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Report on feedback and final analysis

ACTIVITY PERIOD 15/01/2020-14/01/2024

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Project start date:	January 15, 2020
Project duration:	48 months

Abstract	This is a narrative report of feedback and final analysis
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VERSIONING AND CONTRIBUTION HISTORY

Version	Date	Revision description	Partner responsible
1.0	10/01/2024	First draft	KEnEU

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1. Feedback and final analysis of WKATU

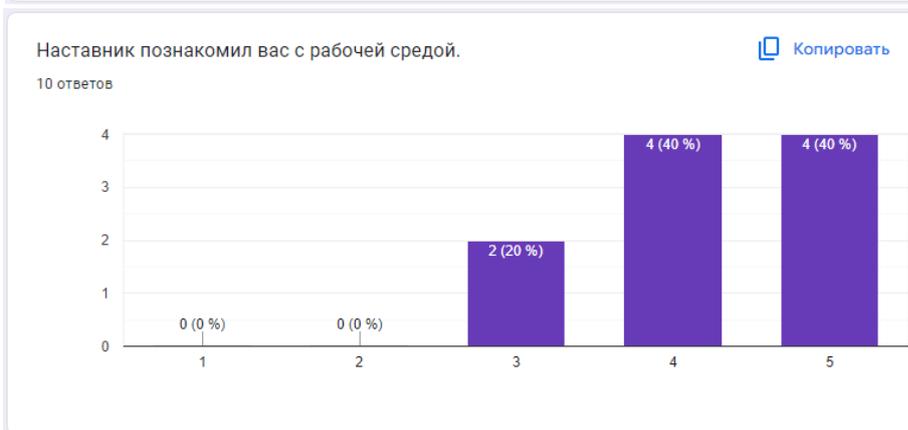
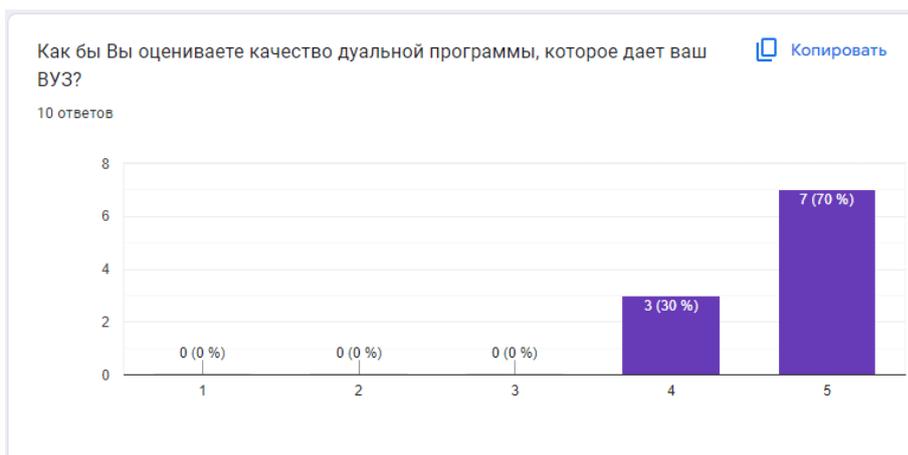
Questionnaires on satisfaction with the educational services provided, regarding compliance with the quality of educational programs and disciplines, are systematically carried out for students, graduates and employers.

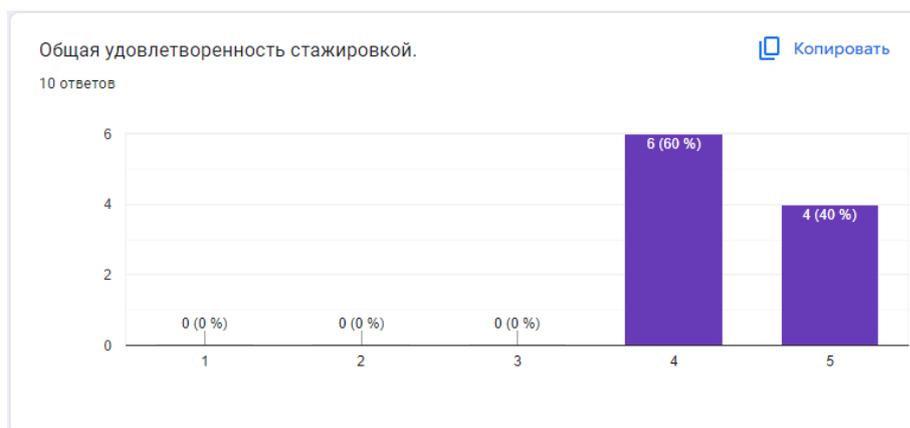
The results of the survey are the basis for making changes to the development of EP and introducing elective disciplines. These forms of student participation reflect modern requirements in the formation of competencies and reveal the extent to which it was possible to form both professional and universal competencies.

The results of the survey on the provision of educational services are discussed at meetings of higher schools. Based on the results of the survey, an analysis is carried out and brought to the attention of interested parties.

To determine the level of student satisfaction with the quality of the organization of the educational process and identify the strengths and weaknesses of dual education among graduates of the Robotics Systems EP, an online survey was conducted.

The results of this survey show that the majority of graduates highly assess the quality of the educational services provided in dual education, that is, 70% of survey participants gave the maximum rating - 5 on a five-point scale, and 30% - 4.



