OPENING 8:50 – 9:00 KB, RK  MODELLING 8:50 – 13:00 RK  9:00 – 10:30 Mechanics for Mechatronics and Robotics 9:00 – 5 tatics (force analysis for construction of mechatronic and robotic systems) RK 9:00 – 10:30 Nechanics (definition of forward and inverse problem; trajectory planning and timing) RK 10:00 – Dynamics (forward and inverse problem; classical mechanics of multibody systems) RK 8 Reak 10:30 – 10:40 10:40 – 12:00 • Computer Aided Design (industrial modelling – technical documentation without drawings) KD 8 Reak 12:00 – 12:10 12:10 – 13:00 • Applied Finite Element Methods (continuum mechanics: modelling and simulation) MM 14:00 – 17:30 • Jihlava city sightseeing – centre, church towers (learning about history and the present) 14:00 – 17:30 • Mechatronics (milestones; structural, functional elements: electrotechnics, pneumatics) KB 9:00 – 10:30 • Mechatronics (milestones; structural, functional elements: electrotechnics, pneumatics) KB 10:40 – 11:30 • Artificial intelligence (principles, methods, current technologies in artificial intelligence) LKP 11:40 – 12:40 • Cyber-Physical Factory (tutorial in the school cyber-physical factory, Part 1) JJ, TD, KB 13:00 – 17:30 • Bosch Company (guided tour of robotic production) 13:00 – 17:30 • Bosch Company (guided tour of robotic production) 13:00 – 10:00 • Artificial intelligence (practical demonstrations, applications) LKP 14:00 – 10:00 • Artificial intelligence (practical demonstrations, applications) LKP 15:00 – 10:00 • Artificial intelligence (practical demonstrations, applications) LKP 16:00 – 10:10 • Artificial intelligence (practical demonstrations, applications) LKP 16:00 – 10:10 • Artificial intelligence (practical demonstrations, applications) LKP 16:00 – 10:10 • Artificial intelligence (practical demonstrations) LKP 16:00 – 10:10 • Artificial intelligence (practical demonstrations) LKP 16:00 – 10:10 • Artificial intelligence (practical demonstrations) LKP 16:00 – 10:10 • Artificial intelligence (practical demonstrations) LKP 16:00 – 10:10 • Artificial i	Sunday	June 23, 2024	Registration 17:00 –	18:00,	<b>Dinner</b> 18:00 -	- 19:00	DETAILED BIP PROGRAI	MME
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# **MECHATRONICS AND ROBOTICS WEEK 2024**

## **COLLEGE OF POLYTECHNICS JIHLAVA**

### **OBJECTIVES**

To present mechatronics and robotics in an entertaining way using modern teaching methods and practical demonstrations of real industrial systems.

#### DESCRIPTION

The Blended Intensive Programme (BIP) — Mechatronics and Robotics Week will briefly present the basic principles of mechanics, computer-aided design, electro-pneumatics, cyber-physical factories of Industry 4.0, additive technologies, and others. The presentations will be combined with simple examples and demonstrations on real industrial equipment. The BIP is intended for university students, especially for bachelor study programmes. However, students of master or doctoral study programmes are welcome as well.

#### **METHODS**

Interactive presentations and seminars, practical demonstrations, visits to industrial enterprises, running discussions.

#### **OUTCOMES**

Compact overview of mechatronics and robotics branches as revision (repetition) or vision (preview) for the future study and work; Insight into contemporary industrial systems and machine tools.

## VIRTUAL COMPONENT DESCRIPTION

- before: personal introduction, brief programme introduction, cultural excursions, physical activities, city sightseeing;
- after: comments, notes, suggestions, lost and found, how to proceed.

# Programme in Brief — June 23-28, 2024

<ul><li>Sunday</li></ul>	23/06/2024 Registration of participants on site (Pivovarská Restaurant) from 17:00				
<ul><li>Monday</li></ul>	24/06/2024	Morning professional programme   Afternoon tour of the historic centre of Jihlava			
• Tuesday	25/06/2024	Morning professional programme   Afternoon visit to the Bosch plant			
• Wednesday	26/06/2024	Full-day trip to technology and culture			
9:00	start in Jihlava at	t CPJ			
10:00	Třebíč town (UNESCO) organized guided tour $10:00-11:00$ and individual walk $11:00-11:30$				
12:00	Telč town (UNESCO) a walk through the centre to 12:50				
13:00	Telč town (UNESCO) joint lunch 60 min. and a small walk through the centre to 14:20				
14:30	Telč Chateau organized tour 50 min. to 15:30				
16:00	Třešť Chateau, individual walk of the chateau park 60 min. to 17:00				
17:30	Jihlava				
• Thursday	27/06/2024	Morning professional programme   Afternoon outdoor physical activities programme			
• Friday	28/06/2024	Morning professional programme   Afternoon free programme, Conclusion, Farewell			

BIP www: https://konference.vspj.cz/konference/109/429



# **College of Polytechnics Jihlava**

Tolstého 16

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Czech Republic