

COURSE SYLLABUS

Deliver: Strategy, Planning and Operations, 7.5 credits

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Course Code: TDSS22	Education Cycle: Second-cycle level
Confirmed: Aug 11, 2026	Disciplinary domain: Technology
Valid From: Jan 18, 2027	Subject group: Industrial Engineering and Management
	Specialised in: A1F Second cycle, has second-cycle course/s as entry requirements
	Main field of study: Production Systems

Intended Learning Outcomes (ILO)

On completion of the 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

Content

The course includes:

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

Type of Instruction

The teaching is given as lectures and seminars.

Entry Requirements

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 U.

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

Registration of examination:

Name of the Test	Value	Grading
Written examination ¹	4 credits	5/4/3/U
Course Work	3.5 credits	G/U

¹Determines the final grade of the course, which is issued only when all course units have been passed.

Course Literature

Please note that the course literature may be revised up to eight weeks before the start of the course.

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.