement
(«Studienrichtung»)

bestanden hat.

Holzminden, den «Datum»

«Dekan/in»
 Dekan/in

«Studiendekan/in»
 Studiendekan/in

Anlage 3: Bachelorzeugnis

BACHELORZEUGNIS

Frau **«Vorname» «Nachname»**
 geboren am «Geburtsdatum» in «Geburtsort»

hat die Bachelorprüfung im Studiengang

Baumanagement
(«Studienrichtung»)

der Fakultät Management, Soziale Arbeit, Bauen
 bestanden.

Thema der Bachelorthesis:

Abschlussprüfung	Credits	Gesamtnote
	000	0,0 (in Worten)

Die Gesamtnote ergibt sich aus den Modulnoten (gemäß Anlage zum Bachelorzeugnis), die im Verhältnis der auf sie entfallenden Credits gewichtet werden.

Holzminde n, den «PruefDatum»

«Studiendekan/in»
 Studiendekan/in

Notenstufen: 1,0 bis 1,50 = Sehr Gut; 1,51 bis 2,50 = Gut; 2,51 bis 3,50 = Befriedigend; 3,51 bis 4,0 = Ausreichend

Anlage 4: Diploma Supplement

DIPLOMA SUPPLEMENT

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

1. Holder of the Qualification

- | | | |
|-----|-------------------------------|-------------------------------------|
| 1.1 | Family Name | Nachname |
| 1.2 | First Name | Vorname |
| 1.3 | Date, Place, Country of Birth | oo.oo.oooo, Geburtsort, Land |
| 1.4 | Student ID Number or Code | oooooo |

2. Qualification

- 2.1 Name of Qualification (in original language)
Bachelor of Engineering– B.Eng.
Title Conferred
Bachelor of Engineering/B.Eng. in Construction Management
- 2.2 Main Field(s) of Study
Construction Management with
- Building Construction (Hochbau) or
- Civil Engineering (Ingenieurbau)
as a profile to be chosen
- 2.3 Institution Awarding the Qualification (in original language)
HAWK Hochschule für angewandte Wissenschaft und Kunst
Hildesheim/Holzminden/Göttingen
Fakultät Management, Soziale Arbeit, Bauen
Status (Type / Control)
University of Applied Sciences and Arts / State Institution
- 2.4 Institution Administering Studies (in original language)
[as above]
Status (Type / Control)
[as above]
- 2.5 Language(s) of Instruction/Examination
German

3. Level of the Qualification

- 3.1 Level of Qualification
Bachelor programme, undergraduate, first degree, by research with thesis
- 3.2 Official Length of Programme
Three and a half years, 7 semesters, 210 ECTS

- 3.3 Access Requirement(s)
General Higher Education Entrance Qualification or Entrance Qualification to Universities of Applied Sciences, or foreign equivalent.

4. Contents and Results gained

- 4.1 Mode of Study
Full Time Study
In the event of part-time study (individual application required), the official length of the programme will be extended accordingly.
- 4.2 Programme Requirements
The educational target of the Bachelor program "Construction Management" is the professional qualification of engineers for construction industry who acquire knowledge in building and civil engineering as well as understanding of planning and execution work especially knowledge of holistic and sustainable management in construction. As the interdisciplinary studies cover planning and management contents, graduates have abilities to coordinate in construction various structural and technical disciplines and hereby finding results. Construction projects may be considered and controlled goal-directed from a higher point of view.
The Bachelor program "Construction Management" links traditional contents of architecture and civil engineering and essential aspects of management with interdisciplinary knowledge in engineering, economy and management. This is made through a combination of particular contents of construction and various aspects of management in technical fields. Hereby the student can choose between the profiles building (Hochbau) and civil engineering (Ingenieurbau).
Furthermore the educational objective is to transmit essential personal, social and method based skills to graduates. For example there are lectures in rhetoric, presentations, teamwork, managing conflicts, awareness of diversity, academic methods of writing, statistics.
Apart from two external internships in industry which last for several weeks, students have to be present in large numbers of lectures accompanied by laboratory work, practical exercises, projects and excursions.
During their studies, graduates developed subject-specific method competences. They are able to solve different assignments in project planning and management as well as to connect requirements of their own discipline with those of other disciplines, to find and to present appropriate solutions.
The studies in Construction Management are based on applied studies respectively practical oriented studies. The unification of building construction and civil engineering is given so that a holistic consideration on building projects is reached. At the end of the first semester, students generally decide for one profile.
The projects take in consideration various aspects, where students train the interdisciplinary assignment and its execution. Therefore common projects are offered for both profiles.

Building Construction (Hochbau) as a profile: Programme of studies

First semester:

Introduction to construction management, legal basics, construction and building physics, introduction to load bearing structure, mineral materials and concrete rehabilitation, building culture and art history, mathematics.

Second semester:

Technical drawing, CAD, 3 D modelling; construction and masonry, load bearing engineering and structural design, building materials, survey of building and surveying.

Third semester:

Design theory, geotechnics, basics of fire protection, interior work, building services, basics in construction industry and procurement procedure.

Fourth semester:

Steel and timber constructions, introduction to design, conditions of contract, legal building regulations, project management and turn-key building, Project: design and planning.

Fifth semester:

Reinforced concrete constructions, building physics, cost determination and calculation, interdisciplinary project, two additional modules on choice.

Sixth semester:

Skeleton structure and facades, building information modelling, construction method, controlling of projects and digital planning and building process, project: reinstatement of buildings, two additional modules on choice.

Seventh semester:

Safety training, practical training – internship, Bachelor Thesis

Civil Engineering (Ingenieurbau) as a profile: Programme of studies

First semester:

Introduction to construction management, legal basics, building construction and building physics, introduction to load bearing structure, mineral materials and concrete rehabilitation, building culture and art history, mathematics,

Second semester:

Technical drawing, CAD, 3 D modelling, construction and masonry, load bearing engineering and structural design, building materials, survey of buildings and surveying.

Third semester:

Load bearing engineering, basics of reinforced concrete constructions, geotechnics in engineering, basics of fire protection, timber engineering and repair, basics in construction industry and procurement procedure.

Fourth semester:

Steel constructions, traffic/road network, conditions of contract, legal building regulations, project management and turn-key building, project: design and planning.

Fifth semester:

Water supply and sanitation, reinforced concrete constructions, bridge constructions, cost determination and calculation, interdisciplinary project, two additional modules on choice.

Sixth semester:

Geotechnics in engineering, building information modelling, methods of constructions, controlling of projects and digital planning and building process, project: reinstatement of buildings, two additional modules on choice.

Seventh semester:

Safety training, practical training – internship, Bachelor Thesis

4.3 Programme Details

Please refer to the Final Examination Certificate (Bachelorzeugnis) for a list of courses and grades.

4.4 Grading Scheme

Absolute grading scheme: "Sehr Gut" (1,0; 1,3) = Very Good; "Gut" (1,7; 2,0; 2,3) = Good; "Befriedigend" (2,7; 3,0; 3,3) = Satisfactory; "Ausreichend" (3,7; 4,0) = Pass;

“Nicht ausreichend” (5,0) = Fail

Statistical distribution of grades: **grading table**

4.5 Overall Classification **0,0**

The final grade is based on the grades awarded during the study programme and that of the final thesis (with oral component). Please refer to the Final Examination Certificate (Bachelorzeugnis).

When there are no marks given, not enough results are available yet to determine ECTS-grades.

5. Function of the Qualification

5.1 Access to Further Study

Qualifies to apply for admission for master programs – Prerequisite: In compliance with the requirements of the respective universities or universities of applied sciences and arts.

5.2 Professional Status

The Bachelor-degree in Construction Management entitles its holder to the legally protected professional title “Bachelor of Science” and to exercise professional work in the field(s) for which the degree was awarded.

6. Additional Information

6.1 Additional Information

Non-academic acquired competencies were credited in an amount of **00** credits in the following modules: ...

6.2 Additional Information Sources

www.hawk.de

7. Certification

This Diploma Supplement refers to the following original documents:

Bachelorurkunde (Degree Certificate) dated from **00.00.0000**

Bachelorzeugnis (Final Examination Certificate) dated from **00.00.0000**

Transcript of Records dated from **00.00.0000**

Certification Date: **Ort, 00.00.0000**

(Official Seal / Stamp)

Dean of Study

8. Information on the German Higher Education Systemⁱ

8.1 Types of Institutions and Institutional Status

Higher education (HE) studies in Germany are offered at three types of Higher Education Institutions (HEI).ⁱⁱ

- *Universitäten* (Universities) including various specialized institutions, offer the whole range of academic disciplines. In the German tradition, universities focus in particular on basic research so that advanced stages of study have mainly theoretical orientation and research-oriented components.

- *Fachhochschulen* (Universities of Applied Sciences) concentrate their study programmes in engineering and other technical disciplines, business-related studies, social work, and design areas. The common mission of applied research and development implies an application-oriented focus of studies, which includes integrated and supervised work assignments in industry, enterprises or other relevant institutions.

- *Kunst- und Musikhochschulen* (Universities of Art/Music) offer studies for artistic careers in fine arts, performing arts and music; in such fields as directing, production, writing in theatre, film, and other media; and in a variety of design areas, architecture, media and communication.

Higher Education Institutions are either state or state-recognized institutions. In their operations, including the organization of studies and the designation and award of degrees, they are both subject to higher education legislation.

8.2 Types of Programmes and Degrees Awarded

Studies in all three types of institutions have traditionally been offered in integrated "long" (one-tier) programmes leading to Diplom- or Magister Artium degrees or completed by a Staatsprüfung (State Examination).

Within the framework of the Bologna-Process one-tier study programmes are successively being replaced by a two-tier study system. Since 1998, two-tier degrees (Bachelor and Master) have been introduced in almost all study programmes. This change is designed to provide enlarged variety and flexibility to students in planning and pursuing educational objectives, they also enhance international compatibility of studies.

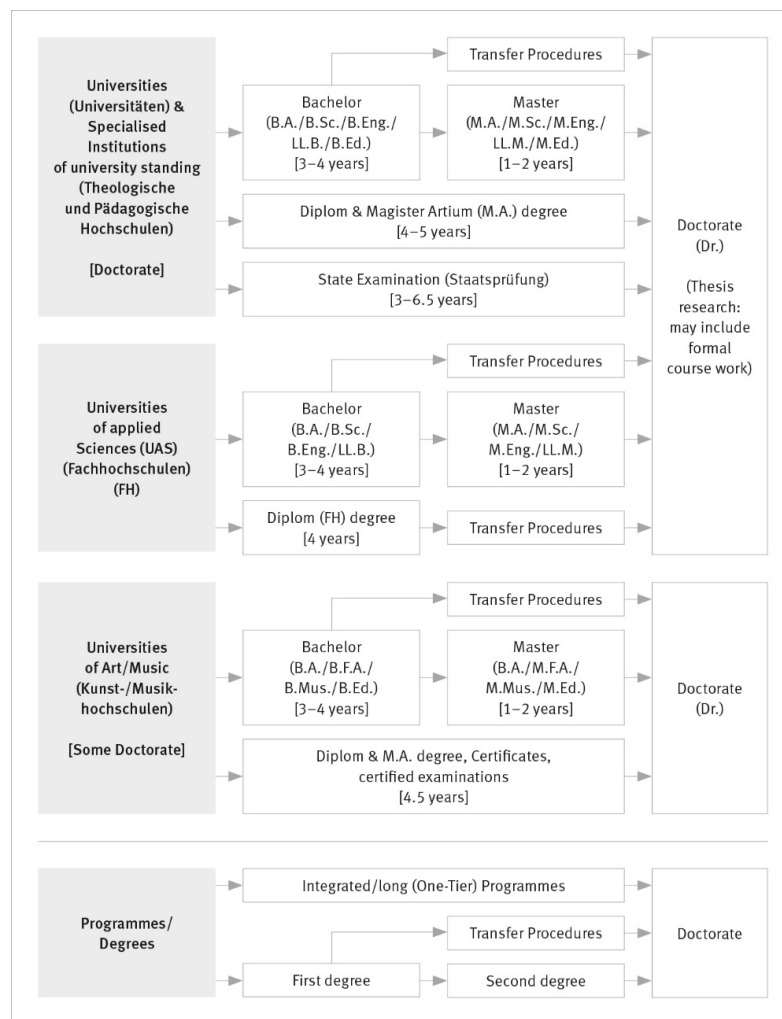
The German Qualifications Framework for Higher Education Degreesⁱⁱⁱ, the German Qualifications Framework for Lifelong Learning^{iv} and the European Qualifications Framework for Lifelong Learning^v describe the degrees of the German Higher Education System.

They contain the classification of the qualification levels as well as the resulting qualifications and competencies of the graduates.

For details cf. Sec. 8.4.1, 8.4.2, and 8.4.3 respectively. Table 1 provides a synoptic summary.

8.3 Approval/Accreditation of Programmes and Degrees

To ensure quality and comparability of qualifications, the organization of studies and general degree requirements have to conform to principles and regulations established by the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany (KMK).^{vi} In 1999, a system of accreditation for programmes of study has become operational under the control of an Accreditation Council at national level. All new programmes have to be accredited under this scheme; after a successful accreditation they receive the quality-label of the Accreditation Council.^{vii}



8.4 Organization and Structure of Studies

The following programmes apply to all three types of institutions. Bachelor's and Master's study courses may be studied consecutively, at various higher education institutions, at different types of higher education institutions and with phases of professional work between the first and the second qualification. The organization of the study programmes makes use of modular components and of the European Credit Transfer and Accumulation System (ECTS) with 30 credits corresponding to one semester.

8.4.1 Bachelor

Bachelor degree study programmes lay the academic foundations, provide methodological skills and lead to qualifications related to the professional field. The Bachelor degree is awarded after 3 to 4 years. The Bachelor degree programme includes a thesis requirement. Study courses leading to the Bachelor degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.^{viii} First degree programmes (Bachelor) lead to Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.), Bachelor of Engineering (B.Eng.), Bachelor of Laws (LL.B.), Bachelor of Fine Arts (B.F.A.), Bachelor of Music (B.Mus.) or Bachelor of Education (B.Ed.).

The Bachelor degree corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

8.4.2 Master

Master is the second degree after another 1 to 2 years. Master study programmes may be differentiated by the profile types "practice-oriented" and "research-oriented". Higher Education Institutions define the profile. The Master degree study programme includes a thesis requirement. Study programmes leading to the Master degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.^{ix} Second degree programmes (Master) lead to Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Laws (L.L.M.), Master of Fine Arts (M.F.A.), Master of Music (M.Mus.) or Master of Education (M.Ed.). Master study programmes which are designed for continuing education may carry other designations (e.g. MBA).

The Master degree corresponds to level 7 of the German Qualifications Framework/ European Qualifications Framework.

8.4.3 Integrated "Long" Programmes (One-Tier): Diplom degrees, Magister Artium, Staatsprüfung

An integrated study programme is either mono-disciplinary (*Diplom* degrees, most programmes completed by a *Staatsprüfung*) or comprises a combination of either two major or one major and two minor fields (*Magister Artium*). The first stage (1.5 to 2 years) focuses on broad orientations and foundations of the field(s) of study. An Intermediate Examination (*Diplom-Vorprüfung* for *Diplom* degrees; *Zwischenprüfung* or credit requirements for the *Magister Artium*) is prerequisite to enter the second stage of advanced studies and specializations. Degree requirements include submission of a thesis (up to 6 months duration) and comprehensive final written and oral examinations. Similar regulations apply to studies leading to a *Staatsprüfung*. The level of qualification is equivalent to the Master level.

