

Uniwersytet Warszawski

This Diploma Supplement is based on the model developed by the European Commission, Council of Europe and UNESCO CEPES. The purpose of the supplement is to provide objective and complete information to facilitate better understanding and fair recognition of academic and professional qualifications at home and abroad. The supplement provides 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. The description should be free from any value judgements, equivalence statements or suggestions about recognition. Information regarding all eight sections should be provided. Where information is not provided, an explanation should give reason why it is missing.

DIPLOMA SUPPLEMENT (COPY)

Valid with the Diploma no 233610/233610

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- 1.1. Family name: *Mierzwiński*
- 1.2. Given names: *Konrad Krzysztof*
- 1.3. Date of birth (day, month, year): *12.12.2014*
- 1.4. Student identification number or code: *1234208186*

2. INFORMATION IDENTIFYING THE QUALIFICATION⁴⁾

- 2.1. Name of qualification and the title conferred¹⁾: *magister*
- 2.2. Main field(s) of study, specialisation and educational profile for the qualification: *Computer Science, academic profile*
- 2.3. Name and status of awarding institution¹⁾:
Uniwersytet Warszawski
Uniwersytet Warszawski, established in 1816 is a public higher education institution. The university is entitled to confer the degrees of 'doktor', 'doktor habilitowany' and apply for the title of 'profesor'. The university educates students in the spirit of Magna Charta Universitatum and is also a party to the Agreement of Polish Universities on the Quality of Education, as a result of which the University Accreditation Commission was established.
- 2.4. Name and status of institution administering studies²⁾ (if different from 2.3.):
not applicable
- 2.5. Language(s) of instruction/examination: *Polish*

3. INFORMATION ON THE LEVEL OF QUALIFICATION

- 3.1. Level of qualification³⁾: *second cycle programme, full qualification at Polish Qualifications Framework level seven*
- 3.2. Official length of programme: *2-year studies*
- 3.3. Access requirements: *first cycle degree and an entrance examination*

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED⁴⁾

- 4.1. Mode of study: *full-time*
- 4.2. Programme requirements:

Learning outcomes

On completing this curriculum the student:

- *can work in a team, including interdisciplinary teams, and understands the need to work systematically on long term projects*
- *uses modern technologies for distributing and parallelising computations*
- *knows the problems, techniques and instruments available for constructing compilers*
- *can apply synchronisation mechanisms to processes and threads in selected technologies, depending on the architecture and capabilities of a particular computer*
- *identifies affiliation and difficulty of computational problems in relation to the important complexity classes: NC, P, NP, PSPACE, using their various characterisations*
- *designs algorithms in the basic models of computability: Turing machines and logic circuits*

- has in-depth knowledge of the areas of mathematics required to study computer science
- understands well the role and importance of the structure of mathematical reasoning
- can express computational problems in the language of mathematics
- can describe IT systems effectively to a layman and can prepare a presentation or an article using IT instruments

Number of ECTS credits: 120

Number of semesters: 4

Number of ECTS credits for the learning outcomes achieved in basic courses: 94

Number of ECTS credits for the learning outcomes achieved in practical courses: 8

Number of ECTS credits for the learning outcomes achieved in elective courses: 88

4.3. Programme details – modules or units studied and the individual attainments grades/ECTS credits obtained:

Courses by didactic cycles	Type/No. of hrs	Grade	ECTS
Winter semester 2015/16			
Compiler construction	wyk 30 / cw 30 / lab 30	3,5	9
Computational Geometry	wyk 30 / cw 30	4,5	6
Historia komputerów	wyk 30 / cw 30	5	6
Logics for Computer Scientists	wyk 30 / cw 30	3	6
Selected Topics in Computer Science	sem-mgr 30	ZAL	2
Summer semester 2015/16			
Computational complexity	wyk 30 / cw 30	5	6
Concurrent and distributed programming	wyk 30 / cw 30 / lab 30	3	9
Constructing Trusted Code Base	wyk 30 / lab 30	5	6
Error Control Codes	wyk 30 / cw 30	5	6
Academic year 2015/16			
Distributed Systems	sem-mgr 60	ZAL	5,5
Winter semester 2016/17			
American Poetry: from Modernism to Postmodernism	kon 30	5	6
Distributed Systems	wyk 30 / lab 30	4,5	6
Managing software projects	wyk 30 / lab 30	4,5	6
Text algorithms	wyk 30 / cw 30	4	6
Summer semester 2016/17			
Advanced Functional Programming	wyk 30 / lab 30	5	6
Deep neural networks	wyk 30 / lab 30	5	6
History of mathematics II	wyk 30	4	3
Academic year 2016/17			
Distributed Systems	sem-mgr 60	ZAL	5,5

