The Bologna Process: How it Affects North American Colleges and Universities

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CONAHEC 2008
Monterrey, Mexico
October 8-10, 2008

What is the Bologna Process?

- Bologna process is the process of creating a European Higher Education Area by the year 2010.
- It was first put in motion in 1999 at a Bologna (Italy) meeting of Ministers of Education of a number of European countries.
- The goal of the Bologna process is to facilitate students their free choice of quality courses and to benefit from smooth recognition procedures.
- Main priorities of the process:
  - introduction of a three-tiered system of education (bachelor/master/doctor)
  - quality assurance
  - recognition of qualifications of periods of study

Current signatories of the Bologna process

- Albania
- Andorra
- Armenia
- Austria
- Azerbaijan
- Belgium
- Bosnia-Herzegovina
- Bulgaria
- Croatia
- Cyprus
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Georgia
- Germany
- Greece
- Holy See
- Hungary
- Iceland
- Ireland
- Italy
- Latvia
- Liechtenstein
- Lithuania
- Luxembourg
- Malta
- Moldova
- Montenegro
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Russian Federation
- Serbia
- Slovak Republic
- Slovenia
- Spain
- Sweden
- Switzerland
- Macedonia (former Yugoslav Republic)
- Turkey
- Ukraine
- United Kingdom

Bologna Process Administration

- Presidency of the process is transferred from one member to another. Current presidencies are as follows:
  - Slovenia (1st half of 2008)
  - France (2nd half of 2008)
  - Czech Republic (1st half of 2009)
- Every second year the Ministers meet to measure the progress of the process and set priorities for action.
  - Prague (2001)
  - Berlin (2003)
  - Bergen (2005)
  - London (2007)
  - Leuven (2009)

Bologna Developments

- London meeting (2007)
  - develop strategy to reach other continents
  - create a Register of European Quality Assurance Agencies
- Copenhagen Process
  - develops cooperation in vocational education and training
  - proposed European Qualifications Framework (EQF) to coordinate Copenhagenand Bologna
- European Commission supported programs
  - Erasmus, Tempus, Erasmus Mundus
- Other initiatives: EUROPASS (transparency of qualifications), ECTS-ECVET (credit transfer), ENQA-ENQAVET (quality assurance)
- Cooperation between European Higher Education Area and European Research Area

How will the Bologna Declaration impact transatlantic exchange?

- Competition for U.S. & Canada in attracting foreign students
- Easier to evaluate European credentials – new tools & better access to information
- Questions about how to evaluate 3-year degrees

Implementation Issues

- Bachelor's and Master's degrees
- Quality assurance & accreditation systems
- European Credit Transfer System (ECTS)
- Diploma Supplement (DS)
- Joint degrees

What can we do to prepare for the Bologna Declaration?

- Analyze & understand your own admission & transfer policies and requirements
- Update your knowledge on changes in Europe
- Consider creative & experimental solutions
- Consider best practices of colleagues

What type of changes are we seeing?

- Structure of educational systems
- Degrees
- Documents: Diploma Supplement (DS)
- Credits: European Credit Transfer System (ECTS)
  - 60 credits = 1 year of fulltime study

Resources

- http://ec.europa.eu/education/policies/educ/bologna/bologna_en.html
- **current website:** http://www.ond.vlaanderen.be/hogeronderwijs/bologna/
- **Eurydice:**

  http://www.eurydice.org
- **European University Association:**

  http://www.eua.be

System changes
Example: Italy

Italy

Characteristics	Old	New
Degrees	*Laurea/Dottore* (4-5 years)	*Laurea* – 3 years *Laurea specialistica* –2 years
Credits	None	180/300 ECTS credits 1 credit = 25 hours of work
Diploma Supplement	-	Compulsory (Ministerial Decree, 2001)
Lisbon Convention	-	Ratified
Courses	Annual courses	Modular system

- Admission: 13-year *Maturita*
- V.O. - *Vecchio Ordinamento* =Old system, N.O. - *Nuovo Ordinamento* = New system
- By law (Reform of 1999) all universities have first & second cycle degrees
- First cycle introduced 2001-02, Second cycle introduced 2002-03
- 38 broad classes of *laurea* degrees representing 3,200 programs; 102 *laurea specialistica* degrees representing 2,100 programs