- Integrated studies at *Universitäten (U)* last 4 to 5 years (*Diplom* degree, *Magister Artium*) or 3 to 6.5 years (*Staatsprüfung*). The *Diplom* degree is awarded in engineering disciplines, the natural sciences as well as economics and business. In the humanities, the corresponding degree is usually the *Magister Artium* (M.A.). In the social sciences, the practice varies as a matter of institutional traditions. Studies preparing for the legal, medical and pharmaceutical professions are completed by a *Staatsprüfung*. This applies also to studies preparing for teaching professions of some *Länder*.

The three qualifications (*Diplom*, *Magister Artium* and *Staatsprüfung*) are academically equivalent and correspond to level 7 of the German Qualifications Framework/ European Qualifications Framework.

They qualify to apply for admission to doctoral studies. Further prerequisites for admission may be defined by the Higher Education Institution, cf. Sec. 8.5.

- Integrated studies at *Fachhochschulen (FH)*/Universities of Applied Sciences (UAS) last 4 years and lead to a *Diplom (FH)* degree which corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

While the *FH*/UAS are non-doctorate granting institutions, qualified graduates may apply for admission to doctoral studies at doctorate-granting institutions, cf. Sec. 8.5.

- Studies at *Kunst- and Musikhochschulen* (Universities of Art/Music etc.) are more diverse in their organization, depending on the field and individual objectives. In addition to *Diplom/Magister* degrees, the integrated study programme awards include Certificates and certified examinations for specialized areas and professional purposes.

8.5 Doctorate

Universities as well as specialized institutions of university standing and some Universities of Art/Music are doctorate-granting institutions. Formal prerequisite for admission to doctoral work is a qualified Master (UAS and U), a *Magister* degree, a *Diplom*, a *Staatsprüfung*, or a foreign equivalent. Comparable degrees from universities of art and music can in exceptional cases (study programmes such as music theory, musicology, pedagogy of arts and music, media studies) also formally qualify for doctoral work. Particularly qualified holders of a Bachelor or a *Diplom (FH)* degree may also be admitted to doctoral studies without acquisition of a further degree by means of a procedure to determine their aptitude. The universities respectively the doctorate-granting institutions regulate entry to a doctorate as well as the structure of the procedure to determine aptitude. Admission further requires the acceptance of the Dissertation research project by a professor as a supervisor.

The doctoral degree corresponds to level 8 of the German Qualifications Framework/ European Qualifications Framework.

8.6 Grading Scheme

The grading scheme in Germany usually comprises five levels (with numerical equivalents; intermediate grades may be given): "*Sehr Gut*" (1) = Very Good; "*Gut*" (2) = Good; "*Befriedigend*" (3) = Satisfactory; "*Ausreichend*" (4) = Sufficient; "*Nicht ausreichend*" (5) = Non-Sufficient/Fail. The minimum passing grade is "*Ausreichend*" (4). Verbal designations of grades may vary in some cases and for doctoral degrees.

In addition, grade distribution tables as described in the ECTS Users' Guide are used to indicate the relative distribution of grades within a reference group.

8.7 Access to Higher Education

The General Higher Education Entrance Qualification (*Allgemeine Hochschulreife, Abitur*) after 12 to 13 years of schooling allows for admission to all higher educational studies. Specialized variants (*Fachgebundene Hochschulreife*) allow for admission at Fachhochschulen (UAS), universities and equivalent higher education institutions, but only in particular disciplines. Access to study programmes at *Fachhochschulen* (UAS) is also possible with a *Fachhochschulreife*, which can usually be acquired after 12 years of schooling. Admission to study programmes at Universities of Art/Music and comparable study programmes at other higher education institutions as well as admission to a study programme in sports may be based on other or additional evidence demonstrating individual aptitude.

Applicants with a vocational qualification but without a school-based higher education entrance qualification are entitled to a general higher education entrance qualification

and thus to access to all study programmes, provided they have obtained advanced further training certificates in particular state-regulated vocational fields (e.g. *Meister/Meisterin im Handwerk, Industriemeister/in, Fachwirt/in (IHK und HWK), staatlich geprüfte/r Betriebswirt/in, staatliche geprüfte/r Gestalter/in, staatlich geprüfte/r Erzieher/in*). Vocationally qualified applicants can obtain a *Fachgebundene Hochschulreife* after completing a state-regulated vocational education of at least two years' duration plus professional practice of normally at least three years' duration, after having successfully passed an aptitude test at a higher education institution or other state institution; the aptitude test may be replaced by successfully completed trial studies of at least one year's duration.^x

Higher Education Institutions may in certain cases apply additional admission procedures.

8.8 National Sources of Information

- *Kultusministerkonferenz (KMK)* [Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany]; Graurheindorfer Str. 157, D-53117 Bonn; Fax: +49[0]228/501-777; Phone: +49[0]228/501-0
- Central Office for Foreign Education (ZaB) as German NARIC; www.kmk.org; E-Mail: zab@kmk.org
- German information office of the *Länder* in the EURYDICE Network, providing the national dossier on the education system; www.kmk.org; E-Mail: eurydice@kmk.org
- *Hochschulrektorenkonferenz (HRK)* [German Rectors' Conference]; Ahrstrasse 39, D-53175 Bonn; Fax: +49[0]228/887-110; Phone: +49[0]228/887-0; www.hrk.de; E-Mail: post@hrk.de
- "Higher Education Compass" of the German Rectors' Conference features comprehensive information on institutions, programmes of study, etc. (www.higher-education-compass.de)

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- ⁱ The information covers only aspects directly relevant to purposes of the Diploma Supplement.
 - ⁱⁱ *Berufsakademien* are not considered as Higher Education Institutions, they only exist in some of the *Länder*. They offer educational programmes in close cooperation with private companies. Students receive a formal degree and carry out an apprenticeship at the company. Some *Berufsakademien* offer Bachelor courses which are recognized as an academic degree if they are accredited by a German accreditation agency.
 - ⁱⁱⁱ German Qualifications Framework for Higher Education Degrees. (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 February 2017).
 - ^{iv} German Qualifications Framework for Lifelong Learning (DQR). Joint resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany, the German Federal Ministry of Education and Research, the German Conference of Economics Ministers and the German Federal Ministry of Economics and Technology (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 15 November 2012). More information at www.dqr.de
 - ^v Recommendation of the European Parliament and the European Council on the establishment of a European Qualifications Framework for Lifelong Learning of 23 April 2008 (2008/C 111/01 – European Qualifications Framework for Lifelong Learning – EQF).
 - ^{vi} Common structural guidelines of the *Länder* for the accreditation of Bachelor's and Master's study courses (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 10.10.2003, as amended on 04.02.2010).
 - ^{vii} "Law establishing a Foundation "Foundation for the Accreditation of Study Programmes in Germany", entered into force as from 26 February 2005, GV. NRW. 2005, No. 5, p. 45 in connection with the Declaration of the *Länder* to the Foundation "Foundation for the Accreditation of Study Programmes in Germany" (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 December 2004).

viii See note No. 7.

ix See note No. 7.

x Access to higher education for applicants with a vocational qualification, but without a school-based higher education entrance qualification (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 6 March 2009).

HAWK

HOCHSCHULE

FÜR ANGEWANDTE WISSENSCHAFT UND KUNST

Hildesheim/Holzminde n/Göttingen

University of Applied Sciences and Arts

**Prüfungsordnung für den Bachelorstudiengang
Immobilienwirtschaft und -management
(Besonderer Teil)**

Fakultät Management, Soziale Arbeit, Bauen

Der Fakultätsrat der Fakultät Management, Soziale Arbeit, Bauen der HAWK Hochschule für angewandte Wissenschaft und Kunst Hildesheim/Holzminde n/Göttingen hat am 23. Oktober 2019 die Ordnung über den Besonderen Teil der Prüfungsordnung für den Bachelorstudiengang Immobilienwirtschaft und -management beschlossen. Die Ordnung wurde am 18. November 2019 vom Präsidium der Hochschule gemäß § 37 Absatz 1 Satz 3 Ziffer 5b) NHG genehmigt. Die hochschulöffentliche Bekanntmachung erfolgte am 25. November 2019.

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 § 4 Bachelorarbeit und Kolloquium 3
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§ 1 Dauer und Verlauf des Studiums

- (1) Die Regelstudienzeit des Bachelorstudiengangs Immobilienwirtschaft und -management beträgt sechs Semester.
- (2) Der Gesamtumfang der Pflicht- und Wahlpflichtbereiche beträgt 180 Leistungspunkte (Credits). Das Studium setzt sich aus Pflichtmodulen im Umfang von 159 Leistungspunkten sowie Wahlpflichtmodulen im Umfang von 21 Leistungspunkten zusammen. Mögliche Studienprofile können im Rahmen der „Immobilienwirtschaftlichen Projekte“ festgelegt werden. Der Studienverlauf wird in Anlage 1 aufgezeigt. Den Workload der einzelnen Module veranschaulicht ebenfalls die Anlage 1.
- (3) Studierende müssen aus dem Angebot der zentralen Einrichtung HAWK plus Wahlpflichtmodule im Umfang von sechs Leistungspunkten auswählen

§ 2 Prüfungen

- (1) Die für die Bachelorprüfung zu erbringenden Prüfungen werden studienbegleitend erbracht. Der Modulübersicht (Anlage 1) ist zu entnehmen, welche Prüfungsformen einem Modul zugeordnet sind und ob es sich um Prüfungs- oder Studienleistungen handelt. Neben der Art der Prüfung ist in den Modulbeschreibungen bei zusammengesetzten Modulprüfungen die Gewichtung ausgewiesen, mit der die Gesamtmodulnote zu berechnen ist.
- (2) Ist in den Modulbeschreibungen eine Studienleistung als Prüfungsvorleistung (PVL) vorgesehen, so ist das Bestehen dieser Prüfungsvorleistung neben dem Vorliegen der Voraussetzungen gemäß § 8 des Allgemeinen Teils der Prüfungsordnung für die Zulassung zur Noten bildenden Modulabschlussprüfung erforderlich.
- (3) Für die Vergabe der Noten gemäß Absatz 4 gilt – unter Beachtung der Rundung auf eine Nachkommastelle - folgendes Bewertungsschema:

bei 95,5 % bis 100 % der erreichbaren Leistung	= 1,0	
bei 90,9 % bis 95,4 % der erreichbaren Leistung	= 1,3	
bei 84,8 % bis 90,8 % der erreichbaren Leistung	= 1,7	
bei 80,3 % bis 84,7 % der erreichbaren Leistung	= 2,0	
bei 75,8 % bis 80,2 % der erreichbaren Leistung	= 2,3	
bei 69,7 % bis 75,7 % der erreichbaren Leistung	= 2,7	
bei 65,2 % bis 69,6 % der erreichbaren Leistung	= 3,0	
bei 60,6 % bis 65,1 % der erreichbaren Leistung	= 3,3	
bei 54,5 % bis 60,5% der erreichbaren Leistung	= 3,7	
bei 50,0 % bis 54,4 % der erreichbaren Leistung	= 4,0	
und bei weniger als 50 % der erreichbaren Leistung	= 5,0	(nicht bestanden)
- (4) Abweichend von § 15 Absatz 2 der Prüfungsordnung Allgemeiner Teil 2019 findet keine Pflichtanmeldung zur ersten Wiederholungsprüfung statt. Eine nicht bestandene Modulprüfung nach § 15 Absatz 1 der Prüfungsordnung Allgemeiner Teil soll jedoch in der Regel im Rahmen der regulären Prüfungstermine innerhalb der nächsten beiden Semester in der gleichen Art und Dauer wiederholt werden.

§ 3 Praxismodul

- (1) Die Zulassung zum Praxismodul (Modul IW6_600) erfolgt auf Antrag, welcher in Form einer Modulanmeldung innerhalb der hierfür lt. Semesterzeitplan vorgesehenen Fristen in der Prüfungsverwaltung einzureichen ist.

- (2) Zum Praxismodul wird zugelassen, wer bis dahin alle Module der ersten beiden Fachsemester bestanden hat. Näheres regeln Modulbeschreibung sowie Praxisleitfaden in ihrer jeweils gültigen Form.

§ 4 Bachelorarbeit und Kolloquium

- (1) Die Bearbeitungszeit für die Bachelorarbeit (Modul IW6_900) beträgt sechs Wochen.
- (2) Eine Zulassung zum Modul Bachelorarbeit ist erst möglich, wenn alle Leistungspunkte bis auf die Leistungspunkte der Abschlussarbeit selbst, die Leistungspunkte der Module des Abschlussesemesters sowie die Leistungspunkte eines weiteren Moduls erbracht sind. Das offene Modul darf nicht aus den ersten beiden Fachsemestern stammen. Für das im letzten Fachsemester angesiedelte Praxismodul muss die Zulassung erteilt worden sein. Es muss ferner durch einen aussagekräftigen Nachweis (z.B. Praktikumsvertrag) erkennbar sein, dass der Pflichtteil des Praktikums rechtzeitig vor Ausgabe des Bachelorthemas abgeschlossen sein wird. Dieser Nachweis ist gemeinsam mit dem Zulassungsantrag zur Bachelorarbeit in der Prüfungsverwaltung einzureichen.
- (3) Im Antrag auf Zulassung zur Bachelorarbeit (Modulanmeldung) ist der Themenbereich der Aufgabenstellung für die Bachelorarbeit sowie die bzw. der Erstprüfende zu nennen. Es ist ferner die Unterschrift der bzw. des Erstprüfenden einzuholen.
- (4) Zum Kolloquium wird zugelassen, wessen Bachelorarbeit von beiden Prüfenden vorläufig mit mindestens ausreichend bewertet wurde. Eine Zulassung zum Kolloquium ist bereits dann möglich, wenn die Modulprüfung im gemäß Absatz 2 zulässigerweise noch offenen weiteren Fachmodul aussteht.
- (5) Das Kolloquium soll in der Regel innerhalb von acht Wochen nach Abgabe der Bachelorarbeit durchgeführt werden.
- (6) § 21 Absatz 4 der Prüfungsordnung Allgemeiner Teil 2019 wird ersetzt durch folgenden Text: Die Betreuung der Abschlussarbeit kann von jedem Mitglied der Professor/inn/engruppe der Fakultät übernommen werden. Mit Zustimmung der Prüfungskommission kann die Betreuung auch von einer/einem Professor/in vorgenommen werden, die oder der nicht Mitglied dieser Fakultät ist. Sie kann auch von anderen Prüfer/inne/n nach § 5 Absatz 1 und 2 der der Prüfungsordnung Allgemeiner Teil 2019 übernommen werden. In der Regel muss die oder der Erstprüfende lehrende/r Professor/in sein.

§ 5 Hochschulgrad, Zeugnis

- (1) Der Studiengang schließt mit dem Kolloquium zur Bachelorarbeit oder mit dem Abschluss des im gemäß § 4 Absatz 2 zulässigerweise noch offenen Fachmoduls ab.
- (2) Die Hochschule verleiht zum Abschluss den Hochschulgrad Bachelor of Science, abgekürzt B.Sc. Hierüber stellt die Hochschule eine Urkunde mit dem Datum des Zeugnisses aus (Anlage 2). Ein Muster des Bachelorzeugnisses enthält Anlage 3. Gleichzeitig mit dem Zeugnis wird der/dem Studierenden ein Diploma Supplement (Anlage 4) ausgehändigt.

