

# Case Studies

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## Constraint Based Production Scheduling



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# Acknowledgments



This publication was developed as part of the ENTIRE EDIH project, which received funding from Enterprise Ireland and the European Commission.

Part of this work is based on research conducted with the financial support of Science Foundation Ireland under Grant number 12/RC/2289-P2 at Insight the SFI Research Centre for Data Analytics at UCC, which is co-funded under the European Regional Development Fund.

Part of this work is based on research conducted within the ASSISTANT European project, under the framework program Horizon 2020, ICT-38-2020, Artificial intelligence for manufacturing, grant agreement number 101000165.

## Key Points



- We provide a number of scheduling case studies
- Use the methodology developed to describe problems
- Use scheduling tool to provide solutions
- Generic tool provides good, but not always best solutions
- Two case studies are not handled by scheduling tool (yet)

# Case Studies Overview



- Production Planning and Detailed Scheduling
  - How to use detailed scheduling in a wider context
- Assembly Line Balancing
  - Scheduling to plan design of an assembly line
- Test Scheduling
  - Scheduling tests on resources
- Factory Design
  - Location of resources affects scheduling outcome
- Oven Scheduling
  - Solving one detailed scheduling problem is not enough
- Blades and Vanes
  - Capacity and production planning over a multi-year period

## Summary



- See how the methodology can be applied to solve real-world problems
- Generic tool provides immediate solution of good quality
- Visualization of results is also provided
- Tool will be available in a few weeks time