Course code description

cw	class	kon	seminar
lab	lab	sem-mgr	master's seminar
wyk	lecture		

Grades outside brackets are course grades, grades inside brackets are grades for the classes, vertical bar separates grades for various classes, semicolon separates grades on various exam reports, space separates grades on the same exam report, order of grades on a report follows order of exam sessions.

Topic of diploma dissertation			
Fuzzing of applications that find metadata in backup images			
Components of the final grade			
Name of the component	Weight	Grade	ECTS credits
Average grade:	5/10	4,1	106
Thesis grade:	4/10	4,25	20
Final examination grade:	1/10	4,5	0
ECTS in total:			126

4.4. Grading scale, and if possible, grades assignment:

The University uses the following grading system:

Excellent (<i>Celujący</i>)	5!
Very good (<i>Bardzo dobry</i>)	5
Better than good (<i>Dobry plus</i>)	4,5
Good (<i>Dobry</i>)	4
Satisfactory (<i>Dostateczny plus</i>)	3,5
Sufficient (<i>Dostateczny</i>)	3
Fail (<i>Niedostateczny</i>)	2
Pass (<i>Zaliczony</i>)	ZAL
Not qualified (<i>Nie klasyfikowany</i>)	NK
Fail (<i>Niezaliczony</i>)	NZAL

A grade 5! which may occur in section 4.3. above represents an excellent grade assuming value of 5 while calculating the overall grade average.

The overall grade average is an arithmetic mean of all final grades from all course units or modules in the study programme; the overall classification of the qualification is the weighted sum of the overall grade average, the diploma thesis grade and the final examination grade, calculated according to the weights stipulated in the Studies Regulations.

4.5. Overall classification of the qualification¹⁾:

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1. Access to further study: *third cycle programme, non-degree postgraduate education*

5.2. Professional status (if applicable):

not applicable

6. ADDITIONAL INFORMATION⁴⁾

6.1. Additional information, including placements completed and awards received:

not applicable

6.2. Further information sources:

<http://www.mimuw.edu.pl/english>

7. CERTIFICATION OF THE SUPPLEMENT

7.1. Date: *10th September 2018*

7.2. Signature and personal stamp of the head of the organisational unit of the institution⁵⁾:

7.3. Official stamp or seal:

1) In original language.

2) Indicate the status of the higher education institution administering the studies: public/non-public; indicate, in original language, the name(s) of the higher education institution(s) offering the study programme jointly.

3) Indicate the Polish Qualifications Framework level of the qualification award of which is certified by the diploma.

4) If necessary additional pages may be added to provide information in points 2.3, 2.4, 4.2–4.4, 6.1 and 6.2

5) In case of studies conducted on the basis of Art.31a of the Act of 27 July 2005 – Law on Higher Education (Journal of Laws (Dz.U.) of 2016 item 1842, 1933, 2169 and 2260 and of 2017 item 60) instead of signature and personal stamp of the head of the organisational unit of the institution, signature and personal stamp of the interinstitutional unit or joint unit is affixed

8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

8.1. Access to the higher education

The total duration of education until completion of a school which offers the possibility of taking the secondary school leaving examination (maturity examination) is 12–15 years. Having passed successfully the secondary school leaving examination (maturity examination), graduates are awarded a secondary school leaving certificate or a secondary school leaving certificate and an attestation on the secondary school leaving examination results in respective courses which entitles them to apply for admission to a higher education institution.