§ 6 Inkrafttreten und Übergangsregelungen

- (1) Diese Prüfungsordnung tritt am Tag nach ihrer hochschulöffentlichen Bekanntmachung in Kraft.
- (2) Sie gilt erstmalig für Studierende, die ihr Studium zum Wintersemester 2019/2020 im ersten Fachsemester begonnen haben bzw. für Studierende, die in Folgesemestern in das jeweils gleiche Fachsemester zugelassen werden wie die Studienanfänger des Wintersemesters 2019/2020. Für Studierende, die zum Wintersemester 2019/2020 in ein höheres Fachsemester zugelassen werden, gilt die bisherige Prüfungsordnung 2012 (in der Fassung von 2016).

- (3) Der Regelstudienbetrieb wird den Studierenden für die Dauer der in dieser Ordnung vorgesehenen Regelstudienzeit zuzüglich von zwei weiteren Semestern gewährleistet. Danach wird in die neue Ordnung überführt.

Anlage 1: Modulübersicht

Modul-Nr.	Modulname	Leistungspunkte/Semester						Work-load	Prüfungsform/ Gewichtung
		1	2	3	4	5	6		
IW1_310	Volks- und Immobilienwirtschaftslehre	6						180	K2
IW1_010	Wirtschaftsmathematik und Statistik	6						180	K2
IW1_020	Digitalisierung und Informationsmanagement	6						180	K2+EA*/ST+EA*
IW1_210	Grundlagen des nachhaltigen Entwerfens	6						180	K2
IW1_110	Grundlagen des Immobilienrechts	6						180	K2
IW2_320	Betriebswirtschaftslehre		6					180	K2
IW2_410	Immobilienfinanzierung		6					180	K2+R
IW2_415	Immobilien-Research		6					180	K1+R/K1+PA/K1+PR/ K1+FS
IW2_220	Grundlagen der Baukonstruktion		6					180	K2
IW2_120	Immobilien- und Grundstücksrecht		6					180	K2
IW3_420	Real Estate Accounting			6				180	K2
IW3_425	Immobilien-Investitionsrechnung			6				180	K1+ST+PR*/K1+PA+PR*
IW3_430	Immobilien-Projektentwicklung			6				180	PA+PR
IW3_8xx	Wahlpflichtfach <i>(nach aktuellem Plan)</i>			3				90	ST
IW3_130	Immobilienpezifisches Vertragsrecht			6				180	K2
IW3_230	Projektmanagement			3				90	K1
IW4_435	Facility Management				6			180	K2
IW4_440	Wohnungswirtschaft und -bestandsmanagement				6			180	K2
IW4_5xx	Immobilienwirtschaftliches Projekt <i>(nach aktuellem Plan)</i>				6			180	<i>individuell</i>
IW4_450	Immobilienbewertung				6			180	K1+ST
IW4_445	Immobilien-Assetmanagement und -Controlling				6			180	K1,5 (4 LP) + FS (2 LP)
IW5_330	Wertorientierte Unternehmensführung und Personalmanagement					6		180	R/PR/PA/FS
IW5_455	Immobilien-Marketing und -Vertrieb					6		180	R/K2/K1+R (je 3 LP)
IW5_460	Immobilien-Portfolio- und Risikomanagement					6		180	K1,5 (4 LP) + FS (2 LP)
IW5_5xx	Immobilienwirtschaftliches Projekt <i>(nach aktuellem Plan)</i>					6		180	<i>individuell</i>
IW5_7xx	Individuelles Profilstudium					3		90	<i>individuell</i>
IW5_7xx	Individuelles Profilstudium					3		90	<i>individuell</i>
IW6_600	Praxismodul						18	480	PB+PR*
IW6_900	Bachelorthesis							12	Bachelorthesis und Kolloquium

Abkürzung	Bezeichnung
/	oder
*	unbenotete Studienleistung (alle anderen: Prüfungsleistung)
FS	Fallstudie
IR	Internetrecherche
K2	Klausur (2 Stunden)
LB	Laborbericht
M	Mündliche Prüfung
PR	Präsentation
PA	Projektarbeit
PB	Praktikumsbericht
PF	Portfolio
R	Referat
RP	Erstellung und Dokumentation von Rechnerprogrammen
ST	Studienarbeit
EA	Experimentelles Arbeiten

Anlage 2: Bachelorurkunde

BACHELORURKUNDE

Die HAWK
Hochschule für angewandte Wissenschaft und Kunst
Hildesheim/Holzminden/Göttingen
Fakultät Management, Soziale Arbeit, Bauen

verleiht mit dieser Urkunde

Frau/Herrn **«Vorname» «Nachname»**
 geboren am «Geburtsdatum» in «Geburtsort»

den Hochschulgrad **Bachelor of Science**
 abgekürzt B. Sc.,
 nachdem sie/er die Abschlussprüfung im Studiengang

Immobilienwirtschaft und -management

bestanden hat.

Holzminden, den «Datum»

«Dekan/in»
 Dekan/in

«Studiendekan/in»
 Studiendekan/in

Anlage 3: Bachelorzeugnis

BACHELORZEUGNIS

Frau **«Vorname» «Nachname»**
 geboren am «Geburtsdatum» in «Geburtsort»

hat die Bachelorprüfung im Studiengang

Immobilienwirtschaft und -management

der Fakultät Management, Soziale Arbeit, Bauen
 bestanden.

Thema der Bachelorthesis:

Abschlussprüfung	Credits	Gesamtnote
	000	0,0 (in Worten)

Die Gesamtnote ergibt sich aus den Modulnoten (gemäß Anlage zum Bachelorzeugnis), die im Verhältnis der auf sie entfallenden Credits gewichtet werden.

Holzminde/n, den «PruefDatum»

«Studiendekan/in»
 Studiendekan/in

Notenstufen: 1,0 bis 1,50 = Sehr Gut; 1,51 bis 2,50 = Gut; 2,51 bis 3,50 = Befriedigend; 3,51 bis 4,0 = Ausreichend

Anlage 4: Diploma Supplement

DIPLOMA SUPPLEMENT

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

1. Holder of the Qualification

- | | | |
|-----|---------------------------|-------------------|
| 1.1 | Family Name | Nachname |
| 1.2 | First Name | Vorname |
| 1.3 | Date of Birth | oo.oo.oooo |
| 1.4 | Student ID Number or Code | oooooo |

2. Qualification

- 2.1 Name of Qualification and (if applicable) title conferred (in original language)
Bachelor of Science/B.Sc. Immobilienwirtschaft und -management
- 2.2 Main Field(s) of Study for the qualification
Real Estate Economics and Management
- 2.3 Name and status of awarding institution (in original language)
HAWK Hochschule für angewandte Wissenschaft und Kunst
Hildesheim/Holzminden/Göttingen
Fakultät Management, Soziale Arbeit, Bauen
University of Applied Sciences and Arts / State Institution
- 2.4 Name and status of institution administering studies (in original language)
[as above]
Status (Type / Control)
[as above]
- 2.5 Language(s) of Instruction/Examination
German

3. Level and Duration of the Qualification

- 3.1 Level of the Qualification
Bachelor programme, undergraduate, first degree, by research with thesis
- 3.2 Official duration of programme in credits and/or years
Three years, 6 semesters, 180 ECTS
- 3.3 Access Requirement(s)
General Higher Education Entrance Qualification or Entrance Qualification to Universities of Applied Sciences, or foreign equivalent.

4. Information on the Programme completed and the Results obtained

- 4.1 Mode of Study

Full Time Study

In the event of part-time study (individual application required), the official length of the programme will be extended accordingly.

4.2 Programme learning outcomes

Major purpose of the undergraduate programme „Real Estate Economics and Management“ is the training and education of future specialists in real estate economics and management. The course is structured in the way that students will receive a general knowledge in real estate including aspects of technique and law. Students have to learn characteristics and instruments of all phases of real estate life cycle. With this knowledge graduates of this programme are prepared to gain professional careers in the field of Real Estate.

The study programme prepares the student to

- know the economic, technical and legal framework of Real Estate Economy,
- learn entrepreneurial thinking and acting relating to Real Estate Economy,
- have profound knowledge of Real Estate lifecycle,
- receive IT-knowledge in Real Estate,
- be able to apply theoretical knowledge to practise,
- be working on case studies you will gain practical solutions by joined-up thinking and application-oriented methods,
- be working in small groups you will receive major qualifications like motivation, self-discipline, capacity for teamwork and assertiveness,
- Fieldtrips will get the students in close contact with representatives of leading companies of Construction and Real Estate Economy and
- permanent cooperation with associated companies will allow the students to get a high amount of practical experience.

4.3 Programme details, individual credits gained and grades/marks obtained

Please refer to the Certificate (Bachelorzeugnis) for a list of courses and grades.

4.4 Grading system and , if available, grade distribution table

Absolute grading scheme: “Sehr Gut” (1,0; 1,3) = Very Good; “Gut” (1,7; 2,0; 2,3) = Good; “Befriedigend” (2,7; 3,0; 3,3) = Satisfactory; “Ausreichend” (3,7; 4,0) = Pass; “Nicht ausreichend” (5,0) = Fail

Statistical distribution of grades: **grading table**

4.5 Overall Classification 0,0

The final grade is based on the grades awarded during the study programme and that of the final thesis (with oral component). Please refer to the Certificate (Bachelorzeugnis). When there are no marks given, not enough results are available yet to determine ECTS-grades.

5. Function of the Qualification**5.1 Access to Further Study**

Qualifies to apply for admission for master programs – Prerequisite: In compliance with the requirements of the respective universities or universities of applied sciences and arts.

5.2 Access to a regulated profession (if applicable)

The Bachelor-degree in Real Estate Economics and Management entitles its holder to the legally protected professional title “Bachelor of Science” and to exercise professional work in the field(s) for which the degree was awarded.

6. Additional Information**6.1 Additional Information**

Non-academic acquired competencies were credited in an amount of **00** credits in the following modules: ...

- 6.2 Further Information Sources
www.hawk.de

7. Certification

This Diploma Supplement refers to the following original documents:

Bachelorurkunde (Degree Certificate) dated from **00.00.0000**

Bachelorzeugnis (Certificate) dated from **00.00.0000**

Transcript of Records dated from **00.00.0000**

Certification Date: **00.00.0000**

(Official Seal / Stamp)

Dean of Study

8. Information on the German Higher Education Systemⁱ

8.1 Types of Institutions and Institutional Status

Higher education (HE) studies in Germany are offered at three types of Higher Education Institutions (HEI).ⁱⁱ

- *Universitäten* (Universities) including various specialized institutions, offer the whole range of academic disciplines. In the German tradition, universities focus in particular on basic research so that advanced stages of study have mainly theoretical orientation and research-oriented components.

- *Fachhochschulen* (Universities of Applied Sciences) concentrate their study programmes in engineering and other technical disciplines, business-related studies, social work, and design areas. The common mission of applied research and development implies an application-oriented focus of studies, which includes integrated and supervised work assignments in industry, enterprises or other relevant institutions.

- *Kunst- und Musikhochschulen* (Universities of Art/Music) offer studies for artistic careers in fine arts, performing arts and music; in such fields as directing, production, writing in theatre, film, and other media; and in a variety of design areas, architecture, media and communication.

Higher Education Institutions are either state or state-recognized institutions. In their operations, including the organization of studies and the designation and award of degrees, they are both subject to higher education legislation.

8.2 Types of Programmes and Degrees Awarded

Studies in all three types of institutions have traditionally been offered in integrated "long" (one-tier) programmes leading to Diplom- or Magister Artium degrees or completed by a Staatsprüfung (State Examination).

Within the framework of the Bologna-Process one-tier study programmes are successively being replaced by a two-tier study system. Since 1998, two-tier degrees (Bachelor and Master) have been introduced in almost all study programmes. This change is designed to provide enlarged variety and flexibility to students in planning and pursuing educational objectives, they also enhance international compatibility of studies.

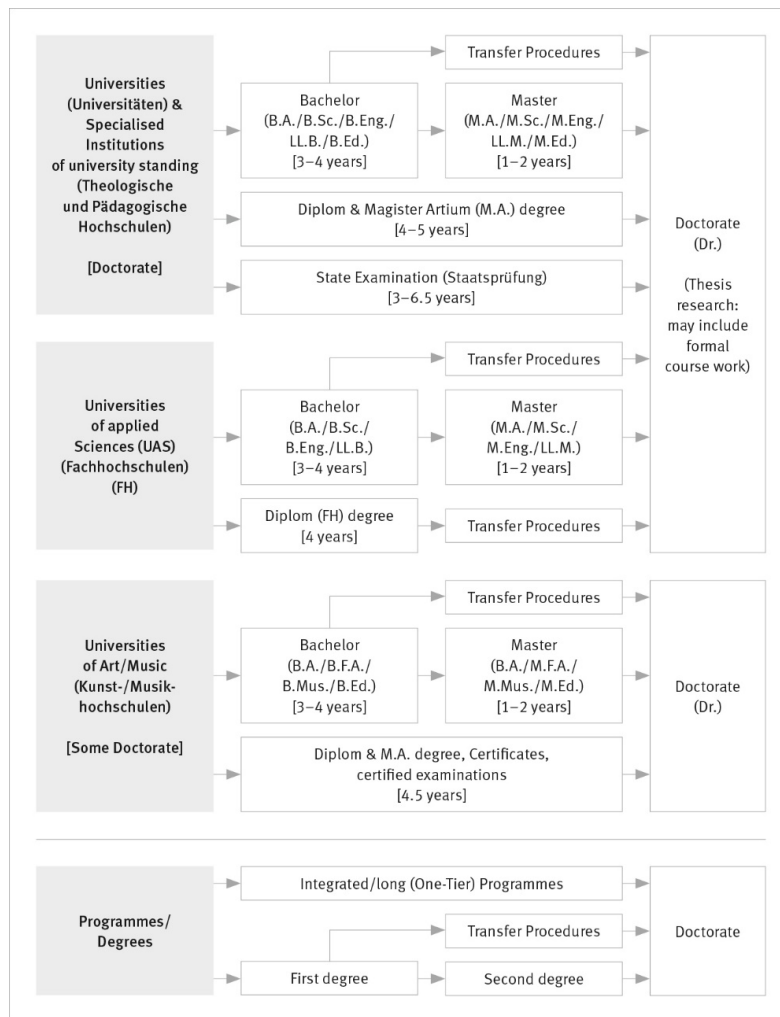
The German Qualifications Framework for Higher Education Degreesⁱⁱⁱ, the German Qualifications Framework for Lifelong Learning^{iv} and the European Qualifications Framework for Lifelong Learning^v describe the degrees of the German Higher Education System.

They contain the classification of the qualification levels as well as the resulting qualifications and competencies of the graduates.

For details cf. Sec. 8.4.1, 8.4.2, and 8.4.3 respectively. Table 1 provides a synoptic summary.

8.3 Approval/Accreditation of Programmes and Degrees

To ensure quality and comparability of qualifications, the organization of studies and general degree requirements have to conform to principles and regulations established by the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany (KMK).^{vi} In 1999, a system of accreditation for programmes of study has become operational under the control of an Accreditation Council at national level. All new programmes have to be accredited under this scheme; after a successful accreditation they receive the quality-label of the Accreditation Council.^{vii}



8.4 Organization and Structure of Studies

The following programmes apply to all three types of institutions. Bachelor's and Master's study courses may be studied consecutively, at various higher education institutions, at different types of higher education institutions and with phases of professional work between the first and the second qualification. The organization of the study programmes makes use of modular components and of the European Credit Transfer and Accumulation System (ECTS) with 30 credits corresponding to one semester.

