

OF STATE UNIVERSITY OF ECONOMICS AND TECHNOLOGY IN START-UPS AND PROJECTS

#StandWithUkraine



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SUET START-UP: MANAGERIAL CONCEPT PROCESSES

BASIC PROFESSIONAL COMPETENCIES (HARD SKILLS / SOFT SKILLS)

SUPER-PROFESSION AL COMPETENCIES

SOCIAL
RESPONSIBILITY AND
INFORMATION
COMMUNICATIONS



MANAGEMENT OF PERSONNEL AND BUSINESS PROCESS

CLIENT-ORIENTED
COOPERATION AND
DIVERSIFICATION
OF FINANCING
SOURCES

SCHOOL CAREER ENGINEERING

















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"UNIVERSITY-PROCESSES-PRODUCTS"

PRODUCTS

BASIC PROFESSIONAL COMPETENCIES (HARD SKILLS I SOFT SKILLS)

- Bachelor's Qualification ("Professional Junior Bachelor", the "Bachelor's educational degree")
- "Master's Qualification (the "Master's educational degree")
- Doctor of Philosophy (PhD)

SUPER-PROFESSIONAL COMPETENCIES

- International academic mobility of students and staff
- Informal education (trainings, workshops, master classes, short courses)
- Certificate programs
- Joint studies
- Internships
- University sports (strategic partner of FC "Kryvbas")
- Concept "Art Institute" (development of creative skills)

SOCIAL RESPONSIBILITY AND INFORMATION COMMUNICATION "Legal Clinic"

- Legal clinic
- Centre of psychological help and social adaptation
- Centre of veterans' development
- Third-age University
- Inclusive and partner education
- Concept project "Open University (coworking, hubs, popularization of mass sports/healthy way of life, open lectures and communal space)"
- Informational content (website / telephony / mailing / e-workflow / social media / public relations)

MANAGEMENT OF PERSONNEL AND BUSINESS PROCESS

- Diversification of income sources
- Education quality standards
- Career development
- Motivation
- Responsibility centers concept
- Grants, charitable contributions, attracting other sources of income

CLIENT-ORIENTED COOPERATION

- Formation of educational plans on the order of business structures (including the licensing of professions)
- The concept's realization of dual education or "the parallel learning", beginning with the "bachelor's", "master's" educational degrees (the correlation of the "learning process practice" 5: 1 or 3: 3)
- Open format of the current and final control of students' knowledge
- Opportunities for realization of the corporative educational programs at the University
- Packages of the individual proposals of the educational / scientific / commercial products (within the limits of the Resolution List of the Ukraine Cabinet of Ministers № 796) – the concept "University of the Entrepreneurship Type"
- Financing programs for training of professionals / the realization of SRW

SCHOOL CAREER ENGINEERING

- Cooperation with academic lyceums
- Training courses for teachers and pupils
- Annual events matrix
- STEM-education
- Participation in Ed Camp line of events



