

Date	Start	End	Session Title	Speakers
	9:00	9:30	Introduction to the course	Tommaso Ciarli
	9:30	11:00	Introduction to ABM	Önder Nomaler (Remote)
	11:00	11:30	Break	
	11:30	12:30	First steps to create an ABM in R	Robin Cowan
	12:30	13:30	Lunch	
	13:30	14:30	Introduction to LSD – setup, language and programming	Marco Valente
	14:30	15:30	Simple model exercises in LSD: linear model & logistic model	Marco Valente & Marco Amendola
	15:30	16:00	Break	
	16:00	17:30	Seminar 1: Agent-based Modelling of Transitions: some open challenges	Ben Vermeulen
				Tommaso Ciarli, Robin Cowan and Marco Valente
Monday 29 September	17:30	18:30	Participants topics presentation & discussion	
	9:00	10:30	Developing an ABM in R First part	Robin Cowan
	10:30	11:00	Break	
	11:00	12:30	Seminar 2: Evolutionary Selection and Keynes–Schumpeter Macroeconomics	Bart Verspagen
	12:30	13:30	Lunch	
	13:30	15:00	Implementing an ABM in R Second part	Robin Cowan
	15:00	15:30	Break	
	15:30	17:30	Designing of the Model structure in LSD; pseudo random events	Marco Valente & Marco Amendola
	17:30	18:30	Methodological discussion; Group work revising taught exercises; and 1-2-1 supervision with teaching staff	All
	9:00	10:30	The use of objects and debugging in LSD: replicator dynamics	Marco Valente & Marco Amendola
	10:30	11:00	Break	
	11:00	12:30	Implementing an advanced model in LSD: Smallwood & Conlisk	Marco Valente & Marco Amendola
	12:30	13:30	Lunch	
	13:30	15:00	Seminar 3: The Schumpeter meeting Keynes model	Andrea Roventini
	15:00	15:30	Break	
	15:30	17:30	Implementing an advanced model in LSD: Smallwood & Conlisk	Marco Valente & Marco Amendola
	17:30	18:30	Methodological discussion; Group work revising taught exercises; and supervision with teaching staff	All
	9:00	10:30	From model design to validation	Francesco Pasimeni
	10:30	11:00	Break	
	11:00	13:00	Sensitivity analysis in LSD and R	Francesco Pasimeni
	13:00	14:00	Lunch	
	14:00	15:30	Methodological Roundtable on the use of ABMs in Economics	Tania Treibich, Marco Valente, Ben Vermeulen, Bart Verspagen
	15:30	16:00	Break	
	16:00	17:30	Seminar 4: Economic fragility under pandemics and climate risks: a computational modeling perspective	Paola D’Orazio
	17:30	18:30	Presentation of assignment; Work in groups in developing and analysing the model; Supervision with teaching staff	All
	9:00	12:30	Implementation of a model (assignment): work in groups in developing and analysing the model	All
	12:30	13:30	Lunch	
	13:30	15:00	Seminar 5: Public science vs. mission-oriented policies in long-run growth: An agent-based model	Andre Lorentz
	15:00	15:30	Break	
	15:30	18:30	Students’ assignment presentations	All
	18:30		End of course	
Friday 03 October				