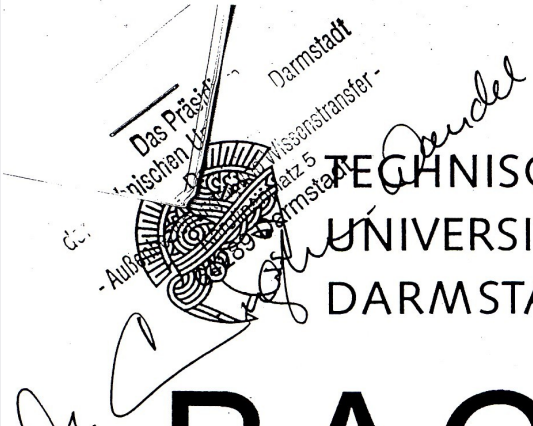
System changes
Example: Germany

Germany

Characteristics	Old	New
Degrees	*Diplom (Univ.)* – 4 years *Diplom (FH)* – 3 + 1 years	Bachelor – 3-4 years Master – 1-2 years
Credits	None	ECTS credits
Diploma Supplement	-	Required in 2005
Lisbon Convention	-	Ratified
Accreditation	Hours per week	Modules

Admission: *Fachhochschule (FH)* 12-year *Fachhochschulreife*
University (Univ.) 13-year *Abitur*

Bachelor & Master degrees represent 26.3% of degrees offered
2000 – 1.8% of students opted for Bachelor degree
2003 – 7.5% of students opted for Bachelor degree
2003 – 108,000 or 5.3% students enrolled in Bachelor or Master program



TECHNISCHE UNIVERSITÄT DARMSTADT

Computer

FEB 13 2007

Science

BACHELOR

of Science

Die Technische Universität Darmstadt
verleiht durch diese Urkunde

Herrn
geboren am 01. November
in Friedberg

nach bestandener Bachelorprüfung im Studiengang
Informatik
den akademischen Grad

Bachelor of Science (B.Sc.)

Darmstadt, den 26. September 2006

Der Präsident
Prof. Dr.-Ing. Johann-Dietrich Wörner

Der Dekan
Prof. Alejandro Buchmann, Ph.D.

ACADEMIC TRANSCRIPT / DIPLOMA SUPPLEMENT

University of East Anglia
Norwich NR4 7TJ England

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 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 seven sections should be provided. Where information is not provided, an explanation should give the reason why.

1 INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 Surname

1.2 First Name (s):

1.3 Date of birth (day/month/year):
10-September-1982

1.4 Student identification number or code (if available):

2 INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Attempted qualification and (if applicable) title conferred
Bachelor of Arts

2.2 Main field(s) of study for the qualification:
AMERICAN HISTORY WITH POLITICS

2.3 Name and status of awarding institution (in original language):
The University of East Anglia (United Kingdom) (www.uea.ac.uk). The University was established by Royal Charter in 1963.

2.4 Name and status of institution (if different from 2.3) administering studies (in original language):
The University of East Anglia (United Kingdom) (www.uea.ac.uk).

2.5 Language(s) of instruction/examination
English

3 INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Level of qualification
Bachelor Degree. In full-time mode for 4 years.

3.2 Official length of programme
4 Year Full-time (480.0 UEA Credits)

3.3 Access requirement(s):
General and specific admission requirements for undergraduate courses are contained in the University Calendar appropriate to the year of admission (www.uea.ac.uk/ltq/EUdipsupptranscript.htm). A first degree or equivalent is the normal entry requirement for postgraduate courses: further details in the Calendar.

4 INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study:
Full-time

4.4 Grading scheme and, if available, grade distribution guidance
Further details from:
http://www.uea.ac.uk/ltq/EUdipsupptranscript.htm

The overall award is based on a credit-weighted performance in the final examination

4.2 Programme requirements:
Learner must meet course requirements, demonstrate achievement of learning outcomes set out in programme specifications and satisfy the assessment requirements. Further details: www.uea.ac.uk/ltq/EUdipsupptranscript.htm

4.3 Please see last page

4.5 Overall classification of the qualification (in original language):
Bachelor of Arts Class II, Division 2

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study
A first degree may give access to postgraduate studies and a taught masters award to postgraduate research studies.

