Bachelor Wirtschaftsinformatik dual Business and Information Systems dual

Matrikelnummer

This Diploma Supplement follows the model 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 is free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections is provided. Where information is not provided, an explanation gives the reason why.

### 1. Holder of the Qualification

1.1	Family Name	XXX
1.2	First Name	XXX
1.3	Date, Place, Country of Birth	XXX XXX XXX
1.4	Student ID Number or Code	XXX

### 2. Qualification

2.1 Name of Qualification

> full abbreviated in original language Title Conferred full

abbreviated in original language

2.2 Main Field(s) of Study

Institution Awarding the 2.3 Qualification (in original language)

Status (Type / Control)

2.4 Institution Administering Studies

Status (Type / Control)

Language(s) of Instruction/ Examination Bachelor of Science

B.Sc.

Bachelor of Science

n.a. n.a.

n.a.

**Business and Information Systems** 

Westfälische Hochschule Fachbereich Informatik und Kommunikation University of Applied Sciences / State Institution

Westfälische Hochschule Department of Computer Science and

Communications

University of Applied Science / State Institution

German

Certification Date: XXX

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Creditnoints

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First Dogram (three years)

### 3. Level of the Qualification

J. I	Level	with internship (15 credits) and thesis (12 credits)
3.2	Official Length of Programme	Four years (180 credits)
3.3	Access Requirements	Higher Education Entrance Qualification (HEEQ) cf Sec. 8.7. after 12 or 13 years

### 4. Contents and Results Gained

4.1 Mode of Study Part-time (year 1+2) and Full-time (year 3+4)

### 4.2 Programme Requirements

The study course Management Information Systems on a bachelor level degree is a formal discipline that connects economics and computer science. Therefore it bridges the gap between design, development and application of software systems and related managerial skills. Management Information Systems describes the variety of opportunities for supporting the application of technology to business. Students learn how information systems can give organizations a competitive edge by providing technologies to optimize processes, strategies and data processing that help employees and manager's plan, control and make decisions. Moreover, the knowledge about the design and functionality of information systems can help organizations to establish new business models and persist in a world that in mainly driven by globalization and cooperation.

The bachelor study course contains 6 semesters, is designed as both, application-oriented and scientific, and leads to a bachelor degree. Graduates obtain capabilities and expertise in the following categories:

Category		Oreampoints
Mathematics		19
Computer Science		66
Specialization in Economics	(/)	50
Soft Skills		15
Bachelor-Thesis and Interns	hip	30

The average workload comprises 1800 working hours per academic year. One creditpoint matches a workload of 30 working hours.

Graduates of the study course Management Information Systems combine expertise from

Graduates of the study course Management Information Systems combine expertise from computer science, economics and methodology from an interdisciplinary point of view. They achieve capabilities to handle the challenges of software development processes alone and in teams. In addition, graduates learn an analytical, structured method of thinking to understand business processes and fulfil related business requirements with the help information systems. Hence, the modeling, design and implementation of information systems is the main focus of the study course. Besides the acquisition of core competencies, graduates are not only qualified to complete their bachelor degree, instead the study course empowers them for lifelong learning.

Graduates of the bachelor programme "Business and Information Systems (dual)" have gained significant more practical experiences than graduates of the conventional bachelor programme "Business and Information Systems". Dual students applied their academic knowledge directly within the working environment of their partnership enterprise.

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4.3 Programme Details

See Transcript for list of courses and grades
See "Prüfungszeugnis" (Final Examination Certificate)
for subjects offered in final examinations and
topic of thesis, including evaluations.

4.4 Grading Scheme

General grading scheme cf. Sec. 8.6.

ECTS Grade:

4.5 Overall Classification

(in original language) XXX

Grade is calculated as the mean value of the sum of all examination grades weighted with the amount of credit points designated for each module including BA thesis.

### 5 Function of the Qualification

5.1 Access to Further Study Qualifies to apply for admission to postgraduate

programmes.

5.2 Professional Status There is no professional status entitled with a

bachelor degree in Germany.

### 6. Additional Information

Further Information Sources

6.1 Additional Information The study programme Bachelor of Science has been

accredited by the Akkreditierungsagentur für Studiengänge der Ingenieurwissenschaften, der Informatik, der Naturwissenschaften und der

Mathematik e.V. (ASIIN) in 2005.

on the institution: http://www.w-hs.de for national information sources cf. Sec. 8.

### 7. Certification

6.2

This Diploma Supplement refers to the following original documents:

 Urkunde über die Verleihung des Bachelor of Science XXX

Prüfungszeugnis XXX

**Certification Date:** 

Official Stamp/Seal]

XXX

\_\_\_\_\_

Prof. Dr. Marcel Luis
Head of the Examination Board

### 8. National Higher Education System

The information on the national higher education system on the following pages provides a context for the qualification and the type of higher education that awarded it.

