



Erasmus+ KA2 Capacity Building project

Modernization of Mechatronics and Robotics for Bachelor
degree in Uzbekistan through Innovative Ideas and Digital
Technology (MechaUz)



FACTS



2017 Erasmus+

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EACEA
Education, Audiovisual and Culture Executive Agency

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Capacity Building in the Field of Higher Education 2018

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RELATED CALL FOR PROPOSALS	DEADLINE	CALL REFERENCE
Capacity Building in the Field of Higher Education 2018	08/02/2018 - 12:00 (CET/CEST, Brussels time)	EAC/A05/2017

Erasmus+

Selection results: Capacity Building in the field of Higher Education 2019

- 5 new CBHE projects with 17 partners from Uzbekistan
- 2 National Projects
- The first-ever Grantholder (TUIT)

- 14 Higher Education Institutions
- 2 Non-Academic Partners
- Ministry of HSSE



GRANDHOLDER

ALEXANDER TECHNOLOGICAL EDUCATIONAL INSTITUTE OF THESSALONIKI (ATEITH)



INTERNATIONAL HELLENIC UNIVERSITY



INTERNATIONAL
HELLENIC
UNIVERSITY



GRANT AGREEMENT



EUROPEAN COMMISSION

Education, Audiovisual and Culture Executive Agency

Erasmus+ Capacity Building in the field of Higher Education

Brussels, **18 DEC. 2019**
Appfin *190015952*
File code: *2019-2121*

Panagiotis Tzionas
DIETHNES PANEPISTIMIO ELLADOS
14TH KM THESSALONIKIS MOUDANIA,
PO BOX
GR-57001
THERMI THESSALONIKI

Subject: Project number: 609564-EPP-1-2019-1-EL-EPPKA2-CBHE-JP (2019 - 2121 / 001 - 001)

Dear Madam/Sir,

Thank you for returning the two signed copies of the above mentioned Grant Agreement to us. Please find enclosed your copy duly signed by the Agency.

Please note that any further correspondence concerning your project should always quote your project number (mentioned in subject) and should be sent to the following address:

Education, Audiovisual and Culture Executive Agency (EACEA)
Mr Ralf RAHDERS
Head of Unit A4
Office: J-59 04/ 033
1, Avenue du Bourget
1049 Brussels
Belgium



MEETING IN TASHKENT



On 11.09.2019, the first meeting with Uzbek partners has been held at Ministry of Education of Uzbekistan. During the meeting national coordinator of MechaUz project informed about the project aims and tasks.



INTRODUCTION

Title of the project	MODERNIZATION OF MECHATRONICS AND ROBOTICS FOR BACHELOR DEGREE IN UZBEKISTAN THROUGH INNOVATIVE IDEAS AND DIGITAL TECHNOLOGY
Acronym	MechaUz
Duration	15/11/2019 – 14/11/2022 36 months
Coordinator	International Hellenic University
Communication Language	ENGLISH/UZBEK
Action specific activities	CURRICULUM DEVELOPMENT
Type of project	NATIONAL PROJECT
Submission number	609564-EPP-1-2019-1-EL-EPPKA2-CBHE-JP
Budget	798 695 euros
Grand agreement signed date	18.12.2019, BRUSSELS
Appfin	19DO25952
File code	2019-2121 / 001-001
National Coordinator	Andijan machine-building institute



ACTIVITIES

WP1. Preparation

Activities	Leader	Current Situation
1.1. Analysis and comparison of teaching systems, approval of the general plan and allocation of responsibilities; M2-M5	IHU, TTPU	All partners analyzed and compared teaching systems and methods in HEIs of EU and Uzbekistan. Deadline: 10 th of July
1.2. Studying experience of the EU partners, compiling a list of good practice examples; M5	IHU	All EU partners are preparing the list of good practice examples. Deadline: 10 th of July

WP2. Development of new BS program.