8.4.1 Bachelor

Bachelor degree study programmes lay the academic foundations, provide methodological skills and lead to qualifications related to the professional field. The Bachelor degree is awarded after 3 to 4 years. The Bachelor degree programme includes a thesis requirement. Study courses leading to the Bachelor degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.^{viii} First degree programmes (Bachelor) lead to Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.), Bachelor of Engineering (B.Eng.), Bachelor of Laws (LL.B.), Bachelor of Fine Arts (B.F.A.), Bachelor of Music (B.Mus.) or Bachelor of Education (B.Ed.).

The Bachelor degree corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

8.4.2 Master

Master is the second degree after another 1 to 2 years. Master study programmes may be differentiated by the profile types "practice-oriented" and "research-oriented". Higher Education Institutions define the profile. The Master degree study programme includes a thesis requirement. Study programmes leading to the Master degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.^{ix} Second degree programmes (Master) lead to Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Laws (L.L.M.), Master of Fine Arts (M.F.A.), Master of Music (M.Mus.) or Master of Education (M.Ed.). Master study programmes which are designed for continuing education may carry other designations (e.g. MBA).

The Master degree corresponds to level 7 of the German Qualifications Framework/ European Qualifications Framework.

8.4.3 Integrated "Long" Programmes (One-Tier): Diplom degrees, Magister Artium, Staatsprüfung

An integrated study programme is either mono-disciplinary (*Diplom* degrees, most programmes completed by a *Staatsprüfung*) or comprises a combination of either two major or one major and two minor fields (*Magister Artium*). The first stage (1.5 to 2 years) focuses on broad orientations and foundations of the field(s) of study. An Intermediate Examination (*Diplom-Vorprüfung* for *Diplom* degrees; *Zwischenprüfung* or credit requirements for the *Magister Artium*) is prerequisite to enter the second stage of advanced studies and specializations. Degree requirements include submission of a thesis (up to 6 months duration) and comprehensive final written and oral examinations. Similar regulations apply to studies leading to a *Staatsprüfung*. The level of qualification is equivalent to the Master level.

- Integrated studies at *Universitäten (U)* last 4 to 5 years (*Diplom* degree, *Magister Artium*) or 3 to 6.5 years (*Staatsprüfung*). The *Diplom* degree is awarded in engineering disciplines, the natural sciences as well as economics and business. In the humanities, the corresponding degree is usually the *Magister Artium* (M.A.). In the social sciences, the practice varies as a matter of institutional traditions. Studies preparing for the legal, medical and pharmaceutical professions are completed by a *Staatsprüfung*. This applies also to studies preparing for teaching professions of some *Länder*.

The three qualifications (*Diplom*, *Magister Artium* and *Staatsprüfung*) are academically equivalent and correspond to level 7 of the German Qualifications Framework/ European Qualifications Framework.

They qualify to apply for admission to doctoral studies. Further prerequisites for admission may be defined by the Higher Education Institution, cf. Sec. 8.5.

- Integrated studies at *Fachhochschulen (FH)*/Universities of Applied Sciences (UAS) last 4 years and lead to a *Diplom (FH)* degree which corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

While the *FH*/UAS are non-doctorate granting institutions, qualified graduates may apply for admission to doctoral studies at doctorate-granting institutions, cf. Sec. 8.5.

- Studies at *Kunst- and Musikhochschulen* (Universities of Art/Music etc.) are more diverse in their organization, depending on the field and individual objectives. In addition to *Diplom/Magister* degrees, the integrated study programme awards include Certificates and certified examinations for specialized areas and professional purposes.

8.5 Doctorate

Universities as well as specialized institutions of university standing and some Universities of Art/Music are doctorate-granting institutions. Formal prerequisite for admission to doctoral work is a qualified Master (UAS and U), a *Magister* degree, a *Diplom*, a *Staatsprüfung*, or a foreign equivalent. Comparable degrees from universities of art and music can in exceptional cases (study programmes such as music theory, musicology, pedagogy of arts and music, media studies) also formally qualify for doctoral work. Particularly qualified holders of a Bachelor or a *Diplom (FH)* degree may also be admitted to doctoral studies without acquisition of a further degree by means of a procedure to determine their aptitude. The universities respectively the doctorate-granting institutions regulate entry to a doctorate as well as the structure of the procedure to determine aptitude. Admission further requires the acceptance of the Dissertation research project by a professor as a supervisor.

The doctoral degree corresponds to level 8 of the German Qualifications Framework/ European Qualifications Framework.

8.6 Grading Scheme

The grading scheme in Germany usually comprises five levels (with numerical equivalents; intermediate grades may be given): "*Sehr Gut*" (1) = Very Good; "*Gut*" (2) = Good; "*Befriedigend*" (3) = Satisfactory; "*Ausreichend*" (4) = Sufficient; "*Nicht ausreichend*" (5) = Non-Sufficient/Fail. The minimum passing grade is "*Ausreichend*" (4). Verbal designations of grades may vary in some cases and for doctoral degrees.

In addition, grade distribution tables as described in the ECTS Users' Guide are used to indicate the relative distribution of grades within a reference group.

8.7 Access to Higher Education

The General Higher Education Entrance Qualification (*Allgemeine Hochschulreife, Abitur*) after 12 to 13 years of schooling allows for admission to all higher educational studies. Specialized variants (*Fachgebundene Hochschulreife*) allow for admission at Fachhochschulen (UAS), universities and equivalent higher education institutions, but only in particular disciplines. Access to study programmes at *Fachhochschulen* (UAS) is also possible with a *Fachhochschulreife*, which can usually be acquired after 12 years of schooling. Admission to study programmes at Universities of Art/Music and comparable study programmes at other higher education institutions as well as admission to a study programme in sports may be based on other or additional evidence demonstrating individual aptitude.

Applicants with a vocational qualification but without a school-based higher education entrance qualification are entitled to a general higher education entrance qualification

and thus to access to all study programmes, provided they have obtained advanced further training certificates in particular state-regulated vocational fields (e.g. *Meister/Meisterin im Handwerk, Industriemeister/in, Fachwirt/in (IHK und HWK), staatlich geprüfte/r Betriebswirt/in, staatliche geprüfte/r Gestalter/in, staatlich geprüfte/r Erzieher/in*). Vocationally qualified applicants can obtain a *Fachgebundene Hochschulreife* after completing a state-regulated vocational education of at least two years' duration plus professional practice of normally at least three years' duration, after having successfully passed an aptitude test at a higher education institution or other state institution; the aptitude test may be replaced by successfully completed trial studies of at least one year's duration.^x

Higher Education Institutions may in certain cases apply additional admission procedures.

8.8 National Sources of Information

- *Kultusministerkonferenz (KMK)* [Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany]; Graurheindorfer Str. 157, D-53117 Bonn; Fax: +49[0]228/501-777; Phone: +49[0]228/501-0
- Central Office for Foreign Education (ZaB) as German NARIC; www.kmk.org; E-Mail: zab@kmk.org
- German information office of the *Länder* in the EURYDICE Network, providing the national dossier on the education system; www.kmk.org; E-Mail: eurydice@kmk.org
- *Hochschulrektorenkonferenz (HRK)* [German Rectors' Conference]; Ahrstrasse 39, D-53175 Bonn; Fax: +49[0]228/887-110; Phone: +49[0]228/887-0; www.hrk.de; E-Mail: post@hrk.de
- "Higher Education Compass" of the German Rectors' Conference features comprehensive information on institutions, programmes of study, etc. (www.higher-education-compass.de)

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- ⁱ The information covers only aspects directly relevant to purposes of the Diploma Supplement.
 - ⁱⁱ *Berufsakademien* are not considered as Higher Education Institutions, they only exist in some of the *Länder*. They offer educational programmes in close cooperation with private companies. Students receive a formal degree and carry out an apprenticeship at the company. Some *Berufsakademien* offer Bachelor courses which are recognized as an academic degree if they are accredited by a German accreditation agency.
 - ⁱⁱⁱ German Qualifications Framework for Higher Education Degrees. (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 February 2017).
 - ^{iv} German Qualifications Framework for Lifelong Learning (DQR). Joint resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany, the German Federal Ministry of Education and Research, the German Conference of Economics Ministers and the German Federal Ministry of Economics and Technology (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 15 November 2012). More information at www.dqr.de
 - ^v Recommendation of the European Parliament and the European Council on the establishment of a European Qualifications Framework for Lifelong Learning of 23 April 2008 (2008/C 111/01 – European Qualifications Framework for Lifelong Learning – EQF).
 - ^{vi} Common structural guidelines of the *Länder* for the accreditation of Bachelor's and Master's study courses (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 10.10.2003, as amended on 04.02.2010).
 - ^{vii} "Law establishing a Foundation "Foundation for the Accreditation of Study Programmes in Germany", entered into force as from 26 February 2005, GV. NRW. 2005, No. 5, p. 45 in connection with the Declaration of the *Länder* to the Foundation "Foundation for the Accreditation of Study Programmes in Germany" (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 December 2004).

viii See note No. 7.

ix See note No. 7.

x Access to higher education for applicants with a vocational qualification, but without a school-based higher education entrance qualification (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 6 March 2009).

HAWK**HOCHSCHULE****FÜR ANGEWANDTE WISSENSCHAFT UND KUNST****Hildesheim/Holzminden/Göttingen****University of Applied Sciences and Arts**

Prüfungsordnung für den Masterstudiengang Immobilienmanagement (Besonderer Teil)

Fakultät Management, Soziale Arbeit, Bauen

Der Fakultätsrat der Fakultät Management, Soziale Arbeit, Bauen der HAWK Hochschule für angewandte Wissenschaft und Kunst Hildesheim/Holzminden/Göttingen hat am 23. Oktober 2019 die Ordnung über den Besonderen Teil der Prüfungsordnung für den Masterstudiengang Immobilienmanagement beschlossen. Die Ordnung wurde am 18. November 2019 vom Präsidium der Hochschule gemäß § 37 Absatz 1 Satz 3 Ziffer 5b) NHG genehmigt. Die hochschulöffentliche Bekanntmachung erfolgte am 25. November 2019.

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§ 1 Dauer und Verlauf des Studiums

- (1) Der Gesamtumfang der Pflicht- und Wahlpflichtbereiche des viersemestrigen Masterstudiengangs beträgt 120 Leistungspunkte (Credits). Das Studium setzt sich aus Pflichtmodulen im Umfang von 60 Leistungspunkten sowie Wahlpflichtmodulen im Umfang von 30 Leistungspunkten zusammen. Wählbare Profilierungen sind „Immobilienbewertung“, Immobilienprojektentwicklung“, Immobilien-Portfolio- und Risikomanagement“ sowie „Real Estate Corporate Finance and Investment Banking“. Der Studienverlauf wird in Anlage 1 aufgezeigt, den Workload der einzelnen Module veranschaulicht ebenfalls die Anlage 1.

§ 2 Prüfungen

- (1) Die für die Masterprüfung zu erbringenden Prüfungen werden studienbegleitend erbracht. Der Modulübersicht (Anlage 1) ist zu entnehmen, welche Prüfungsformen einem Modul zugeordnet sind und es sich um Prüfungs- oder Studienleistungen handelt. Neben der Art der Prüfung ist in den Modulbeschreibungen bei zusammengesetzten Modulprüfungen die Gewichtung ausgewiesen, mit der die Gesamtmodulnote zu berechnen ist.
- (2) Ist in den Modulbeschreibungen eine Studienleistung als Prüfungsvorleistung (PVL) vorgesehen, so ist das Bestehen dieser Prüfungsvorleistung neben dem Vorliegen der Voraussetzungen gemäß § 8 des Allgemeinen Teils der Prüfungsordnung für die Zulassung zur Noten bildenden Modulabschlussprüfung erforderlich.
- (3) Für die Vergabe der Noten gemäß Absatz 4 gilt – unter Beachtung der Rundung auf eine Nachkommastelle - folgendes Bewertungsschema:
- | | |
|--|-------------------------|
| bei 95,5 % bis 100 % der erreichbaren Leistung | = 1,0 |
| bei 90,9 % bis 95,4 % der erreichbaren Leistung | = 1,3 |
| bei 84,8 % bis 90,8 % der erreichbaren Leistung | = 1,7 |
| bei 80,3 % bis 84,7 % der erreichbaren Leistung | = 2,0 |
| bei 75,8 % bis 80,2 % der erreichbaren Leistung | = 2,3 |
| bei 69,7 % bis 75,7 % der erreichbaren Leistung | = 2,7 |
| bei 65,2 % bis 69,6 % der erreichbaren Leistung | = 3,0 |
| bei 60,6 % bis 65,1 % der erreichbaren Leistung | = 3,3 |
| bei 54,5 % bis 60,5 % der erreichbaren Leistung | = 3,7 |
| bei 50,0 % bis 54,4 % der erreichbaren Leistung | = 4,0 |
| und bei weniger als 50 % der erreichbaren Leistung | = 5,0 (nicht bestanden) |
- (4) Abweichend von § 15 Absatz 2 der Prüfungsordnung Allgemeiner Teil 2019 findet keine Pflichtanmeldung zur ersten Wiederholungsprüfung statt. Eine nicht bestandene Modulprüfung nach § 15 Absatz 1 der Prüfungsordnung Allgemeiner Teil soll jedoch in der Regel im Rahmen der regulären Prüfungstermine innerhalb der nächsten beiden Semester in der gleichen Art und Dauer wiederholt werden.

§ 3 Masterarbeit und Kolloquium

- (1) Die Bearbeitungszeit für die Masterarbeit (Modul IM_900) beträgt 12 Wochen.
- (2) Eine Zulassung zum Modul Masterarbeit ist erst möglich, wenn alle Leistungspunkte bis auf die Leistungspunkte der Abschlussarbeit selbst, die Leistungspunkte der Module des Abschlusssemesters sowie die Leistungspunkte eines weiteren Moduls erbracht sind.
- (3) Im Antrag auf Zulassung zur Masterarbeit (Modulanmeldung) ist der Themenbereich der Aufgabenstellung für die Masterarbeit sowie die bzw. der Erstprüfende zu nennen. Es ist ferner die Unterschrift der bzw. des Erstprüfenden einzuholen.

- (4) Zum Kolloquium wird zugelassen, wessen Masterarbeit von beiden Prüfenden vorläufig mit mindestens ausreichend bewertet wurde. Eine Zulassung zum Kolloquium ist bereits dann möglich, wenn die Modulprüfung im gemäß Absatz 2 zulässigerweise noch offenen weiteren Fachmodul aussteht.
- (5) Das Kolloquium soll in der Regel innerhalb von acht Wochen nach Abgabe der Masterarbeit durchgeführt werden.
- (6) § 21 Absatz 4 der Prüfungsordnung Allgemeiner Teil 2019 wird ersetzt durch folgenden Text: Die Betreuung der Abschlussarbeit kann von jedem Mitglied der Professor/inn/engruppe der Fakultät übernommen werden. Mit Zustimmung der Prüfungskommission kann die Betreuung auch von einer/einem Professor/in vorgenommen werden, die oder der nicht Mitglied dieser Fakultät ist. Sie kann auch von anderen Prüfer/inne/n nach § 5 Absatz 1 und 2 der der Prüfungsordnung Allgemeiner Teil 2019 übernommen werden. In der Regel muss die oder der Erstprüfende lehrende/r Professor/in sein.

§ 4 Hochschulgrad, Zeugnis

- (1) Der Studiengang schließt mit dem Kolloquium zur Masterarbeit oder mit dem Abschluss des im gemäß § 3 Absatz 2 zulässigerweise noch offenen Fachmoduls ab.
- (2) Die Hochschule verleiht zum Abschluss den Hochschulgrad Master of Science, abgekürzt M.Sc. Hierüber stellt die Hochschule eine Urkunde mit dem Datum des Zeugnisses aus (Anlage 2). Ein Muster des Masterzeugnisses enthält Anlage 3. Gleichzeitig mit dem Zeugnis wird der/dem Studierenden ein Diploma Supplement (Anlage 4) ausgehändigt.

