**APPROVED BY**
**THE ACADEMIC COUNCIL**
of the National Aerospace University
"Kharkiv Aviation Institute"
Deputy Head
professor _____ Volodymyr PAVLIKOV

Minutes No.11 dated May, 22, 2024

Put in action from September, 1, 2024

Order No. 211 dated May, 23, 2024

# ACADEMIC CURRICULUM

of training the Bachelor in the field of knowledge *17 Electronics, Automation and Electronic Communications*

Qualification *Bachelor's Degree in Avionics*

in specialty *173 Avionics*

Duration of study 3 years 10 months

academic program Educational and research program *Systems of Autonomous Navigation and Adaptive Control of Aircraft*

pursuant to FGSE, levels QF 5, QF 6, QF 7

year of admission 2024 Program mode full-time studies

Academic department ***301***

## I. Academic calendar

| Year | Week No. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
| I | | | | | 8 | | | | | | | | 8 | | | | SA | H | S | S | S | H | | | | | 8 | | | | | | | | 8 | | | | SA | S | S | S | H/P | H/P | H/P | H | H | H | H | H/P | H/P | H/P |
| II | | | | | 8 | | | | | | | | 8 | | | | SA | H | S | S | S | H | | | | | 8 | | | | | | | | 8 | | | | SA | S | S | S | H/P | H/P | H/P | H | H | H | H | H/P | H/P | H/P |
| III | | | | | 8 | | | | | | | | 8 | | | | SA | H | S | S | S | H | | | | | 8 | | | | | | | | 8 | | | | SA | S | S | S | H/P | H/P | H/P | H | H | H | H | H/P | H/P | H/P |
| IV | | | | | 8 | | | | | | | | 8 | | | | SA | H | S | S | S | H | | | | 6 | | | | | | 6 | | | SA | C | C | QW | QW | QW | QW | QW | QW | | | | | | | | | |

Designations: 8, 6 are the weeks of theoretical training; SA - week of summative assessment; S – examination session; P - practice; H - holidays; QW – preparation and defense of qualification work

## II. CONSOLIDATED DATA OF TIME BUDGET per week

| Year | Theoretical training | Examination session | Summative assessment | Practice | Preparation and defense of qualification work | Holidays | Total |
|---|---|---|---|---|---|---|---|
| I | 32 | 6 | 2 | 3 | 0 | 9 | 52 |
| II | 32 | 6 | 2 | 3 | 0 | 9 | 52 |
| III | 32 | 6 | 2 | 3 | 0 | 9 | 52 |
| IV | 28 | 5 | 2 | 0 | 6 | 2 | 43 |
| Total | 124 | 23 | 8 | 9 | 6 | 29 | 199 |

## III. PRACTICE

| Type of practice | Semester | Weeks |
|---|---|---|
| Practical training | 2 | 3 |
| Introductory training | 4 | 3 |
| On-the-job training | 6 | 3 |

