# DIPLOMA SUPPLEMENT



# 1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 Family Name(s)

KUGAI

1.2 Given Name(s)

VIKTOR

Кугай

Виктор Евгеньевич

1.3 Date of Birth

22 January 1993

1.4 Student Identification Number

MA7723 Nº 0000000508

## 2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Name of Qualification and Title Conferred 2.1.1 Date of Award

23 June 2023

Магистр

23 июня 2023

2.2 Main Field(s) of Study for the Qualification 2.2.1 Master's Degree Programme

Software Engineering

System and Software Engineering

Программная инженерия

Системная и программная

инженерия

REFERENCE

MA7723 Nº 0000000508

2.2.2 Educational Programme

System and Software Engineering

Системная и программная

инженерия

CONTROL NUMBER

P-0013-1132

2.3 Name of Institution Awarding Qualification

National Research University Higher School of Economics (Higher School of Economics/HSE) Федеральное государственное автономное образовательное учреждение высшего образования «Национальный исследовательский университет «Высшая школа экономики» (Высшая школа экономики/НИУ ВШЭ)

2.4 Name of Institution Administering Studies

2.5 Language(s) of Instruction/Examination

English

Английский

## 3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

## 3.1 Level of Qualification

Master

Second stage tertiary university level education according to the International Standard Classification of Education (ISCED) (According to the National Qualifications Framework of the Russian Federation - Level 7).

3.2 Official Length of Programme

2 years, 120 credits

2 года, 120 кредитов

3.3 Access Requirements(s)

Bachelor's or Specialist's Degree and Entrance Examinations

## 4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of Study

**Full Time Education** 

4.2 Programme Requirements

The Degree provides a more academically than professionally oriented education. Teaching consists of lectures, seminars, workshops, laboratory works, etc. Forms of assessments: tests, exams, term papers, internships, the Final Assessment (Public defence of Graduation Thesis). Students are admitted to the Final Assessment after they have achieved passing grades in each subject of the curriculum.

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.

> Extra long life paper. Printed with high technology against counterfeiting and/or tampering.

# 4.3 Programme Details

Содержание программы

Project Activity are not considered in GPA calculation.

UNIT TITLE /НАИМЕНОВАНИЕ ДИСЦИПЛИНЫ	CREDITS/ КРЕДИТЫ	FINAL GRADE/ UTOFOBAR OUEHKA	ECTS GRADE/ OUEHKA
URRICULUM (COMPULSORY AND ELECTIVE COURSES) / ПРОГРАММА ОБУЧЕНИЯ (ОБЯЗАТЕЛЬНЫЕ КУРСЫ И ИСЦИПЛИНЫ ПО ВЫБОРУ)			
Data Analysis (Studied in English) / Анализ данных (изучена на английском языке)	4	6/хорошо	B-
oftware Engineering Methodology (Studied in English) / Методология программной инженерии (изучена на нглийском языке)	4	8/отлично	А
Advanced Databases (Studied in English) / Перспективные базы данных (изучена на английском языке)	5	7/хорошо	B+
Applied System Analysis (Studied in English) / Прикладной системный анализ (изучена на английском языке)	5	5/удовлетворительно	C+
Advanced Software Design (Studied in English) / Проектирование программных систем (изучена на английском зыке)	5	8/отлично	А
Psychology of Software Development Team Management (Studied in English) / Психология управления командой разработчиков программного обеспечения (изучена на английском языке)	4	8/отлично	А
Digital Interactive Products Development (Studied in English) / Разработка цифровых интерактивных продуктов изучена на английском языке)	8	8/отлично	А
oftware Business Management (Studied in English) / Управление бизнесом софтверной компании (изучена на нглийском языке)	6	9/отлично	A+
software Risk Management (Studied in English) / Управление программными рисками (изучена на английском зыке)	6	8/отлично	A
roject Management / Управление проектами	3	10/отлично	A++
Financial and Non-Financial Information about the Company (Studied in English) / Финансовая и нефинансовая информация о фирме (изучена на английском языке)	5	7/хорошо	В+
Formal Methods in Software Engineering (Studied in English) / Формальные методы программной инженерии изучена на английском языке)	10	5/удовлетворительно	C+
effective Management of Virtual Teams (Studied in English) / Эффективное управление виртуальными омандами (изучена на английском языке)	5	4/удовлетворительно	C-
ERM PAPERS / KYPCOBЫE PAGOTЫ			
FinyGIS: Processing Geospatial Data in a Web Browser (in English) / TinyGIS: обработка геоданных в Интернет раузере (на английском языке)	3	6/хорошо Passed / зачтено	B -
ROJECT ACTIVITY / ПРОЕКТЫ VTERNSHIPS, RESEARCH WORKS AND SEMINARS / ПРАКТИКИ И НАУЧНО-ИССЛЕДОВАТЕЛЬСКАЯ РАБОТА	3	rassed/sarrieno	
Research Seminar "Software Engineering: Development Management"-1 (in English) / Научно-исследовательский еминар "Программная инженерия: управление разработкой"-1 (на английском языке)	5	7/хорошо	B +
Research Seminar "Software Engineering: Development Management"-2 (in English) / Научно-исследовательский еминар "Программная инженерия: управление разработкой"-2 (на английском языке)	7	6/хорошо	В-
Project Seminar (in English) / Проектный семинар (на английском языке)	4	8/отлично	A
Work Experience (Science and Research) Internship (in English) / Производственная (научно-исследовательская) рактика (на английском языке)	3	8/отлично	А
Work Experience (Science Study) Internship (in English) / Производственная (научно-педагогическая) практика на английском языке)	4	10/отлично	A++
RADUATION THESIS / ВЫПОЛНЕНИЕ И ЗАЩИТА ВЫПУСКНОЙ КВАЛИФИКАЦИОННОЙ РАБОТЫ			
Decentralized Approach <mark>es for G</mark> eospatial Data Exchange using Web Technologies (in English) / Подходы рецентрализованного обмена геопространственными данными с помощью web-технологий (на английском разыке)	21	8/отлично	A
OTAL NUMBER OF CREDITS / UTOFO KPEQUTOB	120		
SPA	7,25		
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CONTROL NUMBER

