



## KURSPLAN

# Produktplattformar, 7,5 högskolepoäng

*Product Platforms, 7.5 credits*

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<b>Kurskod:</b>	FTPPF36	<b>Utbildningsnivå:</b>	Forskarnivå
<b>Fastställd av:</b>	VD 2016-01-28		
<b>Gäller fr.o.m.:</b>	2016-01-28		
<b>Version:</b>	1		
<b>Diarienummer:</b>	vd-beslut 2016/008		

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### Lärandemål

On completion of the course, the doctoral student must:

Kunskap och förståelse

- Demonstrate broad knowledge of the theoretical foundation of product platforms
- Display knowledge of product platforms and related platforms in industrial practice
- Demonstrate comprehension of the business opportunities and challenges associated with implementing and sustain a product platform strategy
- Demonstrate knowledge of a product platform lifecycle information management (e.g. PLM and BIM)

Färdighet och förmåga

- Demonstrate ability to plan, design and analyse product platforms
- Demonstrate ability to selecting and applying models, methods, and tools that can be used in product platform development

Värderingsförmåga och förhållningssätt

- Demonstrate ability to judge what aspects of product platforms that form viable topics for scientific research
- Demonstrate an understanding of the characteristics of product platforms and outline suitable approaches for different applications

### Innehåll

In the course, product platforms are studied from both theoretical and practical perspectives. This includes fundamental concepts together with current research and industrial practise in the area. Different support for planning, developing and analysing product 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 in product platform theory

Product platforms and related platforms in industrial practice

Business opportunities and challenges associated with implementing and sustain a product

platform strategy

Product platform lifecycle information management (e.g. PLM and BIM)

Means to plan, design and analyse product platforms

Models, methods, and tools used in product platform architecting and development

State of the art and the current industrial practise in general

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

### **Undervisningsformer**

The course is based on lectures and seminars where concepts, methods, tools, applications etc. are introduced and discussed. Computer tutorials will support hands-on experience of modelling methods and assignments supports an in-depth understanding and judgement. The course is taught in Swedish or English according to the needs of the participants.

Undervisningen bedrivs normalt på svenska men undervisning på engelska kan förekomma.

### **Förkunskapskrav**

Admitted to third-cycle program or equivalent.

### **Examination och betyg**

Kursen bedöms med betygen Underkänd eller Godkänd.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Compulsory lectures and seminars	3 hp	U/G
Assignments	4,5 hp	U/G

### **Kurslitteratur**