## IV. STATE ATTESTATION

| Form of state attestation | Semester |
|---|---|
| Qualification work | 8 |

**Year of admission** **2024** **Plan of the educational process**

| № | Cipher | Subjects' names | The department that performs the assignment | Distribution by semesters | | | | | | | | Hours | | | | | | | | | | | | | ECTS credits | Division into courses | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | of them | | | | | | | | | | | | | | I year | | II year | | III year | | IV year | |
| | | | | | | | | | | | | classes with a teacher | | | | | | | | | | | | | | Division into semesters | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | Number of weeks | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 12 |
| | | | | Exams | Test | Differential tests | Calculation and graphic works (CGW) | Calculation works (CW) | Module test (MT) | Course works (CW) | Course projects (CP) | Lectures | Number of hours p.w. of lectures in the 1 half of the semester | Number of hours p.w. of lectures in the 2 half of the semester | Laboratory work | Number of hours p.w. lab. works in the 1 half of the semester | Number of hours p.w. lab. works in the 2 half of the semester | Practical (seminar) classes | Number of hours p.w. of practical classes in the 1 half of the semester | Number of hours p.w. of practical classes in the 2 half of the semester | Total classroom hours | Individual work | Solitary work | Hours in general | | Distribution of ECTS credits by courses and semesters | | | | | | | |
| **Mandatory components** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | OK1 | Further Mathematics (Вища математика) | 405 | 1 | | | | | 1 | | | 40 | 3 | 2 | | | | 40 | 2 | 3 | 80 | | 70 | 150 | 5 | 5 | | | | | | | |
| 2 | OK3 | Algorithmization and Programming (Алгоритмізація та програмування) | 301 | 1 | | | | | | | | 32 | 2 | 2 | 40 | 2 | 3 | | | | 72 | | 123 | 195 | 6,5 | 6,5 | | | | | | | |
| 3 | OK4 | Engineering and Computer Graphics (Інженерна і комп'ютерна графіка) | 406 | | 1 | | | | | | | 24 | 2 | 1 | | | | 32 | 2 | 2 | 56 | | 94 | 150 | 5 | 5,0 | | | | | | | |
| 4 | OK5 | Introduction to Avionics (Вступ до фаху) | 301 | 1 | | | | 1 | | | | 32 | 2 | 2 | 16 | | 2 | 16 | 2 | | 64 | | 86 | 150 | 5 | 5,0 | | | | | | | |
| 5 | OK33 | Foreign Language (Іноземна мова) | 706 | | 1 | | | | | | | | | | | | | 48 | 3 | 3 | 48 | | 42 | 90 | 3 | 3,0 | | | | | | | |
| 6 | OK7 | Fundamentals of Law (Основи права) | 702 | | 1 | | | | | | | 16 | 1 | 1 | | | | 16 | 1 | 1 | 32 | | 28 | 60 | 2 | 2,0 | | | | | | | |
| 7 | OK8 | Professional Ukrainian Language (Українська мова за професійним спрямуванням) | 706 | | 1 | | | | | | | 16 | 1 | 1 | | | | 16 | 1 | 1 | 32 | | 28 | 60 | 2 | 2,0 | | | | | | | |
| 8 | OK1 | Further Mathematics (Вища математика) | 405 | 2 | | | | | 2 | | | 40 | 3 | 2 | | | | 40 | 2 | 3 | 80 | | 70 | 150 | 5 | | 5,0 | | | | | | |
