Digital Factory Course Introduction

This course introduces you to the topics of **Digital Factory** and **Computer Simulation**. The course consists of two parts. The first part provides a theoretical introduction into the field and explains relevant terms. In the second part you learn building material flow simulations with the discrete event simulation software JaamSim.

About the lecturer

DI Stefan Hattinger BSc

Content

1. **Theory**
    i. Digital Factory
    ii. Computer Simulation
2. **Practice**
    i. JaamSim Basics
    ii. Process Modeling
    iii. Data Input + Output
    iv. Statistical Simulation
    v. Parameter Optimization
    vi. Simulation Project

Schedule

The course consists of 6 sessions of 5 units each

1. Course introduction, Theory digital factory
2. Presentations digital factory, Introduction to Computer simulation
3. Introduction to JaamSim - Basics and Process Modeling
4. Data IO, statistical simulation
5. Parameter optimization
6. Presentation simulation projects

The timetable can be adapted to the respective requirements at any time.

Grades

- Presentation about certain topics in digital factory (in groups)
- Active participation during interactive simulation lectures (individual)
- Final simulation project (in groups)