Co-funded by the Erasmus+ Programme of the European Union

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

Bringing your ideas and innovations to education
MECHAUZ

TURIN POLYTECHNIC UNIVERSITY IN TASHKENT (P8)

ASANOV SEYRAN

Andijan, Uzbekistan, 2-6 October, 2023

Work Package 1: Project preparation and analysis of study programs

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

(MechaUz)

609564-EPP-1-2019-1-EL-EPPKA2-CBHE-JP

MechaUZ_D.1.1_Analysis and Comparison of Teaching Systems_V.1

MechaUZ_D.1.2_Studying Experience of the EU Partners, List of good Practice Examples_V.1

Main tasks on WP1:

- Analysis of teaching bachelor degree curricula in Mechatronics, Robotics or closely related fields at the Universities of Italy, Sweden, Slovakia and Ireland;
- Summary, review and analysis of bachelor degree curricula in all EU universities which have a programme in mechatronics, robotics or a related field **(in Tandem with IHU);**
- Finalizing the WP1 report and its peer-review **(in Tandem with IHU).**

Work Package 2: Development of the new BSc program

Development of curriculum proposal for the project consortium (4-years, 240 ECTS)

Course type	Course code	Course name	Credit	Hours	Classes					Self-study	Course	Course code	Course name	Credit	Hours	Classes					Self-study
					Total	Lecture	Practice	Labs	Seminar							Total	Lecture	Practice	Labs	Seminar	
1 semester (15 weeks)											2 semester (15 weeks)										
A		Mathematics		188	76	40	36	-	-	112	A		Mathematics		188	76	40	36	-	-	112
A		Chemistry		188	76	40	36	-	-	112	A		Chemistry		188	76	40	36	-	-	112
B		Physics		188	76	40	36	-	-	112	A		Physics		188	76	40	36	-	-	112
A		Drawing (descriptive geometry)		188	76	40	36	-	-	112	B		Computer Science (Python programming)		188	76	30	30	16	-	112
A		English language		188	76	40	36	-	-	112	A		English language		114	46	30	16	-	-	68
A		Elective course 1		114	46	30	16	-	-	68	C		Elective course 1		114	46	30	16	-	-	68
C		Elective course 1		114	46	30	16	-	-	68	C		Elective course 1		114	46	20	16	10	-	68
Total for semester:				1168	472	260	212	-	-	696	Total for semester:				1094	442	230	186	26	-	652
											Total for year:				2262	914	490	398	26	-	1348

3 semester (15 weeks)											4 semester (15 weeks)									
A		Mathematical Analysis 1	8	300	120	70	50	-	-	180	A		Physics 2 (Electromagnetism and Wave theory)	6	226	90	50	40	-	-	136
A		Physics 1	8	300	120	70	50	-	-	180	A		Mathematical analysis 2	6	226	90	50	40		-	136
B		Computer Science (C++/ Python)	6	226	90	40	30	20	-	136	B		Engineering Drawing	6	226	90	50	30	10	-	136
A		Linear Algebra and Geometry (+Matlab/Simulink)	8	300	120	50	40	30	-	180	B		Engineering Mechanics	6	226	90	50	40	-	-	136
											B		Fundamentals of Electrical Engineering and Circuit Theory	6	226	90	50	30	10	-	136
		Total for semester:	**30**	**1126**	**450**	**230**	**170**	**50**	-	**676**			**Total for semester:**	**30**	**1130**	**450**	**250**	**180**	**20**	-	**680**
													Internship	**0**							
													Total for year:	**60**	**2256**	**900**	**480**	**350**	**70**	-	**1356**
5 semester (15 weeks)											**6 semester (15 weeks)**									
B		Fluid mechanics and Thermodynamics (including Pneumatics and Hydraulics)	8	300	120	60	30	30	-	180	B		Fundamentals of Electronics	6	226	90	40	30	20	-	136
B		Material Science	6	226	90	60	30	-	-	136	C		Robotics	6	226	90	40	30	20	-	136
B		Applied Mechanics and Machine Elements	8	300	120	60	30	30	-	180	B		CAD/CAM/CAE	6	226	90	20	20	50	-	136
C		Electric Drives	5	188	76	40	20	16	-	112	B		Electrical and Mechanical Measurements (+ Statistics Theory)	6	226	90	50	30	10	-	136
A		Formal Wiriting	3	114	46	26	20	-	-	68	C		Microcomputer technology (+ Microcomputer programming)	6	226	90	40	30	20	-	136
		Total for semester:	**30**	**1128**	**452**	**246**	**130**	**76**	-	**676**			**Total**	**30**	**1130**	**450**	**190**	**140**	**120**	-	**680**
													Industrial Internship	**0**							
													Total for year:	**60**	**2258**	**902**	**436**	**270**	**196**	-	**1356**

7 semester (15 weeks)										8 semester (15 weeks)									
B		Automatic control	6	226	90	40	30	20	-	136	B		Project Management	6	226	90	40	30	20	-	136
C		PLC and Industrial Controllers	6	226	90	30	30	30	-	136	C		Internet of Things	6	226	90	30	30	30	-	136
C		Modeling and simulation of mechatronic systems	6	226	90	40	30	20	-	136	D		Internship	9	338	-	-	-	-	-	338
C		Digital signal processing	6	226	90	40	30	20	-	136	D		Thesis	9	338	-	-	-	-	-	338
C		Power Electronics	6	226	90	40	30	20	-	136											
		Total for semester:	**30**	**1130**	**450**	**190**	**150**	**110**	-	**680**											
														30	**1128**	**180**	70	60	50	-	948
													Total for year:	**60**	**2258**	**630**	**260**	**210**	**160**	-	**1628**
													Total:	**180**	**9034**	**3346**	**1666**	**1228**	**452**	-	**5688**

A. General study (Fundamental) courses;
B. General technical courses;
C. Specialty courses;
D. Internship and thesis

List of Elective course 1 courses:

- Law and human safety;
- Web programming;
- 3D printing technologies;
- Introduction to Mechatronics;
- Arduino development.