5.2 Professional status (if applicable):
Refer to www.uea.ac.uk/ltq/EUdipsupptranscript.htm

6 ADDITIONAL INFORMATION

6.1 Additional information
Not applicable

6.2 Further information sources:
www.uea.ac.uk/ltq/EUdipsupptranscript.htm

02

4.3 Programme details (e.g. modules or units studied), and the individual grades/marks/credits obtained:

"Marks out of 100%. Pass mark for first Degrees, Certificates and Diplomas of Higher Education between 1993-94 to 2004-05 normally 35%; from 2005-06, normally 40%. For Masters degrees from 2001-02, pass mark normally 50%."

CODE	SUBJECT	MARKS		UEA CREDITS
2002/03				
EASA1F04	AMERICAN HISTORY: FROM CIVIL WAR TO COLD WAR	59.50		20
EASA1F06	INTRODUCTION TO AMERICAN STUDIES	60.50		20
EASA1F07	IMAGINING AMERICA	57.00		20
EASA1F09	AMERICAN HISTORY: THE MAKING OF A NATION	49.50		20
EASF1F03	KEY ISSUES IN FILM STUDIES	54.00		20
SOCP1A24	INTRODUCTION TO CONTEMPORARY POLITICS	57.00		20
Year Award:		56.25 Av.		Total: 120
2003/04				
EASA2H05	THE RISE AND FALL OF AMERICAN SLAVERY	56.50		20
EASA2H41	CONTEMPORARY US FOREIGN POLICY AND INTERNATIONAL AFFAIRS	56.00		20
EASA2H42	THE RADICALISM OF THE AMERICAN REVOLUTION, 1757-1791	55.00		20
EASF2H38	CLASSICAL CINEMA 1930-1960	59.00		20
SOCF2A48	POLITICAL PHILOSOPHY	55.50		20
SOCP2A71	POLITICS IN THE USA	62.50		20
Year Award:		57.42 Av.		Total: 120
2004/05				
EASA2Y1Y	AMERICAN STUDIES YEAR ABROAD	PASS *1		100
EASA2Y2Y	YEAR ABROAD DISSERTATION	34.00	(DC)	20
Year Award:		34.00 Av.		Total: 120
2005/06				
AMSA3H04	ISSUES IN AMERICAN HISTORY AND CULTURE	59.00		20
AMSA3H22	THE AMERICAN SUPREME COURT	62.50		20
AMSA3H7Y	FIRST PEOPLES, COLONIZERS AND THE USA	49.40		60
FTVF2F01	SPIELBERG, LUCAS AND CONTEMPORARY HOLLYWOOD	59.80		20
Year Award:		54.92 Av.		Total: 120
				Total: 480

*1 - Assessed on a Pass/Fail basis only.
DC - Deemed Credit

7 CERTIFICATION OF THE ACADEMIC TRANSCRIPT / DIPLOMA SUPPLEMENT OF AWARDING BODY

7.1 Signature

7.2 Official stamp

UEA NORWICH

7.3 Capacity: Registrar and Secretary

7.4 Date: 09-January-2007

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 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.

WYŻSZA
SZKOŁA
AGROBIZNESU
W ŁOMŻY

ACADEMY
OF AGROBUSINESS
IN ŁOMŻA

Diploma Supplement

valid with diploma No. 1152

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1. Family name(s): [redacted]
1.2. Given name(s): [redacted]
1.3. Date of birth (day/month/year): 15/06/1973
1.4. Student identification number or code (if available): 1833

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1. Name of qualification and *(if applicable)* title conferred *(in original language)*:
Inżynier

2.2. Main field(s) of study for the qualification:
Computer Science - Software Engineering

2.3. Name *(in original language)* and status of awarding institution:
Wyższa Szkoła Agrobiznesu w Łomży (The Academy of Agrobusiness in Lomza) was funded in July 1996. Its Activity is based on the Act on the Schools of Higher Education of 1990. Upon the Permission of the Minister of National Education, No DNS 3-0145/142/TBM/96 the Academy was entered in the register of non-State schools of higher education, registered number 96. There were approved the Statute of the Academy as well its full-time academic staff and study programme. The Minister of National Education and Sports exercises supervision over the Academy.