§ 6 Inkrafttreten und Übergangsregelungen

- (1) Diese Prüfungsordnung tritt am Tag nach ihrer hochschulöffentlichen Bekanntmachung in Kraft.
- (2) Sie gilt erstmalig für Studierende, die ihr Studium zum Wintersemester 2019/2020 beginnen.
- (3) Der Regelstudienbetrieb wird den Studierenden für die Dauer der in dieser Ordnung vorgesehenen Regelstudienzeit zuzüglich von zwei weiteren Semestern gewährleistet. Danach wird in die neue Ordnung überführt.

Anlage 1: Modulübersicht

a) Modulübersicht

Modul-Nr.	Modulnamen	LP/Semester				Work-load	Prüfungsform/ Gewichtung
		1	2	3	4		
IM1_210	Baukalkulation und –controlling	6				180	K2
IM1_010	Forschungsmethoden und Statistik	6				180	K1,5 (4LP) + ST (2LP)
IM1_310	Controlling and International Accounting	6				180	K1+PR (je 3LP)
IM1_410	Real Estate Finance and Investment	6				180	K1+R (je 3LP)
IM1_420	International Real Estate Valuation and Consulting	6				180	K2/K1+ST (je 3LP)/K1 (3LP) + ST (1,5LP) + ST (1,5LP)/ST+ST (je 3LP)/K1,5 (4,5LP) + ST (1,5LP)
IM_220	Green Building		6			180	R (6LP)/ST (6LP)
IM2_430	International Real Estate Markets		6			180	PR
IM2_44x	Wahlpflichtmodule und Profilierungen		6			180	siehe Tabelle b)
IM2_51x	Immobilienwirtschaftliches Projekt I (nach aktuellem Plan)		6			180	R/PR/FS/K2
IM2_110	Rechtsfragen der Immobilien-Projektentwicklung		6			180	PR/PB/FS/PR+PB (je 3LP)/PR+FS (je 3LP)/PB+FS (je 3LP)/PR+PB+FS (je 2LP)
IM3_320	Management			6		180	R/PR/FS/K2
IM3_45x	Profilierungen			6		180	siehe Tabelle b)
IM3_52x	Immobilienwirtschaftliches Projekt II (nach aktuellem Plan oder aus dem Wahlbereich der Profilierungen)			6		180	siehe Tabelle b)
IM3_120	Rechtsfragen des Immobilienmanagement			6		180	K3
IM3_8xx	Wahlpflichtfach (nach aktuellem Plan)			6		180	R/PR/FS/K2
IM4_9xx	Masterthesis				30	900	Thesis und Kolloquium

b) Angebot der Wahlpflichtmodule (Profilierungen)**

Modul-Nr.	Modulnamen	LP/Sem.		Work-load	Prüfungsform/ Gewichtung
		2	3		
IM2_441	Profilierung I: Immobilienbewertung	6		180	FS
IM2_442	Profilierung I: Immobilien-Projektentwicklung	6		180	PA+PR (je 3 LP)
IM2_443	Profilierung I: Immobilien-Portfolio- und Risikomanagment	6		180	FS
IM2_444	Profilierung I: Real Estate Corporate Finance and Investment Banking	6		180	R/PA/R+PA (je3 LP)
IM3_451	Profilierung II: Immobilienbewertung		6	180	FS
IM3_452	Profilierung II: Immobilien-Projektentwicklung		6	180	PA+PR (je 3 LP)
IM3_453	Profilierung II: Immobilien-Portfolio- und Risikomanagement		6	180	FS
IM3_454	Profilierung II: Real Estate Corporate Finance and Investment Banking		6	180	PA/R/PA+R (je 3 LP)

**Gemäß Studienverlaufsplan sind 12 LP zu absolvieren. Die Module werden im jährlichen Rhythmus angeboten. Beginn ist jeweils das Sommersemester.

c) Erläuterung der Abkürzungen

Abkürzung	Bezeichnung
/	oder
*	unbenotete Studienleistung (alle anderen: Prüfungsleistung)
FS	Fallstudie
IR	Internetrecherche
K2	Klausur (2 Stunden)
LB	Laborbericht
M	Mündliche Prüfung
PR	Präsentation
PA	Projektarbeit
PB	Praxis- bzw. Projektbericht
PF	Portfolio
R	Referat
ST	Studienarbeit

Anlage 2: Masterurkunde

MASTERURKUNDE

Die HAWK
 Hochschule für angewandte Wissenschaft und Kunst
 Hildesheim/Holzminden/Göttingen
 Fakultät Management, Soziale Arbeit, Bauen

verleiht mit dieser Urkunde

Frau/Herrn **«Vorname» «Nachname»**
 geboren am «Geburtsdatum» in «Geburtsort»

den Hochschulgrad **Master of Science**
 abgekürzt M. Sc.,
 nachdem sie/er die Abschlussprüfung im Studiengang

Immobilienmanagement

bestanden hat.

Holzminden, den «Datum»

«Dekan/in»
 Dekan/in

«Studiendekan/in»
 Studiendekan/in

Anlage 3: Masterzeugnis

MASTERZEUGNIS

Frau **«Vorname» «Nachname»**
 geboren am «Geburtsdatum» in «Geburtsort»

hat die Masterprüfung im Studiengang

Immobilienmanagement

der Fakultät Management, Soziale Arbeit, Bauen
 bestanden.

Thema der Masterthesis:

Abschlussprüfung	Credits	Gesamtnote
	000	0,0 (in Worten)

Die Gesamtnote ergibt sich aus den Modulnoten (gemäß Anlage zum Bachelorzeugnis),
 die im Verhältnis der auf sie entfallenden Credits gewichtet werden.

Holzminden, den «PruefDatum»

«Studiendekan/in»
 Studiendekan/in

Notenstufen: 1,0 bis 1,50 = Sehr Gut; 1,51 bis 2,50 = Gut; 2,51 bis 3,50 = Befriedigend; 3,51 bis 4,0 = Ausreichend

Anlage 4: Diploma Supplement

DIPLOMA SUPPLEMENT

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

1. Holder of the Qualification

- | | | |
|-----|---------------------------|-------------------|
| 1.1 | Family Name | Nachname |
| 1.2 | First Name | Vorname |
| 1.3 | Date of Birth | oo.oo.oooo |
| 1.4 | Student ID Number or Code | oooooo |

2. Qualification

- | | | |
|-----|--|--|
| 2.1 | Name of Qualification and (if applicable) title conferred (in original language) | Master of Science/M.Sc. Immobilienmanagement
Master of Science/M.Sc. Real Estate Management |
| 2.2 | Main Field(s) of Study for the qualification | Real Estate Management |
| 2.3 | Name and status of awarding institution (in original language) | HAWK Hochschule für angewandte Wissenschaft und Kunst
Hildesheim/Holzminde n/Göttingen
Fakultät Management, Soziale Arbeit, Bauen
University of Applied Sciences and Arts / State Institution |
| 2.4 | Name and status of institution administering studies (in original language) | [as above]
Status (Type / Control)
[as above] |
| 2.5 | Language(s) of Instruction/Examination | German |

3. Level and Duration of the Qualification

- | | | |
|-----|--|---|
| 3.1 | Level of the Qualification | Master programme/second degree by research with thesis |
| 3.2 | Official duration of programme in credits and/or years | Two years, 4 semesters, 120 ECTS |
| 3.3 | Access Requirement(s) | Bachelor or Diploma degree in Real Estate Economics or similar disciplines. |

4. Contents and Results gained

- | | | |
|-----|---------------|-------------------|
| 4.1 | Mode of Study | full time studies |
|-----|---------------|-------------------|

- 4.2 Programme learning outcomes
 Participating the Master Programme „Real Estate Management“ graduates of this course will be prepared to adopt task of management and leadership in real estate business as well as in research. The partly international focus of the programme will allow graduates to gain professional careers in national and international surroundings. Professional requirements for graduates are strongly dominated by interdisciplinary knowledge in real estate. Multidisciplinary and international teamwork meanwhile is the standard in project development, facilities management, portfolio management and real estate investment banking. The Master programme „Real Estate Management“ of the HAWK University meet these demands with its unique combination of economic, judicial, intercultural and technical aspects of real estate to an holistic system.
 Learning targets:
 You will be able to apply reliable methods of empirical research.
 You will have profound knowledge and capabilities in a specialised module of Real Estate Economy and Management.
 You will gain intercultural competence.
 You will be able to turn your theoretical knowledge into entrepreneurial thinking and behaviour.
 Working on case studies you will gain practical solutions by joined-up thinking and application-oriented interdisciplinary methods.
 Working in small groups you will receive major qualifications like motivation, self-discipline, capacity for teamwork and assertiveness.
 Fieldtrips will get you in close contact with representatives of leading international companies of Construction and Real Estate Economy.
- 4.3 Programme details, individual credits gained and grades/marks obtained
 Please refer to the Certificate (Masterzeugnis) for a list of courses and grades.
- 4.4 Grading system and , if available, grade distribution table
 Absolute grading scheme: “Sehr Gut” (1,0; 1,3) = Very Good; “Gut” (1,7; 2,0; 2,3) = Good; “Befriedigend” (2,7; 3,0; 3,3) = Satisfactory; “Ausreichend” (3,7; 4,0) = Pass; “Nicht ausreichend” (5,0) = Fail
 Statistical distribution of grades: **grading table**
- 4.5 Overall Classification 0,0
 The final grade is based on the grades awarded during the study programme and that of the final thesis (with oral component). Please refer to the Certificate (Masterzeugnis).
 When there are no marks given, not enough results are available yet to determine ECTS-grades.
- 5. Function of the Qualification**
- 5.1 Access to Further Study
 Qualifies to apply for admission for master programmes – Prerequisite: In compliance with the requirements of the respective universities or universities of applied sciences and arts.
- 5.2 Access to a regulated profession (if applicable)
 The Master degree entitles its holder to work professionally in all fields of real estate management, project management, banking, consulting.
- 6. Additional Information**
- 6.1 Additional Information
- 6.2 Further Information Sources
www.hawk.de

7. Certification

This Diploma Supplement refers to the following original documents:

Masterurkunde (Degree Certificate) dated from **00.00.0000**

Masterzeugnis (Certificate) dated from **00.00.0000**

Transcript of Records dated from **00.00.0000**

Certification Date: **00.00.0000**

(Official Seal / Stamp)

Dean of Study

8. Information on the German Higher Education Systemⁱ

8.1 Types of Institutions and Institutional Status

Higher education (HE) studies in Germany are offered at three types of Higher Education Institutions (HEI).ⁱⁱ

- *Universitäten* (Universities) including various specialized institutions, offer the whole range of academic disciplines. In the German tradition, universities focus in particular on basic research so that advanced stages of study have mainly theoretical orientation and research-oriented components.

- *Fachhochschulen* (Universities of Applied Sciences) concentrate their study programmes in engineering and other technical disciplines, business-related studies, social work, and design areas. The common mission of applied research and development implies an application-oriented focus of studies, which includes integrated and supervised work assignments in industry, enterprises or other relevant institutions.

- *Kunst- und Musikhochschulen* (Universities of Art/Music) offer studies for artistic careers in fine arts, performing arts and music; in such fields as directing, production, writing in theatre, film, and other media; and in a variety of design areas, architecture, media and communication.

Higher Education Institutions are either state or state-recognized institutions. In their operations, including the organization of studies and the designation and award of degrees, they are both subject to higher education legislation.

8.2 Types of Programmes and Degrees Awarded

Studies in all three types of institutions have traditionally been offered in integrated "long" (one-tier) programmes leading to Diplom- or Magister Artium degrees or completed by a Staatsprüfung (State Examination).

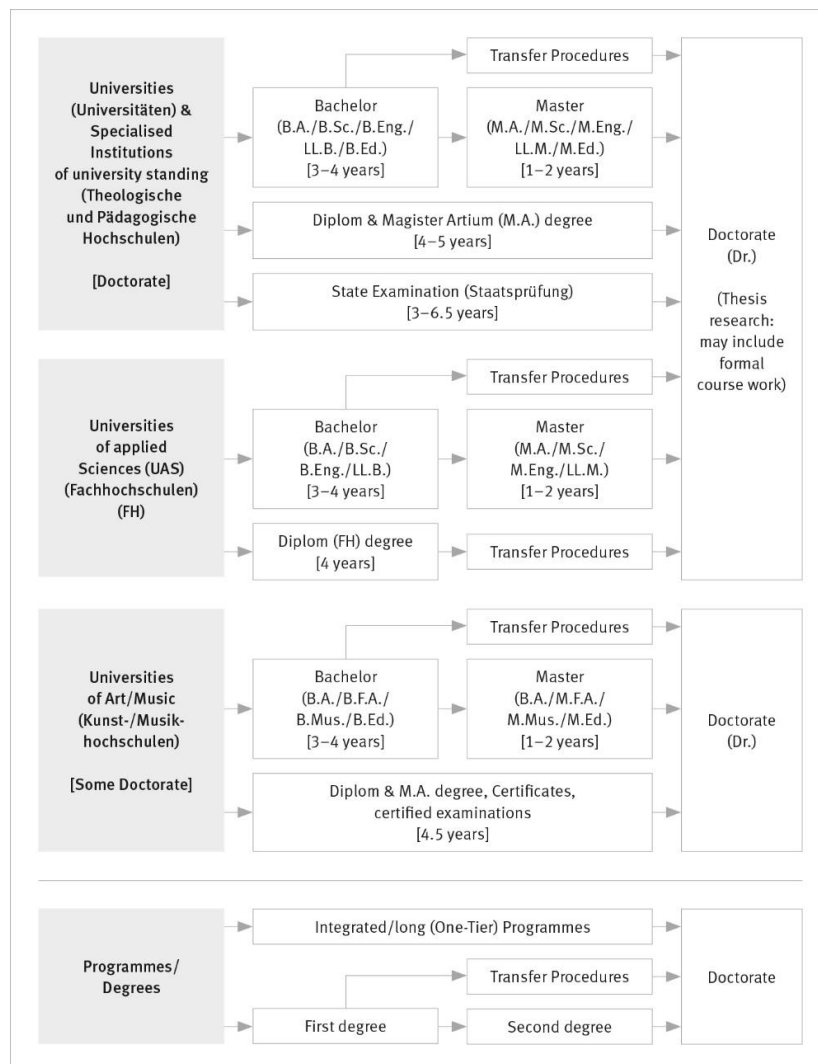
Within the framework of the Bologna-Process one-tier study programmes are successively being replaced by a two-tier study system. Since 1998, two-tier degrees (Bachelor and Master) have been introduced in almost all study programmes. This change is designed to provide enlarged variety and flexibility to students in planning and pursuing educational objectives, they also enhance international compatibility of studies.

The German Qualifications Framework for Higher Education Degreesⁱⁱⁱ, the German Qualifications Framework for Lifelong Learning^{iv} and the European Qualifications Framework for Lifelong Learning^v describe the degrees of the German Higher Education System. They contain the classification of the qualification levels as well as the resulting qualifications and competencies of the graduates.

For details cf. Sec. 8.4.1, 8.4.2, and 8.4.3 respectively. Table 1 provides a synoptic summary.