2.1. Developing a new scheme of cooperation; M7	VGTU, TSTU	Not applicable yet.
2.2. Development of new Bachelor's program; M7-M16	VGTU, TSTU	Not applicable yet.
2.3. Testing and adapting; M19, M24	VGTU, TSTU	Not applicable yet.
2.4. Presenting, discussing and publishing BS program; M24	VGTU, TSTU	Not applicable yet.



ACTIVITIES

WP3. Development.

Activities	Leader	Current Situation
3.1. Developing courses for trainers; M13-M14	LiePU	Not applicable yet.
3.2. Attend advanced Mechatronics trainings; M16	LiePU	Not applicable yet.
3.3. Organizing courses for lecturers; M22-M24	LiePU	Not applicable yet.

WP4. Establishment.

4.1. Establishment of I-LABs, Training Centre and Society; M19-M22, M31-M35	ViA, AndMI	<ol style="list-style-type: none"> 1. Establishment of I-Labs: commercial proposal received from Latvian company OLNIO SIA, Canadian Company QUANSER, German company LUCAS NULLA, Chinese company UFACTORY, KUKA 2. Establishment of Center and Society: IPVC are developing the guideline and implementing plan.
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ACTIVITIES

WP5. Quality control.		
Activities	Leader	Current Situation
5.1. Monitoring and quality control; M1-M36	SEERC	<ul style="list-style-type: none"> - Developed the Quality Plan - Control Regularly - Sharing the experience and skills through the online meeting and email.
WP6. Dissemination		
6.1. Approve and accredit the new BS's program; M19-M24	MHSSERUZ	Not applicable yet.
6.2. Creating a project website; M1-M36	AndMI	Created demo version of the web-site: www.mecha.uz
6.3. Publishing the achieved results	All	Published at all social media, newspaper and web-sites regularly
6.4. Workshops, Seminars and Meetings; M1-M36	SEERC	<ul style="list-style-type: none"> - kick-off meeting was organized; - Two international online-meeting; - Five particular on-line meeting;



ACTIVITIES

WP5. Quality control.		
Activities	Leader	Current Situation
7.1 Management by grand Holder and national coordinator	IHU	All guidelines was developed
7.2 Project Reports	IHU, AndMI	Not applicable yet.
7.3 Final Report	IHU, AndMI	Not applicable yet.