List of Elective course 4 courses:

- IoT technologies;
- Computer networks;
- Machine learning;
- Artificial intelligence;
- Robotics and intellectual systems.

Partial assistance to the agreement of the qualification requirements in the field of Mechatronics and Robotics

Ўзбекистон Республикаси
Олий ва ўрта махсус таълим вазирлиги

60711500– Мехатроника ва робототехника
бакалавриат таълим йўналишининг малака талаблари

КЕЛИШУВ ВАРАҒИ

ИШЛАБ ЧИҚИЛДИ:

Ислом Каримов номидаги
Тошкент давлат техника университети

Ректор _____ проф. С.М. Турабджанов

2022 йил «2» 08

М.Ў.

«ЎЗБЕКТЕХСАНОАТ» Уюшмаси

Раиси _____ М.М. Юнусов

2022 йил «2» 08

М.Ў.

КЕЛИШИЛДИ:

Ўзбекистон Республикаси
Олий ва ўрта махсус таълим вазирлиги
ҳузуридаги Олий таълимини
ривожлантириш тадқиқотлари ва
илғор технологияларни татбиқ этиш
маркази

Директор _____ Ш. Якубов

2022 йил «3» 08

М.Ў.

Тошкент шаҳридаги Турин
политехника университети

Ректор _____ Ж. Иноятходжаев

2022 йил «3» 08

М.Ў.

"Unique innovation tree" MChJ

Директор _____ Д. Хожамухаммедов

2022 йил «4» 08

М.Ў.

"ATOM Smart Solution" MChJ

Директор _____ О. Халикулов

2022 йил «4» 08

М.Ў.

DEVELOPMENT OF COURSES FOR THE BACHELOR DEGREE PROGRAMME

O'ZBEKISTON RESPUBLIKASI OLIY VA O'RTA MAXSUS TA'LIM VAZIRLIGI

ISHLAB CHIQARISH JARAYONLARINI AVTOMATLASHTIRISH

MechaUz konsorsiumi a'zolari uchun Toshkent shahridagi Turin Politexnika universiteti tomonidan yaratilgan

O'quv-uslubiy majmua

Toshkent-2023

O'ZBEKISTON RESPUBLIKASI OLIY VA O'RTA MAXSUS TA'LIM VAZIRLIGI

MASHINA DETALLARI VA AVTOMATIK LOYIHALASH ASOSLARI

fani

O'QUV-USLUBIY MAJMUA

MechaUz konsorsiumi a'zolari uchun Toshkent shahridagi Turin Politexnika universiteti tomonidan yaratilgan

TOSHKENT-2023

Work Package 3: Development of the new training courses and organizing trainings for UZB teachers, staff and engineers

my.gov.uz
Ягона Интерактив Давлат Хизматлари Портали

Тошкент шаҳри таълим сифатини назорат қилиш бўлими

№ 3201-725c-cc42-7b5f-b0b9-0433-8895
Ҳужжат яратилинган сана: 2019-05-03

Ҳужжат берилган: TURIN POLITEXNIKA UNIVERSITETI
Қабул қилувчининг идентификация рақами: 301249598

ВАЗИРЛАР МАҲКАМАСИ ҲУЗУРИДАГИ ТАЪЛИМ СИФАТИНИ НАЗОРАТ ҚИЛИШ ДАВЛАТ ИНСПЕКЦИЯСИ

Нодавлат таълим хизматларини кўрсатиш соҳасидаги фаолиятни амалга ошириш учун

ЛИЦЕНЗИЯ № KMO 0325

Направление образования	
Отбор поставщиков и мониторинг движения запасных частей.	
Локализация производства и импортозамещение.	
Складская логистика	
Программирование логических контроллеров	PLC PROGRAMMING
Программирование логических контроллеров (продвинутый)	
Пневмоавтоматика	PNEUMATICS AND
Гидроавтоматика	HYDRAULICS
Сенсорика	SENSORICS
Мехатроника	MECHATRONICS
Электроника, электротехника и основы электропривода	EELECTRIC DRIVES
Основы Робототехники	BASICS OF ROBOTICS
VDA 6.3 – Аудит процессов.	
Электронное правительство	
Информационная безопасность	
Основы производственной системы "Интегрированное качество для поставщиков GM BIQS"	
Анализ финансово-экономического состояния предприятия и налоговое планирование	
Бизнес-планирование	
Внешнеэкономическая деятельность	
Информационно-коммуникационные технологии	

Erasmus+

Key Action 1
– Mobility for learners and staff –
Higher Education Student and Staff Mobility

Inter-institutional[1] agreement 2020-2023[2]

between institutions from
Programme and Partner Countries[3]
[Minimum requirements][4]

The institutions named below agree to cooperate for the exchange of staff in the context of the Erasmus+ programme. They commit to respect the quality requirements of the Erasmus Charter for Higher Education in all aspects of the organisation and management of the mobility. The institutions also commit to sound and transparent management of funds allocated to them through Erasmus+.

