



MANAGEMENT AND PRODUCTION ENGINEERING

Degree: Engineer's degree
Faculty: Faculty of Technical Sciences
Specialisations: automation and mechatronics systems, production and manufacturing service management, quality engineering, sustainability engineering
Duration: 3.5 years

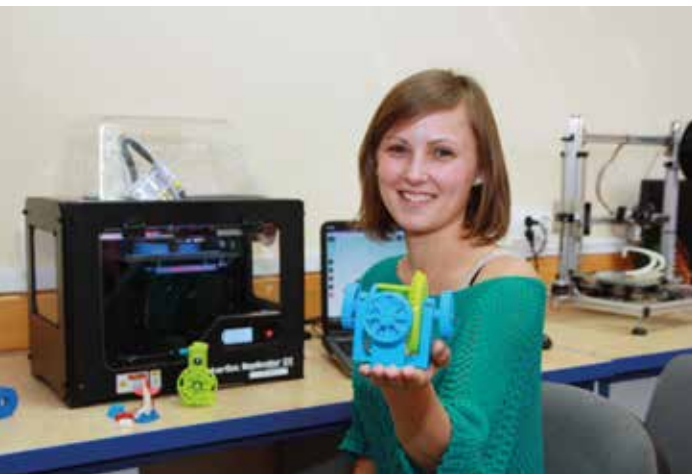
Degree: Master's degree
Faculty: Faculty of Technical Sciences
Specialisations: production logistics, sustainable clean production, IT systems in management
Duration: 1.5 years

Abaculus Scientific Association groups students who can deepen their CAD knowledge and develop their skills in Autodesk Inventor. They also execute other projects, including programming graph plotters, constructing plasma cutting plotters and carrying out experiments with optical fibres. There is also a possibility of taking additional International Proficiency Certificates in AutoCAD (also Mechanical AC), Autodesk Inventor, CNC programming etc.

Graduates possess robust practical experience tailored to market demands, emphasising sustainable development and closed-loop production goals. Their education emphasises modern technologies including 3D scanning, printing, CNC machine programming, robotics, and drone applications. Engagement in professional fairs, study visits, and workshops enhances their proficiency in entrepreneurship, creativity, and technical skills. This prepares them for such roles as production engineers, product development engineers, technical designers, quality managers, and related positions within production organisations.

Educational goals

- preparing professionals for innovation and leadership careers in the global industrial marketplace (industry, business, government)
- providing students with a broad knowledge of engineering practices and awareness of the management challenges related to production
- introducing a comprehensive perception of a company as well as equipping students with practical skills, methods and instruments
- keeping students up-to-date with technological developments through industry-driven programmes and applied research skills



Selected general courses

- production and service design and management
- production and technological processes and computer support
- logistics and quality management in enterprises
- production processes, automation and robotics
- integrated management systems
- technological processes design
- microeconomics/macroeconomics/human resources, business law

Selected specialisation courses

Automation and mechatronics systems

- mechatronics in production engineering
- designing mechatronic devices and systems
- CNC programming
- controllers in industrial networks – PLC controllers

Production and manufacturing service management

- CAP/CAM and OSN, NC systems
- engineering design and graphics
- raw materials and industrial technology

Quality engineering

- metrology
- statistical methods
- quality and safety management

Sustainability engineering

- closed-circuit production
- sustainable energy systems
- unmanned aerial vehicles (UAV) in production engineering
- technologies and organization of cleaner production



Subodh, India

This was my first trip abroad. The staff at the International Cooperation Office have been very accommodating and have done everything possible to help me during the programme. The professors here are highly knowledgeable and have years of academic and industrial experience. I have met a diverse group of students from various nationalities, including local Polish students; they have been warm and respectful towards me and my culture and have given me a chance to explore theirs, as well. This trip has not only helped me academically but also helped me to grow as a human being. I have done things that were on my bucket list for long and then things that I would not have imagined. I would definitely recommend going for Erasmus as it is an experience of a lifetime.



Tunay, Turkey

Coming to Nysa was the best experience of my life. Everything was so great! Academic teachers were friendly, understanding and tolerant. To be honest, Nysa is a small town but with many friends here, it has become a legend. I will definitely miss everyone badly. I hope we will see one another again. This was an excellent opportunity for me!