BRING YOUR IDEAS AND INNOVATION
TO EDUCATION

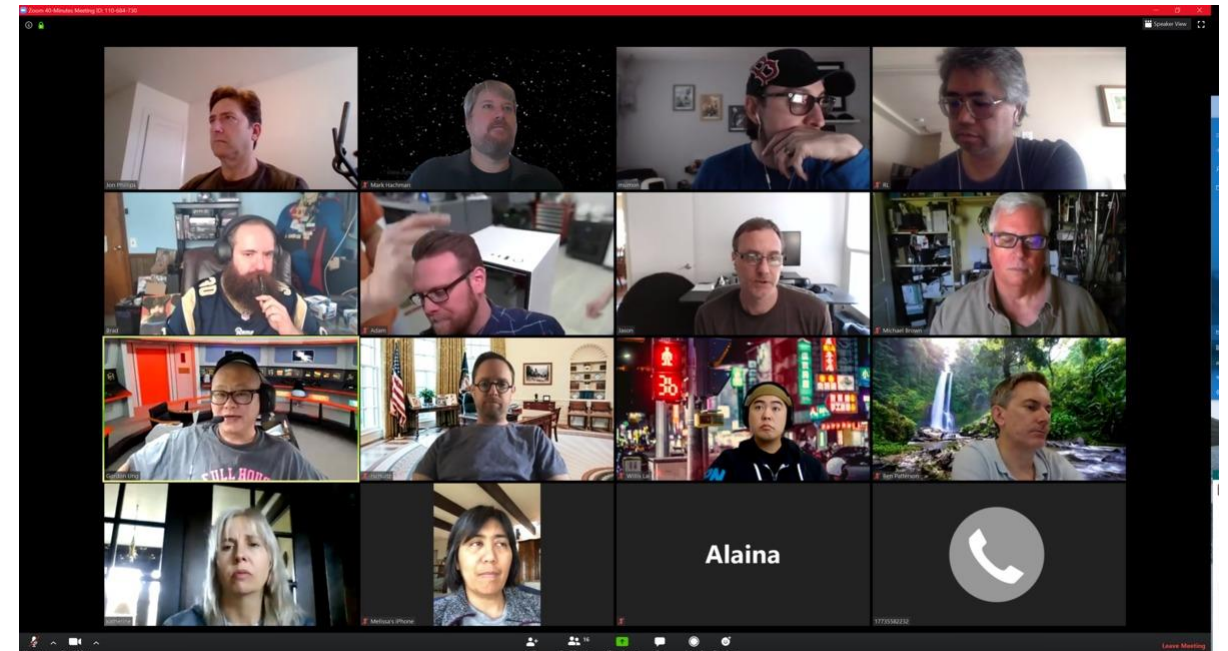


MEETINGS



Kick-off meeting
- Minutes of meeting

- First Zoom meeting
- Minutes of meeting
- Second Zoom meeting
- Minutes of meeting



