



Workshop on “Production Management” Based on Master’s programme in Industrial Engineering and Management

Background

Production management has its roots in 18th century with Adam Smith’s division of labour. Throughout the years many great concepts contributed further into development of production management. Though the very definition of what production management is has been changed many times its core are functions of planning, implementation and control of industrial production processes with purpose to ensure smooth and efficient operation. Today’s manufacturers have little chance to compete on global markets without application of Information Systems. The only way to be competitive in tomorrow’s global market is to combine flexible production processes with latest developments in Information Systems. This workshop will give students a general understanding of:

- must-know theoretical principles of IS application in production management
- practical production management methods from world-class production companies

The workshop will be held in sessions of total 8 academic hours.

Learning outcome

Participants will gain an understanding of several aspects fundamentally important for successful management of any production, regardless of final product: milk, computer or a naval ship. Workshop will consist of 3 parts:

- Production Management and **Information Systems**
 - Introduction to production management
 - Introduction to evolution of Information Systems for production management
 - Practical application of material requirements planning (MRP)
- Business **process modelling** with help of intellectual software tools
 - How to draw business processes?
 - Process modelling in practise
- Application of **lean manufacturing** concepts
 - Practical simulation of production management in a game mode (with prize!)
 - Students will run their own production (logistics, assembly, planning, quality control, staffing and team-work/management)
 - Production process measurements and productivity improvement

The practice will be held in **groups** of 10 students.

Target audience

Students participating in this course would be at the final stage of their bachelor's programs or at the beginning of their master's studies. Thus the students would have the knowledge of fundamental business concepts as well as of the foundations of technology management. The workshop is highly suitable for those students who after graduation see themselves as production technology specialists, design and industrial engineers, production and material planners, process improvement and general managers, including positions of Information System specialists (often IT background) to be working in any manufacturing company.

Number of participants: **30 students** for optimal results. With the instructor’s consent more students can be accepted.

Instructor

Lecturer Roman Zahharov (Tallinn University of Technology, Faculty of Mechanical Engineering). Roman has a decade-long experience with production processes improvement and implementation of business information systems in industries such as: metal, industrial construction, electronics, food and others. Currently he is working with production management and information system development at a large manufacturing company located in Shanghai.

Special benefits for workshop participants

- Application fee waive for those who apply for Tallinn Tech study programs: you save 50 euro* for bachelor and 100 euro for master,
- Discount of 250 euro for English Language Preparatory Year,
- Discount of 15% for the Summer School: you save 370 euro if register before 1st of May or 385 euro if register after 1st of May,
- Discount of 20% for European Innovation Academy (EIA): you save 90 euro if register one course, and 158 and 210 euro if register two and three courses respectively.

* 1 euro = ca 8,41 yuan (based on the [Bank of China exchange rate](#) on Feb 15, 2013)

Contact information

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