



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 / 1.2 First Name

Mustermann, Jens

1.3 Date, Place, Country of Birth

23. Dezember 1987, Essen, Germany

1.4 Student ID Number or Code

MB - 12345

2. QUALIFICATION

2.1 Name of Qualification (full, abbreviated; in original language)

Magister Scientiarum - M. Sc.

Joint study program with Univ. of Manchester, Great Britain

Title Conferred (full, abbreviated; in original language)

n. a. - n. a.

2.2 Main Field(s) of Study

Mechanical Engineering

2.3 Institution Awarding the Qualification (in original language)

Gottfried Wilhelm Leibniz-Universität (founded 1623)

Department of Mechanical Engineering

Status (Type / Control)

University / State Institution

2.4 Institution Administering Studies (in original language)

[same]

Status (Type / Control)

[same/same]

2.5 Language(s) of Instruction/Examination

German

Certification Date: 11. Juli 2000

Prof. Dr. Hans Meyer

3. LEVEL OF THE QUALIFICATION

3.1 Level

Graduate/second degree (two years), by research with thesis

3.2 Official Length of Program

Two years

3.3 Access Requirements

Bakkalaureus/Bachelor degree (three or four years), in the same or appropriate related field; or foreign equivalent

4. CONTENTS AND RESULTS GAINED

4.1 Mode of Study

Full-time

4.2 Program Requirements

Foundations (mechanics, materials, manufacturing, drawing & design, computing); Integrated practical work, introduction to business & economics - Options in transportation, energy, environment - Advanced stage focuses on major project and core studies in design, analysis, management. Options in CAD/CAM stress analysis, structural design, control engineering, fluid mechanics, aerodynamics, dynamic simulation and noise. Throughout the program, engineering principles are applied to real problems usually drawn from research and consultancy in the Department (dynamics & structures, fluid dynamics, concurrent engineering) to develop skills and problem-solving capacity in design, project engineering, manufacture, development, test, and research - Research-oriented thesis (6 months).

4.3 Program Details

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

4.4 Grading Scheme

General grading scheme cf. Sec. 8.6 - Grade Distribution (Award year) "Sehr gut" (7%) - "Gut" (23%) - "Befriedigend" (50 %) - "Ausreichend" (15%) - "Nicht ausreichend" (5%)

4.5 Overall Classification (in original language)

Gut

Based on Comprehensive Final Examination (written 40%, oral 20%, thesis 40%); cf. Prüfungszeugnis (Final Examination Certificate)

5. FUNCTION OF THE QUALIFICATION

5.1 Access to Further Study

Qualifies to apply for admission for doctoral work (thesis research) - Prerequisite: Overall grade of at least "Note" and acceptance of doctoral thesis research project

5.2 Professional Status

The Diplom-degree in an engineering discipline entitles its holder to the legally protected professional title "Ingenieur" and to exercise professional work in in the field(s) of engineering for which the degree was awarded.

6. ADDITIONAL INFORMATION

6.1 Additional Information

The program in Mechanical Engineering cooperates in teaching and research with the Production Planning and Technology Research Center of the university.

Holder served two semesters as tutor in introductory course on "Computing in Engineering Design"

6.2 Further Information Sources

On the institution: www.u-leibniz.de; on the program www.u-leibniz.de/Maschinenbau/index.htm - For national information sources cf. Sect. 8.8

7. CERTIFICATION

This Diploma Supplement refers to the following original documents:
Urkunde über die Verleihung des Magistergrades 23. Oktober 2001
Prüfungszeugnis 23. November 2001
Transkript 23. Oktober 2001

Certification Date: 11. Juli 2000

Prof. Dr. Hans Meyer
Chairman
Examination Committee

(Official Stamp/Seal)

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 (DSDoc 01/03.00).

8. INFORMATION ON THE GERMAN HIGHER EDUCATION SYSTEM¹

8.1. Types of Institutions and Institutional Control

Higher education (HE) studies in Germany are offered at three types of *Hochschulen*²

- *Universitäten* (Universities), including various specialized institutions, comprise the whole range of academic disciplines. In the German tradition, universities are also institutional foci of, in particular, basic research, so that advanced stages of study have strong theoretical orientations and research-oriented components.
- *Fachhochschulen* (Universities of Applied Sciences): Programs concentrate 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 one or two semesters of integrated and supervised work assignments in industry, enterprises or other relevant institutions.
- *Kunst- and Musikhochschulen* (Colleges of Art/Music, etc.) offer graduate 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.

¹The information covers only aspects directly relevant to purposes of the Diploma Supplement. All Information as of 1 Jan 2000.