Every two month Online meeting organizes by the SEERC



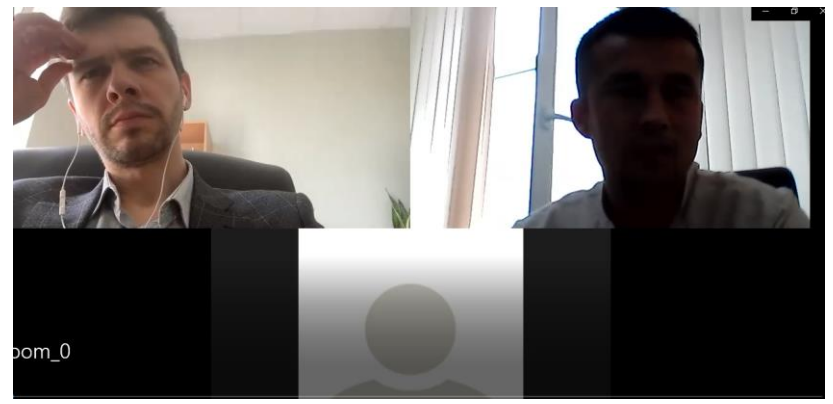
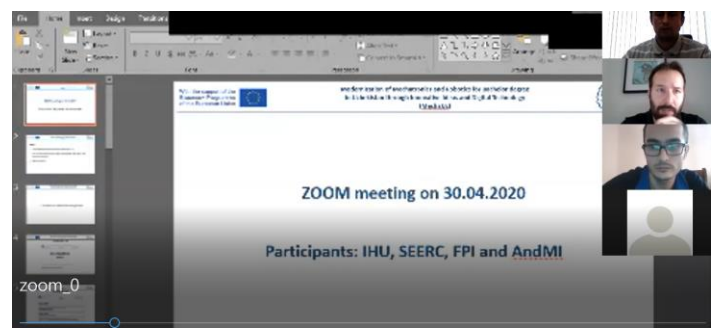
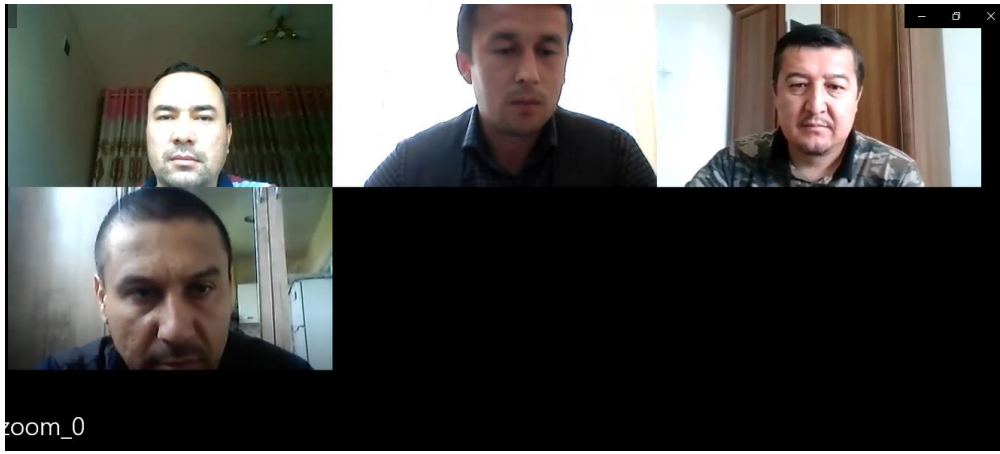
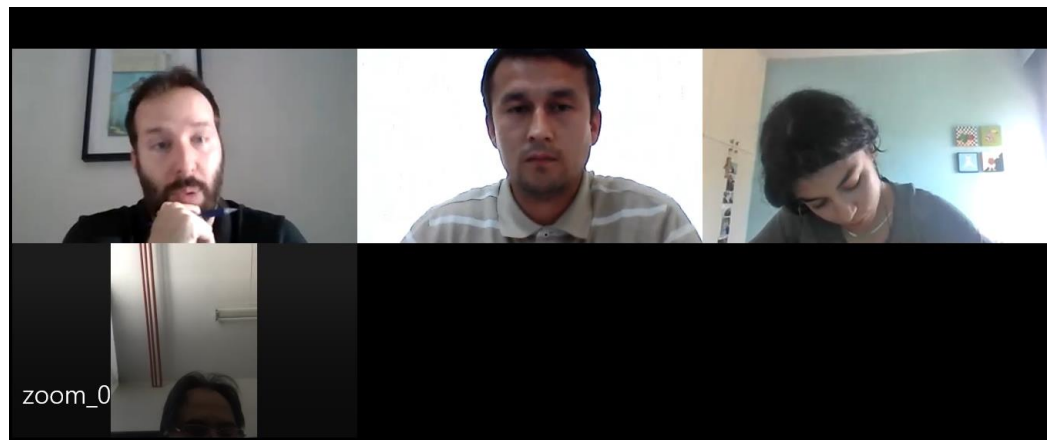
KICK-OF MEETING

