

Phone: +(40) 734052036

Email: cristian.tufisi@ubbcluj.ro

Website: www.ubbcluj.ro

## DIGITAL PRODUCT DEVELOPMENT AND REVERSE ENGINEERING

### PROGRAM

PART 1: APRIL 2024 — 18h ON-LINE COURSES

PART 2: 20-24 MAY 2024 — 30h ON-SITE ACTIVITIES & COMPETITION

PART 3: JUNE 2024 — 25h INDIVIDUAL ACTIVITY

PART 4: JUNE 2024— 2h ON-LINE EVALUATION

Explore the cutting edge of innovation with our Blended Intensive Program, "**Digital Product Development and Reverse Engineering.**" This dynamic course immerses students in the digital product development era, guiding them through the intricacies of digital prototyping, fundamentals of computer-aided manufacturing (CAM), and fostering a profound understanding of **CNC machining** and **additive manufacturing**.

The program addresses the demands of Industry 4.0, the current industrial revolution characterized by the integration of digital technologies. In this era, digital product development and reverse engineering are fundamental skills, ensuring that students are equipped with the knowledge required by modern industries.

Our unique program goes beyond theory, offering an immersive learn-

ing experience with **hands-on activities**. Students will actively engage in **3D scanning**, **CNC machining**, and **3D printing**, gaining practical skills that set them apart in the industry.

Site visits to **leading companies** further enhance their understanding, providing real-world insights into the application of digital product development and reverse engineering.

As the program concludes, students showcase their newfound expertise in an exciting **competition**, where they will develop and test their own 3D printed product, putting their skills to the test.

Upon completion, participants not only leave with a wealth of practical knowledge but also earn **3 credits**, recognizing their academic achievement and the valuable experiences gained throughout the program.

### Who can apply ?

The BIP targets Bachelor and Master students interested in Digital Product Development and Reverse Engineering.

### Costs

- Budget-friendly accommodation right on our campus during the program.
- Erasmus+ can cover your travel costs.
- Some meals during the program are covered by the organizers.

Accommodation details: <https://resita.extensii.ubbcluj.ro/en/studenti/servicii-sociale-pentru-studenti/>

### Registration & contact:

Due to the hands-on nature of the course and personalized attention provided, we have limited seats available to ensure an enriching experience for each participant.

Simply send an email to [cristian.tufisi@ubbcluj.ro](mailto:cristian.tufisi@ubbcluj.ro) with your full name, institution's name and contact details.

Find more about Reșița on the following link:

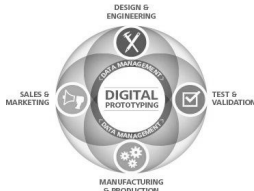
<https://www.investinresita.ro/key-facts-on-resita/>

Geolocation: <https://maps.app.goo.gl/wTivDvd8DNjXdMGYA>



### Digital Product Development in the Era of INDUSTRY 4.0

Visit leading companies at the forefront of Industry 4.0



### Digital Prototyping

Hands-on experience with CAD software



### Computer Aided Manufacturing

Hands-on experience with CAM software and CNC machining using CNC Lathe and 3-axis Mill



### Additive manufacturing

Develop real-world parts using 3D printers



### Reverse Engineering

Apply modern Reverse Engineering techniques by using 3D measuring and scanning equipment



### Faculty of Engineering

Resita Romania, P-ta Traian Vuia 1-4, 320085

Closest airport: Timisoara