| 9 | OK2 | Physics (Фізика) | 505 | | 2 | | | | | | | 40 | 3 | 2 | 40 | 2 | 3 | | | | 80 | | 70 | 150 | 5 | | 5,0 | | | | | | |
| 10 | OK3 | Algorithmization and Programming (Алгоритмізація та програмування) | 301 | 2 | | | | 2 | | | | 32 | 2 | 2 | 24 | 1 | 2 | 24 | 2 | 1 | 80 | | 115 | 195 | 6,5 | | 6,5 | | | | | | |
| 11 | OK33 | Foreign Language (Іноземна мова) | 706 | | | 2 | | | | | | | | | | | | 48 | 3 | 3 | 48 | | 42 | 90 | 3 | | 3,0 | | | | | | |
| 12 | OK34 | Philosophy (Філософія) | 701 | | 2 | | | | | | | 16 | 1 | 1 | | | | 32 | 2 | 2 | 48 | | 42 | 90 | 3 | | 3,0 | | | | | | |
| 13 | OK6 | Fundamentals of Metrology and Standardization (Основи метрології та стандартизації) | 303 | | 2 | | | | | | | 32 | 2 | 2 | 24 | | 3 | 16 | 2 | | 72 | | 108 | 180 | 6 | | 6,0 | | | | | | |
| 14 | OK29 | Academic Training (Навчальна практика) | 301 | | 2 | | | | | | | | | | | | | | | | | | 90 | 90 | 3 | | 3,0 | | | | | | |
| 15 | OK1 | Further Mathematics (Вища математика) | 405 | 3 | | | | | 3 | | | 40 | 3 | 2 | | | | 40 | 2 | 3 | 80 | | 70 | 150 | 5 | | | 5,0 | | | | | |
| 16 | OK9 | Electrical Engineering (Електротехніка) | 305 | 3 | | | | 3 | | | | 32 | 2 | 2 | 24 | 1 | 2 | 8 | 1 | 0 | 64 | | 71 | 135 | 4,5 | | | 4,5 | | | | | |
| 17 | OK10 | Electronics and Fundamentals of Circuit Design (Електроніка та основи схемотехніки) | 301 | 3 | | | | 3 | | | | 32 | 2 | 2 | 32 | 2 | 2 | | | | 64 | | 86 | 150 | 5 | | | 5,0 | | | | | |
| 18 | OK11 | Fundamentals of Navigation (Основи навігації) | 301 | | 3 | | | 3 | | | | 32 | 2 | 2 | 16 | 1 | 1 | 16 | 1 | 1 | 64 | | 86 | 150 | 5 | | | 5,0 | | | | | |
| 19 | OK17 | Computional Methods and Simulation Techniques (Методи обчислень та комп'ютерного моделювання) | 301 | | 3 | | | 3 | | | | 32 | 2 | 2 | 32 | 2 | 2 | | | | 64 | | 56 | 120 | 4 | | | 4,0 | | | | | |
| 20 | OK14 | Fundamentals of Avionics System Simulation (Основи моделювання систем авіоніки) | 301 | | 4 | | | 4 | | | | 32 | 2 | 2 | 32 | 2 | 2 | 16 | 1 | 1 | 80 | | 70 | 150 | 5 | | | | 5,0 | | | | |
| 21 | OK11 | Fundamentals of Navigation (Основи навігації) | 301 | 4 | | | | 4 | | | | 16 | 1 | 1 | 32 | 2 | 2 | 16 | 1 | 1 | 64 | | 86 | 150 | 5 | | | | 5,0 | | | | |
| 22 | OK10 | Electronics and Fundamentals of Circuit Design (Електроніка та основи схемотехніки) | 301 | 4 | | | | 4 | | | | 32 | 2 | 2 | 32 | 2 | 2 | | | | 64 | | 71 | 135 | 4,5 | | | | 4,5 | | | | |
| 23 | OK13 | Engineering Mechanics (Applied Mechanics and Fundamentals of Design) (Технічна механіка (Прикладна механіка та основи конструювання)) | 202 | 4 | | | 4 | | | | | 32 | 2 | 2 | 24 | 1 | 2 | | | | 56 | | 64 | 120 | 4 | | | | 4,0 | | | | |
| 24 | OK30 | Language Practice (Мовна практика) | 706 | | 4 | | | | | | | | | | | | | | | | | | 90 | 90 | 3 | | | | 3,0 | | | | |

