

# OPM 561 - Production Management: Lean Approaches and Variability

## Key topics:

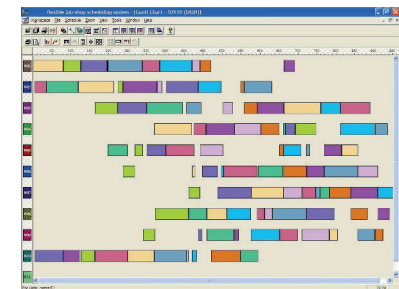
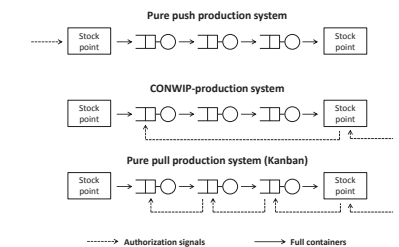
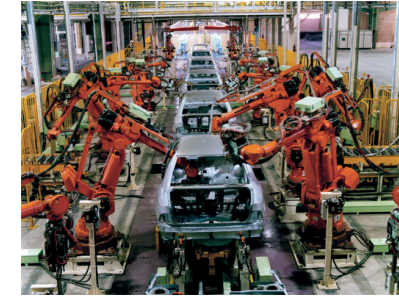
- Capacity planning in Operations Management
  - Introduction to stochastic variability
  - Design of flow production lines
  - Design of transfer lines
- Lean Management
  - Lean Philosophy
  - Total Quality Management
- Operations Planning
  - Scheduling applications
  - Optimization models (Business Analytics tool)

## Grading: (4 + 2 = 6 ECTS)

- Case study & written exam (60 min.)

## Dates/course structure:

- Lectures and exercise, Mon. B4, Wed. B2, starting 5.9.2018
- Prof. Dr. R. Stolletz, Dr. J. A. Schwarz, M. Biondi



# Course outline OPM 561 - Production Management: Lean Approaches and Variability

## I Introduction

- Variability in Operations Management

## II Capacity planning in Operations Management

- Introduction to stochastic variability
- Design of flow production lines
- Design of transfer lines

## III Lean Management

- Principles of lean management and implementation of lean systems
- Total Quality Management

## IV Scheduling Applications

- Job shop scheduling
- Maintenance scheduling
- Lot sizing
- Car sequencing

## V Practical insights

- Business Analytics tool for case work
- Field trip to Daimler AG
- Guest lecture: Analytics @ BASF