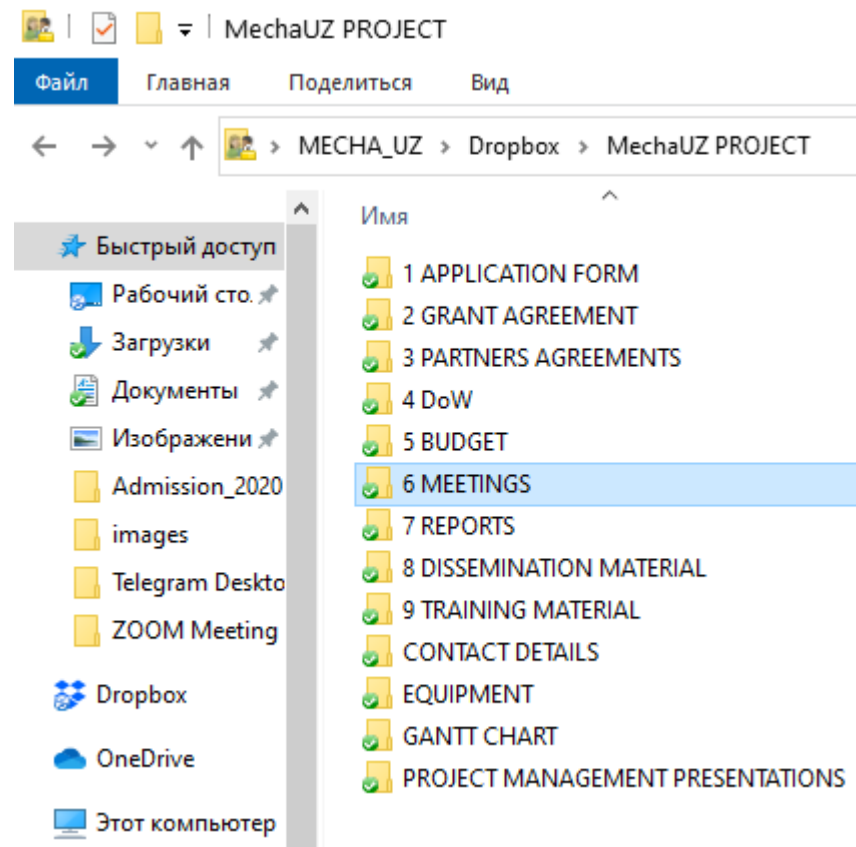


The kick-off meeting of the new CBHE project "MechaUz: Modernization of Mechatronics and Robotics for Bachelor degree in Uzbekistan through Innovative Ideas and Digital Technology" took place on February 11-13 in Greece.



SPECIAL MEETINGS





Sharing the MechaUz results and folders



PARTNERSHIP AGREEMENT



**MechaUz: Modernization of Mechatronics and Robotics for Bachelor degree
in Uzbekistan through Innovative Ideas and Digital Technology**

Erasmus+ Programme

Capacity-Building projects in the field of Higher Education

(E+CBHE)

Partnership Agreement

The present Partnership Agreement, hereinafter referred to as “the Agreement”, is made and entered into by and between,

The DIETHNES PANEPISTIMIO ELLADOS

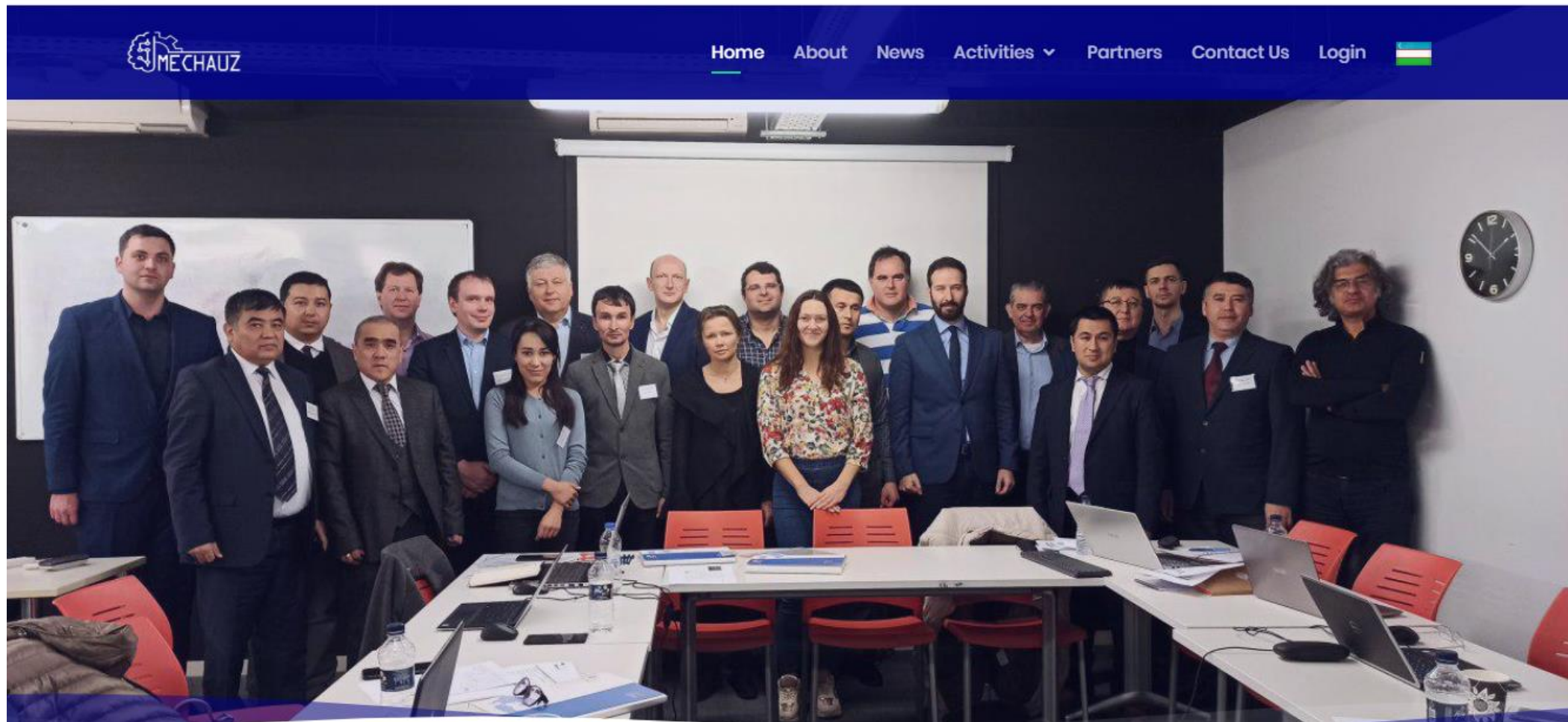
14th km Thessaloniki – N. Moudania, 57001 Themi, Thessaloniki, Greece

