



[An embossed round official seal  
with the national emblem  
of the Republic of Poland:]

UNIwersytet Gdański w

Gdańsku

[The University of Gdańsk  
in Gdańsk]

UNIwersytet Gdański

[The University of Gdańsk]

## DIPLOMA SUPPLEMENT

CERTIFIED COPY

valid with Diploma No. 220528

### 1. INFORMATION IDENTIFYING THE HOLDER OF THE DIPLOMA

1.1 Surname: **Kuriata**

1.2 Forename(s): **Grzegorz Antoni**

1.3 Date of birth (date, month, year): **24 September 2000**

1.4 Identification number, student reference code or register number: **266515**

### 2. INFORMATION IDENTIFYING THE QUALIFICATION<sup>1)</sup>

2.1 Name of qualification<sup>2)</sup>: **licencjat** [roughly equivalent to Bachelor's degree]

2.2 Main field of study and major: **Mathematical Modeling and Data Analysis**

2.3 Name and status of awarding institution<sup>2)</sup>: **Uniwersytet Gdański w Gdańsku** [The University of Gdańsk in Gdańsk] -  
a public university established under the Regulation of the Council of Ministers of 20 March 1970 (Journal of  
Laws of 1970, No. 6, item 49)

2.4 Name and status of the institutions administering the studies<sup>2)</sup> (if different from item 2.3): **not applicable**

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

### 3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Level of qualification: **Full qualification at the sixth level of the Polish Qualifications Framework, PRK VI**

3.2 Official length of programme: **3 years of study (6 semesters, 1 semester = 15 weeks)**

3.3 Admission requirements: **secondary education certificate, competition for secondary education certificates.**

### 4. INFORMATION ON THE CONTENTS AND RESULTS OBTAINED<sup>1)</sup>

4.1 Mode of study: **full-time**

4.2 Learning outcomes: **The graduate has achieved learning outcomes in terms of knowledge, skills and social competences, as defined in Resolution No. 94/19 of the Senate of the University of Gdańsk of 27 June 2019, which were assigned 180 ECTS credits.**

**KNOWLEDGE** The graduate knows and understands • basic concepts, methods and theorems of mathematical logic and set theory • basic concepts, methods and theorems of mathematical analysis and basic examples both illustrating specific concepts in this field and allowing to refute erroneous hypotheses or unauthorized reasoning • basic concepts, methods and theorems of linear algebra and analytic geometry and basic examples both illustrating specific concepts in these fields, and to refute erroneous hypotheses or illegitimate reasoning; knows selected concepts of general algebra • basic concepts, methods and theorems of probability and statistics and basic examples both illustrating specific concepts in these fields and allowing to refute erroneous hypotheses or unauthorized reasoning • basic concepts, methods and theorems of differential equations • selected concepts, methods and theorems of topology • construction of mathematical theories, use mathematical formalism to build and analyze simple mathematical models in other fields of science • the role and importance of proof in mathematics, as well as the concept of the significance of assumptions • the basics of computational and programming techniques supporting the work of a mathematician and understands their limitations • at least one software package used for symbolic calculations • principles of occupational health and safety • legal and ethical conditions related to scientific and didactic activity • basic concepts and principles in the field of industrial property protection and copyright, use patent information resources • general principles of creating and developing forms of individual entrepreneurship, using knowledge in the field of mathematics and related sciences **SKILLS** The graduate can: • correctly use the concepts of mathematical logic and set theory, • correctly use the learned concepts of mathematical analysis, - at a simple and medium level of difficulty - apply the learned theorems and methods of this field and can interpret