A. Information about higher education institutions

Full name of the institution / country	Erasmus code or city	Contact details (email, phone)	Website (eg. of the course catalogue)
Turin Polytechnic University in Tashkent	934160829	Khasan Khankeldiyev Uzbekistan Turin Polytechnic University in Tashkent Head of International Relations Department khankeldy@polito.uz	https://polito.uz/en/
Vilnius Gediminas Technical University	LT VILNIUS02	Erika Danienė Erasmus+ Institutional coordinator erasmus@vilniustech.lt	http://www.vilniustech.lt/en

B. Mobility numbers[5] per academic year

FROM [Erasmus code or city of the sending institution]	TO [Erasmus code or city of the receiving institution]	*Subject area code* * [ISCED]	*Subject area name* *	*Study cycle [short cycle, 1st, 2nd or 3rd]* *	Number of student mobility periods	
					Student Mobility for Studies *[total number of months of the study periods or average duration*]*	*Student Mobility for Traineeships* *
LT VILNIUS02	Turin Polytechnic University in Tashkent	0710 0714	Engineering and engineering trades Electronics and automation	-	-	-
Turin Polytechnic University in Tashkent	LT VILNIUS02	0732 0610 0715	Building and civil engineering Information and Communication Technologies (ICTs) Mechanics, Mechatronics	1st, 2nd	1x120 days	0

FROM [Erasmus code of the sending institution]	TO [Erasmus code of the receiving institution]	Subject area code * [ISCED]	Subject area name *	Number of staff mobility periods	
				Staff Mobility for Teaching *[total number of days of teaching periods or average duration *]*	*Staff Mobility for Training* *
LT VILNIUS02	Turin Polytechnic University in Tashkent	0710 0714	Engineering and engineering trades Electronics and automation	1 (5 working days+2 days for travelling days)	0
Turin Polytechnic University in Tashkent	LT VILNIUS02	0732 0610 0715	Building and civil engineering Information and Communication Technologies (ICTs) Mechanics, Mechatronics	1 (5 working days+2 days for travelling days)	0


WE BUILD AUTOMATION SYSTEM
WITH PLC PROGRAMMING BY FESTO
ENTRANCE EXAM: INTERVIEW (or Project work)
PRACTICAL COURSE
ROBOTICS AND MECHATRONICS COURSE
Students will receive a certificate after successfully completing the course and also access to mechatronics lab
APPLICATIONS DEADLINE: 10-APRIL
Registration
@mechatronics.lab
t.me/Recruitment_mechatronics
Mechatronics laboratory
fischertechnik
SIEMENS
TIA Portal
RoboDK
FESTO
UNIVERSAL ROBOTS
FESTO FluidSIM

SUSTAINABILITY

TURIN POLYTECHNIC UNIVERSITY IN TASHKENT

"ORDERING"
Pro-Rector

_________F. Rinaudo
"____"___________ 2023y.

Degree course name
"Industrial manufacturing technologies "

CURRICULLUM PLAN

Academic degree - Bachelor

Curriculum period - 3 years

Type of curriculum - Fulltime

"ORDERING"
Rector of TTPU

_____________J.Sh. Inoyatkhodjaev

"____"___________ 2023 y.

I. CURRICULUM TIMETABLE

Year	WEEKS																																																				Curriculum						Holydays	Total
																																																					Total	Including						
	September					October					November				December				January					February				March				April				May					June				July				August					Lectures & practice	attestation	Internship	Final Work	Project work		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52								
1	H	H	H															H	H		A	A																A	A	I	I	I	I	I	H	H	H	H	H	H	H	H	39	30	4	5	0	0	13	52
2	H	H																H	H	A	A	A											A	A	A	I	I	I	I	I	I	I	I	I	I	H	H	H	H	H	H	H	41	25	6	10	0	0	11	52
3	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	H				A	P	P	P	P	P	P	P	P	P	P	F	F	F	A	A	A	H	H	H	H	H	H	H	H	H	H	H	H	H	38	3	4	18	3	10	14	52

[ ] Lecture and practice   [A] Attestation   [I] Internship   [H] Holidays   [F] Final Work   [P] Project work

II. CURRICULUM PLAN

First year

№	Subject ID	Subjects	Total workload per student									Semester		ECTS Credits
			Value of all assignment		Activity							1	2	
			Hour	%	Total	Lecture	Practice	Laboratory	Seminars	Tutoring	Self study	Semester 1	Semester 2	
												Credits per semester		
1		2	3	4	5	6	7	8	9	10	11	12	13	14
		Main subjects												
1	FLTEC-4	Technical english	120	6,3%	60	35	25				60	4		4
2	FLCM-6	Fundamentals of chemistry and materials	180	9,4%	90	60	30				90	6		6
3	FLPH-6	Fundamentals of physics	180	9,4%	90	48	42				90	6		6
4	FLMAT-6	Fundamentals of mathematics	180	9,4%	90	58	32				90	6		6
5	FLIBEO-8	Introduction to business economics and organization	240	12,5%	120	86	34				120	8		8
6	FLMTM-6	Introduction to materials and technologies for the manufacturing	180	9,4%	90	60	10	20			90		6	6
7	FLIMEC-6	Introduction to Mechanics	180	9,4%	90	68	22				90		6	6
8	FLBIOT-6	Fundamentals of Business Information Systems and Internet of Things	180	9,4%	90	54	36				90		6	6
9	FLITD-6	Fundamentals of industrial technical drawing and CAD	180	9,4%	90	34	20	36			90		6	6
10	FLINT-8	Internship I	300	15,6%	300								8	8
		Total (main subjects 1st year)	**1920**	**100,0%**	**1110**	**503**	**251**	**56**	**0**	**0**	**810**	30	32	**62**
		Total 1st year subjects	**1920**	**100%**	**1110**	**1175**	**871**	**56**	**0**	**0**	**810**	30	32	**62**