SUET START-UP: YOUR NEW UNIVERSITY

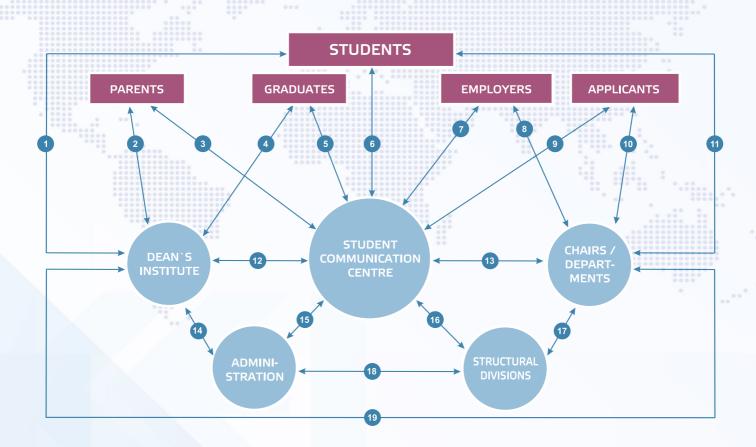
STRUCTURAL UNIT	SPECIALTIES	BACHELOR	MASTER	MASTER'S PROGRAMS	PhD
IEGO INSTITUTE OF ECONOMICS AND BUSINESS EDUCATION	MANAGEMENT	•	•	Management Management of Business Administration (MBA)	•
	MANAGEMENT OF SOCIO-CULTURAL ACTIVITIES	•		000000000000000000000000000000000000000	
	MARKETING	•	•	Marketing	
	ECONOMICS	•	•	Economics	•
	ACCOUNTING AND TAXATION	•	•	Accounting and taxation	
	FINANCE, BANKING, INSURANCE AND STOCK MARKET	•	•	Finance, banking, insurance and stock market	
	ENTREPRENEURSHIP AND TRADE	•			
	COMPUTER SCIENCES	•	0000	000000000000000000000000000000000000000	
	INTERNATIONAL RELATIONS		•	International communications	
	INTERNATIONAL COMMUNICATIONS AND JOURNALISM	•	::::	000000000000000000000000000000000000000	
	INTERNATIONAL ECONOMIC RELATIONS	•	•	International economic relations	
TECHNOLOGICAL INSTITUTE	INDUSTRIAL MACHINERY ENGINEERING	•	•	Industrial machinery engineering	•
	METALLURGY	•	•	Metallurgy	
	ELECTRICAL ENERGETICS, ELECTRICAL ENGINEERING AND ELECTROMECHANICS	•	•	Electrical energetics, electrical engineering and electromechanics	
	AUTOMATION, COMPUTER-INTEGRATED TECHNOLOGIES AND ROBOTICS	•	•	Automation, computer-integrated technologies and robotics	
	CHEMICAL TECHNOLOGY AND ENGINEERING	•	•	Chemical technology and engineering	
	MINING	•			
PACULTY OF INFORMATION TECHNOLOGY	SOFTWARE ENGINEERING	•	•	Software engineering	
LAW INSTITUTE	LAW	•	•	Law	
	PUBLIC MANAGEMENT AND ADMINISTRATION	•	•	Public management and administration	
	SECONDARY EDUCATION (HISTORY, LAW)	•			
	HISTORY AND ARCHAEOLOGY		•	History	
	PSYCHOLOGY	•	•	Psychology	

STRUCTURAL UNIT	SPECIALTY	PROFESSIONAL JUNIOR BACHELOR®
TOK TECHNOLOGICAL VOCATIONAL COLLEGE	PROFESSIONAL EDUCATION: ELECTRICAL POWER ENGINEERING, ELECTRICAL ENGINEERING AND ELECTROMECHANICS	•
	ECONOMICS	•
	ENTREPRENEURSHIP AND TRADE	•
	SOFTWARE ENGINEERING	•
	INDUSTRIAL MECHANICAL ENGINEERING	•
	METALLURGY	•
	ELECTRICAL POWER ENGINEERING, ELECTRICAL ENGINEERING AND ELECTROMECHANICS	•
	AUTOMATION AND COMPUTER-INTEGRATED TECHNOLOGIES	•
	CHEMICAL TECHNOLOGIES AND ENGINEERING	•
	HEAT POWER ENGINEERING	•
	MINING	•
OKET VOCATIONAL COLLEGE OF ECONOMICS AND TECHNOLOGY	INFORMATION, LIBRARY AND ARCHIVAL WORK	•
	ACCOUNTING AND TAXATION	•
	FINANCE, BANKING, INSURANCE AND STOCK MARKET	•
	ENTREPRENEURSHIP AND TRADE	•
	FOOD TECHNOLOGIES	•





SUET START-UP: STUDENT COMMUNICATION CENTER



- EDUCATIONAL TRAJECTORY, ACADEMIC MOBILITY
- TRAINING OF STUDENTS
- 3 STUDENT EDUCATION
- ADMINISTRATIVE SERVICES
- TRADITIONS, LIFELONG EDUCATION
- 6 ADMINISTRATIVE SERVICES
- ADMINISTRATION OF TRAINING PROCESS, ADMINISTRATIVE SERVICES
- 8 EMPLOYMENT, PRACTICE
- 9 CONNECTION WITH REAL SECTOR
- CAREER GUIDANCE, THE ENTRANCE CAMPAIGN