²Hochschule is the generic term for higher education institutions.

HE 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 HE legislation.

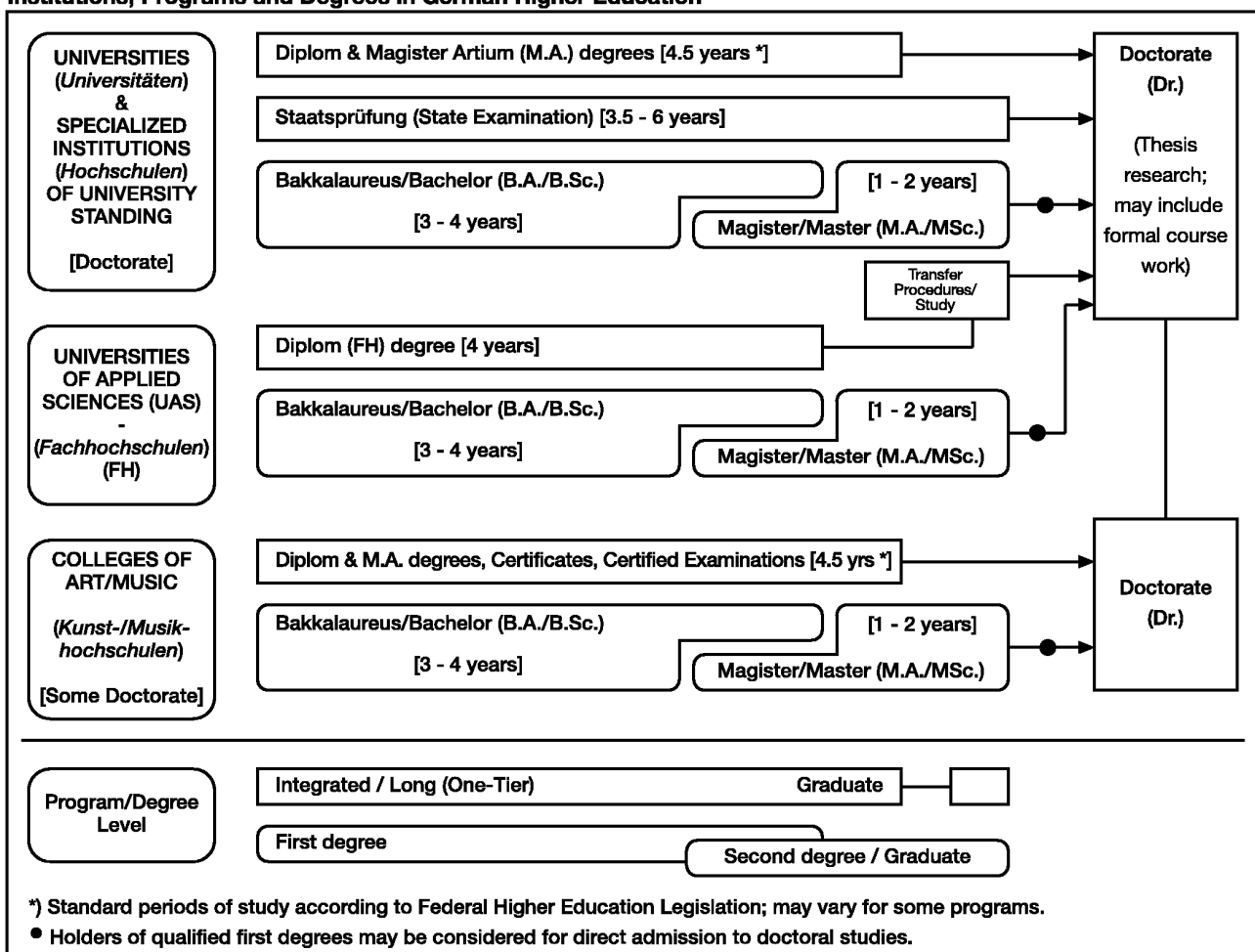
8.2 Types of programs and degrees awarded

- Studies in all three types of institutions are traditionally offered in integrated "long" (one-tier) programs leading to *Diplom-* or *Magister Artium* degrees or completion by a *Staatsprüfung* (State Examination).
- In 1998, a new scheme of first- and second-level degree programs (*Bakkalaureus/Bachelor* and *Magister/Master*) was introduced to be offered parallel to or *in lieu* of established integrated "long" programs. While these programs are designed to provide enlarged variety and flexibility to students in planning and pursuing educational objectives, they enhance also international compatibility of studies.
- For details cf. Sec. 8.41 and Sec. 8.42, respectively. Table 1 provides a synoptic summary.

