

6B Agent Based Simulation using MESA Part 1**Trainer :** Dan Chalk

<i>From</i>	<i>To</i>	<i>Format</i>	<i>Name of Activity</i>	<i>Link (if applicable)</i>
0930	1015	Live Lecture (Zoom)	Introduction to Agent Based Simulation and MESA	
1015	1035	Individual Exercise (Spyder)	Exercise 1 – the Agent's step() method	
1035	1040	Comfort Break		
1040	1045	Group Discussion (Zoom)	Sharing Exercise 1 solution	
1045	1115	Live Lecture (Zoom)	Building the Model class, the run module and the server module	
1115	1130	Individual Exercise (Spyder)	Playing with the first version of the model	
1130	1135	Live Lecture (Zoom)	DataCollectors	
1135	1205	Individual Exercise (Spyder)	Exercise 2 – Writing a function to calculate total infected for the DataCollector	
1205	1210	Group Discussion (Zoom)	Sharing Exercise 2 solution	
1210	1230	Live Lecture (Zoom)	Setting up the DataCollector and generating a dynamic chart	
LUNCH BREAK				
1330	1400	Live Lecture (Zoom)	BatchRunner	
1400	1600	Group Exercise	Exercise 3 – Design and build an Agent Based Simulation	
1600	1630	Group Discussion	Presentation of Models	
FURTHER WORK				
The MESA Tutorial :			https://mesa.readthedocs.io/en/latest/tutorials/intro_tutorial.html	
Dan Chalk thesis on AI foraging :			https://ore.exeter.ac.uk/repository/bitstream/handle/10036/96455/ChalkD.pdf?sequence=1	