



<p>*Course name</p>	<h1>P40 Development of industrial production systems</h1>
<p>1-2 Images describing the course subject</p>	<p><b>History of Production</b></p> <p>„People can have the Model T in any colour - so long as it's black“ Henry Ford (1913)</p> <p>According to Yoram Koren: The Global Manufacturing Revolution; Source: Ford, beetleworld.net, bmw.de, dw.de</p> <p>Source: Adopted from Heilala and Voho (2001) and Lotter <i>et al.</i> (2009)</p>
<p>*Examiner</p>	<p>Åsa Fast-Berglund</p>
<p>*More info, contact person</p>	<p>Åsa Fast-Berglund,  <a href="mailto:asa.fasth@chalmers.se">asa.fasth@chalmers.se</a>, 031-7723686          Assistant Professor, Chalmers, PPU</p>
<p>*Course site and dates</p>	<p>Gothenburg          January 26-27 2016, March, 2016, May 2016</p>
<p>*Teachers /Tutors</p>	<ul style="list-style-type: none"> <li>• Åsa Fast-Berglund</li> <li>• Johan Stahre</li> <li>• Mats Winroth</li> <li>• Göran Gustafsson</li> <li>• Olof Wranne</li> <li>• Peter Almström</li> <li>• Malin Karlsson</li> <li>• Carin Rösiö</li> <li>• Jessica Bruch</li> </ul> <p>(incl. about 100 words short CV)</p>



<p>Pictures of Teachers</p>	
<p>*Target group</p>	<p>Professionals and doctoral students who want to learn more about Production systems and the base-line and history of industry.</p>
<p>*Overall Course Goal</p>	<p>After the course you will have greater understanding about modern production system solutions and lessons learned from history.</p>
<p>Higher Education Credits/ "Points"</p>	<p>7,5</p>
<p>*Ingress Short Summary and aims</p>	<p><i>The course will give you knowledge about modern production development from historical point of view, the different components in a productions system and strategies for the future.</i></p>
<p>*cont... Summary and aims</p>	
<p>*Learning outcomes</p>	<p>After the course the student will be able to:</p> <ul style="list-style-type: none"> <li>• Be able to describe all important components in a production system</li> <li>• Analyse and evaluate historical paradigms due to future production systems</li> <li>• Analyse production systems in terms of productivity, time and other KPIs</li> <li>• Describe the different steps in a product LCA</li> <li>• Analyse and evaluate different production and localization strategies</li> </ul>



*Course content	<p>The course consists of five blocks representing the most important basis</p> <ul style="list-style-type: none"> <li>• Block 1: Introduction</li> <li>• Block 2: Content of a Production system, Cradle-to-Grave</li> <li>• Block 3: Content of a production system, Components and recourses</li> <li>• Block 4: KPIs</li> <li>• Block 5: Localization strategies</li> </ul>		
Expected pre-knowledge	You do not need any previous knowledge since this is a basic course in production systems. Good if you have taken the mandatory courses P01-P03		
Registration info	E-mail to Åsa ( <i>instructions of how to register for course</i> )		
Examination	There will be three small essays, 2 individual and 1 group One counting task		
Literature	Literature will be the latest journal papers and also highly rated journals as a baseline. ( <i>books, papers, web-link, you tube...</i> )		
*Limiting number of participants	25		
Detailed Course Structure/ Class sessions	<b>Block</b>	<b>Content</b>	<b>Responsible</b>
	<b>Block 1</b> Introduction Meeting 1 Chalmers	<ul style="list-style-type: none"> <li>• Definitions</li> <li>• Historical view and Paradigms</li> <li>• Manufacturing strategies (system or product focus)</li> </ul>	<b>Åsa Fast-Berglund</b> Johan Stahre Mats Winroth
	<b>Block 2</b> Content of a Production system, Cradle-to-Grave Meeting 2 Chalmers	<ul style="list-style-type: none"> <li>• Product Development</li> <li>• Product Design</li> </ul>	<b>Göran Gustafsson</b> Olle Wranne
	<b>Block 3</b> Content of a production system, Components and recourses Meeting 2 Chalmers	<ul style="list-style-type: none"> <li>• Automation</li> <li>• It and Communication</li> <li>• Human-centered production</li> <li>• Components of a PS</li> </ul>	<b>Åsa Fast-Berglund</b> Marie Jonson
	<b>Block 4</b> KPIs Meeting 3 Chalmers	<ul style="list-style-type: none"> <li>• Productivity (PPA)</li> <li>• Production analysis</li> </ul>	<b>Peter Almström</b> Malin Karlsson
	<b>Block 5</b> Localization strategies Meeting 3 Chalmers	<ul style="list-style-type: none"> <li>• Localisation</li> <li>• Transferring</li> <li>• Cross-culture</li> </ul>	<b>Carin Rösiö</b> Jessica Bruch
Travelling directions incl. google map			

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Courses [www.produktion2030.se](http://www.produktion2030.se)

<p>and coordinates (<i>to be added before first lecture</i>)</p>	
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