

**CHEM-E0165 Nordic Biomaterials with CHEMARTS**  
**at Aalto University campus on 8-19 August 2022**

<i>When</i>		<i>What</i>	<i>Where</i>
<b>Before the course</b>		<b>Pre assignments</b>	
		CHEM-E0140 Laboratory Safety Course	Online, individually
		Readings: The CHEMARTS Cookbook (pdf) <a href="https://shop.aalto.fi/p/1193-the-chemarts-cookbook/">https://shop.aalto.fi/p/1193-the-chemarts-cookbook/</a> Please read pages 17-56	Individually
Thu 4.8. 13-14 EEST		Optional: Get-together and Q&A online	<a href="https://aalto.zoom.us/j/63151972333">https://aalto.zoom.us/j/63151972333</a>
<b>WEEK 1</b>			
Mon 8.8.	10-12  13-14:30 14:30-17	Kick-off & presenting each other. Course details and presenting CHEMARTS <i>Pirjo Kääriäinen &amp; Tapani Vuorinen</i> Material Driven-Design <i>Elvin Karana</i> Guidelines for lab work <i>Janika Lehtonen</i> followed by guided visits to laboratories	Aalto University Campus, Otaniemi BIZ T004 <b>NOTE: Meeting at ARTS, Väre building lobby at 9.45</b>  Visits to ABio & CHEM Main Building
Tue 9.8.	9-10 10-12 & 13-16	On materials <i>Tapani Vuorinen</i> Lab work /guided exercises from The CHEMARTS Cookbook	BIZ T004 CHEM Main Building
Wed 10.8.	<b>9-17.15</b>	<b>Whole day trip to Verla Unesco World Heritage site. Bus leaves at 9 am (sharp) at Dipoli parking lot at Aalto University campus. Lunch will be offered.</b>	<a href="https://www.verla.fi/en/">https://www.verla.fi/en/</a>
Thu 11.8.	9-12 & 13-16    17-19	Lab work at parallel workshops: <i>you select two, one for the morning, one for the afternoon:</i> 1. Natural dyes (ABio) <i>lines+Pirjo</i> 2. Fibres (CHEM lab) <i>Janika+Aarni</i> 3. Experimental paper + Microscopy (ABio) <i>Sonja+Tapani/Irene+Susanna</i>  <b>Optional Summer School networking event</b>	CHEM Main Building & ABio  <b>Note: Video documentation at the lab 13-16</b>
Fri 12.8.	9-12  9-9:30 9:30-10 10:30-11 11-12 13-16	Inspirational talks and discussions: Material research and designing with materials TBD <i>Paulina Martinez</i> Microbial Cellulose <i>Janika Lehtonen</i> Flower Matter <i>Irene Purasachit</i> New Textiles <i>Michael Hummel &amp; Pirjo Kääriäinen</i> Lab work <i>Finalising the first exercises or working with your own idea.</i>	ABio 241 L1      CHEM Main Building & ABio

WEEK 2			
Mon 15.8.	9-10 10-12 & 13-16	Company talk <i>Katariina Kemppainen/ Metsä Group</i> Lab work	ABio 240 L2  ABio
Tue 16.8.	9-12 13-17  13-13:30 13:30-15 15-16 16-17	Lab work Inspirational talks and discussions: From ideas and material experiments to products and commercialization Entrepreneurship and Intrapreneurship Skills <i>Sonja Hilavuo Aalto Ventures Programme</i> Group discussions Company talk <i>Jenny Muller-Wahlman/ StoraEnso</i> Sustainable Bioproduct Innovation <i>Luana Dessbesell</i>	CHEM Main Building BIZ T004      <a href="https://aalto.zoom.us/j/63151972333">https://aalto.zoom.us/j/63151972333</a>
Wed 17.8.	9-10 10-12 & 13-16  <i>13-16</i>	Company talk <i>Emilia Moisis/ UPM</i> Lab work  <i>Special programme for BioInnovation Centre doctoral candidates (AVP workshop)</i>	BIZ T004 CHEM Main Building  TBD
Thu 18.8.	9-12 13-16	Final session at the labs Preparing the presentations	CHEM Main Building BIZ T004
Fri 19.8.	9-16	Presentations & joint wrap up	BIZ T004  <i>+Photographing results</i>
<b>After the course</b>			
Deadline 2.9.		Submitting the report	MyCourses
7.9. 13-14 EEST		Optional: Feedback session	<a href="https://aalto.zoom.us/j/63151972333">https://aalto.zoom.us/j/63151972333</a>