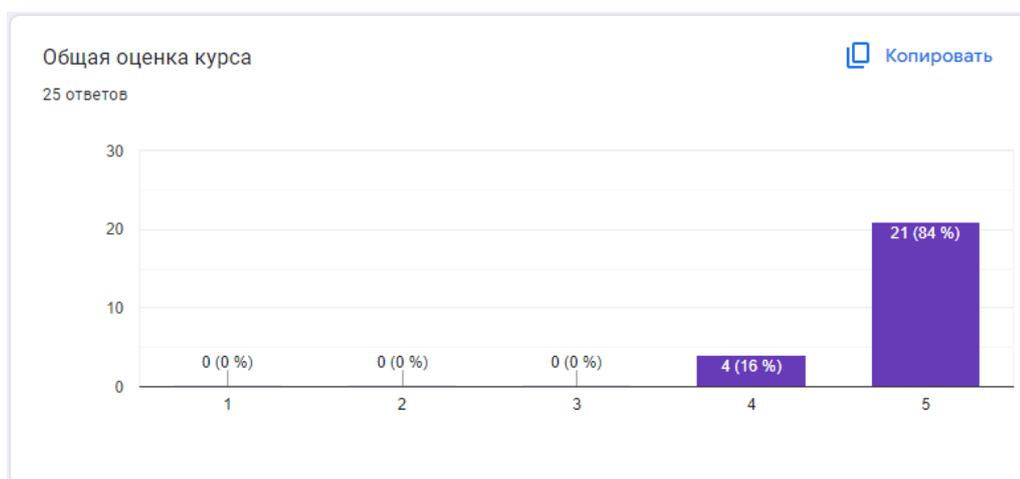


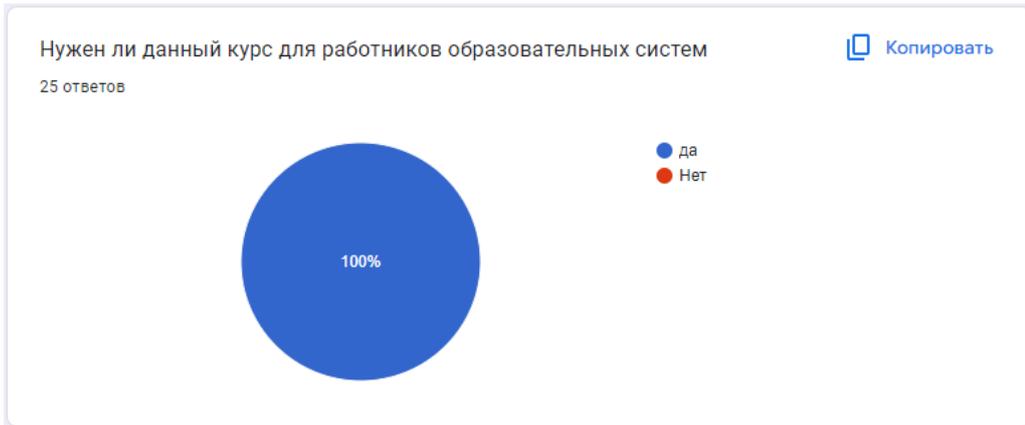
Familiarization of students with the work environment by employers is noted as a weak point of this training and requires further improvement, since the question “Did the mentor introduce you to the work environment?” 20% of respondents gave an average rating, and 40% gave a good or high rating.

Result:

Overall satisfaction with the quality of the organization of dual training is 60% - good rating and 40% - high rating.

Analyzing the questionnaires of students of LLL advanced training courses, the following conclusions can be drawn: The largest number of respondents who participated in the survey were completely satisfied with the teaching methods and the possibility of practical application of the acquired knowledge because to the question “Overall assessment of the course?” answered 84% of respondents gave a high rating and only 16% answered - a good rating.





- Ваши предложения**
- На ежегодной основе проводить такого рода курсы для производственников
 - Нет предложения
 - В дальнейшем проводились такие курсы. Если есть возможность, организовать некоторые практические занятия в производстве
 - Модно организовать такие курсы и в 2024 гг?
 - Өте тиімді, керек
 - Курс очень был полезен
 -
 - По больше бы таких курсов

- Ваш отзыв**
- Хороший курс
 - Спасибо за заложенную базу в автоматике и робототехнике
 - Нет иных замечаний
 - Все на 5
 - 5
 - Все отлично
 - Я думаю то что нужно. Нужно развивать таких местах.
 - Нет отзыв
 - Керемет!

Information obtained through comments left by graduates at will also shows satisfaction with the level of the educational process, and is encouraging with a lot of feedback and suggestions, which indicates a high level of involvement of students in the educational process and interest in further joint cooperation in improving the quality of education.

