

# Engineering with Commerce

Field of study: Engineering Management



## Programme description

The course delivers competences not only in management, economics and law, but in engineering disciplines as well. Such competences enable the graduate professional acting in the meeting of the enterprise and the customer. The graduate is able to associate technological issues with economic and marketing problems in the context of global business. The graduate is also prepared to analyze the market and play both the function of sales manager, as well as the initiator of change in the enterprise's organization and management systems. The graduates gains the entrepreneurial skills. In order to complete the studies, a student is obligated to write an engineering dissertation within the field of Industrial Management.

## Course summary:

### Semester 1

- Mathematics
- Basics of Management
- Microeconomics
- Advanced functions of MS Office
- Computer-aided Engineering Drawing
- Introduction to Engineering
- Organizational behavior
- Foreign Language
- Physical Training

### Semester 2

- Mathematics
- Technical Physics / Chemistry
- Finances
- Organization Theory
- Materials Science – properties and applications of materials
- Social Psychology / Sociology
- Organization of work station and work study
- Computer programming 1
- Foreign Language
- Physical Exercises

### Semester 3

- Financial Accounting
- Marketing
- Computer programming 2
- Ergonomics
- Computer-aided design
- Strength of Materials
- Foreign Language

### Semester 4

- Electronics and Electrical Engineering / Quantum Physics
- Financial Accounting
- Software Engineering
- Project Management
- Human Resources Management
- Machine Technology and Design of Production Processes 1
- Organization of Production Preparation / Organization of Supporting Processes
- EC(t1) Ergonomics-oriented Design / Product Ergonomics
- Payment Systems
- Law Elements

### Semester 5

- Production Management
- Descriptive and elements of applied statistics
- Quality Management
- Machine Technology and Design of Production Processes 2
- Marketing Research
- Financing of enterprise
- Telecommunication / Introduction to Signal Processing
- Philosophy / Ethics
- Theoretical basics of quality

### Semester 6

- Infrastructure of Industry 4.0
- Production Management
- Management Information Systems
- Intellectual Property
- Automatics and Industrial Robotics / Mobile transport systems
- EC(t2) IT Systems Transition / Web Page Design
- EC(t3) Warehouse Management / Organization of Production and Logistics in Automotive Industry
- EC(ml1) Enterprise Competitiveness / Foundations of Commercial and National Insurance
- EC(ml2) Intercultural Communication / Organizational Structures of Contemporary Enterprises
- EC(t14) Intelligent Management Support Systems / Management of IT Systems Security
- Knowledge-based economy
- Student Internships

### Semester 7

- Team Project
- Industrial Project / Organizational Consulting
- Designing industrial plants / Design of Production Systems
- EC(ml3) Economics of Sustainable Development / Innovation Processes and Patents
- EC(ml4) Marketing in Commerce and Services / Negotiations and Negotiation Techniques
- Diploma Seminar with introduction to scientific research



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<b>University</b>	Poznan University of Technology Poznan, POLAND
<b>Degree to be obtained</b>	Bachelor of Science, Eng.
<b>Programme website</b>	<a href="http://www.put.poznan.pl/en">http://www.put.poznan.pl/en</a>
<b>Contact</b>	International Relations Office Pl. M. Skłodowskiej-Curie 5 60-965 Poznan, Poland
<b>Phone</b>	+48 61 665 3544
<b>Fax</b>	+48 61 665 3956
<b>E-mail</b>	<a href="mailto:study@put.poznan.pl">study@put.poznan.pl</a>
<b>Language of instruction</b>	English
<b>ECTS points</b>	210
<b>Duration</b>	3.5 years (7 semesters)
<b>Programme begins</b>	end of September
<b>Programme ends</b>	end of February
<b>Deadline for application</b>	middle of July
<b>Education requirements</b>	English language – level B2 (Common European Framework), Secondary school certificate which entitles its holder to apply to higher education institutions. Full list of the required documents is available at: <a href="http://www.put.poznan.pl/en">http://www.put.poznan.pl/en</a>
<b>Mode of instruction</b>	Lectures, classes, laboratory classes, projects, internships