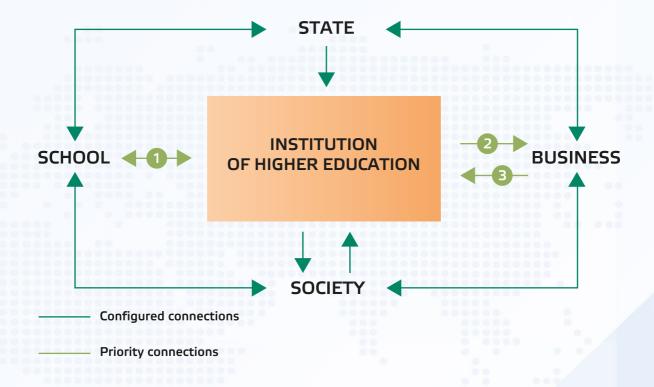
- 11 TRAINING, SCIENCE, PRACTICE
- 12 MONITORING OF TRAINING PROCESS
- 13 ADMINISTRATION OF TRAINING PROCESS
- 14 MANAGEMENT (TACTICAL)
- 15 MANAGEMENT (OPERATIONAL)
- 16 FINANCE, DOCUMENT FLOW
- 17 ENSURING OF TRAINING PROCESS
- 18 MANAGEMENT
- 19 SCIENCE, DEVELOPMENT, STRATEGY



"The Institute for a student" is the concept of communications management of the STATE UNIVERSITY OF ECONOMICS AND TECHNOLOGY



SUET START-UP: ACADEMIC CHAIN OF VALUES



ROCESS

- 3 Operating at the expense of the investment package rather than taxpayers
- 2 Formation of competences for business ("business" means employers and the whole set of consumers of University products)
- Creation of a roadmap for the implementation of Ukrainian school graduate potential

EXPERIENCE OF TEAM COOPERATION



IMPLEMENTED PROJECTS

- Experience Participation in the project of the International Bank for Reconstruction and Development TF0A3307 dated 20.09.2016 "Overcoming the consequences of the conflict, a pilot project for recovery and capacity building". Within the framework of the project, the University team implemented a subproject "Restoration of social infrastructure for internally displaced persons, ATO participants, their families, and the disabled" in the amount of USD 133,544.70. The subproject was implemented in accordance with the rules of the International Bank for Reconstruction and Development.
- Cooperation with the Intergovernmental International Organization "International Organization for Migration" from 2018 to the present.
- Cooperation with the Branch of the independent private and non-profit organization "ACTED" in Ukraine, we have been cooperating since May 2022. The total amount of assistance as of February 2024 is more than 114,000.00 USD.
- Cooperation with public organizations, humanitarian missions and charitable foundations: NGO "League of KEI Alumni" since 2014, NGO "Center for Sustainable Development and Regional Initiatives", cooperation since 2020, CO "Together with You", cooperation since 2022, CO "Proliska", cooperation since 2022, CO "Smile of Ukraine", cooperation since 2023, CO "Angels of Salvation", cooperation since January 2024.





DATA-DRIVEN CONSTRUCTION INNOVATION HUB





WHAT IS IT?

LID HUB - a cluster of the world's best center for innovation and education in the construction industry

WHERE IS IT?

The city of Kryvyi Rih is an investment entry point for the central region of Ukraine

WHY IS IT NEEDED?

Driver of integration into the European space

































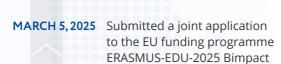












SEPTEMBER 19, 2024 European Design Upgrade 3.0

MAY 31, 2024 Joint webinar "Building a smart future together"

SEPTEMBER 17, 2023 SUET became the first TITAN orgnisation Member

SEPTEMBER 12, 2023 Presentation of the LID HUB project with Metropolia University of Applied Sciences

