Official stamp of the awarding Higher Education Institution

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 QUALIFICATION[4)]

2.1. Name of qualification and the title conferred[1)]: *licencjat*
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 institution[1)]:
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 studies[2)] (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 qualification[3)]: *first cycle programme, full qualification at Polish Qualifications Framework level six*
3.2. Official length of programme: *3-year studies*
3.3. Access requirements: *ranking of Matura certificates (certificate of secondary education) or an entrance examination*

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED[4)]

4.1.Mode of study: *full-time*
4.2. Programme requirements:
The Regulation of the Minister of National Education and Sport of 18 April 2002, on standards of teaching for individual study programmes and levels of qualification (Dz.U. No. 116, item 1004 as amended).

Learning outcomes
On completing this curriculum the student:
• possesses an organised and theoretically based general knowledge of programming, algorithms and computational complexity, architecture of computer systems, operating systems, network technologies, languages and programming paradigms, databases and software engineering
• knows basic programming constructs (assignment, control structures, calling subroutines and parameter

passing) and the concept of syntax and semantics of programming languages
• can assess at a basic level the usefulness of routine methods and IT tools and select and apply the appropriate methods and tools for standard IT tasks
• can perform a basic analysis of the functioning of an IT system and evaluate the existing software solutions, at least regarding their functional features
• can design and execute a simple IT system using methods, techniques and instruments according to given specifications
• has basic mathematical knowledge including analysis, algebra, discrete mathematics (elements of logic, set theory, combinatorics, graph theory), numerical methods, probability theory, statistics (with special emphasis on discrete methods)
• can configure a selected operating system and administer it, including installation of the required software
• can describe IT systems clearly to a layman and prepare a presentation or an article using IT instruments
• is able to work individually and in a team of computer scientists, can manage his time effectively, make commitments and meet deadlines
• understands and appreciates the importance of intellectual integrity in his/her own work and that of others and acts ethically

Number of ECTS credits: 180
Number of semesters: 6

Number of ECTS credits for the learning outcomes achieved in core courses: 165
Number of ECTS credits for the learning outcomes achieved in practical courses: 52
Number of ECTS credits for the learning outcomes achieved in elective courses: 67

Vocational training: 60 hours, 2 ECTS
The vocational training is designed to:
• broaden the knowledge gained at university and develop the skills to apply it
• familiarise the student with a specific professional environment
• develop the specific professional skills directly connected with the training venue
• develop skills for effective communication within the organisation
• acquaint the student with the structures and functioning of the organisation
• develop the principles for organising and planning work, allocation of resources, procedures, the process of planning work and monitoring
• improve skills for organising his/her work, both individual and as part of a team, develop effective time management, conscientiousness and reliability
• improve foreign language skills in professional situations

After the training, the student:
• has basic understanding of the legal and social aspects of computer science including professional liability and ethical responsibility, ethical codes, intellectual property, private and civil liberties, risks and responsibilities relating to IT systems, rules of 'netiquette' and understands the risks associated with electronic crime
• can work individually and in a team of computer scientists, manage his/her time effectively, take on responsibilities and meet deadlines
• understands the need to work systematically on long term projects
• knows the general rules for setting up and developing individual enterprises applying expertise from computer science
• knows the basic rules of occupational health and safety within the profession of information technology
• understands and appreciates the importance of intellectual integrity in his/her own work and that of others and acts ethically

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 2012/13			
Capoeira	*wf 30*	*ZAL*	*0,5*
Foundations of Mathematics	*wyk 30 / cw 30*	*3,5*	*5*
Geometry with Linear Algebra	*wyk 30 / cw 30*	*3*	*5*
Intellectual property rights - basic course	*wyk 4*	*ZAL*	*0,5*
Introductory Programming (imperative approach)	*wyk 60 / cw 60 / lab 30*	*4*	*13*
Mathematical Analysis for Computer Science I	*wyk 30 / cw 30*	*4*	*5*