8.3 Approval/Accreditation of Programmes and Degrees

To ensure quality and comparability of qualifications, the organization of studies and general degree requirements have to conform to principles and regulations established by the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany (KMK).^{vi} In 1999, a system of accreditation for programmes of study has become operational under the control of an Accreditation Council at national level. All new programmes have to be accredited under this scheme; after a successful accreditation they receive the quality-label of the Accreditation Council.^{vii}



8.4 Organization and Structure of Studies

The following programmes apply to all three types of institutions. Bachelor's and Master's study courses may be studied consecutively, at various higher education institutions, at different types of higher education institutions and with phases of professional work between the first and the second qualification. The organization of the study programmes makes use of modular components and of the European Credit Transfer and Accumulation System (ECTS) with 30 credits corresponding to one semester.

8.4.1 Bachelor

Bachelor degree study programmes lay the academic foundations, provide methodological skills and lead to qualifications related to the professional field. The Bachelor degree is awarded after 3 to 4 years. The Bachelor degree programme includes a thesis requirement. Study courses leading to the Bachelor degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.^{viii} First degree programmes (Bachelor) lead to Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.), Bachelor of Engineering (B.Eng.), Bachelor of Laws (LL.B.), Bachelor of Fine Arts (B.F.A.), Bachelor of Music (B.Mus.) or Bachelor of Education (B.Ed.).

The Bachelor degree corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

8.4.2 Master

Master is the second degree after another 1 to 2 years. Master study programmes may be differentiated by the profile types "practice-oriented" and "research-oriented". Higher Education Institutions define the profile. The Master degree study programme includes a thesis requirement. Study programmes leading to the Master degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.^{ix} Second degree programmes (Master) lead to Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Laws (L.L.M.), Master of Fine Arts (M.F.A.), Master of Music (M.Mus.) or Master of Education (M.Ed.). Master study programmes which are designed for continuing education may carry other designations (e.g. MBA).

The Master degree corresponds to level 7 of the German Qualifications Framework/ European Qualifications Framework.

8.4.3 Integrated "Long" Programmes (One-Tier): Diplom degrees, Magister Artium, Staatsprüfung

An integrated study programme is either mono-disciplinary (*Diplom* degrees, most programmes completed by a *Staatsprüfung*) or comprises a combination of either two major or one major and two minor fields (*Magister Artium*). The first stage (1.5 to 2 years) focuses on broad orientations and foundations of the field(s) of study. An Intermediate Examination (*Diplom-Vorprüfung* for *Diplom* degrees; *Zwischenprüfung* or credit requirements for the *Magister Artium*) is prerequisite to enter the second stage of advanced studies and specializations. Degree requirements include submission of a thesis (up to 6 months duration) and comprehensive final written and oral examinations. Similar regulations apply to studies leading to a *Staatsprüfung*. The level of qualification is equivalent to the Master level.

- Integrated studies at *Universitäten (U)* last 4 to 5 years (*Diplom* degree, *Magister Artium*) or 3 to 6.5 years (*Staatsprüfung*). The *Diplom* degree is awarded in engineering disciplines, the natural sciences as well as economics and business. In the humanities, the corresponding degree is usually the *Magister Artium* (M.A.). In the social sciences, the practice varies as a matter of institutional traditions. Studies preparing for the legal, medical and pharmaceutical professions are completed by a *Staatsprüfung*. This applies also to studies preparing for teaching professions of some *Länder*.

The three qualifications (*Diplom*, *Magister Artium* and *Staatsprüfung*) are academically equivalent and correspond to level 7 of the German Qualifications Framework/ European Qualifications Framework.

They qualify to apply for admission to doctoral studies. Further prerequisites for admission may be defined by the Higher Education Institution, cf. Sec. 8.5.

- Integrated studies at *Fachhochschulen (FH)*/Universities of Applied Sciences (UAS) last 4 years and lead to a *Diplom (FH)* degree which corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

While the *FH/UAS* are non-doctorate granting institutions, qualified graduates may apply for admission to doctoral studies at doctorate-granting institutions, cf. Sec. 8.5.

- Studies at *Kunst- and Musikhochschulen* (Universities of Art/Music etc.) are more diverse in their organization, depending on the field and individual objectives. In addition to *Diplom/Magister* degrees, the integrated study programme awards include Certificates and certified examinations for specialized areas and professional purposes.

8.5 Doctorate

Universities as well as specialized institutions of university standing and some Universities of Art/Music are doctorate-granting institutions. Formal prerequisite for admission to doctoral work is a qualified Master (UAS and U), a *Magister* degree, a *Diplom*, a *Staatsprüfung*, or a foreign equivalent. Comparable degrees from universities of art and music can in exceptional cases (study programmes such as music theory, musicology, pedagogy of arts and music, media studies) also formally qualify for doctoral work. Particularly qualified holders of a Bachelor or a *Diplom (FH)* degree may also be admitted to doctoral studies without acquisition of a further degree by means of a procedure to determine their aptitude. The universities respectively the doctorate-granting institutions regulate entry to a doctorate as well as the structure of the procedure to determine aptitude. Admission further requires the acceptance of the Dissertation research project by a professor as a supervisor.

The doctoral degree corresponds to level 8 of the German Qualifications Framework/ European Qualifications Framework.

8.6 Grading Scheme

The grading scheme in Germany usually comprises five levels (with numerical equivalents; intermediate grades may be given): "*Sehr Gut*" (1) = Very Good; "*Gut*" (2) = Good; "*Befriedigend*" (3) = Satisfactory; "*Ausreichend*" (4) = Sufficient; "*Nicht ausreichend*" (5) = Non-Sufficient/Fail. The minimum passing grade is "*Ausreichend*" (4). Verbal designations of grades may vary in some cases and for doctoral degrees.

In addition, grade distribution tables as described in the ECTS Users' Guide are used to indicate the relative distribution of grades within a reference group.

8.7 Access to Higher Education

The General Higher Education Entrance Qualification (*Allgemeine Hochschulreife, Abitur*) after 12 to 13 years of schooling allows for admission to all higher educational studies. Specialized variants (*Fachgebundene Hochschulreife*) allow for admission at *Fachhochschulen* (UAS), universities and equivalent higher education institutions, but only in particular disciplines. Access to study programmes at *Fachhochschulen* (UAS) is also possible with a *Fachhochschulreife*, which can usually be acquired after 12 years of schooling. Admission to study programmes at Universities of Art/Music and comparable study programmes at other higher education institutions as well as admission to a study programme in sports may be based on other or additional evidence demonstrating individual aptitude.

Applicants with a vocational qualification but without a school-based higher education entrance qualification are entitled to a general higher education entrance qualification

and thus to access to all study programmes, provided they have obtained advanced further training certificates in particular state-regulated vocational fields (e.g. *Meister/Meisterin im Handwerk, Industriemeister/in, Fachwirt/in (IHK und HWK), staatlich geprüfte/r Betriebswirt/in, staatliche geprüfte/r Gestalter/in, staatlich geprüfte/r Erzieher/in*). Vocationally qualified applicants can obtain a *Fachgebundene Hochschulreife* after completing a state-regulated vocational education of at least two years' duration plus professional practice of normally at least three years' duration, after having successfully passed an aptitude test at a higher education institution or other state institution; the aptitude test may be replaced by successfully completed trial studies of at least one year's duration.^x

Higher Education Institutions may in certain cases apply additional admission procedures.

8.8 National Sources of Information

- *Kultusministerkonferenz (KMK)* [Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany]; Graurheindorfer Str. 157, D-53117 Bonn; Fax: +49[0]228/501-777; Phone: +49[0]228/501-0
- Central Office for Foreign Education (ZaB) as German NARIC; www.kmk.org; E-Mail: zab@kmk.org
- German information office of the *Länder* in the EURYDICE Network, providing the national dossier on the education system; www.kmk.org; E-Mail: eurydice@kmk.org
- *Hochschulrektorenkonferenz (HRK)* [German Rectors' Conference]; Ahrstrasse 39, D-53175 Bonn; Fax: +49[0]228/887-110; Phone: +49[0]228/887-0; www.hrk.de; E-Mail: post@hrk.de
- "Higher Education Compass" of the German Rectors' Conference features comprehensive information on institutions, programmes of study, etc. (www.higher-education-compass.de)

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- ⁱ The information covers only aspects directly relevant to purposes of the Diploma Supplement.
 - ⁱⁱ *Berufsakademien* are not considered as Higher Education Institutions, they only exist in some of the *Länder*. They offer educational programmes in close cooperation with private companies. Students receive a formal degree and carry out an apprenticeship at the company. Some *Berufsakademien* offer Bachelor courses which are recognized as an academic degree if they are accredited by a German accreditation agency.
 - ⁱⁱⁱ German Qualifications Framework for Higher Education Degrees. (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 February 2017).
 - ^{iv} German Qualifications Framework for Lifelong Learning (DQR). Joint resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany, the German Federal Ministry of Education and Research, the German Conference of Economics Ministers and the German Federal Ministry of Economics and Technology (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 15 November 2012). More information at www.dqr.de
 - ^v Recommendation of the European Parliament and the European Council on the establishment of a European Qualifications Framework for Lifelong Learning of 23 April 2008 (2008/C 111/01 – European Qualifications Framework for Lifelong Learning – EQF).
 - ^{vi} Common structural guidelines of the *Länder* for the accreditation of Bachelor's and Master's study courses (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 10.10.2003, as amended on 04.02.2010).
 - ^{vii} "Law establishing a Foundation "Foundation for the Accreditation of Study Programmes in Germany", entered into force as from 26 February 2005, GV. NRW. 2005, No. 5, p. 45 in connection with the Declaration of the *Länder* to the Foundation "Foundation: Foundation for the Accreditation of Study Programmes in Germany" (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 December 2004).

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- viii See note No. 7.
 - ix See note No. 7.
 - x Access to higher education for applicants with a vocational qualification, but without a school-based higher education entrance qualification (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 6 March 2009).

HAWK

HOCHSCHULE

FÜR ANGEWANDTE WISSENSCHAFT UND KUNST

Hildesheim/Holzminde n/Göttingen

University of Applied Sciences and Arts

**Prüfungsordnung für den konsekutiven Masterstudiengang
Energieeffizientes und Nachhaltiges Bauen
(Besonderer Teil)**

Fakultät Management, Soziale Arbeit, Bauen

Der Fakultätsrat der Fakultät Management, Soziale Arbeit, Bauen der HAWK Hochschule für angewandte Wissenschaft und Kunst Hildesheim/Holzminde n/Göttingen hat am 23. Oktober 2019 die Ordnung über den Besonderen Teil der Prüfungsordnung für den konsekutiven Masterstudiengang Energieeffizientes und Nachhaltiges Bauen beschlossen. Die Ordnung wurde am 18. November 2019 vom Präsidium der Hochschule gemäß § 37 Absatz 1 Satz 3 Ziffer 5b) NHG genehmigt. Die hochschulöffentliche Bekanntmachung erfolgte am 25. November 2019.

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§ 1 Dauer und Verlauf des Studiums

- (1) Die Regelstudienzeit des Masterstudiengangs Energieeffizientes und Nachhaltiges Bauen beträgt drei Semester. Für Absolvent/inn/en einschlägiger sechssemestriger Bachelorstudiengänge ist dem Masterstudiengang ein einsemestriges Angleichungssemester im Umfang von 30 Leistungspunkten vorangestellt. Das Angleichungssemester ist gemäß Studienverlaufsplan zu absolvieren, wobei die zu absolvierenden Module je nach Art und Ausrichtung des vorausgegangenen Bachelorstudiengangs variieren können.
- (2) Das Studium des dreisemestrigen Masterstudiengangs setzt sich aus Pflichtmodulen im Umfang von 60 Leistungspunkten sowie Wahlpflichtmodulen im Umfang von 30 Leistungspunkten zusammen. Studienverlauf und Workload werden in Anlage 1 aufgezeigt. Wählbare Studienprofile sind „Planen und Bauen“, „Gebäude- und Energietechnik“ und „Baumanagement“.

§ 2 Prüfungen

- (1) Die für die Masterprüfung zu erbringenden Prüfungen werden studienbegleitend erbracht. Der Modulübersicht (Anlage 1) ist zu entnehmen, welche Prüfungsformen einem Modul zugeordnet sind und ob es sich um Prüfungs- oder Studienleistungen handelt. Neben der Art der Prüfung ist in den Modulbeschreibungen bei zusammengesetzten Modulprüfungen die Gewichtung ausgewiesen, mit der die Gesamtmodulnote zu berechnen ist.
- (2) Ist in den Modulbeschreibungen eine Studienleistung als Prüfungsvorleistung (PVL) vorgesehen, so ist das Bestehen dieser Prüfungsvorleistung neben dem Vorliegen der Voraussetzungen gemäß § 8 des Allgemeinen Teils der Prüfungsordnung für die Zulassung zur Noten bildenden Modulabschlussprüfung erforderlich.
- (3) Für die Vergabe der Noten gemäß Absatz 4 gilt – unter Beachtung der Rundung auf eine Nachkommastelle - folgendes Bewertungsschema:

bei 95,5 % bis 100 % der erreichbaren Leistung	= 1,0
bei 90,9 % bis 95,4 % der erreichbaren Leistung	= 1,3
bei 84,8 % bis 90,8 % der erreichbaren Leistung	= 1,7
bei 80,3 % bis 84,7 % der erreichbaren Leistung	= 2,0
bei 75,8 % bis 80,2 % der erreichbaren Leistung	= 2,3
bei 69,7 % bis 75,7 % der erreichbaren Leistung	= 2,7
bei 65,2 % bis 69,6 % der erreichbaren Leistung	= 3,0
bei 60,6 % bis 65,1 % der erreichbaren Leistung	= 3,3
bei 54,5 % bis 60,5 % der erreichbaren Leistung	= 3,7
bei 50,0 % bis 54,4 % der erreichbaren Leistung	= 4,0
und bei weniger als 50 % der erreichbaren Leistung	= 5,0 (nicht bestanden)
- (4) Abweichend von § 15 Absatz 2 der Prüfungsordnung Allgemeiner Teil 2019 findet keine Pflichtanmeldung zur ersten Wiederholungsprüfung statt. Eine nicht bestandene Modulprüfung nach § 15 Absatz 1 der Prüfungsordnung Allgemeiner Teil soll jedoch in der Regel im Rahmen der regulären Prüfungstermine innerhalb der nächsten beiden Semester in der gleichen Art und Dauer wiederholt werden.

§ 3 Masterarbeit und Kolloquium

- (1) Die Bearbeitungszeit für die Masterarbeit (Modul EN3 905) beträgt 12 Wochen.
- (2) Eine Zulassung zum Modul Masterarbeit ist erst möglich, wenn alle Leistungspunkte bis auf die Leistungspunkte der Abschlussarbeit selbst sowie die Leistungspunkte eines weiteren Moduls erbracht sind.

- (3) Im Antrag auf Zulassung zur Masterarbeit (Modulanmeldung) ist der Themenbereich der Aufgabenstellung für die Masterarbeit sowie die/der Erstprüfende zu nennen. Es ist ferner die Unterschrift der/des Erstprüfenden einzuholen.
- (4) Zum Kolloquium wird zugelassen, wessen Masterarbeit von beiden Prüfenden vorläufig mit mindestens ausreichend bewertet wurde. Eine Zulassung zum Kolloquium ist bereits dann möglich, wenn die Modulprüfung im gemäß Absatz 2 zulässigerweise noch offenen weiteren Fachmodul aussteht.
- (5) Das Kolloquium soll in der Regel innerhalb von acht Wochen nach Abgabe der Masterarbeit durchgeführt werden.
- (6) § 21 Absatz 4 der Prüfungsordnung Allgemeiner Teil 2019 wird ersetzt durch folgenden Text: Die Betreuung der Abschlussarbeit kann von jedem Mitglied der Professor/inn/engruppe der Fakultät übernommen werden. Mit Zustimmung der Prüfungskommission kann die Betreuung auch von einer/einem Professor/in vorgenommen werden, die oder der nicht Mitglied dieser Fakultät ist. Sie kann auch von anderen Prüfer/inne/n nach § 5 Absatz 1 und 2 der der Prüfungsordnung Allgemeiner Teil 2019 übernommen werden. In der Regel muss die oder der Erstprüfende lehrende/r Professor/in sein.

