

# LAB-ON-A-CHIP FOR BIOMEDICAL USE

Organized by the  
Faculty of Information Technology and Bionics  
Pázmány Péter Catholic University | Budapest, Hungary

**ONLINE PART: 22<sup>th</sup> – 26<sup>th</sup> June 2026**

**PROJECT WEEK: 29<sup>th</sup> June – 3<sup>rd</sup> July 2026**



Contact your international  
office for more information!



**PÁZMÁNY**

Pázmány Péter Catholic University  
Faculty of Information Technology and Bionics



**TAL  
TECH**

## ONLINE PART: 22<sup>th</sup> – 26<sup>th</sup> June 2026

- Monday: Welcome and introduction to the programme, Introduction of the students: Who? Why? What?
- Tuesday: Fundamentals of fluid dynamics in microfluidic systems, Basic principles and mechanisms, key components of microfluidic devices
- Wednesday: Silicon fabrication: photolithography, microfabrication, bonding.
- Thursday: Plastic fabrication: materials, microfabrication, bonding.
- Friday: Project consultation, Defining main parameter of the lab-on-a-chip device.

## PROJECT WEEK: 29<sup>th</sup> June – 3<sup>rd</sup> July 2026

- Monday: Introduction and design
- Tuesday: Computational Fluid Dynamics (CFD) simulations
- Wednesday: Cartridge fabrication
- Thursday: Experimental setup and testing
- Friday: Presentations, and feedback

