



# AN ENGINEER IS THE MANAGER OF THE FUTURE

**M**odern management requires not only the knowledge of concepts and methods, but also operationalisation assisted by new technologies. Industry 4.0 solutions based on cyber-physical systems require those involved in creative processes and related services to be competent in a wide range of fields, including technology, economics, psychology, sociology and the law. 'How to do it?' is the question engineers approaching management problems ask themselves. For more than sixty years engineering management specialists have been educated at Poznan University of Technology. This marks the continuation of work started in the 1920s by Karol Adamiecki, Zygmunt Rytel, Edwin Hauswald, Piotr Drzewiecki and Stanisław Bienkowski at Warsaw University of Technology and Lvov University of Technology. Successive generations of students learn about the intricacies of science, effective work and the shaping of flexible, efficient labour systems. The Faculty of Engineering Management at Poznan University of Technology was founded in 2010 when the earlier Institute of Engineering Management was expanded. The faculty carries on the longstanding tradition of seeking practical ways of resolving problems faced by industrial plants. It is worth noting that majors offered by the faculty are among the most popular study courses at the university. Its graduates are very much in demand on the labour market.

The faculty has about 2,000 students. Its teaching curriculum is tailored to meet the requirements of the Polish and foreign labour markets. It offers bachelor's and master's degree courses (both in full-time and part-time) in three fields of study: engineering management (also available in English), logistics and safety engineering. The bachelor's degree course in logistics complies with the European

Logistics Association standard. This enables its graduates to seek the European Senior Logistician certificate.

Faculty of Engineering Management graduates are well versed in economic realities, technology, company management, innovative projects, production management, logistics, ergonomics, quality engineering, design of safe work systems, design of management systems and IT support, marketing, business strategies, communication, the latest trends in the economy and economics, as well as entrepreneurial team work.

The Business Council plays an important role in updating teaching curricula. The representatives of more and more companies are invited to join it. The Council provides assistance in drafting teaching curricula and mapping out directions for improving teaching results, on-the-job training of students, backing the initiatives of science clubs and providing recommendations for the best graduates of the faculty.

Since 2010 the faculty has conducted doctoral studies in the field of management and production systems. The courses encompass both economics and technology since the faculty is authorised to offer degrees both in management and machine design and exploitation.

For a number of years the faculty has also been conducting post-graduate courses. These include company management, work and safety, training of science and vocational school teachers, production and logistics management, public private partnership and public procurement, technology and communication training, project and business project management, innovative management, product development, purchasing and supply management and professional counselling and enterprise.

Both in teaching and research, one of the faculty's strengths are its laboratories. The oldest Laboratory of Ergonomics and Professional Risk is operated by a team of six specialists, each holding a title of the European Ergonomist. The IT Laboratory was set up in the 1980s. Since 2010 the Laboratory of Simulation and Optimisation of Logistics Processes Socilapp (FlexSim) has been developed.

The Faculty of Engineering Management participates in the European SOCRATES/ERASMUS programme. Under agreements with 19 foreign universities, some 50 students of the faculty study abroad each year, while 14 of the faculty's research workers teach at foreign universities. Since 2010 a large number of foreign students from about twenty countries have taken up bachelor's and master's degree courses as well as pursued doctoral studies at the faculty.

In 2012 the Faculty of Engineering Management received the TÜV-Rheinland Education Quality Certificate compliant with the PN-EN ISO 9001:2009 standard. Following a reassessment in 2017, TÜV SÜD renewed the certificate.



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