



## Syllabus

### Intensive Design Course:

### “Designing Plastic Products in Circular Economy”



<b>Tue, 1 June 2021</b>	Day 1: Introduction to plastics & CE
9:30 – 10:30	<b>Plastics – Complexity &amp; Recyclability Aspects</b> Dr.Asira Fuongfuchat, MTEC (In Thai)
10:30 – 10:45	<b>Break</b>
10:45 – 12:30	<b>The Global Drive towards Plastic Circular Economy</b> Dr.Nudjarin Ramungul, MTEC (In Thai)
12:30 – 14:00	<b>Lunch break</b>
14:00 – 15:30	<b>Sustainability and Circular Economy – an introduction</b> Professor Mattias Lindahl, Linköping University & Ken Webster
15:30 – 16:00	<b>Break</b>
16:00 – 17:00	<b>Plastics – environmental issues, trends, and challenges</b> Professor Rajni Hatti-Kaul, Lund University
<b>Wed, 2 June 2021</b>	Day 2: Designing plastic products in CE
9:30 – 12:30	<b>Circular Economy by Service Design Thinking</b> Mr.Waritthi Teeraprasert, CEA (In Thai)
12:30 – 14:00	<b>Lunch break</b>
14:00 – 15:15	<b>How to Design Sustainable and Recyclable Plastic Solutions</b> Leif Nilsson (Senior plastic expert)
15:15 – 15:45	<b>Break</b>
15:45-17:00	<b>How to Design More Sustainable and Recyclable Plastic Solutions – examples &amp; exercises</b> Professor Rajni Hatti-Kaul, Lund University
<b>Wed, 9 June 2021</b>	Day 3: Experiences and Examples from Swedish organisations
13:30 – 14:00	Recap of previous days’ lessons
14:00 – 15:00	<b>Experience and Examples from Swedish Plastic Recycling</b> Mattias Philipsson (CEO, Swedish Plastic Recycling)
15:00 – 15:30	<b>Experience and Examples from PolyPlank AB</b> Annika Fernlund (Chairman of the Board, PolyPlank AB)
15:30 – 15:45	<b>Break</b>
15:45 – 16:15	<b>Experience and Examples from Volvo Cars</b> James Lundström (Head of Circular Economy, Volvo Cars)
16:15 – 17:00	<b>Discussion about Similarities and Differences between Sweden and Thailand</b> Professor Mattias Lindahl, Annika Fernlund & James Lundström

<b>Thu, 10 June 2021</b>	Day 4: Plastic recycling & LCA
9:30 – 10:00	Recap from previous day's lessons
10:00 – 11:00	<b>Plastic Recycling Practice – experiences, challenges &amp; opportunities</b> Phimphan Choojaem, Global Plasts Center Co., Ltd. (In Thai)
11:00 – 11:15	<b>Break</b>
11:15 – 12:30	<b>Plastic Recycling Practice – materials technology aspects</b> Dr.Witchuda Daud, MTEC (In Thai)
12:30 – 14:00	<b>Lunch break</b>
14:00 – 15:30	<b>Life Cycle Assessment and Life Cycle Cost – with a focus on plastics for packaging</b> Assistant Professor Annelie Carlson, Linköping University
15:30 – 16:00	<b>Break</b>
16:00 – 16:45	<b>Discussion about Potential Uses of Recycled Plastics &amp; Group Assignment</b> Professor Mattias Lindahl, Linköping University
16:45 – 17:00	<b>Summary and Concluding Discussion</b>
<b>Wed, 16 June 2021</b>	Day 5: Discussion, EuCertPlast & Group assignment
13:30 – 14:00	Recap from previous day's lessons
14:00 – 15:30	<b>Discussion about Plastics and Circularity – Sweden vs Thailand</b> Åsa Stenmarck, Senior Expert at the Swedish Environmental Protection Agency and National Plastics Coordinator
15:30 – 15:45	<b>Break</b>
15:45 – 16:15	<b>Introduction of EuCertPlast</b> ( <a href="https://www.eucertplast.eu/">https://www.eucertplast.eu/</a> )
16:15 – 17:00	<b>Half Time Presentation of Group Assignment &amp; Feedback</b> Professor Mattias Lindahl & Assistant Professor Annelie Carlson, Linköping University
<b>Wed, 23 June 2021</b>	Day 6: Group presentations & Concluding remarks
13:30 – 14:00	Recap from previous day's lessons
14:00 – 15:30	<b>Final Presentation of Group Assignment &amp; Feedback</b> Professor Mattias Lindahl & Assistant Professor Annelie Carlson, Linköping University
15:30 – 15:45	<b>Break</b>
15:45 – 17:00	<b>Way Forward &amp; Concluding Discussion</b> Professor Mattias Lindahl, Linköping University

หมายเหตุ: รูปแบบการอบรมอาจเปลี่ยนแปลงได้ตามสถานการณ์การระบาดของโควิด 19