> MAY 12, 2023 Memorandum signed with Metropolia University of Applied Sciences

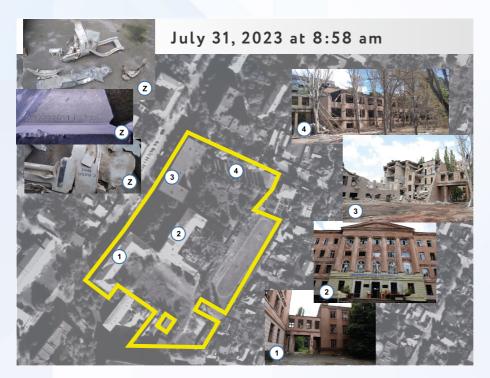


IMPLEMENTATION OF THE EDUCATIONAL AND RESEARCH COMPONENT OF THE LED-HUB THROUGH PARTICIPATION IN ERASMUS+ PROGRAMS, ETC.



- 1 Research, development of prototypes in the fields of smart construction, mining and metallurgical industry in laboratories by research groups of partner universities and representatives of IT, Construction Business, mechatronics
- 2 Joint operation by a network of partners of Art spaces and educational, sports and rehabilitation locations for training, development, cross-cultural exchange
- Joint operation by a network of partners (universities, community, business partners) and outsourcers of public and business spaces
- 4 Participation in international research projects
 (Erasmus+) BIM Harmonization, Modernization, and Professional Accreditation of Competencies and Training (Bimpact) in the field of BIM modeling. The result of this project is a modern, relevant and interactive environment for training specialists with relevant competencies in the field of BIM modeling

HIT BY A RUSSIAN BALLISTIC MISSILE OF THE ISKANDER COMPLEX



47°54'42"N 33°20'57"E Kryvyi Rih, Poshtovy avenue, 64-68

Legend:

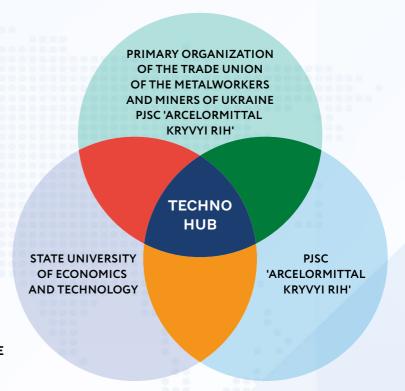
- The territory of the State
 University of Economics and
 Technology and Campus, where 4
 educational buildings are located
- 1 Educational building No.1
- 2 Educational building No.7
- 3 Laboratory building
- 4 Workshop building
- Z Debris from a Russian missile found at the impact site on campus



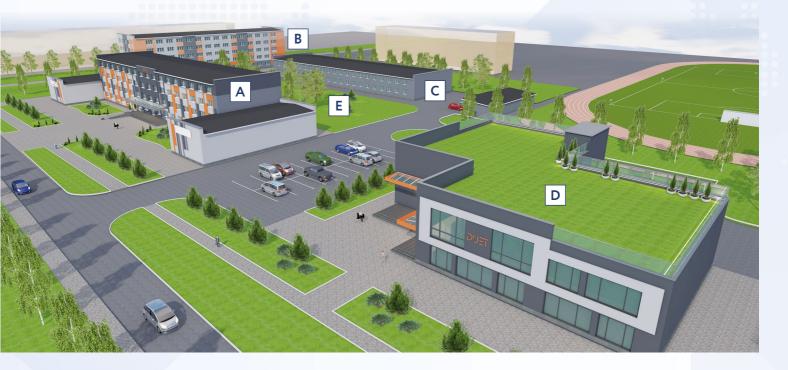
CONCEPT OF PUBLIC-PRIVATE PARTNERSHIP



- PROFESSIONAL DEVELOPMENT
- SOCIAL ADAPTATION OF VETERANS AND IDPS
- SOCIAL STANDARDS
 - LABOR SAFETY
 - RESEARCH
 - EDUCATION
 - TECHNOLOGIES
 - IMPROVING LABOR EFFICIENCY
 - GROWTH OF SAFETY CULTURE
 - LOYALTY TO THE CORPORATE CULTURE



