

## Main aims of the department:

To nurture young specialists in the field of business management using the latest means and tools in industrial engineering. To create virtual representations of real products where individual production processes are captured, modelled and simulated in a virtual environment.

## Main directions of research:

- ✓ Projection and modelling of 3D layout planning
- ✓ Creation of distributed simulation models
- ✓ Rationalization of approaches to production and assembly systems
- ✓ Cluster management

## The department's offers:

- ✓ Improved effectivity of the production process
- ✓ Scheduling and planning of production and production systems
- ✓ Pre-production checking
- ✓ Reduction of redundant costs
- ✓ Economic assessment of variants
- ✓ Decreasing risks when implementing new production
- ✓ Evaluation of work place ergonomics
- ✓ Simulation of production systems- production lines, robots and procedures
- ✓ Creation of distributed simulation models
- ✓ Optimization of methods for modelling production systems and processes
- ✓ Identification of weak points



## References:

- ŠKODA, HUTĚ, Plzeň, s. r. o.
- Rodenstock ČR s.r.o.
- GRAMMER CZ, s.r.o.
- Lyckeby Amylex, a.s.
- ZVZ, a.s.
- Západočeská plynárenská, a.s.
- Formy Tachov s.r.o.