hereinafter referred to as the “coordinator”, represented for the purposes of signature of the Agreement by Professor Stamatis Aggelopoulos, Vice President, the legal representative as defined in the Grant Agreement n° 609564-EPP-1-2019-1-EL-EPPKA2-CBHE-JP (2019-2121 / 001 – 001),

and the following beneficiary ANDIJAN MACHINE-BUILDING INSTITUTE – established in Andijan, Uzbekistan



PROJECT WEB SITE



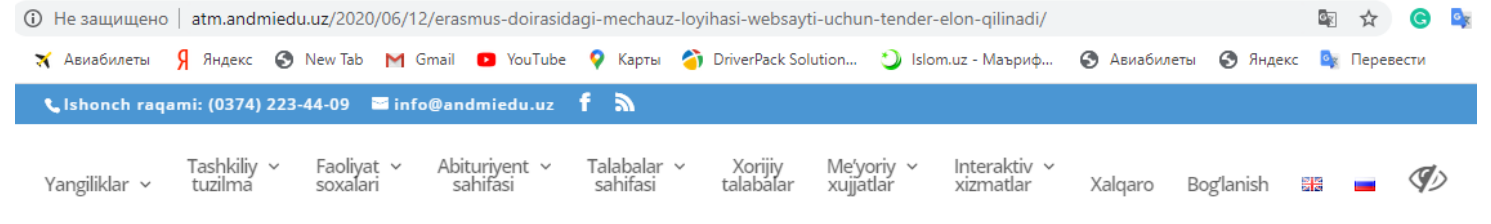
The web-site will be move to main domain soon: www.mecha.uz



CREATING THE PROJECT WEB SITE

Firma Nomi	Xizmati	Ishni bajarish muddati	Taklif qilingan summa
KONSALTING A'LO XIZMAT AND	IT	3 oy 15 kun	26 500 000
MOBILE DILER SERVIS	IT	4 oy	30 000 000
INJENER-TEXNIK KONSALTING SERVIS	IT	3 oy	23 900 000

<https://bm-real.uz/mecha/client/index.php>



The web-site will be move to main domain soon: www.mecha.uz



POSTER

With the support of the Erasmus+ Programme of the European Union



MODERNIZATION OF MECHATRONICS AND ROBOTICS FOR BACHELOR DEGREE IN UZBEKISTAN THROUGH INNOVATIVE IDEAS AND DIGITAL TECHNOLOGY (MECHAUZ)

Coordinator: International Hellenic University
National Coordinator: Andijan machine-building institute

Reasons Development of continuous education program in the field of Mechatronics through educational standard modernization based on national priorities and supporting the knowledge cycle: training-teaching-innovation in Higher Education.