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| 25 | ОК15 | Automatic Control Theory (Теорія автоматичного управління) | 301 | 5 | | | | 5 | | | | 32 | 2 | 2 | 32 | 2 | 2 | 16 | 1 | 1 | 80 | | 55 | 135 | 4,5 | | | | | 4,5 | | | |
| 26 | ОК14 | Fundamentals of Avionics System Simulation (Основи моделювання систем авіоніки) | 301 | 5 | | | | 5 | | | | 16 | 1 | 1 | 16 | 1 | 1 | 16 | 1 | 1 | 48 | | 42 | 90 | 3 | | | | | 3,0 | | | |
| 27 | ОК12 | Fundamentals of Navigation (Course Work) (Основи навігації (курсова робота)) | 301 | | | 5 | | | | 5 | | | | | | | | 24 | 1 | 2 | 24 | | 36 | 60 | 2 | | | | | 2,0 | | | |
| 28 | ОК21 | Microcontrollers (Мікроконтролери в системах управління) | 301 | | 5 | | | 5 | | | | 32 | 2 | 2 | 32 | 2 | 2 | | | | 64 | | 56 | 120 | 4 | | | | | 4,0 | | | |
| 29 | ОК18 | Avionics Information and Measuring Devices (Інформаційно-вимірювальні пристрої авіоніки) | 301 | 5 | | | | 5 | | | | 40 | 3 | 2 | 40 | 2 | 3 | 16 | 1 | 1 | 96 | | 54 | 150 | 5 | | | | | 5,0 | | | |
| 30 | ОК15 | Automatic Control Theory (Теорія автоматичного управління) | 301 | 6 | | | | 6 | | | | 32 | 2 | 2 | 32 | 2 | 2 | 8 | 1 | | 72 | | 78 | 150 | 5 | | | | | | 5,0 | | |
| 31 | ОК21 | Microcontrollers (Мікроконтролери в системах управління) | 301 | 6 | | | | 6 | | | | 16 | 1 | 1 | 32 | 2 | 2 | | | | 48 | | 57 | 105 | 3,5 | | | | | | 3,5 | | |
| 32 | ОК19 | Avionics Information and Measuring Devices (Course Project) (Інформаційно-вимірювальні пристрої авіоніки (курсовий проект)) | 301 | | | 6 | | | | | 6 | | | | | | | 24 | 1 | 2 | 24 | | 36 | 60 | 2 | | | | | | 2,0 | | |
| 33 | ОК20 | Actuators of Avionics Systems (Приводи систем авіоніки) | 301 | | 6 | | | | | | | 16 | 1 | 1 | 16 | 1 | 1 | 8 | 1 | 0 | 40 | | 50 | 90 | 3 | | | | | | 3,0 | | |
| 34 | ОК31 | Practical Training (Виробнича практика) | 301 | | 6 | | | | | | | | | | | | | | | | | | 90 | 90 | 3 | | | | | | 3,0 | | |
| 35 | ОК16 | Automatic Control Theory (Course Project) (Теорія автоматичного управління (курсовий проект)) | 301 | | | 7 | | | | | 7 | | | | | | | 24 | 1 | 2 | 24 | | 36 | 60 | 2 | | | | | | | 2,0 | |
| 36 | ОК26 | Fundamentals of Autonomous Navigation Systems (Основи побудови автономних навігаційних систем) | 301 | 7 | | | | | | | | 32 | 2 | 2 | 16 | 1 | 1 | | | | 48 | | 57 | 105 | 3,5 | | | | | | | 3,5 | |
| 37 | ОК24 | Control System Designing (Проєктування систем управління) | 301 | | 7 | | | 7 | | | | 16 | 1 | 1 | 16 | | 2 | 8 | 1 | | 40 | | 50 | 90 | 3 | | | | | | | 3,0 | |
| 38 | ОК23 | Vital Activity Safety, Labor Protection and Civil Protection (БЖД, охорона праці та цивільний захист) | 106 | | 7 | | | 7 | | | | 16 | 1 | 1 | | | | 16 | 1 | 1 | 32 | | 58 | 90 | 3 | | | | | | | 3,0 | |
| 39 | ОК22 | Aircraft Control Systems (Системи управління літальними апаратами) | 301 | 7 | | | | 7 | | | | 32 | 2 | 2 | 40 | 2 | 3 | | | | 72 | | 48 | 120 | 4 | | | | | | | 4,0 | |
| 40 | ОК35 | Fundamentals of Adaptive Control Systems (Основи побудови адаптивних систем управління) | 301 | 7 | | | | 7 | | | | 32 | 2 | 2 | 16 | 1 | 1 | | | | 48 | | 42 | 90 | 3 | | | | | | | 3,0 | |
| 41 | ОК24 | Control System Designing (Проєктування систем управління) | 301 | 8 | | | | | | | | 18 | 2 | 1 | 12 | 1 | 1 | 24 | 2 | 2 | 54 | | 81 | 135 | 4,5 | | | | | | | | 4,5 |
| 42 | ОК25 | Control System Designing (Course Project) (Проєктування систем управління (курсовий проект)) | 301 | | | 8 | | | | | 8 | | | | | | | 24 | 2 | 2 | 24 | | 36 | 60 | 2 | | | | | | | | 2,0 |
| 43 | ОК27 | Economics and Marketing of an Industrial Enterprise (Економіка та маркетинг промислового підприємства) | 601 | | 8 | | | | | | | 18 | 2 | 1 | | | | 18 | 1 | 2 | 36 | | 54 | 90 | 3 | | | | | | | | 3,0 |
| 44 | ОК28 | Manufactoring Process of Avionics Devices (Технологія виробництва пристроїв авіоніки) | 303 | 8 | | | | 8 | | | | 12 | 1 | 1 | 12 | 1 | 1 | 12 | 1 | 1 | 36 | | 54 | 90 | 3 | | | | | | | | 3,0 |
| 45 | ОК32 | Qualifying Thesis (Кваліфікаційна робота) | 301 | 8 | | | | | | | | | | | | | | | | | | | 270 | 270 | 9 | | | | | | | | 9,0 |
| **Total** | | | | 22 | 18 | 5 | 1 | 20 | 3 | 1 | 3 | 960 | 65 | 57 | 680 | 36 | 50 | 662 | 44 | 42 | 2302 | 0 | 3098 | 5400 | 180 | 28,5 | 31,5 | 23,5 | 21,5 | 18,5 | 16,5 | 18,5 | 21,5 |
