

1. Last Name Mussabayev

2. First Name, Patronymic (in presence of) Ravil

3. Date of birth 12.07.1997

4. Previous educational background School Leaving Certificate, ЖОБ0769511, 18.06.2014
(type, number of document, date of issue)

5. Entrance Examinations CNT Certificate, БА1531540, 03.06.2014
(type, number of document, date of issue)

6. Entered Kazakh-British Technical University, 2015
(higher education institution, year of enrollment)

7. Graduated Kazakh-British Technical University, 2018
(higher education institution, graduation year)

8. Additional information

9. Total number of credits 144 Number of ECTS credits 251

10. Grade point average (GPA) 3.93

11. Internship

| Internship type | Number of credits | ECTS | Grade | | |
|-------------------------------|-------------------|------|--------------------|---------------------|-------------------|
| | | | letter equivalence | numeric equivalence | traditional grade |
| Pre-Internship | 2 | 1 | A | 4.00/4.00 | Exc. |
| Pre-Internship | 2 | 1 | A | 4.00/4.00 | Exc. |
| Internship | 4 | 12 | A | 4.00/4.00 | Exc. |
| Graduation Project Internship | 2 | 6 | A | 4.00/4.00 | Exc. |
| | | | | | |

12. Final attestation

| Name of disciplines in state examinations | Number of credits | ECTS | Grade | | |
|---|-------------------|------|--------------------|---------------------|-------------------|
| | | | letter equivalence | numeric equivalence | traditional grade |
| State Major Examination | 1 | 4 | A | 4.00/4.00 | Exc. |
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13. Implementation and defense of Graduation Project
(of diploma project (work) or dissertation)

| Theme of diploma project (work) | Number of credits | ECTS | Grade | | |
|---------------------------------|-------------------|------|--------------------|---------------------|-------------------|
| | | | letter equivalence | numeric equivalence | traditional grade |
| Self-learning Neural Network | 2 | 8 | A | 4.00/4.00 | Exc. |
| Based Traffic Signal Controller | | | | | |
| and Construction of a New | | | | | |
| Clustering Algorithm in | | | | | |
| Unsupervised Machine Learning | | | | | |



Kazakh-British

Technical University

higher educational

institution)

Almaty

(City)

SUPPLEMENT
TO DIPLOMA
(Transcript)

№ ЖБ-Б № 0147474

22.06.2018

(date of issue)

7

(registration number)