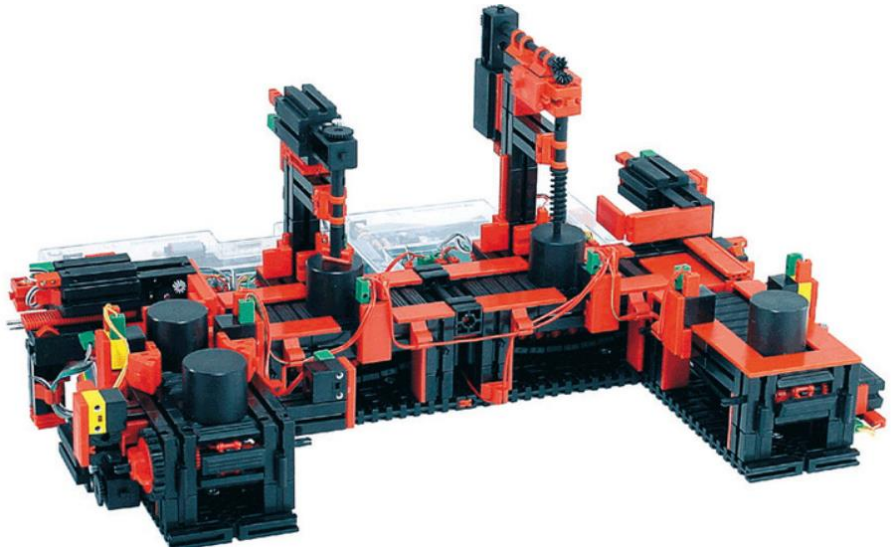
Second year

№	Subject ID	Subjects	Total workload per student								Semester		ECTS Credits
			Value of all assignment		Activity						1	2	
					Total	Lecture	Practice	Laboratory	Seminars	Tutoring	Self study	Semester 3	Semester 4	
			Hour	%								Credits per semester		
1		2	3	4	5	6	7	8	9	10	11	12	13	14
		Main subjects												
1	SLFUN-6	Fundamentals of production management	180	9,4%	90	54	36				90	6		6
2	SLFUN-8	Fundamentals of industrial plants and job safety	240	12,5%	120	68	52				120	8		8
3	SLIND-6	Industrial Automation Laboratory	180	9,4%	90	54	12	24			90	6		6
4	SLQUA-6	Quality management and measurement Laboratory	180	9,4%	90	58	10	22			90	6		6
5	SLDIG-6	Digital technologies laboratory for industry 4.0	180	9,4%	90	54	12	24			90		6	6
6	SLIND-6	Industrial systems Planning Laboratory	180	9,4%	90	24	30	36			90		6	6
7	SLINT-16	Internship II	600	31,3%							600		16	16
		Optional subjects (6 credits)	180	9,4%	90						90		6	6
		Total (main subjects 2nd year)	**1920**	**100,0%**	660	**312**	**152**	**106**	**0**	**0**	**1260**	26	34	**60**
		Optional subjects												
1	SLLAB-6	Laboratory of Materials and Technologies for manufacturing	180	9,4%	90	48	18	24			90		6	6
2	SLPLA-6	Plastics Industry Technology Laboratory I	180	9,4%	90	58	10	22			90		6	6
3	SLDIG-6	Digital technologies laboratory for product development	180	9,4%	90	36	24	30			90		6	6
		Total 2nd year subjects	**1920**	**100%**	**660**	**312**	**152**	**106**	**0**	**0**	**1260**	26	34	**60**

Third year

№	Subject ID	Subjects	Total workload per student								Semester		ECTS Credits
			Value of all assignment		Activity						1	2	
					Total	Lecture	Practice	Laboratory	Seminars	Tutoring	Self study	Semester 5	Semester 6	
			Hour	%								Credits per semester		
1		2	3	4	5	6	7	8	9	10	11	12	13	14
1	TLPRO-20	Project Work	300	17,4%	300		150	150					20	20
2	TLINT-30	Internship III	1125	65,2%							1125	30		30
3	TLFIN-3	Final Project	120	7,0%	60	45	15				60		3	3
	TLOPT-6	Optional subjects (6 credits)	180	10,4%	90						90		6	6
		Total (main subjects 3rd year)	**1725**	**100%**	**450**	**45**	**165**	**150**	**0**	**0**	**1275**	30	29	**59**
		Optional subjects												
1	TLINN-6	Innovation Management Laboratory	180	10,4%	90	40	26	24			90		6	6
2	TLPLA-6	Plastics Industry Technology Laboratory II	180	10,4%	90	58	0	32			90		6	6
3	TLMEC-6	Mechatronics Technology Laboratory	180	10,4%	90	42	24	24			90		6	6
		Total 3rd year subjects	**1725**	**100%**	**450**	**45**	**165**	**150**	**0**	**0**	**1275**	30	29	**59**
		Total	**5565**	**100%**	**2220**	**860**	**568**	**312**	**0**	**0**	**3345**	86	95	**181**