- Conduct such courses for production workers on an annual basis

• Such courses were subsequently conducted. If it is possible to organize some practical training in production

- Is it possible to organize such courses in 2024?
- The course was useful
- More courses like this
- Good course
- Thank you for laying the foundation in automation and robotics
- I think what is needed. It needs to be developed locally.
- Amazing

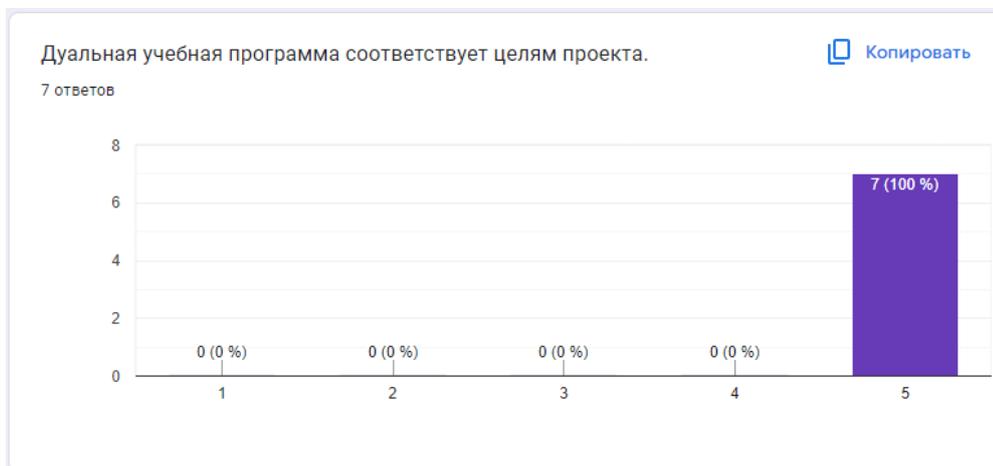
Result:

Overall satisfaction with the quality of the organization of LLL advanced training courses is 16% - good rating and 84% - high rating.

When analyzing a survey of employers regarding employers' satisfaction with the quality of student training. The questionnaire for employers included 10 questions. During the survey, it was necessary to highlight a point - a number that shows the level of compliance and non-conformity of quality; respondents had to rate it on a 5-point scale.

The results of the survey in percentage terms are as follows:

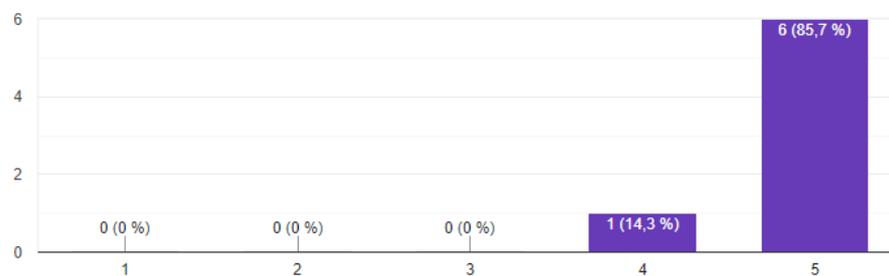
The majority of respondents assessed the quality of the internship and that the dual program corresponds to the goals of the project. Excellent – 100%; to the question “The dual curriculum provides an opportunity for faster implementation in the labor market and the fight against unemployment among young people,” that is, 85.7% of survey participants gave the maximum rating - 5 on a five-point scale, and 14.3% - 4.



Дуальная учебная программа предоставляет возможность для более быстрой реализации на рынке труда и борьбы с безработицей среди молодежи.