Rector

Dean of the Faculty

Secretary

Stamp



NOT VALID WITHOUT DIPLOMA

14. Theoretical training:

| № | Disciplines code | Name of disciplines | Number of credits | ECTS | Grade | | |
|----|------------------|---|-------------------|------|--------------------|---------------------|-------------------|
| | | | | | letter equivalence | numeric equivalence | traditional grade |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | ENG122 | Academic English (Level B1) | 3 | 5 | A | 4.00/4.00 | Exc. |
| 2 | MATH105 | Algebra | 3 | 5 | A | 4.00/4.00 | Exc. |
| 3 | MATH151 | Analytic Geometry | 3 | 5 | A- | 3.67/4.00 | Exc. |
| 4 | MATH316 | Basics of Riemannian Geometry | 3 | 5 | A- | 3.67/4.00 | Exc. |
| 5 | LAN1104 | Business English | 3 | 5 | A- | 3.67/4.00 | Exc. |
| 6 | MAT1306 | Differential Forms on Manifolds | 3 | 5 | A | 4.00/4.00 | Exc. |
| 7 | MATH218 | Differential Geometry and Topology | 3 | 5 | A | 4.00/4.00 | Exc. |
| 8 | CSE1237 | Discrete Maths (IT-oriented) | 3 | 5 | A | 4.00/4.00 | Exc. |
| 9 | MAT1210 | Elliptic Equations on Stratified Sets | 3 | 5 | A | 4.00/4.00 | Exc. |
| 10 | MAT1209 | Enumerative Combinatorics | 3 | 5 | B | 3.00/4.00 | Good |
| 11 | MATH215 | Equations of mathematical physics | 3 | 5 | A | 4.00/4.00 | Exc. |
| 12 | MATH223 | Functional Analysis | 3 | 5 | A | 4.00/4.00 | Exc. |
| 13 | JUR206 | Fundamentals of Law | 3 | 5 | A | 4.00/4.00 | Exc. |
| 14 | MATH317 | Fundamentals of Mathematical and Computer | 3 | 5 | A | 4.00/4.00 | Exc. |
| 15 | HUM102 | Modeling of Natural Physical Processes | 3 | 5 | A | 4.00/4.00 | Exc. |
| 16 | HUM106 | History of Kazakhstan (SEC) | 3 | 5 | A | 4.00/4.00 | Exc. |
| 17 | MAT1220 | History of Modern Europe 1789-1989 | 3 | 5 | A | 4.00/4.00 | Exc. |
| 18 | MATH211 | Integral Geometry | 3 | 5 | A | 4.00/4.00 | Exc. |
| 19 | CSE364 | Introduction to Applied Algebra | 3 | 5 | A | 4.00/4.00 | Exc. |
| 20 | MATH212 | Introduction to Artificial Intelligence | 3 | 5 | A | 4.00/4.00 | Exc. |
| 21 | MECH209 | Introduction to Computational Mathematics | 3 | 5 | A | 4.00/4.00 | Exc. |
| 22 | MATH121 | Introduction to Continuum Mechanics | 3 | 5 | A | 4.00/4.00 | Exc. |
| 23 | CSE1246 | Introduction to MATLAB | 3 | 5 | A | 4.00/4.00 | Exc. |
| 24 | MATH320 | Introduction to Machine Learning | 3 | 5 | A | 4.00/4.00 | Exc. |
| 25 | KAZ101 | Introduction to Parallel Programming | 3 | 5 | A- | 3.67/4.00 | Exc. |
| 26 | MATH102 | Kazakh Language | 4 | 7 | A- | 3.67/4.00 | Exc. |
| 27 | MATH101 | Mathematical Analysis II | 4 | 7 | A | 4.00/4.00 | Exc. |
| 28 | MATH203 | Mathematical Analysis I | 3 | 5 | A | 4.00/4.00 | Exc. |
| 29 | MAT1312 | Mathematical Analysis-III | 3 | 5 | A | 4.00/4.00 | Exc. |
| 30 | MATH422 | Models and Methods of Inverse Problems | 3 | 5 | A | 4.00/4.00 | Exc. |
| 31 | MATH319 | Multiprocessor and High-Performance Computing | 3 | 5 | A | 4.00/4.00 | Exc. |
| 32 | MATH314 | Numerical Methods for MCM | 3 | 5 | A | 4.00/4.00 | Exc. |
| 33 | MATH206 | Optimization and Variational Calculus | 3 | 5 | A | 4.00/4.00 | Exc. |
| 34 | HUM207 | Ordinary Differential Equations | 3 | 5 | A | 4.00/4.00 | Exc. |
| 35 | PHE101 | Philosophy | 3 | 5 | A | 4.00/4.00 | Exc. |
| 36 | PHE102 | Physical Education I | 0 | 0 | P | 0.00/4.00 | Pass. |
| 37 | PHYS111 | Physical Education II | 0 | 0 | P | 0.00/4.00 | Pass. |
| 38 | CSE121 | Physics I | 3 | 5 | A | 4.00/4.00 | Exc. |
| 39 | CSE1326 | Programming Languages | 3 | 5 | A | 4.00/4.00 | Exc. |
| 40 | CSE353 | Robotics: Estimating and Learning | 3 | 5 | A | 4.00/4.00 | Exc. |
| 41 | MAT1221 | System Programming | 3 | 5 | A | 4.00/4.00 | Exc. |
| 42 | MAT1222 | The Fourier Transform and its Application | 3 | 5 | A | 4.00/4.00 | Exc. |
| 43 | MECH210 | The Method of a Apriori Estimates | 3 | 5 | A- | 3.67/4.00 | Exc. |
| 44 | MATH213 | Theoretical Mechanics | 3 | 5 | A | 4.00/4.00 | Exc. |
| 45 | MATH129 | Theory of Functions of a Complex Variable | 3 | 5 | A | 4.00/4.00 | Exc. |
| | | Theory of Probability and Mathematical Statistics | 3 | 5 | A | 4.00/4.00 | Exc. |
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15. Total number of credits on theoretical training 131 Number of ECTS credits on theoretical training 21916. By the decision of the State Attestation Commission (protocol № 7 of « 18 » 05 2018)

_____ was awarded

Bachelor of Engineering and Technology

(degree)

Mathematical and Computer Modelling

Education program _____

Level of compliance with the National Qualification Framework _____

The diploma entitles its owner to perform professional activities in accordance with the higher and post higher educational standards of the Republic of Kazakhstan



“Қазақстан-Британ
техникалық университеті” АҚ
(жоғарғы оқу орнының толық атауы)

Мемлекеттік аттестаттау комиссиясының 2018
жылғы « 18 » мамырдағы шешімімен (№ 7 хаттама)

Мусабаяв

Равиль Рафикович

(сегіз, аты, өтесінің аты (босым жағдайда))

5B070500 «Математикалық және

компьютерлік модельдеу» мамандығы бойынша
(мамандықтың коды және атауы)

техника және технология

БАКАЛАВРЫ

дәрежесі берілді

Мемлекеттік аттестаттау
комиссиясының төрағасы

Ректор

Хатшы

М.О.

2018 жылғы « 22 » маусым

Алматы к.

ЖБ - Б. №

0147474

Тіркеу нөмірі 7



Решением Государственной аттестационной комиссии

АО “Қазақстан-Британский
техникалық университеті”
(полное наименование учреждения)

от « 18 » мая 2018 года (протокол № 7)

Мусабаяв

Равиль Рафикович

(фамилия, имя, отчество (полное и полное))

присуждена степень

БАКАЛАВР

техники и технологии

по специальности 5B070500 - Математическое

и компьютерное моделирование
(код и наименование специальности)

By the decision of the State Attestation Committee of

JSC “Kazakh-British

Technical University”
(name of the higher education institution)

Mussabayev Ravil

(graduate's full name)

was

awarded the degree of BACHELOR of Engineering and Technology

in 5B070500 “Mathematical and Computer Modelling”
(code and name of the specialty)

Date « 18 » May 2018

ЖБ - Б. №

0147474

« 22 » июня 2018 года г. Алматы