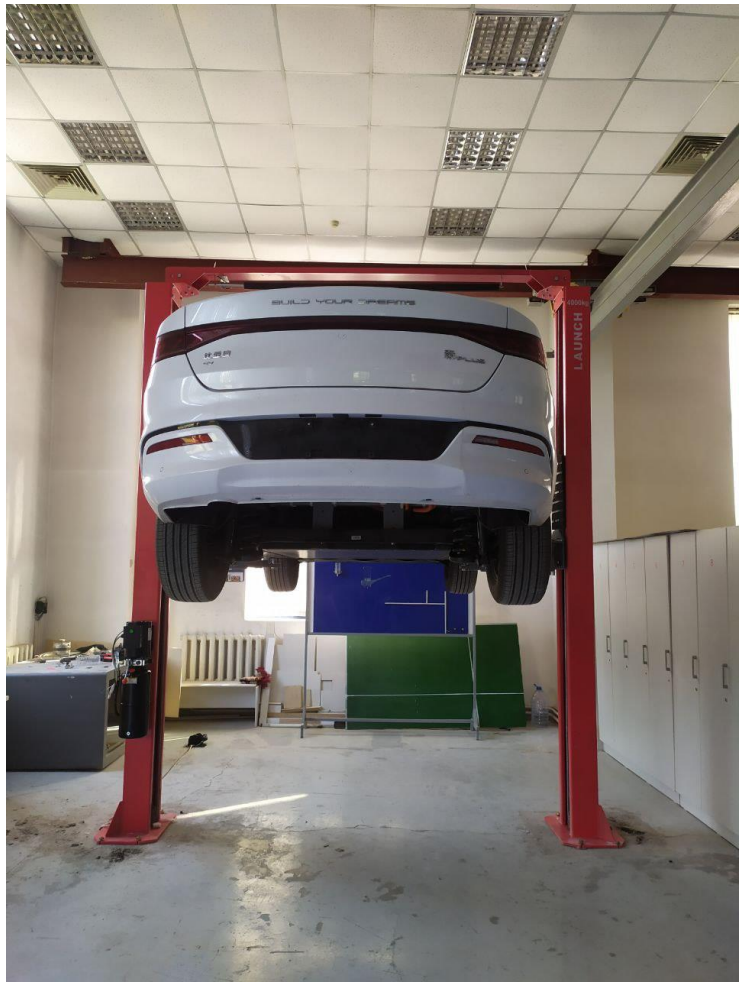
Work Package 4: Establishment of I-LABs, Training Centre and Society



II. Equipment installed beforehand

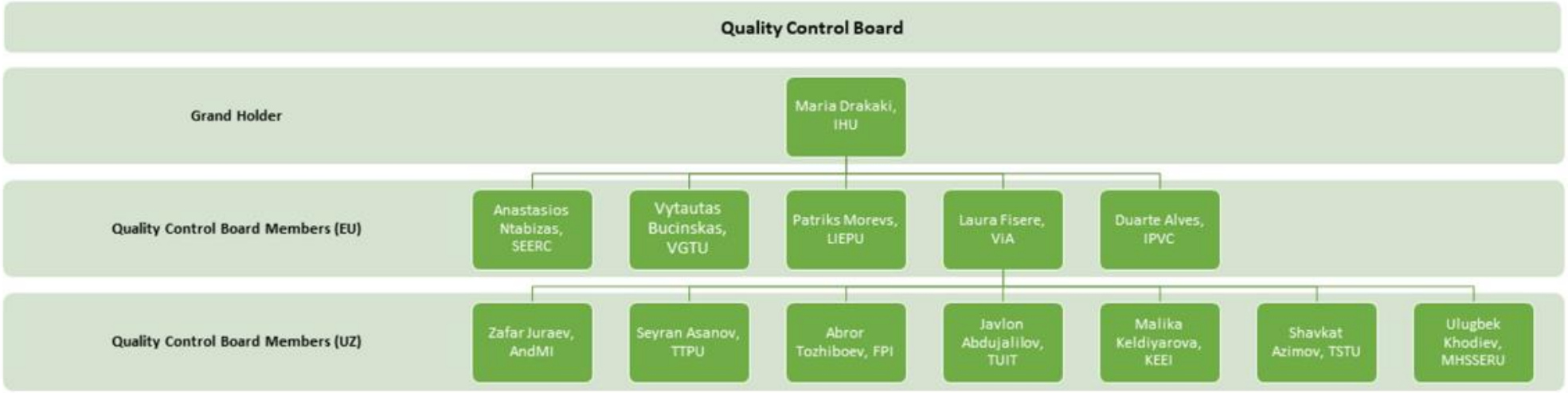

FESTO

III. Sustainable development of the laboratory



Work Package 5: Quality Control and Monitoring

PROVIDING REQUIRED INFORMATION FOR REPORTS AND PARTICIPATION IN PROJECT SURVEYS



MECHAUZ 1ST QUARTERLY REPORT
Reporting Period: 1.1.2020 – 31.3.2020

MECHAUZ 4TH QUARTERLY REPORT
Reporting Period: 1.10.2020 – 31.12.2020

MECHAUZ 3RD QUARTERLY REPORT
Reporting Period: 1.7.2020 – 30.9.2020

MECHAUZ 2ND QUARTERLY REPORT
Reporting Period: 1.4.2020 – 30.6.2020

MECHAUZ 5TH QUARTERLY REPORT
Reporting Period: 1.1.2021 - 31.3.2021

MECHAUZ 6TH QUARTERLY REPORT
Reporting Period: 1.4.2021 - 30.6.2021

MECHAUZ

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

(MechaUZ)

