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MODERNIZATION OF MECHATRONICS AND ROBOTICS FOR BACHELOR DEGREE IN UZBEKISTAN
THROUGH INNOVATIVE IDEAS AND DIGITAL TECHNOLOGY
609564-EPP-1-2019-1-EL-EPPKA2-CBHE-JP



ESTABLISHMENT OF I-LABS, TRAINING CENTRE AND SOCIETY

Javlonbek Rakhmatillaev

Tashkent, Uzbekistan, 15-19 May 2023



This project has been funded with support from the European Commission under the Erasmus+ Programme. The content of this presentation reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



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ΠΑΝΕΠΙΣΤΗΜΙΟ
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Andijan machine-building
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TURIN POLYTECHNIC
UNIVERSITY IN
TASHKENT



Farg'ona
Politehnika
Instituti



Tashkent University of
Information Technologies
named after Muhammad
al-Khwarizmi



Karshi Engineering
Economics Institute



Tashkent State
Technical University



Ministry of Higher and
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WORK PACKAGE 4: ESTABLISHMENT OF I-LABS, TRAINING CENTRE AND SOCIETY

4.1. Innovation laboratories (I-LAB), Training Centre and Mechatronics Society of Uzbekistan

Leader:

ViA/AndMI

Expected
Deliverable/Results/Outcomes:

Report/Service/Laboratory/Center/Society

SPECIAL OFFER

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Javlonbek Rakhmatillaev

Andijan machine-building institute

+998 94 438 08 80

javlonbiy0286@gmail.com

Official opening of Central Laboratory, center, Society and
Final Conference in Mechatronics will be held in Andijan,
Uzbekistan, October 2023



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WORK PACKAGE 4: ESTABLISHMENT OF I-LABS, TRAINING CENTRE AND SOCIETY

What documents need to be submitted?

As equipment has to be purchased by the Partner Country Higher Education Institutions from a third party, the documentation of said purchases will be determined according to their price, as directed by the rules of Procurement for

Goods and Services (see Chapter 10). The documents that need to be submitted are:

- Full procurement procedure documents, including (indicatively): the procurement announcement, offers submitted, evaluation of the offers, decision to award, contract with the supplier.
- Invoices which must contain the following at data:
 - a. Invoice number
 - b. Name of the company
 - c. National Identification Number
 - d. Company address
 - e. Invoicing Date
 - f. Detailed concept
 - g. Unit/Prize
 - h. Total Amount to be paid
- Proof of payment (bank statements)
- Proof of registration in the beneficiary's inventory

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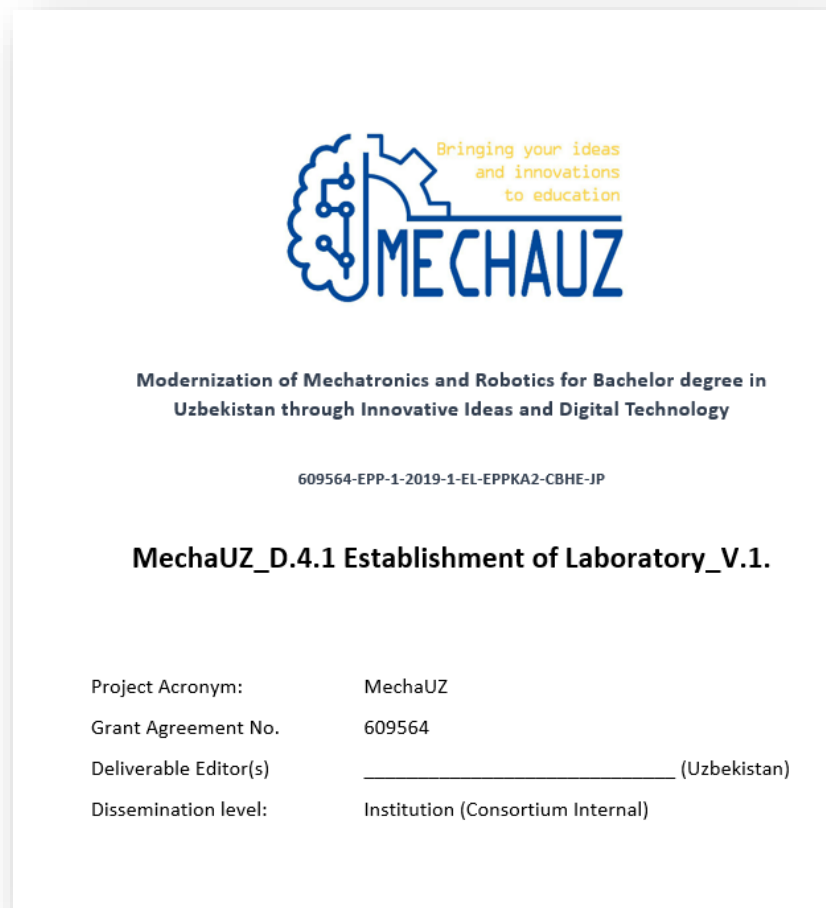
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WORK PACKAGE 4: ESTABLISHMENT OF I-LABS, TRAINING CENTRE AND SOCIETY



