

SYLLABUS

Manufacturing Systems 7.5 credits T0011T

Produktionsledning

Course syllabus admitted: Autumn 2021 Sp 1 - Autumn 2021 Sp 2

**DECISION DATE
2021-02-17**

Manufacturing Systems 7.5 credits T0011T

Produktionsledning

First cycle, T0011T

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	G U 3 4 5	Produktionsteknik	Mechanical Engineering

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and T0019T Manufacturing Methods or equivalent.

Selection

The selection is based on 1-165 credits.

Examiner

Torbjörn Ilar

Course Aim

After completing the course the students shall be able to:

1. Knowledge and understanding

- describe the demands on modern production management,
- describe methods and strategies for management of manufacturing systems,
- describe basic concepts within production and lean production,
- describe work laws and roles related to employer employees relations,

2. Skill and ability

- apply methods for change management for production system,
- plan design and layout of production systems,
- evaluate in which situations different management strategies are applicable,
- present, written and oral, results from production system development,

3. Valuation and attitude

- reflect and value own contributes in laboratory and project work.

Contents

The manufacturing system; function and layout. Production philosophies and strategies that can be applied in manufacturing, lean production The use of computer simulation to support operative and strategic decision making. Developing and improving the workplace, leadership. Basic labour law and negotiation.

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

Lectures, group excersises, laboratory exercises, group project. The lab.\'s and exercises and project are compulsory.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. Successful completion of the group exercises, laboratory exercises and project will give a pass grade. The grade can be improved by taking the written exam at the end of the course.

Remarks

. This course cannot be counted towards a degree in conjunction with MPR028.

Overlap

The course T0011T is equal to MPR040

Literature. Valid from Autumn 2012 Sp 1

Pascal Dennis. Lean Production Simplified.

"Det värdefulla engagemanget" Rickard Berglund mfl

Lab and lecture handouts. Details of additional literature given at the start of the course.

Course offered by

Department of Engineering Sciences and Mathematics

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Assignment	G U 3 4 5	7.5	Mandatory	A07	
0002	Non-compulsory examination	G U 3 4 5	0	Selectable	A07	

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

Last revised

by Head Faculty Programme Director Niklas Lehto 2021-02-17

Syllabus established

The syllabus was established by the Department of Applied Physics and Mechanical Engineering 2007-02-28, and remains valid from autumn 2007.