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		Time &			
Day		Location	Activity	Content	Teacher
Wed	20/3	9.00-10.30	Introduction	Course introduction	Lenka Kuglerová
		(Björken)		Subject matter outline, Objectives	&
				& learning outcome	Järvi Järveoja
				course design, student	(course leaders)
				responsibilities, activities, study	
				group organization, schedule,	
				literature, learning tools and	
				grading, field trips.	
		10.30-12.00	Survey + Lecture	M1: What is sustainable	Kuglerová
		(Björken)		management?	
		(D)O: Nerry		Sustainable management from	Göran Hallsby
				multiple perspectives	
		PM	Canvas	Introduction to A1 (group and	
				topic arrangements)	
Thu	21/3	All day	Assignment	A1: literature searches, reading,	
	-, -	1 20,		group work	
				O TAIR	
Fri	22/3	9.00-11.00	Lecture	Emerging policy and governance	Camilla Widmark
		(Björken)		shifts in boreal forestry	
		PM	Assignment	A1: literature searches, reading,	
				group work	
Sat	23/3				
Sun	24/3				
Mon	25/3	AM	Assignment	A1: literature searches, reading,	
				group work (topics for	
				presentations announced at 8 am)	
				Recent report on boreal forestry	
		13.00-15.00	Lecture	,	Lina Ceder
		(Björken)			
Tue	26/3	9.00-12.00	Seminar	A1: The boreal forestry context,	Kuglerová +
		(Bokskogen)		group presentations	Järveoja
		PM	Assignment	A1b: individual written reflection	
				on A1– (deadline by midnight)	
Wed	27/3	9.00-12.00		M2: Module intro and assignment	
	, -	(Canvas)		instructions – canvas +	
		(		introductory reading and	

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- icase i	note that	tire seriedarea	activities may change with	The times anotated	
				preparation for quiz on climate change drivers (A2a)	
		13.00-17.00 (Canvas)	Quiz (Canvas) option 1 (or Thursday morning)	Reading + Quiz: Climate change drivers and the importance of forests. Quiz opens at 13:00 and closes at midnight next day	
Thu	28/3	8.00-12.00 (Canvas)	Quiz (Canvas) option 2 (or Wednesday afternoon)	Reading + Quiz: Climate change drivers and the importance of forests.	
		PM	Reading/lecture (video)	Introducing circumboreal forestry and climate change	Dan Binkley
Fri	29/3	Easter			
Sat	30/3	Easter			
Sun	31/3	Easter			
Mon	1/4	Easter			
Tue	2/4	9.00-11.00 (Björken)	Lecture	Carbon balances across the managed forest landscape	Matthias Peichl
		PM	Assignments	Work on A1 (group work)	
Wed	3/4	9.00-11.00 (Björken)	Lecture	Soil carbon in boreal forest – Impact of forest management	Michael Gundale
		PM	Assignments	Work on A1 (group work)	
Thu	4/4	9.00-11.00 (Björken)	Lecture	The role of wood-based products and bioenergy	Gustaf Egnell
		PM	Assignments	Work on A1 (group work)	
Fri	5/4	9.00-12.00 (Björken)	Group discussion	Group debates A1, questions and discussion	Egnell, Peichl, Gundale
		PM	Assignment	A1b – voluntary assignment on debate summary (Sunday deadline)	
Sat	6/4				
Sun	7/4				
Mon	8/4	9.00-11.00 (Björken)	Lecture	M3: Wood science	Carmen Critescu/Erik Anerud
		PM	Assignment	A3 – work in pairs	