8.3 Approval/Accreditation of Programs and Degrees

To ensure quality and comparability of qualifications, the organization of studies and general degree requirements have to conform to principles and regulations jointly established by the Standing Conference of Ministers of

Institutions, Programs and Degrees in German Higher Education



Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany (KMK) and the Association of German Universities and other Higher Education Institutions (HRK). In 1999, a system of accreditation for programs of study has become operational under the control of an Accreditation Council at national level. Programs and qualifications accredited under this scheme are designated accordingly in the Diploma Supplement.

8.4 Organization of Studies

8.4.1 Integrated "Long" Programs (One-Tier):

Diplom degrees, Magister Artium, Staatsprüfung

Studies are either mono-disciplinary (single subject, *Diplom* degrees, most programs completed by a *Staatsprüfung*) or comprise a combination of either two major or one major and two minor fields (*Magister Artium*). As common characteristics, in the absence of intermediate (first-level) degrees, studies are divided into two stages. The first stage (1.5 to 2 years) focuses - without any components of general education - on broad orientations and foundations of the field(s) of study including propaedeutical subjects. An Intermediate Examination (*Diplom-Vorprüfung* for *Diplom* degrees; *Zwischenprüfung* or credit requirements for the M.A.) is prerequisite to enter the second stage of advanced studies and specializations. Degree requirements always 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*.

- Studies at *Universities* last usually 4.5 years (*Diplom* degree, *Magister Artium*) or 3.5 to 6 years (*Staatsprüfung*). The *Diplom* degree is awarded in engineering disciplines, the exact/natural and economic sciences. 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 are academically equivalent. As the final (and only) degrees offered in these programs at graduate-level, they qualify to apply for admission to doctoral studies, cf. Sec. 8.5.
- Studies at *Fachhochschulen (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 pursue doctoral work at doctorate-granting institutions, cf. Sec. 8.5.
- Studies at *Kunst- and Musikhochschulen* (Colleges of Art/Music, etc.) are more flexible in their organization, depending on the field and individual objectives. In addition to *Diplom/Magister* degrees, awards include Certificates and Certified Examinations for specialized areas and professional purposes.

8.4.2 First/Second Degree Programs (Two-tier):

Bakkalaureus/Bachelor, Magister/Master degrees

These programs apply to all three types of institutions. Their organization makes use of credit point systems and modular components. First degree programs (3 to 4 years) lead to *Bakkalaureus/Bachelor* degrees (B.A., B.Sc.). Graduate second degree programs (1 to 2 years) lead to *Magister/Master* degrees (M.A., M.Sc.). Both may be awarded in dedicated form to indicate particular

specializations or applied/professional orientations (B./M. of ... ; B.A., B.Sc. or M.A., M.Sc. in ...). All degrees include a thesis requirement.

8.5 Doctorate

Universities, most specialized institutions and some Colleges of Art/Music are doctorate-granting institutions. Formal prerequisite for admission to doctoral work is a qualified *Diplom* or *Magister/Master* degree, a *Staatsprüfung*, or a foreign equivalent. Admission further requires the acceptance of the Dissertation research project by a supervisor. Holders of a qualified *Diplom (FH)* degree or other first degrees may be admitted for doctoral studies with specified additional requirements.

8.6 Grading Scheme

The grading scheme 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. Some institutions may also use the ECTS grading scheme.

8.7 Access to Higher Education

The General Higher Education Entrance Qualification (*Allgemeine Hochschulreife, Abitur*) after 12 to 13 years of schooling gives access to all higher education studies. Specialized variants (*Fachgebundene Hochschulreife*) allow for admission to particular disciplines. Access to *Fachhochschulen/(UAS)* is also possible after 12 years (*Fachhochschulreife*). Admission to Colleges of Art/Music may be based on other or require additional evidence demonstrating individual aptitude.

8.8 National Sources of Information

- *Kultusministerkonferenz (KMK)* [Standing Conference of 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; with
 - Central Office for Foreign Education (ZaB) as German NARIC and ENIC; www.kmk.org; E-Mail: zab@kmk.org
 - "Documentation and Educational Information Service" as German EURYDICE-Unit, providing the national dossier on the education system (EURYBASE, annual update, www.eurydice.org; E-Mail eurydice@kmk.org).
- *Hochschulrektorenkonferenz (HRK)* [Association of German Universities and other Higher Education Institutions]. Its "Higher Education Compass" (www.higher-education-compass.hrk.de) features comprehensive information on institutions, programs of study, etc. Ahrstrasse 39, D-53175 Bonn; Fax: +49/[0]228 / 887-210; E-Mail: sekr@hrk.de