8.2. Higher education system

Higher education system in Poland and the basis for its operation are laid down in the Act of 27 July 2005 – Law on Higher Education (Journal of Laws (Dz.U.) item 1842, 1933, 2169 and 2260 and of 2017 item 60). Its provisions are applied both to public and non-public higher education institutions, in which programmes of study are offered on the same basis and upon completion of the same requirements.

Higher education institutions are divided, irrespective of their status, into *academic* and *vocational* ones.

An *academic higher education institution* is a school conducting scientific research in which at least one of its organisational units is entitled to award the academic degree of *doktor*.

A *vocational higher education institution* is a school offering first-cycle or second-cycle programmes or long-cycle programmes, and which is not entitled to award the academic degree of *doktor*.

Study programmes are offered as first-cycle, second-cycle and long-cycle programmes (higher education programmes) and doctoral (third-cycle) programmes.

Higher education programmes and doctoral programmes may be offered as full-time or part-time programmes.

First-cycle programmes may lead to a *licencjat* degree and last at least 6 semesters, or may lead to an *inżynier* degree and last at least seven semesters. Second-cycle programmes last three or four semesters.

Long-cycle programmes last from nine to twelve semesters.

Part-time higher education programmes may last one to two semesters longer than respective full-time programmes.

Doctoral programmes last no shorter than two years and no longer than four years. Under a separate procedure, in compliance with the provisions of the Regulation of 14 March 2003 on the Academic Degrees and the Academic Title and on Degrees and Title in Arts (Journal of Laws (Dz.U.) of 2016 items 882 and 1311), graduates are conferred the academic degree of *doktor* or *doktor w zakresie sztuki*.

Qualifications awarded in the higher education system are assigned a Polish Qualifications Framework level specified in the Law of 22 December 2015 on the Integrated Qualifications System (Journal of Laws (Dz.U.) of 2016, items 64 and 1010 and of 2017, item 60)

A diploma of completion of a first-cycle programme certifies the award of a full qualification at level six of the Polish Qualifications Framework.

A diploma of completion of a second-cycle programme and a diploma of completion of a long-cycle programme certify the award of a full qualification at level seven of the Polish Qualifications Framework.

A doctoral diploma certifies the award of a full qualification at level eight of the Polish Qualifications Framework.

8.3. Degrees awarded to graduates of study programmes

- licencjat, licencjat pielęgniarstwa, licencjat położnictwa, inżynier, inżynier pożarnictwa, inżynier architekt and inżynier architekt krajobrazu – awarded to graduates of first-cycle programmes,
- magister and equivalent degrees of magister inżynier, magister inżynier architekt, magister inżynier architekt krajobrazu, magister inżynier pożarnictwa, magister pielęgniarstwa, magister położnictwa, magister sztuki – awarded to graduates of second-cycle programmes,
- magister and equivalent degrees of: lekarz, lekarz dentysta, lekarz weterynarii, magister farmacji, magister sztuki – awarded to graduates of long-cycle programmes.

8.4. ECTS

To be awarded a diploma it is necessary to gather at least 180 ECTS credits upon completion of a first-cycle programme, at least 90 ECTS credits upon completion of a second-cycle programme, at least 300 ECTS credits upon completion of a long-cycle programme lasting five years and 360 ECTS credits upon completion of a long-cycle programme lasting six years.

8.5. Academic degrees, degrees in arts, academic title, title in arts

Academic degrees, degrees in arts and the title of *profesor* are conferred under provisions of the Regulation of 14 March 2003 on the Academic Degrees and the Academic Title and on Degrees and Title in Arts.

The academic degrees are the degrees of *doktor* and *doktor habilitowany* of a specific area of science in a given scientific discipline. Academic degrees and degree in arts are conferred by organisational units of higher education institutions, scientific units of the Polish Academy of Sciences, research institutes and international scientific institutes established on the basis of separate regulations operating on the territory of the Republic of Poland, in compliance with their powers.

The academic title is the title of *profesor* of a specific area of science, while the equivalent title in arts is the title of *profesor* of a specific area of arts. The title of *profesor* is conferred by the President of the Republic of Poland.