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			Optional lectures (Canvas)	Online lectures from Tommy Mörling (for further background on M3)	
Tue	9/4	9.00-11.00 (Björken)	Lecture	Wood science	Carmen Critescu/Erik Anerud
		PM	Assignment	A3	
Wed	10/4	9.00-11.00 (Björken)	Lecture	Future development of sawmill production	<i>Johan Oja</i> , Norra Skog
		PM	Assignment	A3	
Thu	11/4	AM	Assignment	Preparation for presentations	
		12.00	Assignment	Deadline: Share report with reviewers	
		PM	Assignment	Working on peer review	
Fri	12/4	9.00-12.00 (Björken)	Presentations	Group presentations and discussions	Carmen and Erik
		PM	Assignment	A3: submit pair summary by midnight Submit peer review feedback by midnight (individual)	
Sat	13/4			manight (marviduar)	
Sun	14/4				
Mon	15/4	9.00-11.00 (Björken)	Lecture	M4: More varied forestry	Helena Dehlin, Swedish Forest Agency
		PM	Reading	Reading for M4	
Tue	16/4	9.00-11.00 (Björken)	Lecture	Management and biodiversity	Albin Larsson Ekström
		PM	Assignment	A4: Read and work on survey questions for discussion on Friday	
Wed	17/4	9.00-12.00 (Björken)	Lecture + discussion	Ecological restoration of forests for biodiversity	Albin Larsson Ekström
		PM	Survey	Finish Canvas survey by midnight	

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Thu	18/4	9.00-12.00 (Björken)	Lecture + discussion	Microclimate Case study on bark beetle and microclimate	Caroline Greiser
		PM	Assignment	Preparation for open book exam	
Fri	19/4	09.00-11.00 (Björken)	Discussion	A4: Better than nature silviculture (follow up on survey)	Kuglerová
		11.00-16.00 (Canvas)	Assignment	Open book exam (A4a voluntary): Forest management applications and biodiversity (submit by 16.00)	
Sat	20/4				
Sun	21/4				
Mon	22/4	9.00-9.30 (Björken)	Lecture	M5: Introductions to forest health module and SLU Forest Damage Center	Jonas Rönnberg
		9.30-12.00	Lectures	TBD	TBD
		13.00-15.00 (Björken)	Assignment	A5: Open consultation on assignments with Jonas possible	
		PM	Recorded lectures +reading		
Tue	23/4	9.00-11.00	Lectures	TBD	TBD
		PM	Assignment	A5 + reading for Wednesday	
Wed	24/4	9.00-11.00	Lectures	TBD	TBD
		PM	Assignment	A5	
Thu	25/4	9.00-11.00	Lectures	TBD	TBD
		13.00-14.00 (zoom)	Assignment	A5: Group assignment peer-assessment exercise	Jonas Rönnberg
Fri	26/4	9.00-11.30	Lectures	Cronartium on pine	TBD
		12.20-15.00 (Björken)	Group presentations	Presentations of group work A5	Jonas Rönnberg
		PM	Assignment	Submit A5 by midnight	
Sat	27/4				
Sun	28/4				

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Mon	29/4	9.00-11.00 (Björken)	Lecture	M6 Forest and Human health	Elisabet Bohlin
		PM		- Reading and watching pre- recorded lectures - A6: Forest for Recovery- Individual forest excursion	
Tue	30/4	All day		A6: Individual forest excursion or reading	
Wed	1/5	Public holidays			
Thu	2/5	8.15-10.00 (Björken)	Discussion	Discussion and follow up on A7 with teacher	Elisabet Bohlin
		10.30-11.30 (FEM fika room)	Seminar (optional)	Restoration of peatlands	Martin Evans
		12.30-14.00 (Björken)	Lecture	M7: Intro to module Water in forested landscapes	Kuglerová
		14.30-16.30 (Björken)	Lecture	Ditching practices in forests, Effects of ditching on water quality, quantity and ecology	Eliza Hasselquist
Fri	3/5	9.00-11.00 (Björken)	Lecture	Water governance	Irina Mancheva
		13.00-16.00 (Björken)	Lecture and discussions	Effects of forestry operations on water quality, quantity and ecology Forest management around water	Kuglerová + Hasselquist
Sat	4/5				
Sun	5/5	0.00.40.00			
Mon	6/5	9.00-10.30 (Björken)	Lecture  Assignment	Climate change, water and forestry  A7: Working on debate	Hjalmar Laudon
		1 141	7.3318111110111	statements	
Tue	7/5	All day	Assignments	A7: Working on debate statements	

