Bachelor Medieninformatik Media Informatics

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
1.2 First Name
1.3 Date,
1.4 XXX
1.5 XXX
1.6 XXX
1.7 XXX
1.8 XXX
1.9 XXX
1.1 XXX
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1.4 XXX
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1.6 XXX
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1.8 XXX
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Place, XXX
Country of Birth XXX

1.4 Student ID Number or Code XXX

2. Qualification

2.1 Name of Qualification

full Bachelor of Science abbreviated B.Sc.

in original language
Title Conferred
Bachelor of Science

full n.a. abbreviated n.a. in original language n.a.

2.2 Main Field(s) of Study Media Informatics

2.3 Institution Awarding the

Qualification (in original language) Westfälische Hochschule

Fachbereich Informatik und Kommunikation
Status (Type / Control)
University of Applied Sciences / State Institution

2.4 Institution Administering Studies Westfälische Hochschule

Department of Computer Science and

Communications

Status (Type / Control) University of Applied Science / State Institution

2.5 Language(s)

of Instruction/ Examination German

Bachelor Medieninformatik Media Informatics

Matrikelnummer

3. Level of the Qualification

3.1 Level First Degree (three years, 180 credits):

compulsory core subjects (20 credits),

subject (50 credits) and general studies (90 credits) with internship (5 credits) and thesis (15 credits)

3.2 Official Length of Programme Three 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 Full-time

4.2 Programme Requirements

The bachelor programme "Media Informatics (Medieninformatik)" is a programme of Applied Computer Science focused on media applications. Based on a profound knowledge of computer science students acquire competences in media design, media processing, and computer graphics. About half of the courses deal with computer science in general, including mathematical foundations. Courses in media design, media processing and computer graphics take about a quarter of the programme. General studies, bachelor thesis, and a practical training of twelve weeks in an appropriate company fill the last quarter. The curriculum schedules numerous practical exercises and projects that help to strengthen self-employment, self-organisation and the ability to work in a team and to present and discuss results of their work.

Most of the courses of the first three semesters deal with computer science in general and its mathematical foundations. Students get a sound methodological foundation in theoretical and technical essentials of computer science and in practical issues of implementing software systems as well. Key elements are fundamental computer science, programming, structuring large software programs and data, human-computer interaction, and distributed systems. The second half of the programme focuses on media applications. In compulsory courses, students get a basic understanding of media design, media processing, and computer graphics. Elective compulsory courses (20% of the programme) enable students to deepen their competences in one or more of these three areas. Depending on their choice, graduates have profound knowledge in the area of computer graphics, image processing, e-commerce, media design, authoring systems, video production, and/or usability engineering (see transcript of records). They shall become specifically acquainted with issues, actual knowledge, tools and methods to identify and analyse problems, develop adequate strategies and economic solutions of media applications with good usability and user experience on different platforms.

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 Grading Scheme General grading scheme cf. Sec. 8.6.

ECTS Grade: X

4.5 Overall Classification

(in original language) Note

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.

Certification Date: XXX

Diploma SupplementBachelor Medieninformatik

Media Informatics

Matrikelnummer

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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		
	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.
	6.2	Further Information Sources	on the institution: http://www.w-hs.de for national information sources cf. Sec. 8.
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7.	Cert	ification	5
			This Diploma Supplement refers to the following original documents:
		4	Urkunde über die Verleihung des Bachelor of Science XXX
			Prüfungszeugnis XXX
	Certi	fication Date:	XXX
	[Offic	ial Stamp/Seal]	
		<i>M</i> .	
			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.

Bachelor Medieninformatik Media Informatics

Matrikelnummer

8. INFORMATION ON THE GERMAN HIGHER EDUCATION SYSTEM

Types of Institutions and Institutional Status

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

- 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.

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 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 Degrees³ 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

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

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).⁴ 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 qualitylabel of the Accreditation Council.5

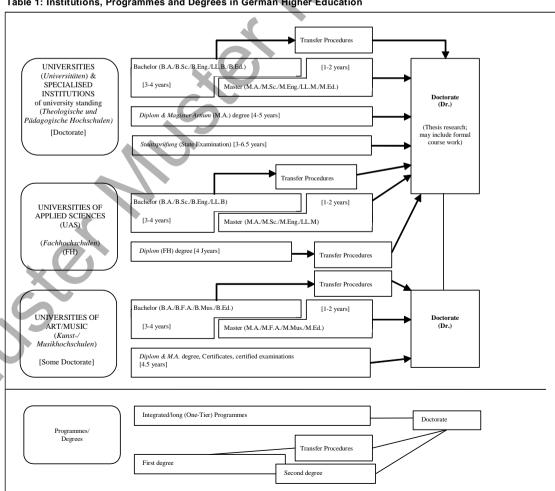


Table 1: Institutions, Programmes and Degrees in German Higher Education

Bachelor Medieninformatik Media Informatics

Matrikelnummer

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.⁶
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.

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 and patchalor study programmes in terms. 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 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 requirements includes the Magister level. qualification is equivalent to the Master level.

- Integrated studies at Universitäten (U) last 4 to 5 years (Diplom 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, 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.

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 Factoroconscruler (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 8.6

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 the state of 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" and Educational Information Service as German
 "Documentation" and Educational Information Service as German
 "Documentation" and Educational Information Service as German
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 "Documentation" and "Documen
- 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.