§ 4 Hochschulgrad, Zeugnis

- (1) Der Studiengang schließt mit dem Kolloquium zur Masterarbeit oder mit dem Abschluss des im gemäß § 3 Absatz 2 zulässigerweise noch offenen Fachmoduls ab.
- (2) Die Hochschule verleiht zum Abschluss den Hochschulgrad Master of Engineering, abgekürzt M.Eng. Hierüber stellt die Hochschule eine Urkunde mit dem Datum des Zeugnisses aus (Anlage 2). Ein Muster des Masterzeugnisses enthält Anlage 3. Gleichzeitig mit dem Zeugnis wird der/dem Studierenden ein Diploma Supplement (Anlage 4) ausgehändigt.

§ 5 Inkrafttreten und Übergangsregelungen

- (1) Diese Prüfungsordnung tritt am Tag nach ihrer hochschulöffentlichen Bekanntmachung in Kraft.
- (2) Sie gilt erstmalig für Studierende, die ihr Studium zum Wintersemester 2019/2020 mit der viersemestrigen Variante (mit Angleichungssemester) beginnen bzw. die ihr Studium zum Sommersemester 2020 mit der dreisemestrigen Variante (ohne Angleichungssemester) beginnen.
- (3) Der Regelstudienbetrieb wird den Studierenden für die Dauer der in dieser Ordnung vorgesehenen Regelstudienzeit zuzüglich von zwei weiteren Semestern gewährleistet.

Anlage 1: Modulübersicht

a) Modulangebot für das Angleichungssemester**

Modul-Nr.	Modulname	LP	Workload	Prüfungsform
ENA_142	Massivbau/Baukonstruktion	6	180	K2/M
ENA_143	Baustoffkunde	6	180	K2+LB*
ENA_144	Baukonstruktion/Bauphysik	6	180	ST+LB*/R+LB*
ENA_023	Grundlagen CAD - 2D, 3D, Visualisierung	6	180	PA
ENA_145	Gebäudeenergie-technik	6	180	K1,5+PR+LB*/GL+LB*
ENA_200	Einführung in das Baumanagement	3	90	K1
ENA_011	Grundlagen des Rechts	3	90	K1,5/ST
ENA_XXX	Individuelles Austauschmodul (Studienberatung)	6	180	<i>individuell</i>

**Gemäß § 1 Absatz 1 sind je nach Art und Ausrichtung des Bachelorabschlusses 30 Leistungspunkte zu erbringen.

b) Modulübersicht für den dreisemestrigen Masterstudiengang

Modul-Nr.	Modulname	LP/Semester			Workload	Prüfungsform
		1	2	3		
EN1_150	Energetisches Bauen/regenerative Energien	6			180	PF+R/PF+ST/PF+K1/K2/ K1+R/K1+ST
EN1_220	Bauvertragsmanagement	6			180	K2/M
EN1_XX1	Wahlpflichtmodul WPM 1	6			180	<i>s. Tabelle unter c)</i>
EN1_YY4	Profil-Wahlpflichtmodul WPM 4	6			180	<i>s. Tabelle unter c)</i>
EN1_521	Projekt 1	6			180	PA+PF*/PA+PR/PA+PR+PF*
EN2_151	Nachhaltiges Planen und Bauen/Zertifizierung		6		180	ST+K1/K2/ST+R/ST+PF
EN2_XX2	Wahlpflichtmodul WPM 2		6		180	<i>s. Tabelle unter c)</i>
EN2_XX3	Wahlpflichtmodul WPM 3		6		180	<i>s. Tabelle unter c)</i>
EN2_YY5	Profil-Wahlpflichtmodul WPM 5		6		180	<i>s. Tabelle unter c)</i>
EN2_522	Projekt 2		6		180	PA+PF*/PA+PR/PA+PR+PF*
EN3_905	Masterarbeit			30	900	Masterarbeit mit Kolloquium

c) Angebot der Wahlpflichtmodule und Profil-Wahlpflichtmodule***:

Modul-Nr.	Modulnamen	LP	Workload	Prüfungsform
Angebot Wahlpflichtmodule WPM 1, WPM 2, WPM 3				
EN_110	Grundlagen des baulichen Brandschutzes	3	90	K1,5
EN_152	Baulicher Brandschutz	3	90	K1,5
EN_153	Gebäude- und Anlagensimulation	6	180	EDRP/M
EN_154	Moderne Methoden der Tragwerksanalyse	6	180	ST/R
EN_155	Stahlbeton- und Spannbetonbau	6	180	K2/ST
EN_158	Blockheizkraftwerke	3	90	EDRP+LP*/R+LP*/FS+LP*
EN_159	Innovative Anwendungen der regenerativen Energietechnik	3	90	R/PA/PR/M
EN_161	Innovationen der technischen Gebäudeausrüstung	6	180	K2/R/FS
EN_162	Energieberatung	6	180	ST/R/ST+PF*
EN_163	Ausgewählte Konstruktionen des Stahl- und Ingenieurholzbau	6	180	K2
EN_164	Bauwerkserhaltung	6	180	K2+LB*/M+LB*/ST+LB*
EN_165	Baubiologie	6	180	PA+LB*/PR+LB*/ST+LB*
EN_166	Baustoffe – Struktur und Zusammensetzung	6	180	K2
EN_167	Moderne Baustoffe	6	180	K1+ST/K2+ST/M
EN_020	Investition und Finanzierung	6	180	K3/K1,5+R
EN_021	Visualisierung und 3D-Techniken	6	180	PA
EN_221	Bauleitplanung/Bauordnungen	6	180	K2/R/ST
EN_222	Wirtschaftlichkeit gebäudetechnischer Anlagen	6	180	K2/R/FS/PA

Modul-Nr.	Modulnamen	LP	Workload	Prüfungsform
Angebot Profil-Wahlpflichtmodule WPM 4, WPM 5				
EN_164	Bauwerkserhaltung	6	180	K2+LB*/M+LB*/ST+LB*
EN_165	Baubiologie	6	180	PA+LB*/P+LB*/ST+LB*
EN_169	Nachhaltiges Entwerfen und Konstruieren	6	180	PF+PR/PA+PR/R/ST+PR
EN_171	Optimierung gebäudetechnischer Anlagen	6	180	K2/R/FS
EN_172	Integrale Planung/BIM	6	180	EDRP/R/FS
EN_162	Energieberatung	6	180	ST/R/ST+PF*
EN_222	Wirtschaftlichkeit gebäudetechnischer Anlagen	6	180	K2/R/FS/PA
EN_161	Innovationen der technischen Gebäudeausrüstung	6	180	K2/R/FS
EN_223	Angewandtes Projektmanagement	6	180	ST+PR
EN_224	Claim-Management	6	180	ST+PR/K2
EN_225	Sonderthemen des Baumanagements	6	180	ST+PR/K2/M

*** Es sind 18 Leistungspunkte im Wahlpflichtbereich und 12 Leistungspunkte im Profil-Wahlpflichtbereich zu absolvieren. Einige Module sind beiden Bereichen zugeordnet. Die Module werden im jährlichen Rhythmus angeboten. Das konkrete Modulangebot richtet sich nach Studierendenzahlen und Personalverfügbarkeit.

d) Abkürzungen für die Prüfungsformen (siehe § 8 Absatz 3 Prüfungsordnung Allgemeiner Teil):

Abkürzung	Bezeichnung
*	Studienleistung (alle anderen sind Prüfungsleistungen)
/	Der Schrägstrich trennt alternative Varianten der vorgesehenen Prüfungsformen.
FS	Fallstudie
GL	Gestaltung eines Lehrsegments
IR	Internetrecherche
K2	Klausur (2 Stunden)
LB	Laborbericht
M	Mündliche Prüfung
PR	Präsentation
PA	Projektarbeit
PB	Praktikumsbericht
PF	Portfolio
R	Referat
EDRP	Erstellung und Dokumentation von Rechnerprogrammen
ST	Studienarbeit

Anlage 2: Masterurkunde

MASTERURKUNDE

Die HAWK
Hochschule für angewandte Wissenschaft und Kunst
Hildesheim/Holzminden/Göttingen
Fakultät Management, Soziale Arbeit, Bauen

verleiht mit dieser Urkunde

Frau/Herrn **«Vorname» «Nachname»**
 geboren am «Geburtsdatum» in «Geburtsort»

den Hochschulgrad **Master of Engineering**
 abgekürzt M. Eng.,
 nachdem sie/er die Abschlussprüfung im Studiengang

Energieeffizientes und Nachhaltiges Bauen

bestanden hat.

Holzminden, den «Datum»

«Dekan/in»
 Dekan/in

«Studiendekan/in»
 Studiendekan/in

Anlage 3: Masterzeugnis**MASTERZEUGNIS**

Frau **«Vorname» «Nachname»**
geboren am «Geburtsdatum» in «Geburtsort»

hat die Masterprüfung im Studiengang

Energieeffizientes und Nachhaltiges Bauen

der Fakultät Management, Soziale Arbeit, Bauen
bestanden.

Thema der Masterthesis:

Abschlussprüfung	Credits	Gesamtnote
	000	0,0 (in Worten)

Die Gesamtnote ergibt sich aus den Modulnoten (gemäß Anlage zum Bachelorzeugnis), die im Verhältnis der auf sie entfallenden Credits gewichtet werden.

Holzminde n, den «PruefDatum»

«Studiendekan/in»
Studiendekan/in

Notenstufen: 1,0 bis 1,50 = Sehr Gut; 1,51 bis 2,50 = Gut; 2,51 bis 3,50 = Befriedigend; 3,51 bis 4,0 = Ausreichend

Anlage 4: Diploma Supplement

DIPLOMA SUPPLEMENT

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

1. Holder of the Qualification

- | | | |
|-----|-------------------------------|-------------------------------------|
| 1.1 | Family Name | Nachname |
| 1.2 | First Name | Vorname |
| 1.3 | Date, Place, Country of Birth | oo.oo.oooo, Geburtsort, Land |
| 1.4 | Student ID Number or Code | oooooo |

2. Qualification

- 2.1 Name of Qualification (in original language)
 Master of Engineering– M.Eng.
 Title Conferred:
 Master of Engineering/M.Eng. Energieeffizientes und Nachhaltiges Bauen
 Master of Engineering/M.Eng. Energy efficient and Sustainable Construction
- 2.2 Main Field(s) of Study
 Energy efficient and sustainable construction
 with
 planning and building or
 management in construction or
 building services engineering and energy engineering
 as a possible profile to be chosen
- 2.3 Institution Awarding the Qualification (in original language)
 HAWK Hochschule für angewandte Wissenschaft und Kunst
 Hildesheim/Holzminde n/Göttingen
 Fakultät Management, Soziale Arbeit, Bauen
 Status (Type / Control)
 University of Applied Sciences and Arts / State Institution
- 2.4 Institution Administering Studies (in original language)
 [as above]
 Status (Type / Control)
 [as above]
- 2.5 Language(s) of Instruction/Examination
 German
- #### 3. Level of the Qualification
- 3.1 Level of Qualification

Master programme, graduate study programme, second degree (1,5 or 2 years) by re- search including Master Thesis

3.2 Official Length of Programme

1,5 years or 2 years, including Master Thesis (30 credit points)

3.3 Access Requirement(s)

Diploma or Bachelor degree in engineering, architecture, real estate management or sim- ilar disciplines related to design, building and building services engineering.

4. Contents and Results gained

4.1 Mode of Study

1.5 years for Bachelor graduates who studied in a 7-semester course and

2 years for Bachelor graduates who studied in a 6-semester course, full time studies

4.2 Programme Requirements

Due to interdisciplinary and subject-linked aspects of the study, graduates have the abi- lity to develop sound concepts in the broad field of energy-efficient and sustainable buil- ding and, with respect to the chosen profile, these concepts are continued up to the ne- cessary planning details and are realized in building practice.

Having finished the Master studies, graduates have the competences of applying scien- tific methods and from these they develop solution concepts for practice.

Graduates have the abilities to deal with complex assignments of energy-efficient and sustainable building in a comprehensive and goal-directed way. They know how to link own competences to those of other fields and then to work out and to submit appropri- ate solutions.

The Master program „Energy Efficient and Sustainable Constructions“ links within the construction industry the planning and execution competences with consideration to economic aspects as well as energy efficiency, sustainability and environmental protec- tion.

The use of renewable energies and the protection of natural resources have to be taken into consideration for the fairness of future generations. The program, which is a combi- nation of technical, economic and legal subjects, is set up interdisciplinary and focuses in particular on energy efficiency and sustainability in the curriculum. Students acquire the following knowledge and skills in the compulsory modules: refurbishment, energetic building, building contract management, management skills, sustainable planning and construction, certification according to Green Building standards. There is a wide range on offer of optional modules so that students deepen and broaden their knowledge ac- cording to their skills and interests. The current developments in the construction sector show that more and more complex projects can only be controlled in future by abilities of subject linked understanding. The co-operation of different departments has become daily business for many projects and the demand on all people involved is team spirit. Without giving up the demands of professional competences in each field of the previ- ous Bachelor studies, the term “Interdisciplinary skills” is emphasized by teaching of key-qualifications, such as creativity, thinking abstract, working in interdisciplinary context, teamwork and communication skills.

Energy efficient and sustainable constructions offer a combination of technical, econo- mical and legal contents and modules which compose an interdisciplinary course in building design and engineering. Energy efficiency and sustainability are forming the core of lectures and assignments.

Lectures and research are placed in the fields: low energy building, renewable energy technologies, sustainability in planning and design, real estate management.

Programme for students in a 2-year course:

It starts with an interim semester where there is a pool of modules to be chosen depending on the student's Bachelor programme:

Structural engineering and building construction, building materials, building construction and physics, basics of CAD, 2 D, 3 D and visualization, building services, introduction to management in construction, legal basics.

Following 1.5-years: see programme for students in a 1.5-year course (semester 1 to 3) below.

Profile: Planning and Building

Conservation of buildings, building biology, design and structural engineering.

Profile: Building Services Engineering and Energy Engineering

Optimizing of building installations, integral planning, energy consultancy, economic efficiency of building services, innovation of building services (TGA)

Profile: Management in Construction

Applied project management, claim management, special aspects of management in construction.

List of additional modules on choice:

Structural fire protection – special constructions, visualization of fire concepts, structural simulation of buildings and plants, modern methods of load bearing analysis, reinforced and prestressed concrete constructions, planning of road network and its operation, building damages and its refurbishment, central furnace plant, innovative application of regenerative energy technology, green building, innovation of building services (TGA), energy consultancy, steel and timber constructions, reinstatement of buildings, building biology, building materials and their specifications and mixtures, modern materials for works, research methods and statistics, investment and financing, visualization methods and 3 D, physical planning, building regulations, economic efficiency of building services.

4.3 Programme Details

Please refer to the Final Examination Certificate (Masterzeugnis) for a list of courses and grades.

4.4 Grading Scheme

Absolute grading scheme: "Sehr Gut" (1,0; 1,3) = Very Good; "Gut" (1,7; 2,0; 2,3) = Good; "Befriedigend" (2,7; 3,0; 3,3) = Satisfactory; "Ausreichend" (3,7; 4,0) = Pass; "Nicht ausreichend" (5,0) = Fail

Statistical distribution of grades: **grading table**

4.5 Overall Classification

0,0

The final grade is based on the grades awarded during the study programme and that of the final thesis (with oral component). Please refer to the Final Examination Certificate (Masterzeugnis).

