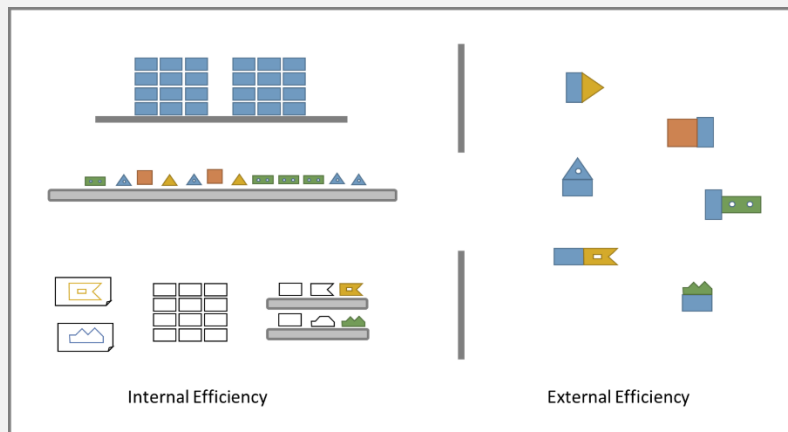




Syllabus for



P64 – Product Platforms

Credits	7.5 credits
Examiner	Fredrik Elgh, Jönköping University
Contact	Fredrik Elgh fredrik.elgh@ju.se +46 (0) 706 – 10 16 72
Target group	PhD students mainly, other applicants may be welcome if there is space.
Fee non PhD students	17 500 SEK
Prerequisites	Admitted to third-cycle program or equivalent.
Aim	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.

Teachers/tutors The course is examined by Fredrik Elgh, Professor at Jönköping University, who acts together with Martin Lennartsson, Assistant Professor Jönköping University, as the main teachers. However the course will also be taught by well-known international scientists, scholar and researchers from Jönköping University, Technical University of Denmark, Luleå University of Technology and Chalmers University of Technology.

Learning outcomes On completion of the course, the doctoral student must:

Knowledge and understanding

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

Skills and abilities

- 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

Judgement and approach

- 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

Contents 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.

Organisation

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 support an in-depth understanding and judgment. The course is taught in Swedish or English according to the needs of the participants.

Literature

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

Examination

The course grade is Pass or Fail. The examination is based on compulsory lectures, seminars and assignments.

Examination format	Extent	Scale
Compulsory lectures and seminars	3 hec	F/P
Assignments	4,5 hec	F/P

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and