 Копировать

7 ответов

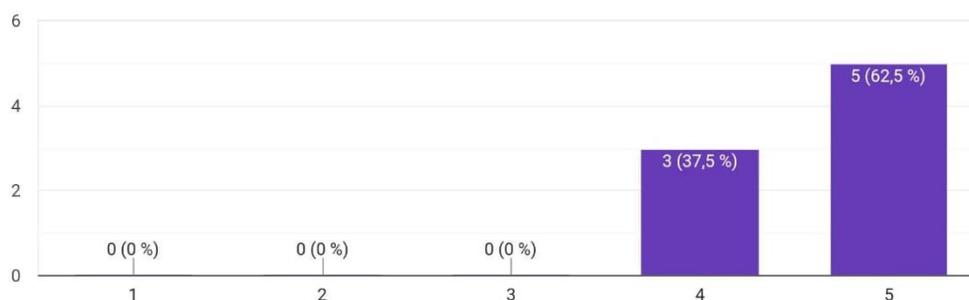


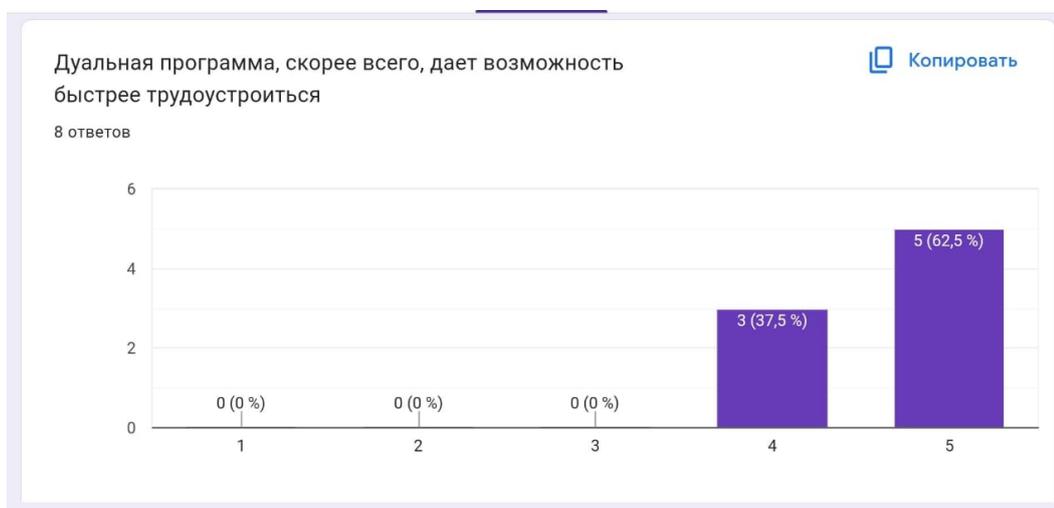
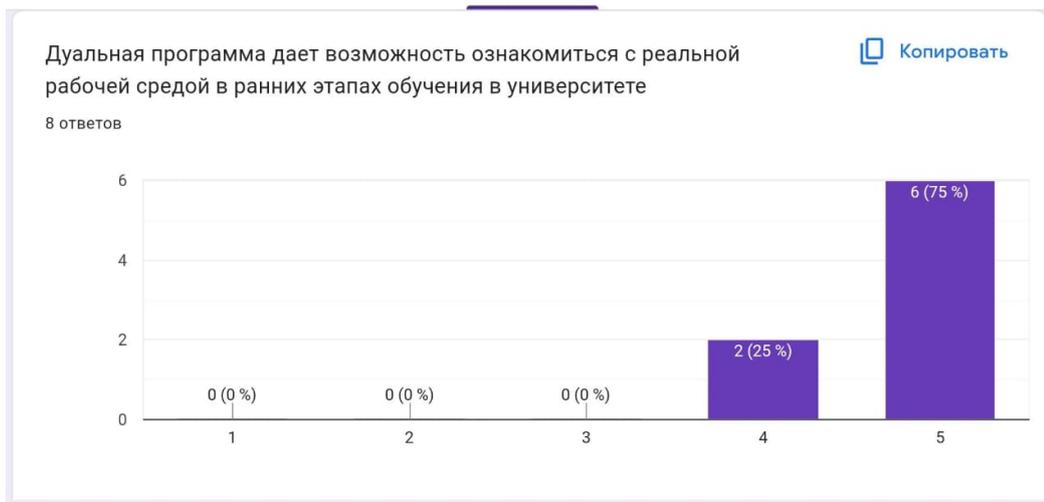
The questionnaire for students included 10 evaluation criteria; a total of 8 students took part in the survey; each criterion was scored from 1 to 5. The ratings given by the respondents indicate that, in general, students are satisfied with the dual program, which provides a balance between theory at the university and practical internship experience in production. 37.5% of respondents gave an average rating, and 62.5% a good and high rating; students also noted that the Dual program provides an opportunity to get acquainted with the real work environment in the early stages of studying at the university, a high rating was given by -75%, and 25% - Fine. Students, which is 62.5% of respondents, believe that the dual program makes it possible to find a job faster.

Дуальная программа обеспечивает баланс между теорией в университете и практическим опытом в производстве

 Копировать

8 ответов





The majority of respondents assessed the quality of educational services. The results obtained show high satisfaction among students studying in a dual program with the use of innovative technologies in the learning process and the opportunity to undergo internships in production with further employment. Analysis of the questionnaire shows satisfaction with the level of the educational process, pleases with a lot of feedback and suggestions, which indicates the high involvement of students in the educational process and interest in further joint cooperation in improving the quality of education in the dual program.

2. Feedback and final analysis of KEnEU

KEnEU teachers, mentors of the SaryarkaAutoProm and students of the first and second courses of the EP "Robotic Systems" met at the site of the corporate university of the enterprise to discuss the implementation of the dual educational program and the project as a whole. According to the World Cafe methodology proposed by the partners of FH Joanneum, the participants of the meeting in 3 mixed groups discussed 5 issues regarding the internship at the enterprise.

**On the introduction of dual education in Kostanay:
analysis of experience and prospects
May 26, 2023**

AGENDA

Location: SaryarkaAvtoProm LLP

Time: 11³⁰ - 13¹⁰

Contacts: Gerauf Inna
8-705-4604916
gerauf.i@mail.ru

11 ³⁰ – 11 ⁴⁰ h	Registration of participants
11 ⁴⁰ – 12 ¹⁰ h	Discussion: On the introduction of dual education in Kostanay: analysis of experience and prospects
12 ¹⁰ – 12 ⁴⁰ h	World Cafe
12 ⁴⁰ – 13 ⁰⁰ h	Survey
13 ⁰⁰ – 13 ¹⁰ h	<i>Discussion and closing of the meeting</i>



The following questions were asked:

Question 1

Do you see the connection between the theoretically taught contents of the university and the given practical training at all?

Question 2

What do you see as the biggest benefit for the company and the students?

Question 3

How can you understand whether the company's activities really complement the curriculum?

Question 4

Are the quantity and quality of care provided by the mentors sufficient?

Question 5

Which kind of assessment and feedback tools (written or oral) did you use to reflect the practical training? To whom these were submitted?

The following responses were received:

Question 1

The program is well coordinated, should be updated periodically to meet the needs of the market.

Programming languages and the study of conveyor lines came in handy.

Theoretical knowledge was obtained at the university, practical knowledge - at the enterprise.

The first-year student, who studied only general education subjects and came to the introductory practice at the enterprise, replied that the topics at the university did not correspond.

Question 2

Benefits for students: the acquisition of practical experience, the emergence of interest in real production, familiarity with the company, employment, adaptation to teamwork, independence and responsibility.

Benefits for the company: new ideas, economic benefits, selection of future employees, trained specialists.

Question 3

Examination of the curriculum by the company's employees

Internships of university teachers in the company before the development or modernization of the curriculum

Attracting practitioners from production to the educational process at the university

The company serves as a platform for consolidating theoretical knowledge acquired at the university, at the enterprise.

