Systems perspectives on biomass resources, 2024-2025

Schedule

Block I – Lectures and workshops, onsite in Luleå, room: E206, Polhem

Monday 11 November The

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Theme: Introduction

Time	Activity	Lecturer
11.30	Gathering and information	Elisabeth Wetterlund, LTU
		Joakim Lundgren, LTU
12.00	Lunch	
13.00	Course introduction	Elisabeth Wetterlund
		Joakim Lundgren
13.30	The global energy situation – introduction lecture	Joakim Lundgren
14.30	The important role of systems perspectives	Margareta Bäckström Lindgren,
		LTU (Grants Office)
15.30	Coffee break	
16.00	Presentations from all participants (5 min / person):	All
	Introduction to your research	
	See instructions for preparations before course start	
17.30	End of classroom day	
19.00	Dinner in downtown Luleå	

Tuesday 12 November Theme: Taking a systems perspectives approach

Time	Activity	Lecturer
8.30	Reflections from yesterday (daily check-in)	Elisabeth Wetterlund
8.45	Goal conflicts in the transition to a sustainable	Maria Pettersson, LTU
	energy system	
10.15	Coffee break	
10.30	Bioeconomy and related markets	Robert Lundmark, LTU
12.00	Lunch	
13.00	Policies	Åsa Lindman, LTU
14.30	Coffee break	
15.00	Workshop: Sustainable Development Goals (SDGs)	Elisabeth Wetterlund
	in relation to your research	
	See instructions for preparations before course start	All
16.00	Project introduction	Joakim Lundgren
17.00	End of day	

Wednesday 13 November Themes: Sustainability and the role of biomass in a sustainable society & Systems analysis methods and tools

Time	Activity	Lecturer
8.15	Process modelling, process integration and techno-	Sennai Mesfun, RISE
	economic analysis	
9.45	Coffee break	
10.00	Sustainability and the SDGs	Anna Krook-Riekkola, LTU
12.00	Lunch	
13.00	Environmental systems analysis of bio-based	Per-Anders Hansson, SLU
	systems	
14.30	Project discussions	Joakim Lundgren
15.30	Time for project work	
17.00 (ca)	End of day	



Thursday 14 November

Themes: Sustainability and the role of biomass in a sustainable society & Systems analysis methods and tools

Time	Activity	Lecturer
8.30	Reflections from yesterday (daily check-in)	Elisabeth Wetterlund
8.45	Economic methods and empirical applications in	Linda Wårell & Jerry Blomberg,
	biomass and natural resources	LTU
10.15	Coffee break	
10.45	Systems perspectives – From local to global forest	Florian Kraxner, IIASA
	resilience	
12.00	Lunch	
13.00	Energy systems modelling	Jonas Forsberg, LTU
14.30	Land-based modelling and integrated assessment	Florian Kraxner, IIASA
	models	
15.30	Coffee break	
16.00	Project workshop	Elisabeth Wetterlund
	Pizza dinner	
20.00 (ca)	End of day	

Friday 15 November

Theme: Putting your research in a systems context

Time	Activity	Lecturer
8.00-10.00	Individual work, preparing presentations	
10.00	Presentations from all participants (ca 8 min / person): Put your research in a systems perspective See instructions for preparations before course start	Elisabeth Wetterlund Joakim Lundgren
12.00	Summary of the week	
12.30	Lunch	
13.30	End of the day and of course week in Luleå	

Block II – Project work, online lectures and final seminar onsite in Luleå

November 2024 to March 2025

Independent project work in the project groups. Supervision as needed.

Friday 13 December (online via Zoom) (preliminary date and time)

9.00-10.00	Forests and climate change mitigation	Göran Berndes, Chalmers

Tuesday 17 December (online via Zoom) (preliminary date and time)

09.00-10.00	Process integration as a tool for industrial energy efficiency	Andrea Toffolo, LTU
10.00-11.00	Project status discussion	Elisabeth Wetterlund

Friday 10 January 2025 (online via Zoom) (preliminary date and time)

09.00-10.00	Techno-economic analysis of biorefinery	Andrea Ramirez Ramirez, Delft
	investments	University of Technology

Friday 24 January 2025 (online via Zoom) (preliminary date and time)

09.00-10.00	Uncertain investments. The impact from method choice on economic valuations.	Jonas Zetterholm, RISE
10.00-11.00	Project status discussion	Elisabeth Wetterlund

Tuesday 11 March 2025 (onsite in Luleå)

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10.00-16.00	Final seminar, with project presentations	Elisabeth Wetterlund
(ca time)	Details will follow	Joakim Lundgren

