



## KURSPLAN

# Produkt- och produktionsplattformar, 5 högskolepoäng

*Product and Production Platforms, 5 credits*

---

<b>Kurskod:</b>	TPPR21	<b>Utbildningsnivå:</b>	Avancerad nivå
<b>Fastställd av:</b>	VD 2020-06-01	<b>Utbildningsområde:</b>	Tekniska området
<b>Reviderad av:</b>	Utbildningschef 2020-11-04	<b>Ämnesgrupp:</b>	MT1
<b>Gäller fr.o.m.:</b>	2021-01-01	<b>Fördjupning:</b>	A1N
<b>Version:</b>	2	<b>Huvudområde:</b>	Produktionssystem

---

### Lärandemål

After a successful course, the student shall

Kunskap och förståelse

- display broad knowledge of the theoretical foundation of product and production platforms
- display knowledge of product and production platforms in industrial practice
- demonstrate comprehension of the business opportunities and challenges associated with implementing platform strategies

Färdighet och förmåga

- demonstrate the ability to plan, design and analyse product and production platforms
- demonstrate the ability to select and apply models, methods, and tools that can be used in product and production platform development

Värderingsförmåga och förhållningssätt

- demonstrate an understanding of the characteristics of product and production platforms and outline suitable approaches for different applications

### Innehåll

The course applies both theoretical and practical perspectives. This includes fundamental concepts together with current research and industrial practise in the area. Different means for planning, developing and analysing product and production platform design are introduced and practised. The impact on business processes of different platform strategies are discussed as well as their use in different sectors and applications.

The course includes the following elements:

- Fundamentals of product and production platforms theory
- Product platforms and related platforms in industrial practice
- Business opportunities and challenges associated with implementing and managing platform strategies
- Means to plan, design and analyse product and production platforms
- Models, methods, and tools used in product and production platform architecting and

development

- The use of product platform strategies in different sectors and applications

### Undervisningsformer

Lectures, seminars, and exercises.

Undervisningen bedrivs på engelska.

### Förkunskapskrav

The applicant must hold the minimum of a bachelor's degree (ie. the equivalent of 180 ECTS credits at an accredited university) with at least 90 credits in Mechanical Engineering, Industrial Engineering and Management or Civil Engineering or equivalent, and 15 credits Mathematics. English Language requirements corresponding to English 6 in the Swedish upper secondary school (or the equivalent). The applicant must also have 1 year of qualified work experience. It is possible to apply for exemption from a bachelor's degree and 15 credits Mathematics if the applicant has at least 5 years of qualified work experience.

### Examination och betyg

Kursen bedöms med betygen Underkänd eller Godkänd.

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

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Övningsuppgifter	1 hp	U/G
Inlämningsuppgifter	3 hp	U/G
Seminarier	1 hp	U/G

### Kurslitteratur

The literature list for the course will be provided one month before the course starts.

Course material will be handed out during the course.