609564-EPP-1-2019-1-EL-EPPKA2-CBHE-JP

MechaUZ_D.5.1_Interim Report_V.0.1

Work Package 6: Dissemination/Exploitation

Contact details of TTPU

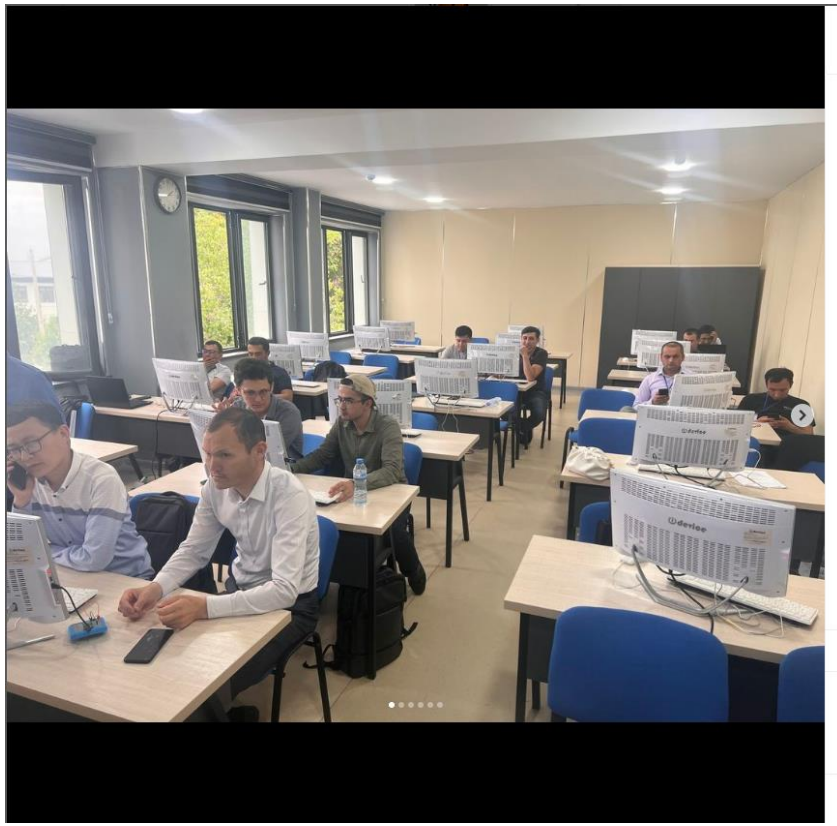
1. Web –site: **www.polito.uz**
2. Social media channels

- Facebook : **@ttpu.polito.uz**
- Instagram: **@polito_uz**
- Telegram: **https://t.me/polito_uz**
- E-mail: **info@polito.uz**
- 4**. MechaUz project** : mechauz.polito.uz
- Facebook: **@MechaUzTTPU**
- Instagram: **@mechauz_ttpu**
- Telegram: **https://t.me/mechauz_ttpu**

TTPU MechaUz project сейчас 🙂 счастлив(-а) здесь: **Tashkent University of Information Technologies**.

17 май · Ташкентская область, Ташкент ·

Professors from prominent European educational institutions hold meetings and training courses at TUIT...
In cooperation with the Ministry of Higher Education, Science and Innovation of the Republic of Uzbekistan and 6 universities of the Republic of Uzbekistan and 6 European universities, the "Modernization of Mechatronics and Robotics for Bachelor degree in Uzbekistan through Innovative Ideas and Digital Technology (MechaUz)" international project No. 609564-EPP-1-2019-1-EL... **Ещё**



mechauz_ttpu
Tashkent University of Information Technologies

mechauz_ttpu The first day of the third training course offered by MechaUz, TUIT.
As previously stated, the Tashkent University of Information Technologies named after Muhammad al-Khwarizmi hosted the training classes slated for May 15-19 as part of the MechaUZ project.
As planned, the first day of the training sessions began on May 16, 2023, in an intriguing and enthusiastic mood. The first training course on "Robot control systems" was led by professors Vytautas Buinskas and Andrius Dzedzickis of Lithuania's Vilnius Gediminas Technical University. This training course will introduce you to the normal setup of industrial robot control systems, as well as the accessible programming methodologies and the most common robot programming languages.
Uldis amis, a professor at the University of Lipaja in Latvia, offered a presentation on "IoT applications used in environmental monitoring" in the afternoon of the same day, followed by a laboratory exercise on the same topic.
This course taught information and abilities in the creation of controlled devices, as well as data collecting and transmission.
The course was divided into two sections:
The participants made sensor connections based on the programmable controller Arduino Uno, programming is done using the C++ programming language, data transmission via Bluetooth was organized, and experience was gained in software library applications for connecting various actuators in the first part of the course.
In part 2, participants create touch connections using the Raspberry Pi microcomputer; programming was done using the Python programming language; data transfer to a remote server was organized using Internet technologies; simple digital and

Статистика

Нравится fikret_umerov и ещё 8
17 МАЙ

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https://telegra.ph/Meeting-of-Erasmus--MechaUz-project-participants-05-17

Telegraph

Meeting of Erasmus + MechaUz project participants.

📍 On May 16, 2022, within the framework of the Erasmus + project to expand the boundaries of higher education, a meeting of the participants of the Erasmus + project "MechaUz- moderni...

👍 3 1610 Mahfuza, 16:56

MECHAUZ

ABOUT NEWS RESULT TEAM PARTNERS CONTACT US mechauz@polito.uz

Modernization of Mechatronics and Robotics for Bachelor degree in Uzbekistan through Innovative Ideas and Digital Technology - MechaUZ

TURIN POLYTECHNIC UNIVERSITY IN TASHKENT

≡ ABOUT ADMISSIONS RESEARCH & INNOVATION

Another meeting of the participants of the Erasmus+ CBHE MechaUz project consortium took place in Latvia

Training and research centers (labs) in the framework of the ERASMUS PLUS projects at TTPU

Turin Polytechnic university in Tashkent hosted a project management meeting in the framework of Erasmus Plus ELBA project “Establishment of Training and Research Centers and Courses Development on Intelligent Big Data Analysis in Central Asia – ELBA” between September 19-21.