2.4. Name *(in original language)* and status of institution *(if different from 2.3.)* administering studies: As above

2.5. Language(s) of instruction/examination: Polish

3. INFORMATION OF THE LEVEL OF THE QUALIFICATION

3.1. Level of qualification: higher professional study (higher professional education courses)

3.2. Official length of programme: 3.5 years extramural studies (7 semesters) take place as convention every two/three weeks on Fridays, Saturdays and Sundays - seven or nine conventions are arranged in every semester.

3.3. Access requirements: Competition based on graduation certificates of secondary education + a qualifying interview

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1. Mode of study: Extramural

4.2. Programme requirements:

Pursuant to the Programme Standards for Computer Science by the Central Council Of Higher Education (Rada Główna Szkolnictwa Wyższego). The programme of studies covered 210 hours of subject area in general knowledge, 270 hours of basic courses, 1200 hours of professional courses and more than 90 hours others.

4.3. Programme details: (e.g. modules or units studied), and the individual grades/marks/credits obtained (if this information is available on an official transcript this should be used here):

The student is obliged to receive credits for all subjects covered by the obligatory program of studies (lectures, classes, laboratory practice and seminars). The requirement for succesfull completion of each course is the attainment of credit or examination mark. The student is obliged to present his or her engineer diploma thesis during the last three semesters and satisfy the Examination Board appointed by the Senate of the School in Engineer Diploma Examination. The final exam includes two parts: exam in knowledge covered by the program of studies and defence of a diploma thesis. The final mark shown on the diploma is the total of three elements: 60% of arithmetical average covering marks for all exams and credits received during the period of study, including F marks, 20% is the mark awarded to diploma thesis and 20% is equivalent to the mark in Engineer Diploma Examination.

The graduate of professional computer studies (who receives the engineer's professional title) he should posses:

- the skill of realization and verification of computer systems's components according to their specification
- the skill of middle-sized computer systems management
- the skill of using the computer tools in practice and the skill of programming
- the preparation in the field of basics of computer science, which helps to broaden the knowledge in a fast changing computer reality

Moreover, the graduate of studies ending with getting the engineer's professional title should possess the knowledge and technical skills in the field of computer equipment service and software.

Depending on the profile of studies, the graduate can work as an administrator of middle-sized computer systems, the programmer, the operator as well as computer systems service person, and also after meeting additional requirements as a computer science teacher.

Semester	1					
Item No.	Subject:	Hours:		Marks:		
		Lectures:	Classes:	Credit:	Exam:	Average:
1	Mathematics I	21	14	-	2,5	2,5
2	Theory of Information	21	-	5	-	5
3	Computer Appliances	14	7	-	3,5	3,5
4	Computer Usage	14	-	4	-	4
5	Physics	21	7	-	3	3
6	Introduction to Mechanics	21	-	3	-	3
7	English Language	-	17	3	-	3
Semester	2					
Item No.	Subject:	Hours:		Marks:		
		Lectures:	Classes:	Credit:	Exam:	Average:
1	Matematyka II	27	18	-	2,5	2,5
2	Probability Calculus and Statistics	18	9	-	3	3
3	Computer Usage	-	16	4	-	4
4	Computer Usage	-	16	4	-	4
5	Introduction to Mechatronics	18	-	4	-	4
6	Introduction to Electrotechnics	18	18	-	3	3
7	Elements and Units of Electronics	18	18	-	3,5	3,5
8	English Language	-	17	3	-	3

