


## Innovative Approach in Fostering Algorithmic Thinking through Educational ROBOTICS and Using 3D Technology in Elementary Schools


This Blended Intensive Programme (BIP) aims to enhance algorithmic thinking skills by combining theoretical knowledge with hands-on learning through educational robotics and 3D technology. Participants can deepen their pedagogical expertise while preparing for modern teaching challenges in elementary education.

The programme promotes international collaboration, providing a platform for idea exchange, experience sharing and professional networking. Through innovative technology and interdisciplinary approaches, it equips future educators to adopt creative and effective teaching practices.

## REASONS TO ATTEND THE BIP PROGRAMME IN NITRA

 **Financial Support** from the ERASMUS+ Programme

 **Expand Your Network** - Connect with like-minded peers and professionals from different countries and exchange ideas in a collaborative, global environment, make new friendships and connections.

 **Discover Nitra and Slovakia** - Immerse yourself in the rich culture and vibrant student life of Nitra, while exploring its historical attractions.

 **Discover New Possibilities** - Explore innovative teaching methods and tools that could shape your academic and professional path.

 **Affordable On-Campus Accommodation** - on request

## TOPICS INCLUDED IN THIS PROGRAMME:



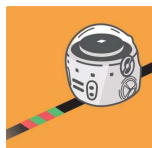
### 3D technology

Introducing the possibilities of using innovative teaching techniques in elementary education (robotics, 3D technology).



### LEGO robot

Using Lego robots in elementary schools – Introduction.



### Ozobot

Using Ozobot robots in elementary schools.



### Modelling

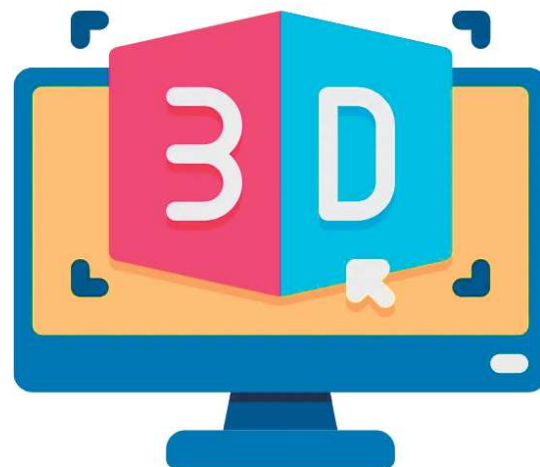
Introduction to 3D modelling and 3D printing: development of spatial thinking through manipulation of physical and virtual models.

The programme will be organized by Constantine the Philosopher University in Nitra, Faculty of Central European Studies, (Dražovská 4, 94901 Nitra, Slovakia).

# FINANCIAL SUPPORT

Mobility scholarships, funded by the Erasmus+ programme (for details, please refer to your home university Erasmus+ Office).

Coffee breaks, courses and cultural activities will be covered by the Constantine the Philosopher University in Nitra with the support of the Erasmus+ programme.



## MAIN CONTACT PERSON



**Mgr. Viktória Gergelyová, PhD.**

Vice-Dean for International Relations and Development

**Constantine the Philosopher University  
in Nitra, Faculty of Central European  
Studies**

**e-mail: [vgergelyova@ukf.sk](mailto:vgergelyova@ukf.sk)**

Duration of the programme:  
**virtual part: 1 day online (June 2, 2025)**  
**physical part: 5 days on site in Nitra,  
Slovakia (June 9-13, 2025)**

Language of instruction: **Hungarian**

Number of ECTS credits: **3 ECTS credits**