Czestochowa University of Technology

Bachelor in Quality and Production Management (BSc)

Częstochowa, Poland

DURATION: 7 Semesters

LANGUAGES: English

PACE: Full time

APPLICATION DEADLINE: November 30th

EARLIEST START DATE: FEBRUARY

TUITION FEES: EUR 1,200 / per semester *

STUDY FORMAT: On-Campus

* plus additional non-refundable 85 PLN (approx. 20 EUR) recruitment fee

## Introduction

Graduates of BSc in Quality and Production Management will acquire knowledge and skills necessary to compile, enforce and refine quality systems in accordance with all international standards. Graduates will find out all the aspects of quality management system and techniques of motivation the staff of all levels for policy of the corporation. Graduates will acquire skills in the areas of designing new processes and supervising current processes and systems, and solving some organizational and technical issues. Simultaneously, graduates will gain skills to manage a small and medium enterprise.

## Admissions

- A high school diploma or equivalent, with strong academic performance in subjects such as mathematics, science, and business studies
- Basic understanding of production processes, quality management principles, and familiarity with computer applications and software relevant to production and quality control
- A keen eye for detail to ensure precision and accuracy in quality control and production management tasks

## Curriculum

Year I

Semester 1

- Training on safe and hygienic education conditions
- Environmental management systems
- Macroeconomics
- Mathematics I

- Physics I
- Finance
- Business management basics
- Information technology
- Production processes and technologies
- Industrial property management

Semester 2

- Economic law
- Microeconomics
- Mathematics II
- Physics II
- Business-to business-marketing
- Statistics in production
- Accounting for manufacturing companies
- Materials in production processes
- Fundamentals of metrology
- IT systems development

Elective Course:

- Sociology of work
- Sociology of the organization

Year II

Semester 3

- Operational research
- Engineering and technical drawing
- Production and service management
- Quality management
- Cost accounting for engineers

Elective Course:

- Raising funds for investments
- Implementation of investment projects

Elective Course:

- Technical application of databases
- Intelligent SMART Metering systems

Elective Course:

- Negotiation and mediation techniques
- Humanization of work

Semester 4

- Methods of business organization and management
- Fundamentals of engineering design
- Industrial waste management
- Theory of machines
- Production logistics
- Work safety management

Elective Course:

- Production scheduling and control
- Theory of constraints in production

Elective Course:

- Safety of process installations
- Safety operation of machines and devices

Year III

Semester 5

- ERP Management support systems
- Statistical process control
- Lean Manufacturing
- Computer support for engineering projects
- Documentation of quality and work safety systems
- Introduction to automation of production processes
- Engineering project management

Elective Course:

- Shaping work environment
- Ergonomics

Elective Course:

- Human resource management
- Organizational leadership

Semester 6

- Seminar
- Quality control in special processes
- Computer simulation of manufacturing processes
- Management of machinery and equipment operation
- Engineering project I
- Transport infrastructure management
- Practice

Elective Course:

- Energy efficiency management

- Management of energy infrastructure

Elective Course:

- Assembly processes
- Production systems

Elective Course:

- Sustainable management
- Human factor in production processes

Semester 7

- Seminar
- Six sigma
- Engineering project II
- Technological resources
- Commodity science

Elective Course:

- Virtual enterprises
- Multimedia techniques in management

Elective Course:

- Process and product innovation
- Research and development in technology

Program Outcome

- Knowledge of quality management principles and practices, including ISO standards, to ensure products meet required specifications and customer expectations
- Understanding of supply chain principles, including inventory management, procurement, and logistics, to ensure a smooth flow of materials and products
- Knowledge of industry regulations and standards to ensure that production processes and products comply with legal and regulatory requirements
- Understanding of workplace safety and environmental regulations, promoting safe and sustainable practices within production environments
- Ability to lead and work collaboratively in teams, managing cross-functional activities, and fostering a cooperative working environment