OP 6B07105-Industrial Engineering

The purpose of the educational program is professional training of highly qualified specialists focused on designing and implementing innovative and effective engineering technologies that contribute to sustainable development, on the formation of a technically competent, socially responsible and environmentally oriented person with creative thinking, capable of responding to the challenges of modern industry.

Development plan

1. Improvement of the curriculum:

- Updating disciplines with a focus on digital engineering, sustainable technologies, automation and robotics.

- Implementation of project-based training based on real production cases.

2. Human resource development

- Professional development of teachers, internships at industry enterprises.

- Involvement of industry experts and practitioners in conducting disciplines and master classes.

3. Infrastructure and digitalization

- Equipping laboratories with modern equipment, including CAD/CAM systems

- Development of online courses and digitaltrainingcourses.

4. International cooperation

- Creation of double degree programs and academic exchanges.

5. Interaction with the industry

- Development of a system of internships and internships at enterprises.

- Students ' participation in research and development projects in cooperation with production facilities.

Evaluation of the effectiveness of the development of the OP

- Monitoring the career paths of graduates.

- Assessment of student and employer satisfaction.
- Publications of scientific papers and participation of students in conferences.
- The level of international recognition of the program.

OP UNIQUENESS

1. The program combines knowledge from mechanical engineering, economics, management, information technology and sustainable development. This allows graduates to be versatile specialists, ready to solve complex engineering problems.

2. Focus on innovation

Focus on designing and implementing **innovative and efficient** mechanical engineering technologies, including digital manufacturing, robotics, additive manufacturing, and smart factory technologies.

3. Sustainable development as a priority

The EP provides students with a systematic understanding of the principles of environmental safety, resource conservation and social responsibility, which is especially relevant in the context of implementing the Sustainable Development Goals (SDGs).

4. Developing creative engineering thinking

The program is aimed at educating an engineer who is able **to think outside the box**, look for new approaches to designing and optimizing production processes.

5. Practice-oriented approach

Broad involvement of students in project activities, industrial internships and case studies based on industrialepartners forms a real professional experience in the course of training.

6. Social significance

The program is aimed at developing a personwho is able to make decisions taking into account not only technical, but also social, economic and environmental components.

7. Global and national demand

Graduates are ready to work both in the domestic marketand in the context of global industrial competition thanks to their competencies in the field of digitalization and sustainable development.