Semester	3					
Item No.	Subject:	Hours:		Marks:		
		Lectures:	Classes:	Credit:	Exam:	Average:
1	English Language	-	17	5	-	5
2	Numeric Methods	18	9	-	5	5
3	Electric and Electronic Measurement	18	18	5	-	5
4	Microprocessing	18	27	-	3,5	3,5
5	Optimisation Methods	18	9	4,5	-	4,5
6	Computer Programming	18	27	-	4	4
Semester	4					
Item No.	Subject:	Hours:		Marks:		
		Lectures:	Classes:	Credit:	Exam:	Average:
1	English Language	-	17	-	4	4
2	Computer Programming	36	-	4	-	4
3	Computer Programming	-	72	4	-	4
4	Simulation and Modelling of Physical Units	9	-	3,5	-	3,5
5	Simulation and Modelling of Physical Units	-	18	3	-	3
6	Computer System Architecture	18	9	-	3,5	3,5
7	Algorithms and Data Structuring	18	-	-	3	3
8	Automatic Reglulation Techniques	27	-	-	3,5	3,5
9	Control System Programming	9	-	3,5	-	3,5
10	Control System Programming	-	18	4	-	4
Semester	5					
Item No.	Subject:	Hours:		Marks:		
		Lectures:	Classes:	Credit:	Exam:	Average:
1	Operating Systems	27	18	-	3	3
2	Software Engineering	27	18	-	5	5
3	Algorithms and Data Structuring	-	18	2,5	-	2,5
4	Object Programming	27	27	-	3,5	3,5
5	Relational Databases	18	18	-	5	5
Semester	6					
Item No.	Subject:	Hours:		Marks:		
		Lectures:	Classes:	Credit:	Exam:	Average:
1	Computer Networks	18	18	-	3	3
2	Computer Graphics	18	18	-	4,5	4,5
3	Artificial Neuron Networks and Expert Systems	18	18	-	3	3
4	Multimedia Techniques	18	-	5	-	5
5	Multimedia Techniques	-	18	5	-	5
6	Application Programming (Visual Basic)	18	9	4	-	4
7	Laboratory of Designing	-	30	4,5	-	4,5
Semester	7					
Item No.	Subject:	Hours:		Marks:		
		Lectures:	Classes:	Credit:	Exam:	Average:
1	Introduction to Economy	18	9	-	3,5	3,5
2	Labor Law	9	-	-	4	4
3	Industrial Safety and Hygiene	18	-	5	-	5
4	Introduction to Management and Marketing	18	18	-	3	3
5	Diploma Seminar	-	18	4	-	4

Dissertation: Parish database

Diploma

4.4. Grading scheme and, if available, grade distribution guidance:

Marking scale for credits and exams:

Mark	In figures
Very Good	5,0
Good Plus	4,5
Good	4,0
Satisfactory Plus	3,5
Satisfactory	3,0
Fail	2,0

Diploma marking scale:

Very Good	5,0
Good	4,0
Satisfactory	3,0

4.5. Overall classification of the qualification (in original language): Dobry - Good (4,0)

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study: Yes, the Diploma entitles to compete for admission to supplementary master's diploma and postgraduate studies

5.2 Professional status (if applicable): Duly qualified to perform the duties of director of courses in occupational safety and hygiene for subordinate team workers. First medical aid licence. Qualified to keep accounts.

6. ADDITIONAL INFORMATION

6.1. Additional information: It is required to complete directional professional practise before taking final exam after the seventh semester. The programm of professional practise has been completed

6.2. Additional information: Student has completed an individual way of studies.
Reader Franciszek Siemieniako was the supervisior of an individual way of studies.

6.3. Further information sources: Study Regulations of the Academy of Agrobusiness in Łomża, Łomża 1996. Web site of the Academy of Agrobusiness in Łomża: http://www.wsa.edu.pl and Bureau for Academic Recognition of Education and International Exchange acting as the ENIC/NARIC (European National Information Centre on Academic Recognition and Mobility) centre in Poland, 00-375 Warszawa, ul. Smolna 13, ph. (48 22) 828 81 61, http://www.buwiwm.edu.pl, e-mail: bwm@men.waw.pl

7. CERTIFICATION OF THE SUPPLEMENT

7.1. Date: July 9th, 2003.

7.2. Signature:

REKTOR
dr hab. prof. nadzw. Roman Engler

7.3. Capacity: Rector of Academy of Agrobusiness in Łomża

7.4. Official stamp or seal:

Wyższa Szkoła Agrobiznesu
w Łomży
18-400 Łomża, ul. Wojska Polskiego 161
tel. (086) 216-94-97, tel./ fax (086) 216-62-38

8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

THE EDUCATION SYSTEM IN POLAND

I. The system of primary and secondary education.

Until September 1999 the 8-year primary school was the first stage of education in Poland. After primary school students could apply for admission to secondary, general or vocational, schools.