Question 4

Enough is enough, students get answers to all questions.

The help from the mentors of the company is very great, even in personal matters (the student's card did not work to pay for lunch, he turned to the mentor).

At work, students receive more detailed answers with examples on the topic than at university.

The mentor is a source and classifier of knowledge for the student, a guide between the enterprise and the university.

Question 5

Practice diary and report, feedback questionnaire, oral survey, feedback from the mentor of the enterprise about the student's practice.

Suggestions – to organize a council of students of different universities at the enterprise, who are interning at the enterprise, so that students can also exchange experience among themselves; open defense of diploma projects.

Also, the results of a survey of students, mentors of the university and enterprises are attached to the report.

LLL program for employees of enterprises of the Kostanay region was organized on the basis of the KEnEU three times:

1. on the topic "Industrial pneumatic automation and mechatronics. Basic level" in the amount of 36 hours in the period 04/04/2022-08/04/2022;
2. on the topic "Fundamentals of Pneumautomatics and mechatronics for employees of educational systems" in the amount of 72 hours in the period 13/06/2022-24/06/2022;
3. on the topic "Basic level of industrial pneumatic automation and mechatronics" in the amount of 36 hours in the period 20/02/2023-24/02/2023.

At the end of each program, a survey was conducted, in which the students proposed to increase the duration of the program, differentiate courses according to the level of complexity, and make additional purchases of consumables for practicing the practical tasks of the course.

The questionnaire contained questions on 13 criteria for evaluating the program on a 5-point scale.

Diagram 1. Evaluation of the LLL program conducted in the period 04/04/2022-08/04/2022 by students.

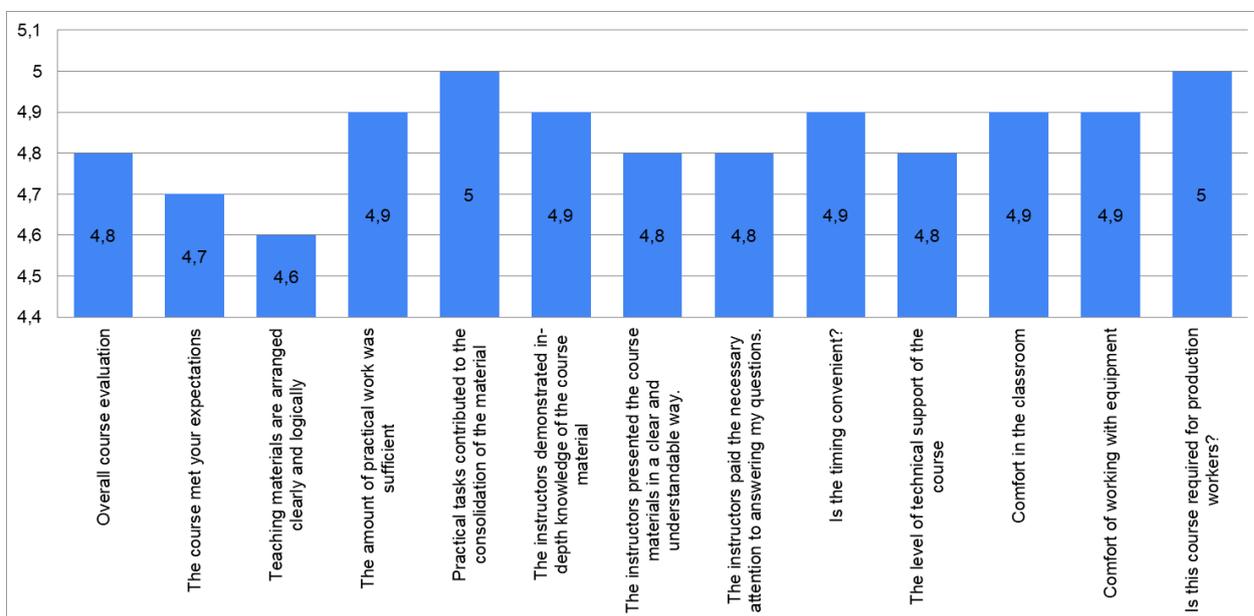


Diagram 2. Evaluation of the LLL program conducted in the period 13/06/2022-24/06/2022 by students.