| **Selective components** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Minor** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | ВК1 | Minor. Course 1 (Minor. Дисципліна 1) | 777 | 5 | | | | | | | | 32 | 2 | 2 | | | | 32 | 2 | 2 | 64 | | 86 | 150 | 5 | | | | | 5 | | | |
| 47 | ВК2 | Minor. Course 2 (Minor. Дисципліна 2) | 777 | 6 | | | | | | | | 32 | 2 | 2 | | | | 32 | 2 | 2 | 64 | | 86 | 150 | 5 | | | | | | 5 | | |
| 48 | ВК3 | Minor. Course 3 (Minor. Дисципліна 3) | 777 | 7 | | | | | | | | 32 | 2 | 2 | | | | 32 | 2 | 2 | 64 | | 86 | 150 | 5 | | | | | | | 5 | |
| 49 | ВК4 | Minor. Course 4 (Minor. Дисципліна 4) | 777 | 8 | | | | | | | | 30 | 3 | 2 | | | | 24 | 2 | 2 | 54 | | 96 | 150 | 5 | | | | | | | | 5 |
| **Total** | | | | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 126 | 9 | 8 | 0 | 0 | 0 | 120 | 8 | 8 | 246 | 0 | 354 | 600 | 20 | 0 | 0 | 0 | 0 | 5 | 5 | 5 | 5 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Major** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | ВК5 | Major. Course 1 (Major. Дисципліна 1) | 777 | 3 | | | | | | | | 32 | 2 | 2 | | | | 32 | 2 | 2 | 64 | | 86 | 150 | 5 | | | 5 | | | | | |
| 51 | ВК6 | Major. Course 2 (Major. Дисципліна 2) | 777 | 4 | | | | | | | | 32 | 2 | 2 | | | | 32 | 2 | 2 | 64 | | 86 | 150 | 5 | | | | 5 | | | | |
| 52 | ВК7 | Major. Course 3 (Major. Дисципліна 3) | 777 | 5 | | | | | | | | 32 | 2 | 2 | | | | 32 | 2 | 2 | 64 | | 86 | 150 | 5 | | | | | 5 | | | |
| 53 | ВК8 | Major. Course 4 (Major. Дисципліна 4) | 777 | 6 | | | | | | | | 32 | 2 | 2 | | | | 32 | 2 | 2 | 64 | | 86 | 150 | 5 | | | | | | 5 | | |
| **Total** | | | | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 | 8 | 8 | 0 | 0 | 0 | 128 | 8 | 8 | 256 | 0 | 344 | 600 | 20 | 0 | 0 | 5 | 5 | 5 | 5 | 0 | 0 |
| **Discipline of individual choice** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 54 | ВК9 | Mathematics and Technics course of choice (Математично-технічний блок на вибір) | 777 | 4 | | | | | | | | 32 | 2 | 2 | | | | 32 | 2 | 2 | 64 | | 86 | 150 | 5 | | | | 5 | | | | |
| 55 | ВК10 | Discipline of individual choice 1 (Дисципліна індивідуального вибору 1) | 777 | 6 | | | | | | | | 32 | 2 | 2 | | | | 32 | 2 | 2 | 64 | | 86 | 150 | 5 | | | | | | 5 | | |
| 56 | ВК11 | Discipline of individual choice 2 (Дисципліна індивідуального вибору 2) | 777 | 7 | | | | | | | | 32 | 2 | 2 | | | | 32 | 2 | 2 | 64 | | 86 | 150 | 5 | | | | | | | 5 | |
| 57 | ВК12 | Discipline of individual choice 3 (Дисципліна індивідуального вибору 3) | 777 | 8 | | | | | | | | 30 | 3 | 2 | | | | 24 | 2 | 2 | 54 | | 96 | 150 | 5 | | | | | | | | 5 |
| **Total** | | | | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 126 | 9 | 8 | 0 | 0 | 0 | 120 | 8 | 8 | 246 | 0 | 354 | 600 | 20 | 0 | 0 | 0 | 5 | 0 | 5 | 5 | 5 |
| **Total** | | | | 34 | 18 | 5 | 1 | 20 | 3 | 1 | 3 | 1340 | 91 | 81 | 680 | 36 | 50 | 1030 | 68 | 66 | 3050 | 0 | 4150 | 7200 | 240 | 28,5 | 31,5 | 28,5 | 31,5 | 28,5 | 31,5 | 28,5 | 31,5 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Total** | **Hours per week** | 24 | 25,5 | 25 | 24,5 | 27,5 | 23,5 | 24,5 | 21,5 |
| | **Exams** | 3 | 2 | 4 | 5 | 5 | 5 | 5 | 5 |
| | **Test** | 4 | 4 | 2 | 2 | 1 | 2 | 2 | 1 |
| | **Differential tests** | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| | **Calculation and graphic works (CGW)** | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | **Calculation works (CW)** | 1 | 1 | 4 | 3 | 4 | 2 | 4 | 1 |
| | **Module test (MT)** | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | **Course works (CW)** | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | **Course projects (CP)** | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |

Vice-rector of SPW _____ Andrii HUMENNYI

"20" 05 2024

Head of SMC _____ Dmytro KRYTSKYI

"20" 05 2024

Head of EMD _____ Eleonora DARMOFAL

"20" 05 2024

Guarantor of the educational program _____ Kostiantyn DERGACHOV

"20" 05 2024

Verified
Licensing and accrediting group _____ Mykola FEDORENKO

"20" 05 2024

Head of department № 301 _____ Kostiantyn DERGACHOV

"20" 05 2024