Currently, a reform of the system of education is under way and new types of schools are being introduced which offer 6 years of primary education (primary school), 3 years of secondary general education (gymnasium), 3 years of secondary specialised education (lyceum), 2 years of vocational education (vocational school) and 2 years of complementary secondary general education (complementary lyceum). During the transitional period, both the old and the new systems will continue to coexist. In the year 2004, maturity certificates will be awarded for the last time on the basis of the system functioning prior to the reform.

The total number of years of primary and secondary education is 12 or 13. At the end of the secondary education cycle students can take the maturity examination - *egzamin dojrzałości (matura)*, i.e. standardised national secondary school achievement examination, and receive the maturity certificate - ***świadectwo dojrzałości.***

II. System of higher education.

Both state and private institutions of higher education exist in Poland. The latter began to appear after 1990. A private school of higher education must receive permission to operate from the Ministry of National Education. It acquires a legal status when registered by the Minister of National Education.

In 1998 the first state and private higher professional (vocational) education schools began to appear. These schools train students in professional specializations and prepare them for specific professions by including 15-week internships and school practice in the mandatory curriculum.

Study programs can take the form of daily, evening or extramural studies and distant learning courses. Daily studies is the prevalent form.

To qualify for admission to an institution of higher education, the applicant must hold the maturity certificate - ***świadectwo dojrzałości***. The rules of admission to the first year of study are determined autonomously by each institution. Some organize competitive entrance examinations, others use ranking procedures based on the final grades listed in the maturity certificate, still others admit all who apply.

III. Professional titles awarded to graduates of institutions of higher education

- the professional title of ***licencjat*** is awarded following the completion of 3 or 3.5-year higher professional education courses;
- the professional title of ***inżynier*** is awarded following the completion of 3.5 or 4-year higher professional education courses in technical areas, agriculture, and economics and related areas;
- the title of ***magister*** is awarded following the completion of uniform 5 or 6-year magister-level courses in a given field of study; equivalent titles include ***magister edukacji*** (in the field of Education), ***magister sztuki*** (in the field of Fine Arts), ***magister inżynier*** (in the field of Engineering) and ***magister inżynier architekt*** (in the field of Architecture), ***lekarz medycyny*** (in the field Medicine), ***lekarz stomatolog*** (in the field of Dentistry) and ***lekarz weterynarii*** (in the field of Veterinary Medicine).

The title of *magister* may also be obtained following the completion of 2 or 2.5-year complementary *magister*-level courses, for which holders of the professional title of *licencjat* or *inżynier* are eligible.

To be awarded any of the above titles the student must complete all subjects and internships or a practical placement included in the curriculum, submit and defend a diploma project or thesis and pass a diploma examination.

Upon graduation, each student receives a diploma in a specific field of study, three copies of the diploma and, upon request, a diploma in a foreign language.

IV. Academic degrees and title

- the degree of ***doktor*** is awarded to a person who has passed his/her doctoral examinations and submitted and defended a doctoral dissertation *(rozprawa doktorska)*. Holding the professional title of *magister* or its equivalent is a necessary condition for the *doktor's* degree;
- the degree of ***doktor habilitowany*** is awarded to a person who holds the *doktor's* degree, has significant scholarly or artistic achievements, has submitted a dissertation *(rozprawa habilitacyjna)* and has undergone the successive stages of review, debate and defense;

Qualifications awarded in arts and artistic disciplines are ***kwalifikacje I stopnia i kwalifikacje II stopnia*** (first and second degree qualifications) which correspond to the academic degree of *doktor* and *doktor habilitowany* respectively

Academic degrees *doktor* and *doktor habilitowany* are awarded by organizational units of higher education institutions and by other scientific and research institutes.

- the title of ***profesor*** is conferred by the President of the Republic of Poland