the obtained results • correctly use the learned concepts of linear algebra and geometry, - at a simple and medium level of difficulty - apply the learned theorems and methods of these fields and is able to interpret the results obtained; correctly uses the learned concepts of general algebra • correctly use the learned concepts of probability and statistics, - on a simple and medium level of difficulty - apply the learned theorems and methods of such fields and is able to interpret the obtained results • correctly use the learned concepts of differential equations, - on a simple and medium level of difficulty - apply the learned theorems and methods of this field and is able to interpret the obtained results • correctly use the concepts of topology learned • in an understandable way, orally and in writing, formulate definitions and theorems and present correct mathematical reasoning regarding the learned problems • plan the way of solving a specific problem and make a correct record of this solution, giving strict and precise justifications for the correctness of their reasoning • use the learned software package or the learned programming language to solve selected problems in the learned fields, in particular mathematical analysis, linear algebra and statistics • recognize problems, including practical problems, that can be solved algorithmically; make a specification of such a problem • arrange and analyze an algorithm in accordance with the specification and save it in a selected programming language • compile, run and test a computer program written by the user • use computer programs in the field of data analysis • prepare oral presentations in Polish and at least one foreign language, concerning selected mathematical issues using various sources of knowledge • talk about understandable mathematical problems, colloquial language • speak at least one foreign language at intermediate level (B2)

**SOCIAL COMPETENCES** The graduate is ready: • to recognize the limitations of his/her own knowledge and to further education • to precisely formulate questions to deepen his/her own understanding of a given topic or to find missing elements of reasoning • to work in a team; understands the need to systematically work on all projects that are of a long-term nature • to understand and appreciate the importance of intellectual honesty in one's own and others' actions; • to comply with health and safety rules • to form opinions on basic mathematical issues • to think and act in an entrepreneurial way • to develop collegial and professional relationships • to critically evaluate arguments, find gaps in reasoning and constructively criticize the reasoning of others • to analyse data and communicate the conclusions of such analysis in an accessible form

4.3. Program details and individual achievements – program components and individual achievements, ECTS grades/points:

**Completed specialization modules in the field of: 1. Data analysis**

[The list of courses, number of hours and ECTS grades and points obtained on the following pages 2 – 4 is not covered by this translation as irrelevant. Page 4 underneath the chart:]

**Professional internship of 120 hours in semester 4 in the academic year 2020/2021**

**Diploma seminar in the field of: Scientific calculations with the use of Python**

Diploma examination: “Diploma exam in the field of: study program (including obligatory major and specialization courses) for the field of Mathematical Modeling and Data Analysis LIC-3, for studies starting from the academic year 2019/2020”

Diploma examination grade: **4.0**

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

Grading scale:

Grade	Numerical value	Percentage of learning results required for the assessment*
very good	5.0	91 and above
good plus	4.5	81-90
good	4.0	71-80
satisfactory plus	3.5	61-70
satisfactory	3.0	51-60

unsatisfactory	2.0	50 and below
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\* Percentages are rounded to whole numbers in accordance with the generally applicable rounding rules.

Credit without a grade:

pass	zal
fail	nzal

The basis for completing the course is at least a satisfactory or passed grade.

The basis for passing the diploma thesis and the diploma exam is at least a satisfactory grade.

Rules for determining the result of studies:

In accordance with the Study Regulations of the University of Gdańsk, the basis for calculating the final result of studies is:

- 1) average grades provided for in the curriculum obtained as part of the completed semesters;
- 2) assessment of the diploma thesis - if the curriculum provides for the submission of the diploma thesis;
- 3) grade in the diploma examination or arithmetic average of grades in the case of taking the diploma examination on two dates.

The final result of the studies is the sum of:

- a) 1/2 of the grade resulting from the average grade provided for in the study program, 1/4 of the grade for the diploma thesis grade and 1/4 of the grade resulting from the diploma examination - if the study program provides for the submission of the diploma thesis;
- b) 1/2 of the grade resulting from the average grade provided for in the study program and 1/2 of the grade for the diploma exam - if the study program does not provide for the submission of the diploma thesis.

The graduation diploma includes the result of studies in accordance with the following grading scale:

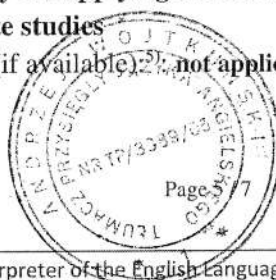
Final study result	Grade given in the diploma
4.51 - 5.00	very good
4.21 - 4.50	good plus
3.71 - 4.20	good
3.21 - 3.70	satisfactory plus
do 3.20	satisfactory

4.5. Final programme result <sup>1)</sup>: good

## 5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1. Access to further studies: **eligibility for applying for admission to second-cycle studies, eligibility for applying for admission to postgraduate studies**

5.2. Eligibility and professional status (if available): **not applicable**





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