



## COURSE SYLLABUS

### **Deliver: Strategy, Planning and Operations, 7.5 credits**

*Deliver: Strategy, Planning and Operations, 7,5 högskolepoäng*

---

<b>Course Code:</b> TDSS22	<b>Education Cycle:</b> Second-cycle level
<b>Confirmed by:</b> Dean Mar 1, 2021	<b>Disciplinary domain:</b> Technology
<b>Revised by:</b> Director of Education Nov 15, 2023	<b>Subject group:</b> IE1
<b>Valid From:</b> Jan 1, 2025	<b>Specialised in:</b> A1F
<b>Version:</b> 4	<b>Main field of study:</b> Production Systems

---

### **Intended Learning Outcomes (ILO)**

After a successful course, the student shall

Knowledge and understanding

- display knowledge of implications of digitalisation and connectivity for planning and operation
- demonstrate comprehension of the characteristics of supply chain operations management and its role for planning and operation

Skills and abilities

- demonstrate skills of problem identification, analysis and decision making within planning and operation
- demonstrate the ability to apply different methods and tools relevant for planning and operation
- demonstrate the ability in speech and writing to clearly report and discuss own conclusions and the knowledge and arguments on which they are based
- demonstrate the ability to lead, participate and collaborate effectively in teams toward goals

Judgement and approach

- demonstrate the ability to critically analyse the impact planning and operation has on economic, social and ecological sustainable development

### **Contents**

The course includes:

- Planning and control
- Capacity management
- Materials management
- Supply chain management

### **Type of instruction**

The teaching is given as lectures and seminars.

The teaching is conducted in English.

### Prerequisites

The applicant must hold the minimum of a bachelor's degree (i.e the equivalent of 180 ECTS credits at an accredited university) in engineering or technology. The bachelor's degree should comprise a minimum of 15 credits in mathematics, and taken course Introduction to Supply chain operations management, 7.5 credits or the equivalent. Proof of English proficiency is required.

### Examination and grades

The course is graded 5,4,3 or Fail.

The final grade will only be issued after satisfactory completion of all assessments.

Registration of examination:

Name of the Test	Value	Grading
Written examination <sup>†</sup>	4 credits	5/4/3/U
Course Work	3.5 credits	U/G

<sup>†</sup> Determines the final grade of the course, which is issued only when all course units have been passed.

### Course literature

The literature list for the course will be provided 8 weeks before the course starts.

Slack, N., Brandon-Jones, A. and Burgess, N. (2022) Operations management, 10th ed., Pearson, Harlow, UK

There will also be a number of articles included in the course.