TECHNO HUB - RENOVATION OF TECHNOLOGICAL INSTITUTE OF SUET



CAMPUS A AND C OF THE TECHNO HUB PROJECT CAMPUS A functionality



- CLASSROOMS
- LABORATORY OF STANDARDIZATION, TECHNICAL MECHANICS
- LABORATORY FOR ASSEMBLY, REPAIR AND INSTALLATION OF METALLURGICAL EQUIPMENT
- LABORATORY OF LIFTING AND TRANSPORTING MACHINES AND HYDRAULICS
- LABORATORY FOR METAL PROCESSING
- LABORATORY OF BLAST FURNACE FEEDING AND LOADING SYSTEMS, BLAST FURNACE SMELTING TECHNOLOGY
- LABORATORY OF STEELMAKING PROCESSES
- LABORATORY OF MATERIALS SCIENCE
- LABORATORY OF CHEMICAL TECHNOLOGY AND ENGINEERING
- LABORATORY OF ELECTRICAL ENGINEERING AND ELECTRONICS
- LABORATORY OF MECHATRONICS
- LABORATORY OF PHYSICS

CAMPUS B, D AND DUAL-PURPOSE BUILDING (SHELTER) E OF THE TECHNO HUB PROJECT

CAMPUS C functionality



- LABORATORY FOR THE PREPARATION AND PROCESSING OF CHARGE MATERIALS OF THE MINING AND METALLURGICAL COMPLEX
- MOLDING AND CASTING LABORATORY
- LABORATORY OF SINTERING PROCESSES
- METAL PROCESSING SECTION BY CUTTING
- ASSEMBLY AREA
- WELDING AREA
- HEAT TREATMENT SECTION
- DESIGN BUREAU

CAMPUS D functionality



- ECOSPACE (COFFEE SHOP, LOUNGE AREA)
- LIBRARY
- INNOVATESPACE (CONFERENCE HALL)

CAMPUS B functionality



CAMPUS FOR TEMPORARY ACCOMMODATION OF STUDENTS AND INVITED RESEARCHERS AND TEACHERS, DELEGATIONS

DUAL-PURPOSE functionality (shelter) E



- SHELTER
- UNDERGROUND PARKING LOT



SUET START-UP: UNITY OF THE COMPANY, TRADE UNION AND UNIVERSITY – THE NEW FACTORY PROJECT

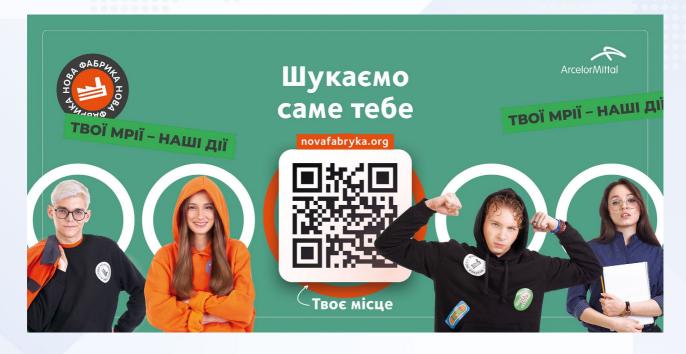


"The New Factory is a modern industrial facility of the future with a new production culture and prospects for young people, which is designed to solve not only technological problems but also the environmental component.

PJSC ArcelorMittal Kryvyi Rih, in partnership with the State University of Economics and Technology, has been implementing an educational project for three years (since 2021), within the framework of which graduates of lyceums, colleges and university students have mastered a unique educational program at the university, funded by the company, which involves the best domestic and foreign research and teaching staff. The project has trained and is currently training specialists in shortage specialties in the real sector of the economy, namely metallurgy, industrial engineering, power engineering, electrical engineering and electromechanics, as well as automation and computer-integrated technologies.

The dual education project is an example of the development of high-tech engineering education. It is the graduates of the SUET who will form a youthful, ambitious, extraordinary and future-oriented team of specialists for the new pelletizing plant. In addition, all the students and teachers involved in the project are united in being members of the largest Trade Union of Metallurgists and Miners of Ukraine, ArcelorMittal Kryvyi Rih.