- Revision History
- Executive Summary
- Overview
- Objectives and definition of Establishment
- Workplan for the Establishment
- Equipment list for i-Labs
- i-Labs
- Opening ceremony (with pictures)
- Orders related to i-Labs
- Please, explain the courses which organizing in i-Labs and projects
- Please, explain the handbooks related to i-Labs
- Please indicate the total number of target groups directly affected by the project i-labs
- Please insert pictures of the purchased equipment/ laboratories (few key examples)

<https://mechauz.uz/storage/files/WWGb5m2sH5WtuFABT91zUukGlc4hyLNRyHVM9JyK.docx>



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WORK PACKAGE 4: TRAINING CENTRE

Aims: Training Centre is established for teaching teachers of special subjects and engineers to use the new laboratory equipment in Uzbekistan.

Target group: This facility will provide teachers, researchers and specialists and promote Mechatronics as an emerging engineering science.

Courses: The courses is categorized into two: online and offline.

Topics for Training Courses

- **Introduction to Mechatronics** : What is Mechatronics & its importance in the automation industry, along with Advances of Electrical. Electronic, Mechanical & Control Systems.
- **Sensors/Vision System:** Introduction to various types of sensors (Force. Pressure. Flow. Proximity, Laser) training on selection of sensors depending on application. Application of vision system in Automation with hands on experience on vision system & sensors
- **Actuators:** Introduction to various Actuators.
- **Motors:** Introduction to various Electric Motors based on Power supply type (AC/DC) & Driving type (Servo, Stepper, Induction)
- **Robotics**
- **Industrial applications**
- **Arduino**

Official web site of the training center: www.center.mecha.uz



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WORK PACKAGE 4: TRAINING CENTRE

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WORK PACKAGE 4: SOCIETY

The Mechatronics Society of Uzbekistan is established using the best practices of EU. The primary objective of the Mechatronics Society of Uzbekistan will be promoting research, development and engineering science in the field of Mechatronics in Uzbekistan and disseminate the results of project. Designing the structure of the mechatronics society. Developing the rules and regulations for administration and membership.

The main objective of the Mechatronic Society is to create a network of communication between the main actors in the mechatronic area: the Higher Education Institutions, the mechatronic service suppliers, the mechatronics equipment suppliers, the companies that need mechatronic services and/or equipment and the government (especially in the case of financial support or regulation services). The website needs to have a public area and a member's area and perform as a cloud-based platform. Much discussion is needed on this subject, mainly for the clarification on the minimum objectives to be achieved as part of the MechaUz project.

Official web-site of the society: www.society.mechauz.uz



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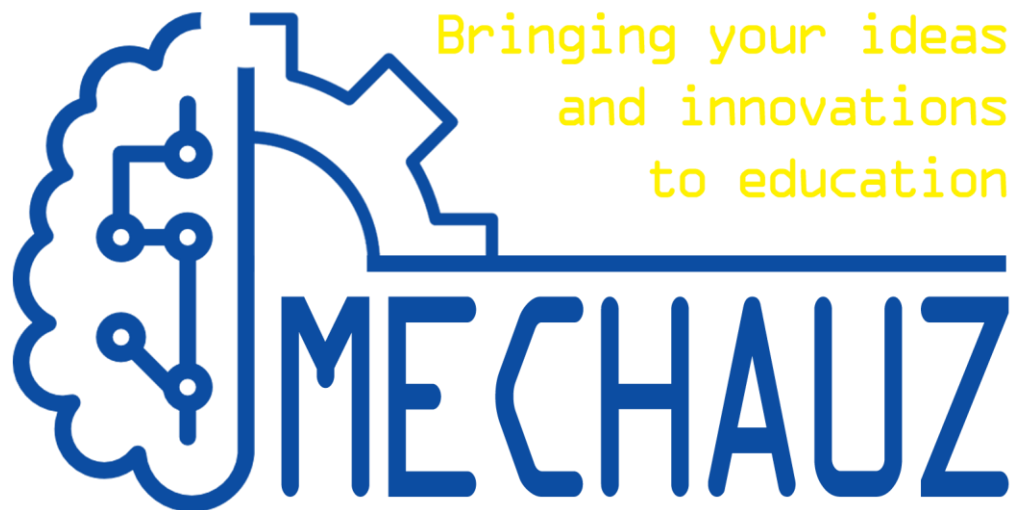
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WORK PACKAGE 4: SOCIETY

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