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Wed	8/5	9.00-12.00	Debate Debate	Stakeholder debate A6, group 1	Kuglerová,
		(Björken)		(LK), group 2 (EMH) + concluding discussion	Hasselquist
		PM	Assignment	A7b individual voluntary	
			Asignment	assignment (deadline Friday	
				midnight)	
Thu	9/5	Public holiday			
Fri	10/5	AM	Online lecture	Online lectures by BG Jonsson	
		PM	Assignment	M8: Intro of A8a – reading Canvas	
				instructions and starting work on assignment	
Sat	11/5				
Sun	12/5				
Mon	13/5	9.00-11.00	Lecture and discussion	Dialogues and other stakeholder	Oskar Forsberg,
		(Björken)		interactions - experiences of a professional	Swedish Forest
			Assignment	professional	Agency
		PM		A8a: Working on a map and	
				metrics for group assignment	
Tue	14/5	AM	Assignment	A8a: Working on a map and metrics for group assignment	
		13.00-16.00 (Zoom)	Lecture and discussion	Decision support for sustainable forest management – tools and	Jeannette Eggers
		(200111)		examples	
Wed	15/5	9.00-11.00	Lecture and exercise	Multi-criteria decision analysis	Eva-Maria
		(Björken)		(MCDA) as a tool for participatory forest planning	Nordström
		PM	Assignment	A8a: Working on a map and metrics for group assignment	
				metrics for group assignment	
Thu	16/5	9.00-11.00	Lecture and discussion	Forestry and conservation in the	Johan Svensson
		(Björken)		coniferous forests of NW Sweden	
		PM	Assignment	A8a: Working on a map and	
				metrics for group assignment	
		PM	Assignment	A8a: FINAL group report	
				(deadline for submission on	
				<u>Canvas</u> by midnight)	
		1	I	I	ı

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Fri	17/5	9.00-11.00 (online)	Lecture	Opportunities for enhanced returns in timberland investments through carbon- and biodiversity credits	Aleksandra Holmlund
		PM	Assignment	Voluntary A8b: Stakeholder consideration	
			Assignment	Voluntary assignment A8b (deadline for submission by midnight)	
Sat	18/5				
Sun	19/5				
Mon	20/5	8.00 – departure from Umeå 14.00-17.00	Field trip	M9:  Green infrastructure and landscape planning	Emelie Westin (SCA), Eva Romell (Jämtland County Board), Järvi Järveoja
Tue	21/5	8.00-17.00 (Fjällbäcken)	Field trip	Riparian buffer management	Peter Lundgren, Jessica Johansson, Bosse Magnusson Lenka Kuglerová Henrik Wikström
Wed	22/5	8.00-17.00 (Hallåsen)	Field trip	Clear-cut free forestry	Henrik Wikström, Göran Hallsby
Thu	23/5	8.00-17.00 (Fagerdal)	Field trip	Nature values, biodiversity, regeneration, fire,	Göran Hallsby, Lenka Kuglerová
Fri	24/5	8.00-13.00 (Fagerdal) 14.00 – departure to Umeå	Field trip	Individual stand visits SWOT analyses	Kuglerová Hallsby
Sat	25/5				
Sun	26/5				
Mon	27/5	9.00-11.00 (zoom)	Lecture	Forest certification	Henrik von Stedingk
		PM	Assignment	A10 – forest management plan	
Tue	28/5	9.00-11.00 (zoom)	Lecture Assignment	Governmental incentives  A10 – forest management plan	Stefan Karlsson (Skogsstyrelsen)
		r IVI	Assignment	7.130 Torest management plan	
Wed	29/5	All day	Assignment	A10 – forest management plan	

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Thu	30/5	AM	Preparing presentations in groups based on topics	A10	
		13.00-16.00 (Björken)	Presentation of management plans in pairs	A10: Presentations	Kuglerová
Fri	31/5	9.00-10.00 (Bokskogen) 10.00-12.00	Evaluation	Course conclusion and evaluation  Fill out course evaluation in Evald	Kuglerová
Sat	1/6				
Sun	2/6				