ANDIJAN MACHINE-BUILDING INSTITUTE

"2ND INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE ON "MECHATRONICS AND ROBOTICS: PROBLEMS AND DEVELOPMENT PROSPECTS"

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ANDIJAN 2023

Comparative Analysis of Curricula in Mechatronics, Robotics, or Closely Related Fields at prominent Italian Universities

Asanov Seyran, MSc in Mechanical Engineering, Turin Polytechnic University in Tashkent

Umerov Fikret, Ph.D in Automotive Engineering, Turin Polytechnic University in Tashkent

Abstract:

This scientific article aims to conduct a comprehensive comparative analysis of the curricula offered by various Italian universities in the fields of Mechatronics, Robotics, and closely related disciplines. The study will provide insights into the diversity of educational programs in these fields, identify commonalities, and highlight unique features, thereby aiding prospective students, educators, and policymakers in making informed decisions about program selection and curriculum development.

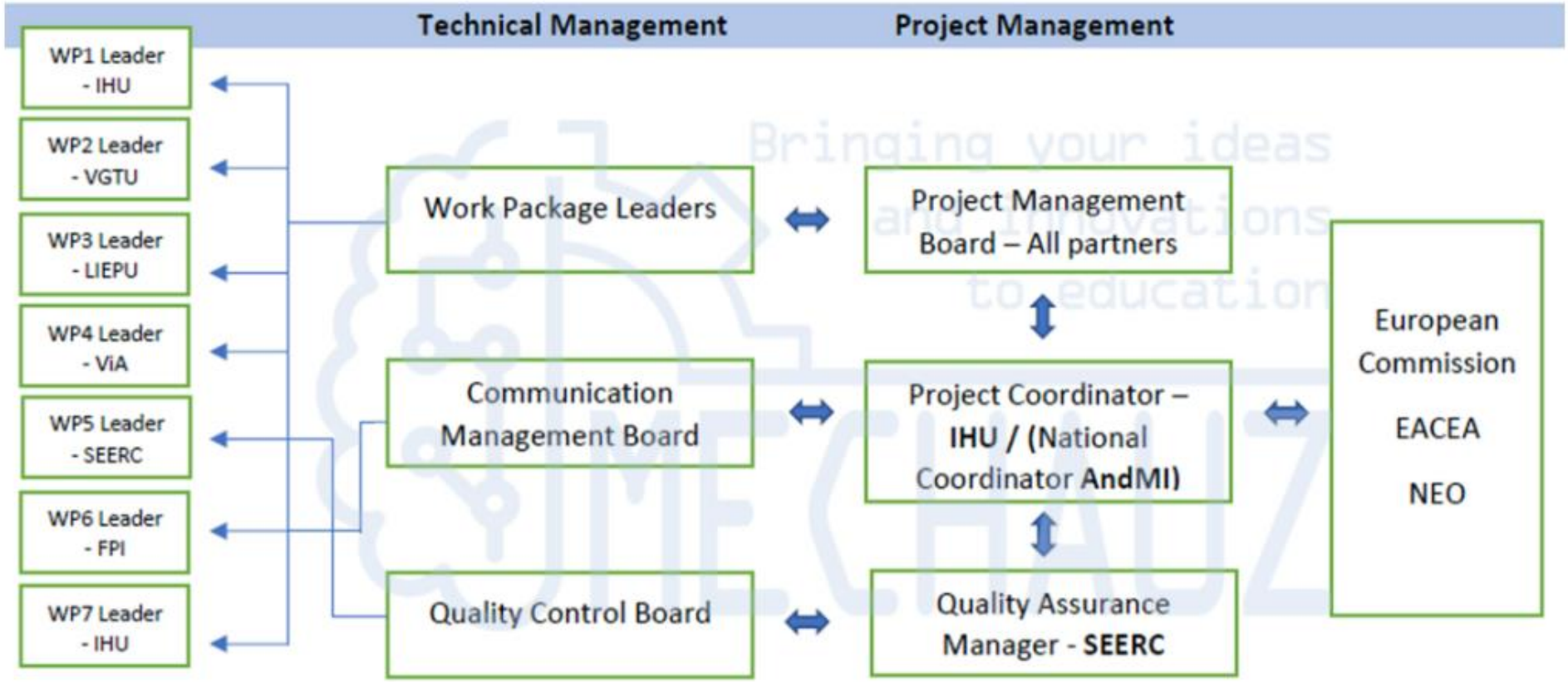
4. Acknowledgements

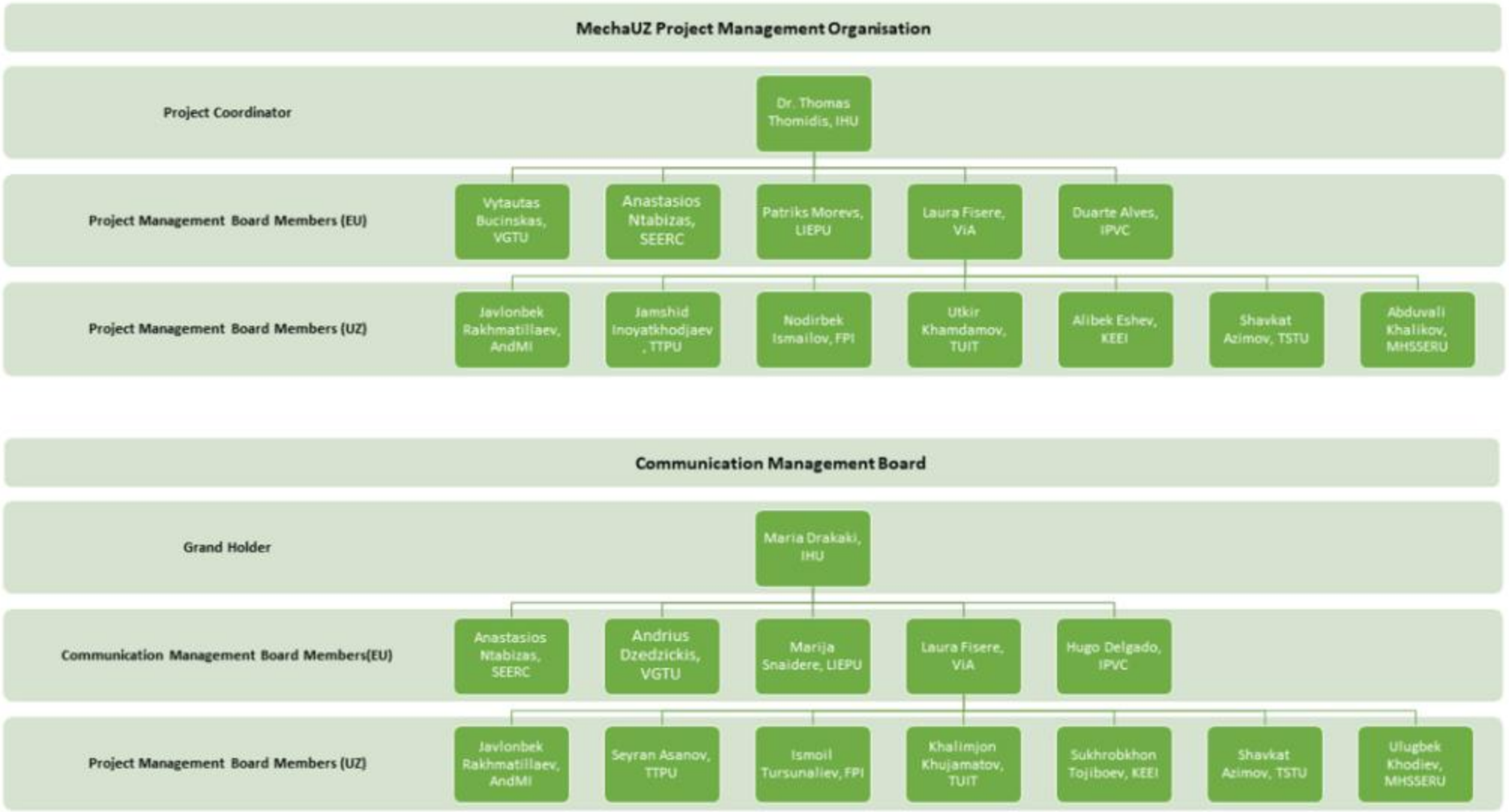
The analysis in this paper is done as part of WP1 of Erasmsus + CBHE project "MechaUz-Modernization of Mechatronics and Robotics for bachelor degree in Uzbekistan through innovative ideas and digital technologies".

Bringing your ideas and innovations to education
MECHAUZ

Co-funded by the Erasmus+ Programme of the European Union

Work Package 7: Project Management

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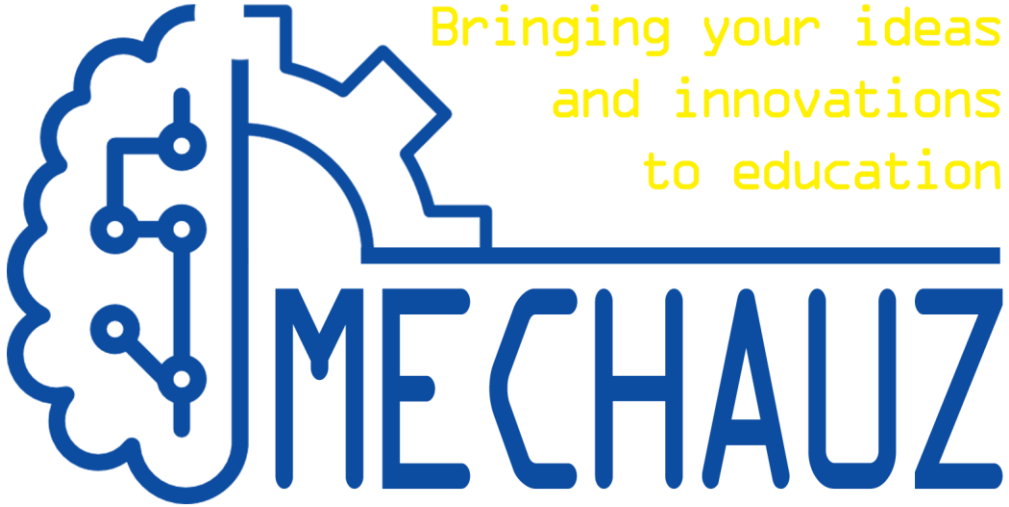
Ulugbek Khodiev, MHSSERU

Meetings

#	First meeting	Second Meeting	Third meeting	Fourth meeting	Fifth meeting	Sixth meeting	Seventh meeting	Total
Total Participants	2	6	5	4	5	2	4	28
Male	2	6	5	3	5	2	4	27
Female	0	0	0	1	0	0	0	1

Training

#	First training	Second Training	Third Training	Total
Total Participants	5	4	5	14
Male	5	3	5	13
Female	0	1	0	1



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