

## **Information about updating educational programs for the 2023-2024 academic year**

### **Faculty of Information Technology and Economics**

#### **The basis for updating EP 6B01403 "Initial military training"**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. Changes have been made in accordance with the Professional Standard "Teacher", approved by the order of the acting. Minister of Education of the Republic of Kazakhstan dated December 15, 2022 No. 500.

3. The volume of credits for industrial teaching practice has been increased to 15 credits, in accordance with methodological recommendations for organizing and conducting teaching practice for students in the field of education "Pedagogical Sciences".

4. In the disciplines of the university component of the OOD block (5 credits), the integrated programs "Fundamentals of Economic and Legal Knowledge" (3 cr.) and "Fundamentals of Scientific and Environmental Knowledge" (2 cr.) have been introduced.

#### **The basis for updating EP 6B01404 "Physical Culture and Sport"**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. Changes have been made in accordance with the Professional Standard "Teacher", approved by the order of the acting. Minister of Education of the Republic of Kazakhstan dated December 15, 2022 No. 500.

3. The volume of credits for industrial teaching practice has been increased to 15 credits, in accordance with methodological recommendations for organizing and conducting teaching practice for students in the field of education "Pedagogical Sciences".

4. In the disciplines of the university component of the OOD block (5 credits), the integrated programs "Fundamentals of Economic and Legal Knowledge" (3 cr.) and "Fundamentals of Scientific and Environmental Knowledge" (2 cr.) have been introduced.

5. On the recommendation of employers, the following disciplines have been added: "Biochemistry of physical culture and sports", "Biochemistry in sports practice", "Hygiene of physical culture", "Nutrition hygiene of athletes".

#### **The basis for updating EP 6B01509 "Chemistry-Biology"**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. Changes have been made in accordance with the Professional Standard "Teacher", approved by the order of the acting. Minister of Education of the Republic of Kazakhstan dated December 15, 2022 No. 500.

3. The volume of credits for industrial teaching practice has been increased to 15 credits, in accordance with methodological recommendations for organizing and conducting teaching practice for students in the field of education "Pedagogical Sciences".

4. In the disciplines of the university component of the OOD block (5 credits), the integrated programs "Fundamentals of Economic and Legal Knowledge" (3 cr.) and "Fundamentals of Scientific and Environmental Knowledge" (2 cr.) have been introduced.

5. On the recommendation of employers, educational practice (chemistry) was added in the amount of 1 credit.

#### **The basis for updating EP 6B04119 “State and local government”**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. In the disciplines of the university component of the OOD block (5 credits), the integrated programs “Fundamentals of Economic and Legal Knowledge” (3 cr.) and “Fundamentals of Scientific and Environmental Knowledge” (2 cr.) have been introduced.

3. In accordance with the recommendations of employers, the discipline “World Financial Markets” was introduced.

#### **The basis for updating EP 6B04116 "Economics"**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. In the disciplines of the university component of the OOD block (5 credits), the integrated programs “Fundamentals of Economic and Legal Knowledge” (3 cr.) and “Fundamentals of Scientific and Environmental Knowledge” (2 cr.) have been introduced.

3. In accordance with the recommendations of employers, the disciplines “Business Law” and “Competition Law” were introduced.

#### **The basis for updating EP 6B04117 "Accounting and Audit"**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. In the disciplines of the university component of the OOD block (5 credits), the integrated programs “Fundamentals of Economic and Legal Knowledge” (3 cr.) and “Fundamentals of Scientific and Environmental Knowledge” (2 cr.) have been introduced.

3. In accordance with the recommendations of employers, the disciplines “Competition Law” and “Business Law” were introduced.

#### **The basis for updating EP 6B04118 "Finance"**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. In the disciplines of the university component of the OOD block (5 credits), the integrated programs “Fundamentals of Economic and Legal Knowledge” (3 cr.) and “Fundamentals of Scientific and Environmental Knowledge” (2 cr.) have been introduced.

3. In accordance with the recommendations of employers, the discipline “Competition Law” was introduced.

#### **The basis for updating EP 6B05121 “Biotechnology”**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. In the disciplines of the university component of the OOD block (5 credits), the integrated programs “Fundamentals of Economic and Legal Knowledge” (3 cr.) and “Fundamentals of Scientific and Environmental Knowledge” (2 cr.) have been introduced.

#### **The basis for updating EP 6B06122 “Informatics”**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. For the disciplines of the university component of the OOD block (5 credits), the integrated programs “Fundamentals of Economic and Legal Knowledge” (3 cr.) and “Fundamentals of Scientific and Environmental Knowledge” (2 cr.) have been introduced.

#### **The basis for updating EP 6B06123 “IT in healthcare”**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. In the disciplines of the university component of the OOD block (5 credits), the integrated programs “Fundamentals of Economic and Legal Knowledge” (3 cr.) and “Fundamentals of Scientific and Environmental Knowledge” (2 cr.) have been introduced.

#### **The basis for updating EP 6B06124 “Computer technology and software”**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. In the disciplines of the university component of the OOD block (5 credits), the integrated programs “Fundamentals of Economic and Legal Knowledge” (3 cr.) and “Fundamentals of Scientific and Environmental Knowledge” (2 cr.) have been introduced.

3. According to the recommendations of the National Chamber of Entrepreneurs Atameken and in accordance with the letter “Astana Hub”, the following disciplines were introduced: “Theory of Information Processes”, “Programming No Code, Lo Code”, “Introduction to Programming”, “Introduction to Blockchain”, “Fundamentals” blockchain technologies”, “Decentralized applications”, “LMS technologies”, “Blockchain system architecture”, “Ethereum development environments”, Web3 and Truffle”, “Smart contracts architecture”, “Working with Ethereum”, “Introduction to web3”, “Introduction to Internet Marketing”, “Blockchain Business Models”, “Basics of Blockchain and Cryptocurrency”.

#### **The basis for updating EP 6B06102 “Information systems”**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. In the disciplines of the university component of the OOD block (5 credits), the integrated programs “Fundamentals of Economic and Legal Knowledge” (3 cr.) and “Fundamentals of Scientific and Environmental Knowledge” (2 cr.) have been introduced.

### **The basis for updating EP 6B07125 “Electric power industry”**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. In the disciplines of the university component of the OOD block (5 credits), the integrated programs “Fundamentals of Economic and Legal Knowledge” (3 cr.) and “Fundamentals of Scientific and Environmental Knowledge” (2 cr.) have been introduced.

### **The basis for updating EP 6B07527 “Standardization, certification and metrology in construction”**

The following changes have been made for the 2023-2024 academic year:

1. Changes have been made in accordance with the State Compulsory Standard of Higher Education, approved by Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2.

2. For the disciplines of the university component of the OOD block (5 credits), the integrated programs “Fundamentals of Economic and Legal Knowledge” (3 cr.) and “Fundamentals of Scientific and Environmental Knowledge” (2 cr.) have been introduced.