Main Project Outcomes:

- A new scheme of cooperation for university-industry links based on EU skills in Mechatronics sphere are developed and implemented;
- Standards and curricula, courses, teaching methods, materials and tools (soft skills) are developed in the field of Mechatronics;
- New courses for teachers, staff in the field of Mechatronics and engineers of the enterprises are developed and implemented.
- Teachers from HEIs in Uzbekistan are trained with teaching methodologies at EU partner universities;
- A new generation of handbooks/manuals for direction of Mechatronics are developed and published;
- Innovation laboratories in Uzbekistan are equipped with specialized equipment using the best practices of EU;
- Training Centre is established for teaching teachers of special subjects and engineers to use the new laboratory equipment in Uzbekistan;
- The Mechatronics Society of Uzbekistan is established using the best practices of EU;
- Curriculum, materials and methods are tested, adapted and accreted.
- The recommendations for the transfer a new model of education system to other sectors of the Uzbek economy are developed.

Partners: 13 partners from GREECE, LATVIA, LITHUANIA, PORTUGAL, UZBEKISTAN

Period: 15/11/2019 – 14/11/2022



609564-EPP-1-2019-1-EL-EPPKA2-CBHE-JP
 With the support of the Erasmus+ programme of the European Union





PAPERS



ЎЗБЕКИСТОН RESPUBLIKASI
OLINII VA ЎRTA MAHSUS TA'LIM VAZIRLIGI

АНДИЖОН МАШИНАСОЗЛИК ИНСТИТУТИ



«ILM-FAN, TA'LIM VA ISHLAB CHIKARISHNING INNOVATSION RIVOJLANTIRISHDAGI ZAMONAVII MUAMMOLAR» MAVZUSIDA XALQARO ILMIIY-AMALIIY KONFERENCIYA
МЕЖДУНАРОДНАЯ НАУЧНО-ПРАКТИЧЕСКАЯ КОНФЕРЕНЦИЯ ПО ТЕМЕ: "СОВРЕМЕННЫЕ ПРОБЛЕМЫ ИННОВАЦИОННОГО РАЗВИТИЯ НАУКИ, ОБРАЗОВАНИЯ И ПРОИЗВОДСТВА".
INTERNATIONAL SCIENTIFIC-PRACTICAL CONFERENCE ON THE TOPIC OF "MODERN ISSUES OF MODERN ISSUES OF INNOVATIVE DEVELOPMENT OF SCIENCE, EDUCATION AND PRODUCTION".

АНДИЖОН 2020

ПЛЕНАР ЙИГИЛИШИ

- Турдалиев Умир Мухтаралиевич**, техника фанлари доктори, профессор, Андижон машинасозлик институти ректори
КПРИШ СЎЗ
- Саломов Ўктам Рахимович**, техника фанлари доктори, профессор, Тошкент шаҳридаги Турин политехника университети ректори
ТАБРИК СЎЗИ
- Александров Анатолий Александрович**, доктор техникских наук, профессор, Президент Ассоциации технических университетов, ректор Московского Государственного Технического Университета им. Н.Э. Баумана
ПРИВЕТСТВЕННОЕ СЛОВО
- Shen Zhiyi**, professor, Vice President of North China Technological University
WELCOME SPEECH
- Ганчеренок Игорь Павлович**, профессор, Белорусский национальный технический университет.
Тема: Университетский технопарк как вузовская среда, где наука превращается в бизнес
- Потехин Вячеслав Витальевич**, кандидат технических наук, доцент, Санкт-Петербургский политехнический университет Петра Великого.
Тема: Построение MES систем распределенными объектами
- Карпенко Андрей Владимирович**, доктор экономических наук, профессор, Национальный университет «Запорожская политехника».
Тема: Культурно-ментальные особенности формирования человеческого капитала в Украине
- Anastasio Ntazias**, professor, The south East European Research Centre, SEERC, Greece.
Subject: Modernization of mechatronics and robotics for bachelor degree in Uzbekistan through innovative ideas and digital technology
- Angel Smirnarov**, professor, University of Ruse, Bulgaria
Subject: Adaptation of digital education in Uzbekistan.
- Мантрова Мария Сергеевна**, кандидат педагогических наук, доцент, Орский гуманитарно-технологический институт (филиал ОГУ), Россия.
Тема: Содержание работы психолога при реализации адаптированной основной образовательной программы



INTERVIEW