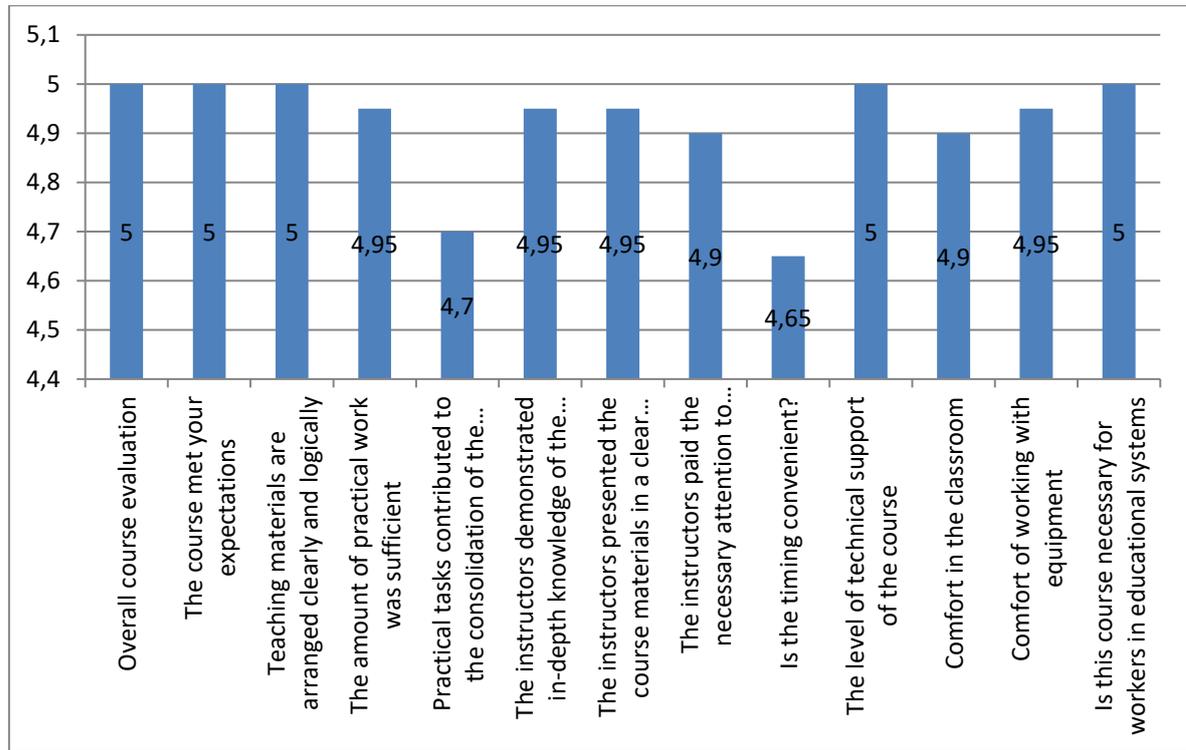
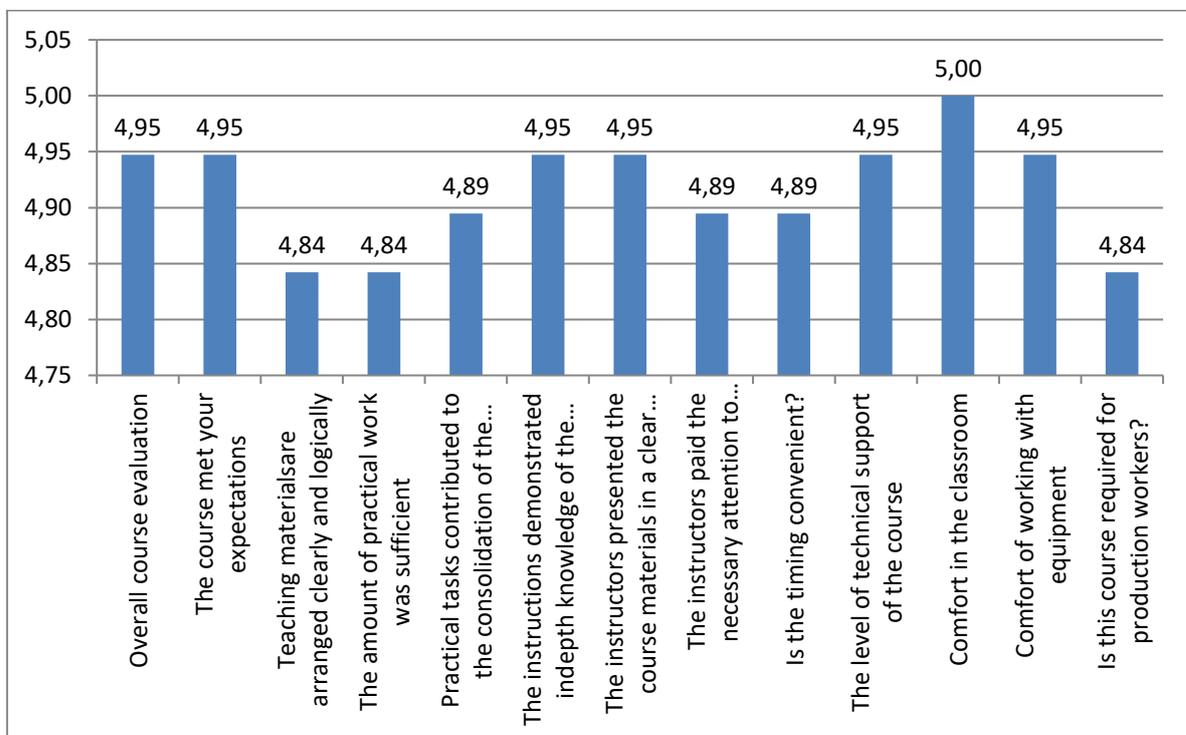


Diagram 3. Evaluation of the LLL program conducted in the period 20/02/2023-24/02/2023 by students.



Based on the results of the survey, we can conclude that the LLL program is implemented with high quality, is relevant and in demand by professionals in the field of industrial automation and robotics.

