

Final event of the EC Tempus Project – MACH “Introduction of a New Master’s program and Doctoral courses in Mechatronics in Uzbekistan” for November 1 – 4, 2016

Participants: Project representatives from KTH, JKU, KUL and Uzbek partners, EU Delegation in Uzbekistan, NCU, MHSSE and Uzbek industry partners

Day 0. October 30/31 – Arrival of European partners (from KTH, JKU and KUL) to Tashkent and departure to Bukhara

Day 1. November 1. Venue: Bukhara engineering technology institute

Time	Activity	Who
09:00 - 09:30	Registration	
09:30 – 09:45	Welcome speech	Mr. Ulugbek Mukhammedhanov - Rector of BTI – Uzbekistan
09:45 - 10:00	Greetings from MHSSE	Representative of MHSSE (t.b.c)
10:00 - 10:15	E+ programme news	Mrs. Aziza Abdurakhmanova – NEO coordinator
10:15 – 10:35	Lessons learned and recommendations for Uzbek partners for further capacity development in mechatronics	Mr. Martin Edin Grimheden – grant-holder/project coordinator, KTH - Sweden
10:35 – 10:55	Achieved results and outcomes of MACH project	Mr. Sulaymon Eshkabilov – national coordinator, TARI - Uzbekistan
10:55 – 11:15	Coffee break	
11:15 – 11:35	Recommendations for development of Mechatronics program in Uzbekistan	Mr. Rudolf Scheidl – JKU, Austria
11:35 – 11:55	How to develop doctoral programs in engineering in the example of Mechatronics at KUL	Mr. Farid Al-Bender – KUL, Belgium
11:55 – 12:30	Discussions	
12:30 – 14:00	Lunch	

14:00 – 14:20	Industry funded projects at JKU in the example of Master and Doctoral projects within Robotics domain	Mr. Andreas Muller – JKU, Austria
14:20 – 14:40	Industry funded projects at KTH in the example of Master and Doctoral projects within Mechatronics domain	Mr. Carl During – KTH, Sweden
14:40 – 15:00	Overview of Industry funded projects around Mechatronics at KUL (in the example of Master and Doctoral projects)	Mr. Farid Al-Bender – KUL, Belgium
15:00 – 15:20	Achieved results and future plans for BTI	Mr. Karimjon Gafurov – project coordinator from BTI - Uzbekistan
15:20 – 15:30	Coffee break	
15:30 – 15:50	Achieved results and future plans for NMI	Mr. Tulkin Normurodov – project coordinator from NMI - Uzbekistan
15:50 – 16:10	Achieved results and future plans for TTPU	Mr. Farkhad Niyazov – project coordinator from TTPU - Uzbekistan
16:10 – 16:30	Achieved results and future plans for FPI	Mr. Eldor Mamurov – project coordinator from FPI - Uzbekistan
16:30 – 17:00	Developed course materials at TARI	Mr. Tohirjon Bobojonov Mr. Elyor Madirimov Mr. Dilmurad Saidov Mr. Davron Riskaliev Mr. Sulaymon Eshkabilov
17:00-17:30	Discussions	
18:30	Dinner	

Day 2. November 2. Venue: Bukhara engineering technology institute – Mechatronics Lab

Project evaluation committee: KTH, JKU, KUL and MHSSE

Time	Activity	Who
09:00 - 09:30	Team projects of BTI team	BTI team members
09:30 – 10:00	Team projects of NMI team	NMI team members
10:00 - 10:30	Team projects of TPU team	TPU team members
10:30 - 11:00	Team projects of FPI team	FPI team members
11:00 – 11:15	Coffee break	
11:15 – 11:45	Team projects of TARI team	TARI team members
11:45 – 12:25	Evaluation and award ceremony of team projects*	KTH/JKU/KUL
12:30 – 14:00	Lunch	

*Evaluation of each project with a score sheet

Parallel workshops and seminars

Workshop # 1. Curriculum development aspects of Mechatronics program in examples, and Student projects and research aspects of Mechatronics in examples

Time	Activity	Who
14:00 – 14:40	Presentation 1. Mechatronic Aspects in the Development of a Fast Switching Valve	Mr. Florian Messner – JKU, Austria
14:40 – 15:20	Presentation 2. Mechatronics at the Department of Mechanical Engineering, KU Leuven, and Master/doctoral programs/curricula	Mr. Farid Al-Bender – KUL, Belgium
15:10 – 15:40	Coffee Break	
15:40 - 16:00	Presentation 3. Development trends and challenges in Mechatronics Master/doctoral programs/curricula at KTH	Mr. Martin Edin Grimheden / Mr. Carl During – KTH, Sweden
16:00 – 17:00	Discussions	

17:00 - 17:30	Summary of the day	
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Workshop # 2. Seminars on modeling issues

Time	Activity	Who
14:00 – 15:10	Modeling of non-linear systems: in the example of friction	Mr. Farid Al-Bender – KUL, Belgium
15:10 – 16:20	Systematic approach in robotic system design	Mr. Andreas Muller – JKU, Austria
16:20 - 16:30	Coffee break	
16:30 – 17:30	Presentation 3 - Micro-motion control	Mr. Carl During – KTH, Sweden
17:30 - 18:00	Research cases in mechatronics: towards the Mechatronics Compiler	Mr. Farid Al-Bender – KUL, Belgium
18:00 – 18:30	Discussions	

Workshop # 3. Cooperation opportunities in the framework of Erasmus+Call - 2017

Time	Activity	Who
14:00 – 15:20	CBHE- Capacity Building in Higher Education, Credit Mobility, Joint Master Degrees, Jean Monnet projects) and MSCA - Maria Sklodowska-Curie programme	Mrs. Aziza Abdurakhmanova – NEO coordinator
15:20 – 15:30	Coffee Break	
15:30 – 15:45	Best practice example of Curriculum development project	Mr. Sulaymon Eshkabilov
15:45 – 16:40	Application preparation aspects	Speaker (t.b.c)
16:40 - 17:00	Discussions	

Day 3. November 3. Round table discussions on Development trends and future of Mechatronics from various aspects

Time	Activity	Who
09:00 - 09:10	Introduction to round-table discussions and presentation of key points	Facilitator – Mr. Martin Edin Grimheden
09:10 – 09:30	Visions on mechatronics of today and tomorrow (JKU)	Mr. Rudolf Scheidl/Mr. Andreas Muller
09:30 – 09:50	Visions on mechatronics of today and tomorrow (KTH)	Mr. Martin Edin Grimheden/Mr. Carl During
09:50 - 10:10	Visions on mechatronics of today and tomorrow (KUL)	Mr. Farid Al-Bender
10:10 - 10:30	Visions on mechatronics development trends and applications of today and tomorrow in Uzbekistan	Mr. Sulaymon Eshkabilov
10:30 – 10:45	Coffee break	
10:45 – 12:30	Discussions	