ЗЕЛЕНІ ТЕХНОЛОГІЇ

PROJECT "STEM & SCHOOL DAY"

is aimed at popularizing natural sciences by creating an exciting educational environment using real examples from production and everyday life to demonstrate the application of physical and chemical laws, enabling students to use theoretical knowledge through laboratory experiments, and drawing attention to science and technology

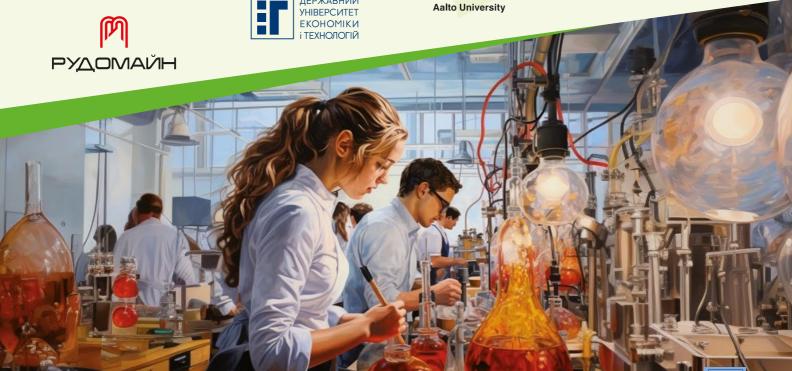
PROJECT PARTICIPANTS

- RUDOMAIN
- STATE UNIVERSITY OF ECONOMICS AND TECHNOLOGY
- AALTO UNIVERSITY FINLAND
- EXECUTIVE COMITEE OF THE DOVHYNTSIV DISTRICT COUNCIL
- KRYVYI RIH LYCEUM №24
- KRYVYI RIH LYCEUM №81
- KRYVYI RIH LYCEUM №129



THE STATE UNIVERSITY OF ECONOMICS AND TECHNOLOGY





ДЕРЖАВНИЙ

SUET START-UP: SUET ACADEMIC BENCHMARKING IS THE FOUNDER OF THE INTERNATIONAL SCIENTIFIC CONGRESS «SOCIETY OF AMBIENT INTELLIGENCE»



ABOUT CONGRESS:

OT OUR MISSION

The organization of many-sided platform for the cooperation of the academic association and business with the purpose of generation of new knowledge and exchange of information and advanced experience, dealing with modern tendencies, key factors and peculiarities of development and technologies of the information society on conditions of the digital economy's globalization.

02. WHAT WE DO?

The work of the Congress is planned in the format of panel discussions, according to the directions.

The arrangement of discussion panels according to the directions accepts inviting speakers from academic and business spheres.

The realization of the communication format "business — universities – schools".

03 WHO SHOULD ATTEND?

Local authorities
Business community
Sustainability professionals
University community
Studentship
Third-sector organisations

CONGRESS CONCEPT:

- Simultaneous holding of the Congress several panels in different countries on November, 2023, in the frames of panel discussions, according to the directions;
- Realization of the discussion panels, according to the directions, accepts the invitation of speakers from the academic and business environment;
- Holding the international competition of student's project (case solution contest) in the directions of the Congress. The competition held in two stages: the 1-st stage (national) is the competition of the research projects / business ideas; the 2-nd stage (international) is the competition for the solution of cases, being presented by the partner-companies of the Congress (the Projects Competition)
- Organization of the platform for the exchange of experience between legal clinics of Ukraine and Poland, the study of the best foreign and national practices of the legal clinics, related to the various directions of legal education;
- Reaization of the communications format "Business-Universities-Schools".









SUET START-UP: SAP University Alliances







The goal of SAP University Alliances is to develop cooperation between educational institutions and business to promote innovation and develop talents for the digital world. This is achieved by incorporating SAP software solutions into the educational process. Students and faculty are introduced to SAP software and technologies used in the field of digital business transformation, such as solutions for the Internet of Things, analytics, machine learning, and more.