3. Feedback and final analyses of the INEU

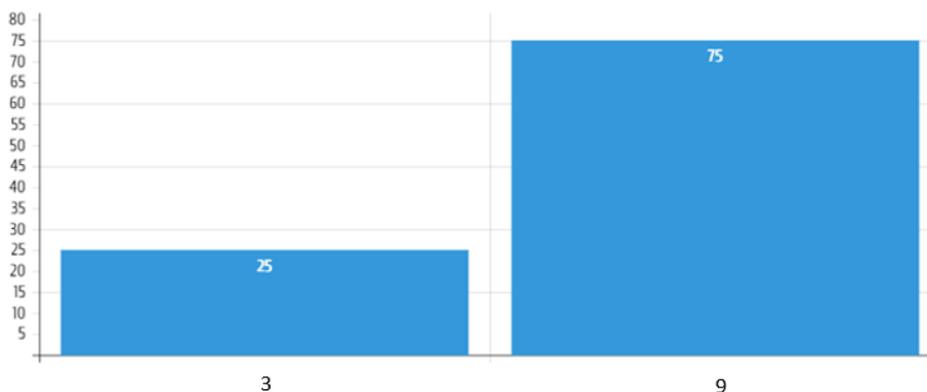
The questionnaire on satisfaction with the provided educational services, on the conformity of the quality of the EP and disciplines is systematically conducted for students, graduates and employers.

The results of the questionnaire are the basis for making changes in the development of the EP and the introduction of elective disciplines. These forms of students' participation reflect modern requirements in the formation of competences, and reveals the extent to which both professional and universal competences have been formed.

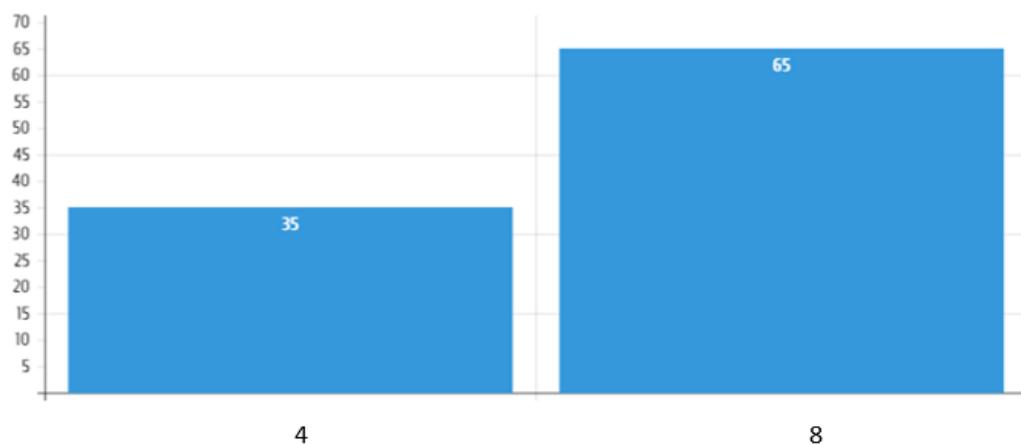
Discussion of the results of the survey on the provision of educational services is held at the meetings of higher schools. The results of the survey are analysed and communicated to stakeholders.

To determine the level of satisfaction of students with the quality of organisation of the educational process and to identify the strengths and weaknesses of dual training among students in the course of the Robotics Systems, an online survey-questionnaire was conducted. The results of this survey show that the majority of respondents highly evaluate the quality of the educational service provided on dual training, that is, 75% of the survey participants gave the maximum score - 5 on a five-point scale, and 25% - 4

Как бы Вы оцениваете качество дуальной программы, которое дает ваш ВУЗ?



Общая удовлетворенность стажировкой.



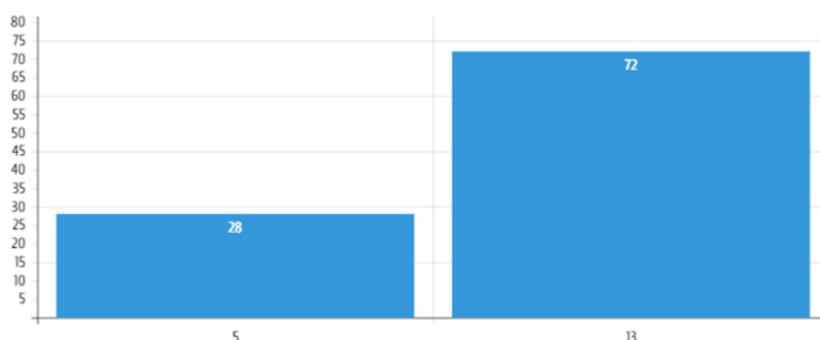
Familiarisation of students' employers with the work environment is noted as a weak point of this training and requires further improvement.

Result:

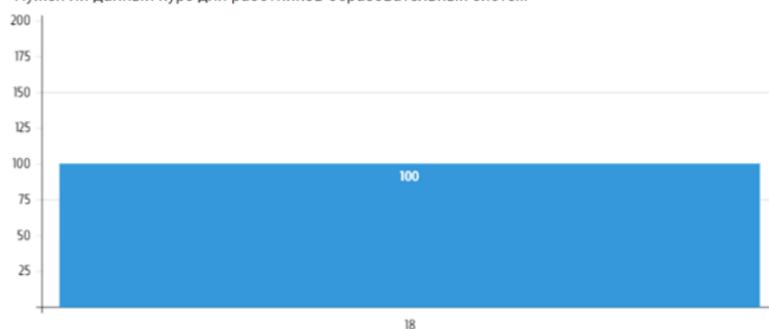
The overall satisfaction with the quality of the dual training organisation is 35% good and 65% high.

Analysing the questionnaires of LLL advanced training course participants we can draw the following conclusions: The largest number of respondents who participated in the questionnaire are fully satisfied with the methods of training and the possibility of practical application of the acquired knowledge because to the question "General evaluation of the course?" answered 72% of respondents gave a high evaluation and only 28% answered - good evaluation.