Courses by didactic cycles	Type/No. of hrs	Grade	ECTS
Winter semester 2012/13			
Workplace health and safety	*kint*	*[ZAL]*	*0,5*
Summer semester 2012/13			
Capoeira	*wf 30*	*ZAL*	*0,5*
Computer and Network Architecture	*wyk 30*	*4,5*	*2,5*
Discrete Mathematics	*wyk 45 / cw 45*	*3,5*	*6,5*
Foundations of Electroacoustics and Aural Evaluation of Sound	*wyk 30*	*5*	*3*
Individual Programming Project	*lab 30*	*5*	*4*
Mathematical Analysis for Computer Science II	*wyk 45 / cw 45*	*3,5*	*6,5*
Object-Oriented Programming	*wyk 30 / cw 30 / lab 30*	*3,5*	*7,5*
Winter semester 2013/2014			
Algorithms and Data Structures	*wyk 30 / cw 30 / lab 30*	*4*	*7*
Balroom dancing	*wf 30*	*[ZAL]*	*0,5*
Databases	*wyk 30 / lab 30*	*4,5*	*5,5*
English - upper intermediate level	*lek 60*	*[5]*	*2*
Is mathematics the structure of the world?	*wyk 30*	*5*	*3*
Languages and Tools for Programming I	*lab 30*	*3*	*2*
Operating systems	*wyk 30 / cw 30 / lab 30*	*3*	*7*
Probability Theory and Statistics	*wyk 30 / cw 15 / lab 15*	*3,5*	*5,5*
Summer semester 2013/14			
Balroom dancing	*wf 30*	*[ZAL]*	*0,5*
Computer networks	*wyk 30 / lab 30*	*4*	*5,5*
English - upper intermediate level	*lek 60*	*[4,5]*	*2*
Languages and Tools for Programming II	*cw 30*	*[5]*	*2*
Languages, automata and computations	*wyk 30 / cw 30*	*5*	*5,5*
Selected issues of ecology and environmental protection. Sustainable development in theory and practice	*wyk 30*	*[3]*	*2*
Social and professional issues of computer science	*wyk 30*	*ZAL*	*2*
Software Engineering	*wyk 30 / lab 30*	*5*	*5,5*
WWW applications	*wyk 30 / lab 30*	*4*	*5,5*
Winter semester 2014/2015			
Examination in English - B2, upper intermediate level	*egz*	*[4]*	*2*
Introduction to Data Compression	*wyk 30 / cw 30*	*5*	*6*
Languages and Tools for Programming III	*cw 30*	*[5]*	*2*
Numerical Methods	*wyk 30 / cw 15 / lab 15*	*4*	*5*
Program Semantics and Verification	*wyk 30 / cw 30*	*3*	*5*
Security of Computer Systems	*wyk 30 / lab 30*	*3,5*	*5*
Summer semester 2014/15			
Machine Learning	*wyk 30 / lab 30*	*4,5*	*6*
Programming Languages and Paradigms	*wyk 30 / lab 60*	*3,5*	*7*
Reasoning in Services and Software Systems	*wyk 30 / cw 30*	*4*	*6*
Visual Geometry	*wyk 30 / cw 30*	*4,5*	*6*
Academic year 2014/15			
Internship for computer science	*pr-zaw 60*	*[ZAL]*	*2*
Team programming project	*psem 60*	*5*	*8*

Course code description

cw	*class*	*egz*	*examination*
kint	*e-learning course*	*lab*	*lab*
lek	*foreign language class*	*pr-zaw*	*professional placement*
psem	*proseminar*	*wf*	*physical education*

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			
Power Recruiter - przeglądarkowa aplikacja dla rekruterów IT z bazą danych opartą o skończony automat			
Components of the final grade			
Name of the component	Weight	Grade	ECTS credits
Average grade:	*7/10*	*4,1*	*183*
Thesis grade:	*2/10*	*4,25*	*0*
Final examination grade:	*1/10*	*4,5*	*0*
ECTS in total:			183

4.4. Grading scale, and if possible, grades assignment:
The University uses the following grading system:

Excellent (Celujący)	*5!*
Very good (Bardzo dobry)	*5*
Better than good (Dobry plus)	*4,5*
Good (Dobry)	*4*
Satisfactory (Dostateczny plus)	*3,5*
Sufficient (Dostateczny)	*3*
Fail (Niedostateczny)	*2*
Pass (Zaliczony)	*ZAL*
Not qualified (Nie klasyfikowany)	*NK*
Fail (Niezaliczony)	*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 qualification[1)]:

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1. Access to further study: *second cycle programme*
5.2. Professional status (if applicable):
not applicable

6. ADDITIONAL INFORMATION[4)]

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 institution[5)]:

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.