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#### 4.4 Grading Scheme

ECTS Grades		10-point scale (Exam)	5-point scale	Pass/Fail Test	
A++	Excellent	10	отлично (существенно превосходит ожидания)	зачтено (Passed)	
A+	Very good	9	отлично (превосходит ожидания)	зачтено (Passed)	
Α	Very good	8	отлично	зачтено (Passed)	
B+	Good	7	хорошо	зачтено (Passed)	
B-	Good	6	хорошо	зачтено (Passed)	
C+	Satisfactory	5	удовлетворительно	зачтено (Passed)	
C-	Satisfactory	4	удовлетворительно	зачтено (Passed)	
F	Fail	3	неудовлетворительно	не зачтено (Fail)	
F	Fail	2	неудовлетворительно	не зачтено (Fail)	
F	Fail	1	неудовлетворительно	не зачтено (Fail)	

Credits. Workload of student's training activity in National Research University Higher School of Economics (HSE) is defined in academic hours and credits. One academic hour is equal to 40 astronomic minutes of students' studies (both in theory and in practice). One credit is equal to 38 academic hours (apr. 25 astronomic hours) depending on complexity of studied discipline.

Academic Performance Rating. There are two forms of final academic performance rating in HSE: examination and test. As a rule educational institutions in Russian Federation apply 5- point grading scale in respect for students' knowledge. Educational outcomes of students in HSE are estimated by 10- point grading scale. Disciplines with final control in test form may also contain the mark in 10-point grading scale. Students of HSE are taught according to annual approved curriculum based on educational standards defining the contents, the forms, the goals and the terms of education. Regulatory time limit for fulltime courses is the following: four years for obtaining the bachelor's degree, five years for obtaining the specialist's degree, two years for obtaining the master's degree. Student's pass to the next year of education is possible after getting the "pass" grade or higher in all disciplines of the current year of studies. Students who have completed the plan of studies in full size receive the diploma of higher education and obtain the qualification corresponding to their educational level.

Percentile indicates the share (in a percentage) of students out of an entire selection that

demonstrates study results above that of the student in question.

Grade Point Average (GPA) means an indicator showing the average weighted results of all students' grades, whereby the total number of credits for a given course shall serve as the weight coefficient.

#### 4.5 Overall Classification

In the Russian Federation Diplomas with Distinction (degrees with honors) are awarded to students who have passed the state examination and defended the final qualifying work perfectly (ECTS - A) and have only good (ECTS - B) and excellent (no less than 75 % of the total) marks for all examinations, which they passed while studying at the university.

## 5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

#### 5.1 Access to Further Study

The Degree allows to access the doctoral study.

#### 5.2 Professional Status

Master of Software Engineering is prepared for work in the companies engaged in industrial working on the software development for information systems in different areas. Along with strong abilities in software research and development he is able to lead in various areas of project development, such as project management, requirements analysis, architecture, construction, or quality assurance. He is expected to have effective work habits, be a leader, and be able to learn new models, techniques, and technologies as they emerge, appreciate the necessity of such continuing professional development and participate efficiently in new software technologies development

## 6. ADDITIONAL INFORMATION

### 6.1 Additional information

Higher School of Economics was founded on November 20, 1992 in Moscow (Russia) on the initiative of renowned Russian economists and leading reformers. In August 2008 the HSE became one of three Russian Universities operating under the auspices of the Government of the Russian Federation. In October 2009 the Higher School of Economics was awarded the status of a National Research University. Higher School of Economics is licenced to held educational activities in the field of higher education and accredited by Federal Service for Supervision in Education and Science.

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#### 6.2 Additional Information Sources

Official website of the National Research University Higher School of Economics (HSE) - www.hse.ru

Official website of the Ministry of Education and Science of The Russian Federation - mon.gov.ru

Official website of the National Accreditation Agency - www.nica.ru

#### 7. CERTIFICATION OF THE SUPPLEMENT

7.1 Capacity Rector

7.2 Signature N.Anisimov

7.3 Date of Signature 30 June 2023



#### 8. RUSSIAN EDUCATIONAL SYSTEM

