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Focus Course: **Packaging Materials**

Course leader: **Prof. Magnus Lestelius**

Starting Date: **November 3, 2020**

Place: Distance Based on Canvas by **Karlstad University**

**Principal lecturers:**

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Prof. Agne Swerin KaU agne.swerin@kau.se AS

**Tuesday, November 3 15.00-17.30 Canvas: (Insert link)**

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| Lecture/laboratory no; SUBJECT | LECTURER |
| **Introduction and Regulatory Affairs** |  |
| 1. (15.00-15.30) Welcome and course introduction. Information on home assignment.
2. (15.30-17.30) Regulatory affairs in food packaging New materials for (food) packaging. Challenges and solutions.
 | 1 hrs ML1,5 hrs NN7 |
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**Wednesday, November 4 15.30-17.30 Canvas: (Insert link)**

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| Lecture/laboratory no; SUBJECT | LECTURER |
| **The Business Chain** |  |
| 1. (15.30-17.30) Packaging design – means and conditions for positioning brands and packaged goods.
 | 2 hrs SL |

**Thursday, November 5 15.30-17.30 Canvas: (Insert link)**

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| Lecture/laboratory no; SUBJECT | LECTURER |
| **The Business Chain**1. (15.30-17.30 Packaging, a customer and service perspective.
 | 2 hrs PS |

**Tuesday, November 10 15.30-17.30 Canvas: (Insert link)**

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| Lecture/laboratory ; Subject | LECTURER |
| **Converting**1. (13.30-15.30) Some materials properties of packages and relations to unit processes in converting and to service life for package integrity (forming, stacking and cracking)
 | 2 hrs AK |

**Wednesday, November 11 15.30-17.30 Canvas: (Insert link)**

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| Lecture/laboratory no; SUBJECT | LECTURER |
| **Converting**1. (15.30-17.30) Some materials properties of packages and relations to unit processes in converting and to service life for package integrity (filling, sealing and opening)
 | 2 hrs CK |
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**Thursday, November 12 15.30-17.30 Canvas: (Insert link)**

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| Lecture/laboratory no; SUBJECT | LECTURER |
| **Converting**1. (15.30-17.30) Surface properties and printability.
 | 2hrs ML |

**Tuesday, November 17 15.30-17.30 Canvas: (Insert link)**

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| Lecture/laboratory no; SUBJECT | LECTURER |
| **Sustainable and functional packaging materials**1. (15.30-17.30) Choice of Packages/Packaging materials (Containerboard) for sustainability and enhanced customer satisfaction Sustainable packaging?
 | 2 hrs CB |

**Wednesday, November 18 15.30-17.30 Canvas: (Insert link)**

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| Lecturer/laboratory no; SUBJECT | LECTURER |
| **Sustainable and functional packaging materials**1. (15.30-17.30) Renewable barrier materials for food packaging: Sustainable packaging?
 | 2 hrs MG |

**Thursday, November 19 15.30-17.30 Canvas: (Insert link)**

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| Lecturer/laboratory no; SUBJECT | LECTURER |
| **Sustainable and functional packaging materials**1. (15.30-17.30) Functional materials in packaging for improved scratch, UV and liquid/vapour resistance.
 | 2 hrs AS |

**Tuesday, November 25 15.30-17.30 Canvas: (Insert link)**

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| Lecturer/laboratory no; SUBJECT | LECTURER |
| **Sustainable and functional packaging materials**1. (15.30-17.30) Sustainability assessment theory and applications.
 | 2 hrs RN |

**Wednesday, November 26 15.30-17.30 Canvas: (Insert link)**

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| Lecturer/laboratory no; SUBJECT | LECTURER |
| **Seminar**1. (13.30-17.30) Seminar for home assignment tasks and handout of home exam.
 | 2 hrs ML |