



ABOUT US

The University of Bielsko-Biala was founded in October 2001 as an independent governmental academic institution. At present, about 5,000 students study at five faculties: Faculty of Mechanical Engineering and Computer Science; Faculty of Materials, Civil and Environmental Engineering; Faculty of Management and Transport; Faculty of Humanities and Social Sciences, and Faculty of Health Sciences. The University employs about 400 people, including 200 experienced professors and other academic staff. As the only state educational institution in the Podbeskidzie region which provides tertiary education, the University of Bielsko-Biala has a vibrant community of ambitious individuals who contribute to the University's research and didactic potential by constantly attaining their professional, educational and social goals. The University is firmly rooted in the region which is reflected in various enterprises with members of the community and also in its research interests.

UNIVERSITY OF BIELSKO-BIALA

Internship for Erasmus Students (17th June—18th September 2024)

International week

17th June-21st June

Intensive internship block (210 hours)

24th June-14th August



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MODULE #1: Dedicated for the following fields of studies:

- Mechanical Engineering
- Industrial Engineering
- Management and Production Engineering
- Automatics and Robotics
- Mechatronics

Language module (60 hours)

- *Polish language course*
- *English specialist, technical language course*

Management and Interpersonal module (30 hours)

- *Communication skills workshops*
- *Management skills (CSR, Human resources management skills)*
- *Culture shock – stereotypes and overcoming them*
- *Cultural diplomacy and soft power in international relations*
- *The conditions and the history of European Union integration process after the Second World War*
- *European labour market nowadays*
- *Social Responsibility in Management – the aspects of communication with external stakeholders*
- *The examples of CSR – good practices*
- *Building relations in multicultural environment – culture aspects at work*
- *The mass media history – introduction*
- *Frames and networks in communication process*
- *Agenda Setting Theory – Maxwell McComb and Donald Show – how we can shape the reality in customers minds*
- *Shaping of regional brand based on the example of the city Bielsko-Biala*
- *Shaping your own cities/universities brand*
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- *Shaping your own cities/universities brand*

Specialist module (120 hours)

- *Dynamics and programming of robots*
- *Metallographic specimens preparation*
- *3D modeling and designing using Inventor or Unigraphics or CATIA system,*
- *Experimental and theoretical studies of mechanical properties of polymer composites*
- *Statistics for engineers*
- *Investigations of dynamics of vehicle*
- *Electric and hybrid drive*
- *Operation programming of CNC machine tools (SINUMERIK)*
- *Mechatronical systems*
- *Emerson PLC and PAC systems integration*
- *Emerson controllers programming*
- *Applications and operation of industrial robots*
- *Management of Health and Safety at Work*
- *Modelling and simulation of production processes*
- *Decision support systems*
- *Computer Integration Manufacturing*
- *Static tensile test of metal specimens*
- *Strength tests of plastics*
- *Static and dynamic tests of structures using the MTS system*
- *Fluid dynamics*
- *3D printing*
- *Devices working in FDM, SLA and SLS technologies*

MODULE #2: Dedicated for the following field of study:

- **Computer Science – Applied Artificial Intelligence**

Language module (60 hours)

- *Polish language course*
- *English specialist, technical language course*

Management and Interpersonal module (30 hours)



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- *Communication skills workshops*
- *Management skills (CSR, Human resources management skills)*
- *Culture shock – stereotypes and overcoming them*
- *Cultural diplomacy and soft power in international relations*
- *The conditions and the history of European Union integration process after the Second World War*
- *European labour market nowadays*
- *Social Responsibility in Management – the aspects of communication with external stakeholders*
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Specialist module (120 hours)

- *External modules for AAI*
- *Reinforcement learning: AAI for healthcare*
- *AI for image processing*
- *Encryption and steganography governed by AI*
- *Coping with NLP*
- *AI population control*
- *Cybersecurity towards AI*
- *Intelligent biometrics*

MODULE #3: Dedicated for the following fields of studies:

- Environmental Engineering
- Chemical Technology



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➤ **Materials Engineering**

Language module (60 hours)
<ul style="list-style-type: none"> ➤ <i>Polish language course</i> ➤ <i>English specialist, technical language course</i>
Management and Interpersonal module (30 hours)
<ul style="list-style-type: none"> ➤ <i>Communication skills workshops</i> ➤ <i>Management skills (CSR, Human resources management skills)</i> ➤ <i>Communication skills workshops</i> ➤ <i>Management skills (CSR, Human resources management skills)</i> ➤ <i>Culture shock – stereotypes and overcoming them</i> ➤ <i>Cultural diplomacy and soft power in international relations</i> ➤ <i>The conditions and the history of European Union integration process after the Second World War</i> ➤ <i>European labour market nowadays</i> ➤ <i>Social Responsibility in Management – the aspects of communication with external stakeholders</i> ➤ <i>The examples of CSR – good practices</i> ➤ <i>Building relations in multicultural environment – culture aspects at work</i> ➤ <i>The mass media history – introduction</i> ➤ <i>Frames and networks in communication process</i> ➤ <i>Agenda Setting Theory – Maxwell McComb and Donald Show – how we can shape the reality in customers minds</i> ➤ <i>Shaping of regional brand based on the example of the city Bielsko-Biala</i> ➤ <i>Shaping your own cities/universities brand</i> ➤ <i>Shaping your own cities/universities brand</i> ➤ <i>Shaping your own cities/universities brand</i> ➤ <i>Shaping your own cities/universities brand</i>
Specialist module (120 hours)
<ul style="list-style-type: none"> ➤ <i>Characterization and testing of material properties – introduction (10 h, lecture)</i> ➤ <i>Characterization and testing of material properties (20 h, laboratory classes)</i> ➤ <i>Analysis of chemical compounds using infrared spectroscopic methods (15 h, laboratory classes)</i> ➤ <i>Data analysis and visualization in R (10 hours, computational exercises)</i> ➤ <i>Bioenergy Technologies (20 h, laboratory classes, computational exercises)</i> ➤ <i>Assessment of the energy properties of sewage sludge (10 h, computational exercises)</i>





- *Biodiesel production in laboratory conditions and in industry (10 h, laboratory classes)*
 - *Environmental Microbiology (15 h, laboratory classes)*
 - *Laboratory testing of environmental samples (10 hours, laboratory classes)*
- Results obtained during laboratory and computational classes will constitute the basis for preparation an individual report (19th -16th of September).*

Work on individual raport

19th August-16th September

Final project presentations

17th September

Official closing ceremony

18th September

The internship programme guarantees you **7 ECTS point**.

When: we start on 17th of June 2024 and finish on 18th of September 2024.

Where: the internship is run at the University of Bielsko-Biala in cooperation with local companies from the area of industry and technology (a part of excursion are organized in cooperation with companies).



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Accommodation: all students might be accommodated at University's dormitory (each student is obliged to pay for the accommodation by his own).

Lectures: lectures, practical workshops are run by experts, professors from the University of Bielsko-Biala and trainers from the companies.

How to apply: please send us your CV, Learning Agreement Student Mobility for Traineeships signed by the student and the coordinator from partner university as well as the nomination letter from partner University.

Deadline for sending the applications: 6th of May 2024 – all documents should be sent for the mail address: international@ubb.edu.pl.

Limits:

15 students for internships from the area of Environmental Engineering, Chemical Technology, Materials Engineering.

30 students for internship from the area of Mechanical Engineering, Industrial Engineering, Management and Production Engineering, Automatics and Robotics, Mechatronics

The acceptance letter will be send via e-mail on 20th of May 2024.



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