SUET START-UP: CENTRE FOR PSYCHOLOGICAL ASSISTANCE AND SOCIAL ADAPTATION

Coordination Centre for assistance to Members of the Anti-Terrorist Operation in Eastern Ukraine and members of their families

2014

Support for the reintegration of veterans in Eastern Ukraine conflict and their families

Psychological assistance

Patriotic education

Project activities

Joint project with the United Nations
Migration Agency (IOM)

Training and emoloyment of participants in the anti-terrorist operation in Eastern Ukraine/
Joint Forces Operation and IDPs

Legal advice

Museum of the Revolution of Dignity and Armed
Conflict in Eastern Ukraine

Project of the Ministry of Reintegration of the Temporarily Occupied Territories of Ukraine supported by the World Bank NºTF0A3307

"Development of the Center for Psychological Assistance and Social Adaptation of IDPs and ATO Veterans"

2017-2020

State University of Economics and Technology - Socially Responsible Institution of Higher Education

Implementation of current projects and measures aimed at overcoming the consequences of military aggression by the Russian Federation



OCBIT∩ 4. HUB ™



e-platform OCBITA 4.0 HUB®

What kind of product is it? The educational marketplace (aggregator) is a service-oriented platform of freely accessible educational programs

What is the purpose? To create an educational map of professional

development in your smartphone

What are To connect the recipient of educational services the possibilities? with the educational institution in one click

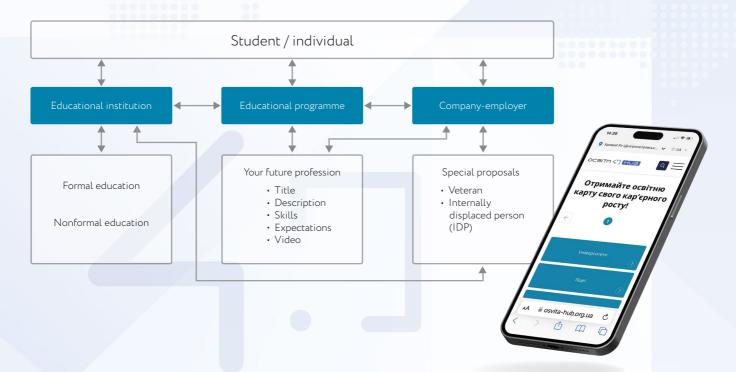
What are Implement a digital tool for the competitive advantages of educational institutions and implement the "Special Offers" tool (Veteran, Internally Displaced Person (IDP))

What are the needs? To contribute to the digital harmonization of the Ukrainian educational space



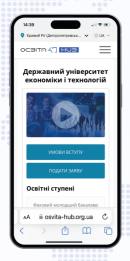
The possibility of forming an educational trajectory through the choice of an educational institution or an educational degree

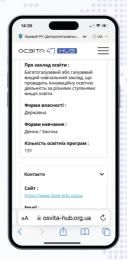
Digital harmonization of the Ukrainian educational space through the implementation of the concept "person - education - profession"





Educational institution map





e-platform

An ecosystem of an educational institution about available educational programs has been created on an e-platform according to structured information

The following tools have been implemented:

- The possibility of separating structural subdivisions
- Structuring of educational programs by educational degrees
- Rating of educational programs
- Institutional information
- Feedback and geolocation
- example of an educational institution map



Educational program map

Provides structuring of information according to the following criteria:

- Your future profession
- Disciplines or subjects for each semester
- Additional educational options
- Education document

The possibility of contacting a personal consultant, downloading the original form in .html format, geolocation and switching to the educational institution map have been implemented

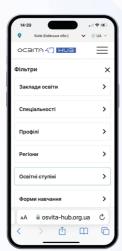
an example of an educational program map





Service possibilities for working with educational programs





The following tools have been implemented:

- Ecosystem of the educational institution
- Principle of "quiz" when processing user requests
- Viewing and comparing several educational programs based on the rating of user requests
- Educational program filtering system
- On-demand search system
- Search leaders
- The principle of regional selection of requests
- Geolocation of educational institutions
- Telegram Bot e-platform support center -@osvita 40 hub bot
- "Analytics" service
- Multilingualism (Ukrainian/English)



LABORATORY FOUNDATION

Laboratory of preparation and processing of charge materials of the mining and metallurgical complex

Carrying out scientific and research work on the optimization of the design, dynamics and reliability of mechanical equipment for the preparation and processing of charge materials of the mining and metallurgical complex