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### 8. INFORMATION ON THE GERMAN HIGHER EDUCATION SYSTEM<sup>1</sup>

#### 8.1 Types of Institutions and Institutional Status

Higher education (HE) studies in Germany are offered at three types of Higher Education Institutions (HEI). $^2$ 

- 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 a distinct application-oriented focus and professional character of studies, which include 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).

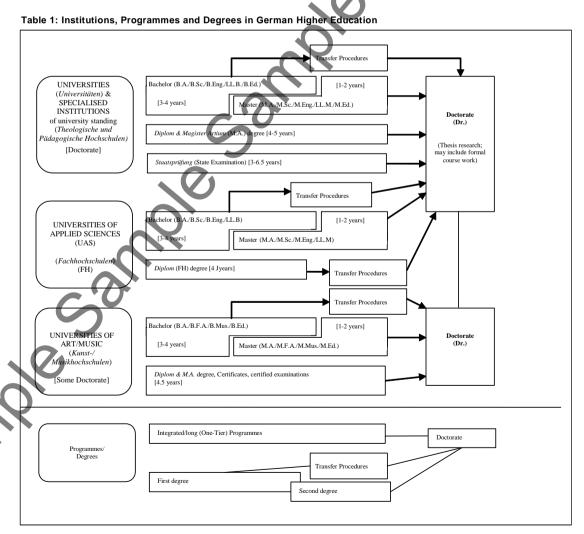
Within the framework of the Bologna-Process one-tier study programmes are successively being replaced by a two-tier study system. Since 1998, a scheme of first- and second-level degree programmes (Bachelor and Master) was introduced to be offered parallel to or instead of integrated "long" programmes. These programmes are designed to provide enlarged variety and flexibility to students in planning and pursuing educational objectives, they also enhance international compatibility of studies

The German Qualification Framework for Higher Education Degrees<sup>3</sup> describes the degrees of the German Higher Education System. It contains 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). 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.



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#### 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

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.<sup>6</sup>
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.).

#### 8 4 2 Master

Master is the second degree after another 1 to 2 years. Master study programmes must be differentiated by the profile types "more practice-oriented" and "more research-oriented". Higher Education Institutions define the profile of each Master study programme.

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.'
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 or which do not build on the preceding Bachelor study programmes in terms of their content, may carry other designations (e.g. MBA).

## 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 *Universitäter* (*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, pharmaceutical and teaching professions are completed by a *Staatsprüfung*. The three qualifications (*Diplom*, *Magister Artium* and *Staatsprüfung*) are academically equivalent. 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.

- The information covers only aspects directly relevant to purposes of the Diploma Supplement. All information as of 1 December 2008. 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.

  German Qualification 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 21 April 2005).
- 4 Common structural guidelines of the Länder as set out in Article 9

- Integrated studies at Fachhochschulen (FH)/Universities of - Integrated studies at Factonoconscruler (FH)/Universities of Applied Sciences (UAS) last 4 years and lead to a Diplom (FH) degree. 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. 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.

### **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 destated designations. doctoral degrees.

In addition institutions may already use the ECTS grading scheme, which operates with the levels A (best 10 %), B (next 25 %), C (next 30 %), D (next 25 %), and E (next 10 %).

### 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 (Fachgebundende Hochschulreife) allow for admission to particular disciplines. Access to Fachhochschulen (UAS) is also possible with a Fachhochschulreife, which can usually be acquired after 12 years of schooling. Admission to Universities of Art/Music may be based on other or require additional evidence demonstrating individual

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

### **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]; Lennéstrasse 6, D-53113 Bonn; Fax: +49[0]228/501-229; Phone: +49[0]228/501-0
- Central Office for Foreign Education (ZaB) as German NARIC; www.kmk.org; E-Mail: zab@kmk.org
   "Documentation and Educational Information Service" as German
   "Documentation" are the service of the
- EURYDICE-Unit, providing the national dossier on the education system (www.kmk.org/doku/bildungswesen.htm; E-Mail: eurydice@kmk.org) - Hochschulrektorenkonferenz
- (HRK) [German - Hochschulrektorenkonferenz (HRK) [German Rectors' Conference]; Ahrstrasse 39, D-53175 Bonn; Fax: +49[0]228/887-10; 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

(www.higher-education-compass.de)

Clause 2 of the Framework Act for Higher Education (HRG) 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 October

- Analis of the Lander in the rederial Republic of Germany of 10 October 2003, as amended on 18 September 2008).

  "Law establishing a Foundation 'Foundation for the Accreditation of Study Programmes in Germany", entered into force as from 26 February 2005, GV. NRW. 2005, nr. 5, p. 45 in connection with the Declaration of the Lânder 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 162.2004
- See note No. 5.
- 7 See note No. 5.