Общая оценка курса



Нужен ли данный курс для работников образовательных систем



The information obtained with the help of comments left by the graduates at will, also shows satisfaction with the level of the training process, is pleased with a lot of feedback and suggestions, which shows the great involvement of trainees in the learning process and interest in further joint co-operation in improving the quality of training. На ежегодной основе проводить такого рода курсы для производителей

- Further such courses have been conducted. If it is possible to organise some practical training in production
- Is it possible to organise such courses in 2024?
- The course was useful
- More such courses
- Good course
- Thanks for the foundation in automation and robotics.
- I think this is what is needed. Need to develop in the field.

Result:

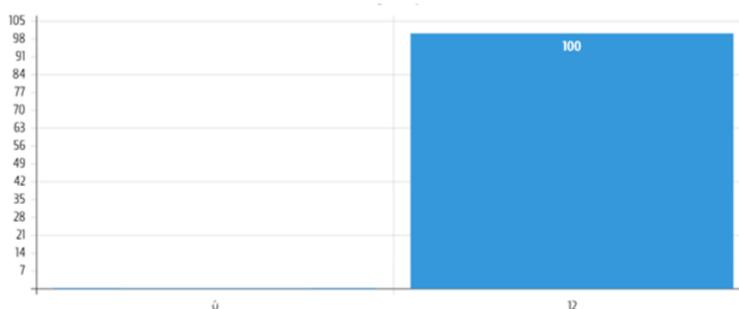
The overall satisfaction with the quality of organisation of LLL professional development courses is - 16%- good rating and 84%- high rating.

When analysing the employers' questionnaire regarding employers' satisfaction with the quality of students' training, the questionnaire for employers included 10 questions. In the process of the survey it was necessary to allocate a point - a figure that shows the level of conformity and nonconformity of quality, the interviewees had to evaluate on a 5-point scale.

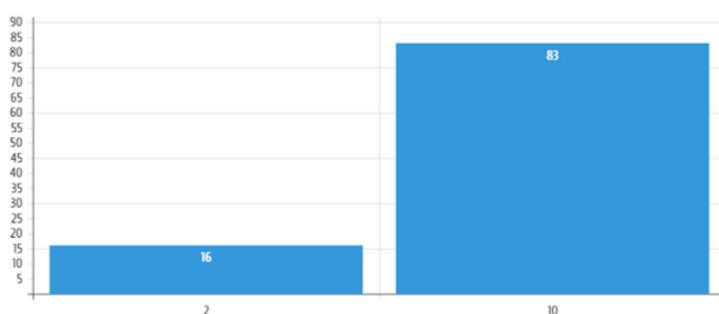
The results of the survey in percentage terms are as follows:

The majority of respondents assessed the quality of the internship and that the dual programme meets the project objectives. Excellent - 100%; on the question "The dual training programme provides an opportunity for faster implementation in the labour market and fight against youth unemployment", i.e. 83.3% of the survey participants gave the maximum evaluation - 5 on a five-point scale, and 16.7% - 4.

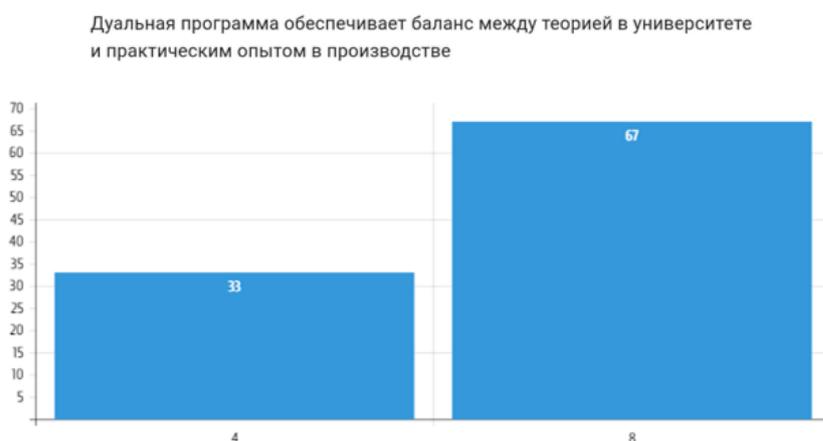
Дуальная учебная программа соответствует целям проекта.



Дуальная учебная программа предоставляет возможность для более быстрой реализации на рынке труда и борьбы с безработицей среди молодежи.



The questionnaire for students included 10 evaluation criteria, a total of 12 students took part in the questionnaire, the score of each criterion from 1 to 5. The evaluations given by the respondents indicate that, in general, students are satisfied with the dual programme, which provides a balance between theory at university and practical experience of internship in production. 30% of the respondents gave an average rating, while 70% gave a good and high rating, also the students mentioned that the Dual Programme provides an opportunity to get to know the real working environment in the early stages of the university high rating, gave -67% and 33% gave a good rating. The students, which is 100% of the respondents, that the dual programme gives an opportunity to get employed faster.



The majority of respondents evaluated the quality of educational services. The results show that students are highly satisfied with the dual programme with the use of innovative technologies in the learning process and the possibility of internship at the production site with further employment. The analysis of the questionnaire shows satisfaction with the level of the educational process, is pleased with a lot of feedback and suggestions, which indicates a great involvement of students in the educational process and interest in further joint cooperation in improving the quality of training on dual programme.