Metal forming laboratory

Carrying out research of metal forming processes

Agglomeration and steel-making processes laboratory

Modeling of sintering processes of charge materials. Investigations of thermal processes in steel-making by the method of physical modeling using low-temperature solutions

Charging circuit blast-furnace and technology blast-furnace smelting laboratory

Study of the processes related to the distribution of charge by charging it into melting units

Materials Science laboratory

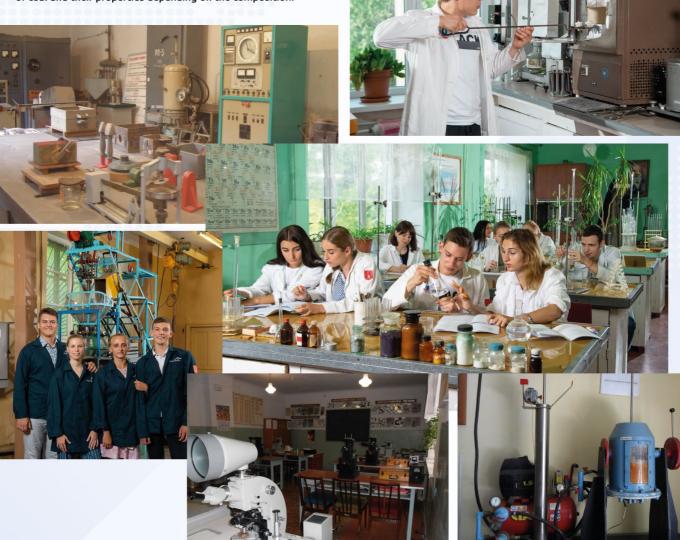
Study and analysis of the macro- and microstructure of metals and alloys

Molding and foundry laboratory

Research and modeling of foundry production processes

Chemical technologies and engineering laboratory

Conducting research related to determining the characteristics of coal and their properties depending on the composition.



DIRECTLY SCIENTIFIC RESULTS

Development of vibration machines, technological processes and equipment for the preparation of raw materials used in various processes of the mining and metallurgical complex

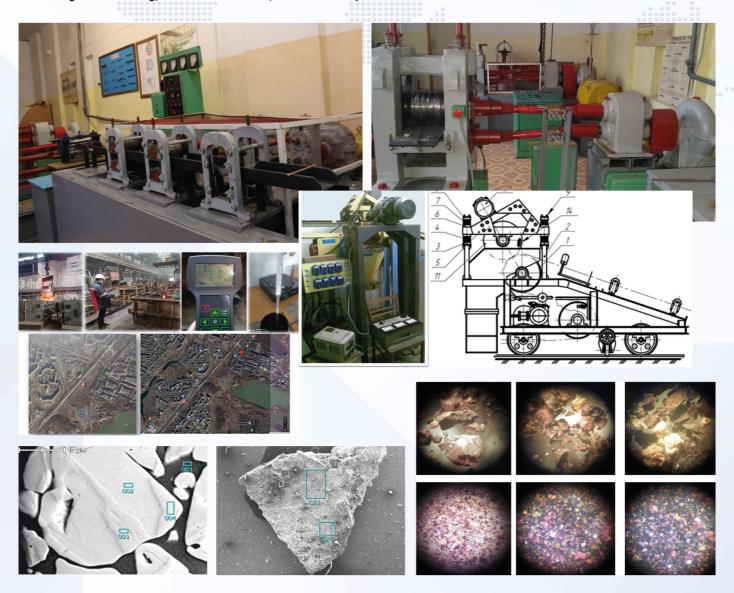
Recycling of industrial and household waste

Theoretical research on the technology of combating the freezing of raw materials

Theoretical research on the technology of iron and steel smelting, electrometallurgy of steel and ferroalloys, electrothermy of inorganic materials, foundry production, continuous casting of steel, metal forming

Modeling and system engineering of self-operated control for technological complexes and processes, software and hardware components of industrial automation equipment, development of digital control systems for electric drives for the mining and metallurgical industry

Ecological monitoring, industrial sanitation, electrical safety



GENERAL PARNNERS

















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