When there are no marks given, not enough results are available yet to determine ECTS-grades.

5. Function of the Qualification

5.1 Access to Further Study

Qualifies to apply for admission for master programmes – Prerequisite: In compliance with the requirements of the respective universities or universities of applied sciences and arts.

5.2 Professional Status

The Master degree entitles its holder to work professionally in private and public companies, authorities, especially in jobs of the chosen profile.

6. Additional Information

6.1 Additional Information

Non-academic acquired competencies were credited in an amount of **00** credits in the following modules: ...

6.2 Additional Information Sources

www.hawk.de

7. Certification

This Diploma Supplement refers to the following original documents:

Masterurkunde (Degree Certificate) dated from **00.00.0000**

Masterzeugnis (Final Examination Certificate) dated from **00.00.0000**

Transcript of Records dated from **00.00.0000**

Certification Date: **Ort, 00.00.0000**

(Official Seal / Stamp)

Dean of Study

8. Information on the German Higher Education Systemⁱ

8.1 Types of Institutions and Institutional Status

Higher education (HE) studies in Germany are offered at three types of Higher Education Institutions (HEI).ⁱⁱ

- *Universitäten* (Universities) including various specialized institutions, offer the whole range of academic disciplines. In the German tradition, universities focus in particular on basic research so that advanced stages of study have mainly theoretical orientation and research-oriented components.

- *Fachhochschulen* (Universities of Applied Sciences) concentrate their study programmes in engineering and other technical disciplines, business-related studies, social work, and design areas. The common mission of applied research and development implies an application-oriented focus of studies, which includes integrated and supervised work assignments in industry, enterprises or other relevant institutions.

- *Kunst- und Musikhochschulen* (Universities of Art/Music) offer studies for artistic careers in fine arts, performing arts and music; in such fields as directing, production, writing in theatre, film, and other media; and in a variety of design areas, architecture, media and communication.

Higher Education Institutions are either state or state-recognized institutions. In their operations, including the organization of studies and the designation and award of degrees, they are both subject to higher education legislation.

8.2 Types of Programmes and Degrees Awarded

Studies in all three types of institutions have traditionally been offered in integrated "long" (one-tier) programmes leading to Diplom- or Magister Artium degrees or completed by a Staatsprüfung (State Examination).

Within the framework of the Bologna-Process one-tier study programmes are successively being replaced by a two-tier study system. Since 1998, two-tier degrees (Bachelor and Master) have been introduced in almost all study programmes. This change is designed to provide enlarged variety and flexibility to students in planning and pursuing educational objectives, they also enhance international compatibility of studies.

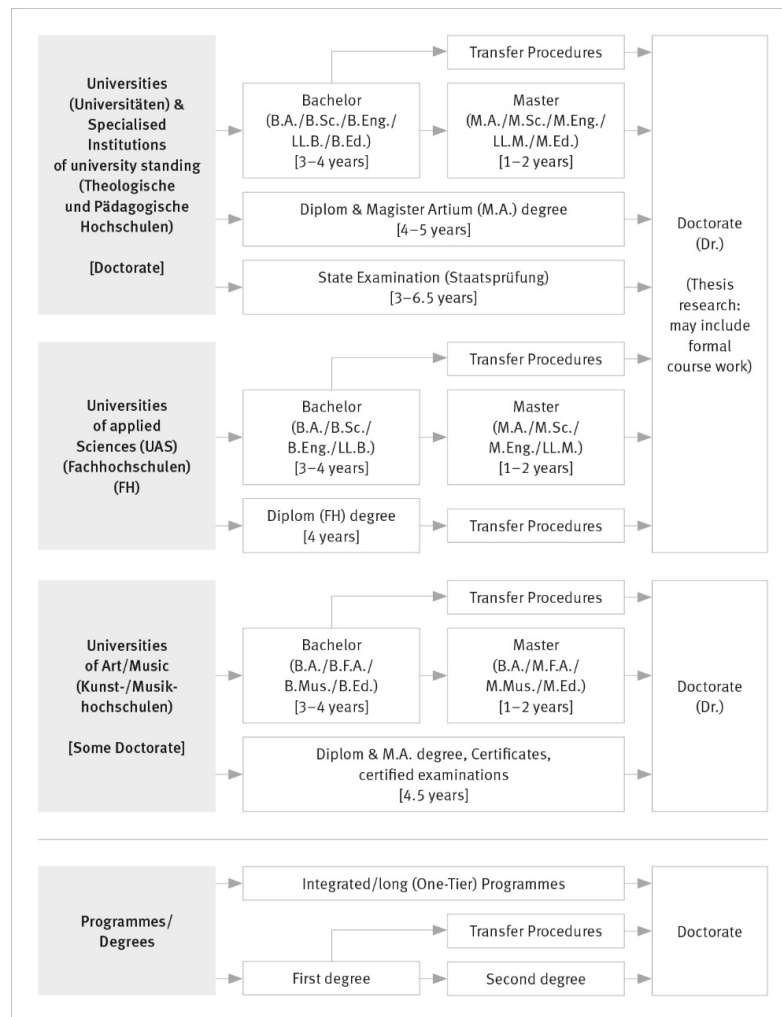
The German Qualifications Framework for Higher Education Degreesⁱⁱⁱ, the German Qualifications Framework for Lifelong Learning^{iv} and the European Qualifications Framework for Lifelong Learning^v describe the degrees of the German Higher Education System.

They contain the classification of the qualification levels as well as the resulting qualifications and competencies of the graduates.

For details cf. Sec. 8.4.1, 8.4.2, and 8.4.3 respectively. Table 1 provides a synoptic summary.

8.3 Approval/Accreditation of Programmes and Degrees

To ensure quality and comparability of qualifications, the organization of studies and general degree requirements have to conform to principles and regulations established by the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany (KMK).^{vi} In 1999, a system of accreditation for programmes of study has become operational under the control of an Accreditation Council at national level. All new programmes have to be accredited under this scheme; after a successful accreditation they receive the quality-label of the Accreditation Council.^{vii}



8.4 Organization and Structure of Studies

The following programmes apply to all three types of institutions. Bachelor's and Master's study courses may be studied consecutively, at various higher education institutions, at different types of higher education institutions and with phases of professional work between the first and the second qualification. The organization of the study programmes makes use of modular components and of the European Credit Transfer and Accumulation System (ECTS) with 30 credits corresponding to one semester.

8.4.1 Bachelor

Bachelor degree study programmes lay the academic foundations, provide methodological skills and lead to qualifications related to the professional field. The Bachelor degree is awarded after 3 to 4 years. The Bachelor degree programme includes a thesis requirement. Study courses leading to the Bachelor degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.^{viii} First degree programmes (Bachelor) lead to Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.), Bachelor of Engineering (B.Eng.), Bachelor of Laws (LL.B.), Bachelor of Fine Arts (B.F.A.), Bachelor of Music (B.Mus.) or Bachelor of Education (B.Ed.).

The Bachelor degree corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

8.4.2 Master

Master is the second degree after another 1 to 2 years. Master study programmes may be differentiated by the profile types "practice-oriented" and "research-oriented". Higher Education Institutions define the profile. The Master degree study programme includes a thesis requirement. Study programmes leading to the Master degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.^{ix} Second degree programmes (Master) lead to Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Laws (L.L.M.), Master of Fine Arts (M.F.A.), Master of Music (M.Mus.) or Master of Education (M.Ed.). Master study programmes which are designed for continuing education may carry other designations (e.g. MBA).

The Master degree corresponds to level 7 of the German Qualifications Framework/ European Qualifications Framework.

8.4.3 Integrated "Long" Programmes (One-Tier): Diplom degrees, Magister Artium, Staatsprüfung

An integrated study programme is either mono-disciplinary (*Diplom* degrees, most programmes completed by a *Staatsprüfung*) or comprises a combination of either two major or one major and two minor fields (*Magister Artium*). The first stage (1.5 to 2 years) focuses on broad orientations and foundations of the field(s) of study. An Intermediate Examination (*Diplom-Vorprüfung* for *Diplom* degrees; *Zwischenprüfung* or credit requirements for the *Magister Artium*) is prerequisite to enter the second stage of advanced studies and specializations. Degree requirements include submission of a thesis (up to 6 months duration) and comprehensive final written and oral examinations. Similar regulations apply to studies leading to a *Staatsprüfung*. The level of qualification is equivalent to the Master level.

- Integrated studies at *Universitäten (U)* last 4 to 5 years (*Diplom* degree, *Magister Artium*) or 3 to 6.5 years (*Staatsprüfung*). The *Diplom* degree is awarded in engineering disciplines, the natural sciences as well as economics and business. In the humanities, the corresponding degree is usually the *Magister Artium* (M.A.). In the social sciences, the practice varies as a matter of institutional traditions. Studies preparing for the legal, medical and pharmaceutical professions are completed by a *Staatsprüfung*. This applies also to studies preparing for teaching professions of some *Länder*.

The three qualifications (*Diplom*, *Magister Artium* and *Staatsprüfung*) are academically equivalent and correspond to level 7 of the German Qualifications Framework/ European Qualifications Framework.

They qualify to apply for admission to doctoral studies. Further prerequisites for admission may be defined by the Higher Education Institution, cf. Sec. 8.5.

- Integrated studies at *Fachhochschulen (FH)*/Universities of Applied Sciences (UAS) last 4 years and lead to a *Diplom (FH)* degree which corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

While the *FH/UAS* are non-doctorate granting institutions, qualified graduates may apply for admission to doctoral studies at doctorate-granting institutions, cf. Sec. 8.5.

- Studies at *Kunst- and Musikhochschulen* (Universities of Art/Music etc.) are more diverse in their organization, depending on the field and individual objectives. In addition to *Diplom/Magister* degrees, the integrated study programme awards include Certificates and certified examinations for specialized areas and professional purposes.

8.5 Doctorate

Universities as well as specialized institutions of university standing and some Universities of Art/Music are doctorate-granting institutions. Formal prerequisite for admission to doctoral work is a qualified Master (UAS and U), a *Magister* degree, a *Diplom*, a *Staatsprüfung*, or a foreign equivalent. Comparable degrees from universities of art and music can in exceptional cases (study programmes such as music theory, musicology, pedagogy of arts and music, media studies) also formally qualify for doctoral work. Particularly qualified holders of a Bachelor or a *Diplom (FH)* degree may also be admitted to doctoral studies without acquisition of a further degree by means of a procedure to determine their aptitude. The universities respectively the doctorate-granting institutions regulate entry to a doctorate as well as the structure of the procedure to determine aptitude. Admission further requires the acceptance of the Dissertation research project by a professor as a supervisor.

The doctoral degree corresponds to level 8 of the German Qualifications Framework/ European Qualifications Framework.

8.6 Grading Scheme

The grading scheme in Germany usually comprises five levels (with numerical equivalents; intermediate grades may be given): "*Sehr Gut*" (1) = Very Good; "*Gut*" (2) = Good; "*Befriedigend*" (3) = Satisfactory; "*Ausreichend*" (4) = Sufficient; "*Nicht ausreichend*" (5) = Non-Sufficient/Fail. The minimum passing grade is "*Ausreichend*" (4). Verbal designations of grades may vary in some cases and for doctoral degrees.

In addition, grade distribution tables as described in the ECTS Users' Guide are used to indicate the relative distribution of grades within a reference group.

8.7 Access to Higher Education

The General Higher Education Entrance Qualification (*Allgemeine Hochschulreife, Abitur*) after 12 to 13 years of schooling allows for admission to all higher educational studies. Specialized variants (*Fachgebundene Hochschulreife*) allow for admission at *Fachhochschulen (UAS)*, universities and equivalent higher education institutions, but only in particular disciplines. Access to study programmes at *Fachhochschulen (UAS)* is also possible with a *Fachhochschulreife*, which can usually be acquired after 12 years of schooling. Admission to study programmes at Universities of Art/Music and comparable study programmes at other higher education institutions as well as admission to a study programme in sports may be based on other or additional evidence demonstrating individual aptitude.

Applicants with a vocational qualification but without a school-based higher education entrance qualification are entitled to a general higher education entrance qualification

and thus to access to all study programmes, provided they have obtained advanced further training certificates in particular state-regulated vocational fields (e.g. *Meister/Meisterin im Handwerk, Industriemeister/in, Fachwirt/in (IHK und HWK), staatlich geprüfte/r Betriebswirt/in, staatliche geprüfte/r Gestalter/in, staatlich geprüfte/r Erzieher/in*). Vocationally qualified applicants can obtain a *Fachgebundene Hochschulreife* after completing a state-regulated vocational education of at least two years' duration plus professional practice of normally at least three years' duration, after having successfully passed an aptitude test at a higher education institution or other state institution; the aptitude test may be replaced by successfully completed trial studies of at least one year's duration.^x

Higher Education Institutions may in certain cases apply additional admission procedures.

8.8 National Sources of Information

- *Kultusministerkonferenz (KMK)* [Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany]; Graurheindorfer Str. 157, D-53117 Bonn; Fax: +49[0]228/501-777; Phone: +49[0]228/501-0
- Central Office for Foreign Education (ZaB) as German NARIC; www.kmk.org; E-Mail: zab@kmk.org
- German information office of the *Länder* in the EURYDICE Network, providing the national dossier on the education system; www.kmk.org; E-Mail: eurydice@kmk.org
- *Hochschulrektorenkonferenz (HRK)* [German Rectors' Conference]; Ahrstrasse 39, D-53175 Bonn; Fax: +49[0]228/887-110; Phone: +49[0]228/887-0; www.hrk.de; E-Mail: post@hrk.de
- "Higher Education Compass" of the German Rectors' Conference features comprehensive information on institutions, programmes of study, etc. (www.higher-education-compass.de)

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- ⁱ The information covers only aspects directly relevant to purposes of the Diploma Supplement.
 - ⁱⁱ *Berufsakademien* are not considered as Higher Education Institutions, they only exist in some of the *Länder*. They offer educational programmes in close cooperation with private companies. Students receive a formal degree and carry out an apprenticeship at the company. Some *Berufsakademien* offer Bachelor courses which are recognized as an academic degree if they are accredited by a German accreditation agency.
 - ⁱⁱⁱ German Qualifications Framework for Higher Education Degrees. (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 February 2017).
 - ^{iv} German Qualifications Framework for Lifelong Learning (DQR). Joint resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany, the German Federal Ministry of Education and Research, the German Conference of Economics Ministers and the German Federal Ministry of Economics and Technology (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 15 November 2012). More information at www.dqr.de
 - ^v Recommendation of the European Parliament and the European Council on the establishment of a European Qualifications Framework for Lifelong Learning of 23 April 2008 (2008/C 111/01 – European Qualifications Framework for Lifelong Learning – EQF).
 - ^{vi} Common structural guidelines of the *Länder* for the accreditation of Bachelor's and Master's study courses (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 10.10.2003, as amended on 04.02.2010).
 - ^{vii} "Law establishing a Foundation "Foundation for the Accreditation of Study Programmes in Germany", entered into force as from 26 February 2005, GV. NRW. 2005, No. 5, p. 45 in connection with the Declaration of the *Länder* to the Foundation "Foundation for the Accreditation of Study Programmes in Germany" (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 December 2004).

viii See note No. 7.

ix See note No. 7.

x Access to higher education for applicants with a vocational qualification, but without a school-based higher education entrance qualification (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 6 March 2009).