③ 3 hour session
⑥ 6 hour session

CORE SESSIONS

Programming

- Principles of Programming ③
- Python Programming PART 1 ⑥
- Python Programming PART 2 ⑥
- Python Programming PART 3 ⑥
- Getting to Grips with Programming in R ⑥

OR and Data Science Methods

- Introduction to OR and Data Science ③
- Discrete Event Simulation ③
- Geographic Visualisation using QGIS ③
- System Dynamics ③
- Introduction to Network Analysis ③
- Agent Based Simulation ③
- Machine Learning ③
- Natural Language Processing ③
- Forecasting ③
- Deep Reinforcement Learning ③

OPTIONS

HSMAs must select to undertake at least 7 of the Option sessions. Please note : options in the second column require completion of the corresponding first column session (for example, 'Deeper into Deep RL' requires completion of the 'Deeper into Machine Learning' option).

SimPy (Part 1) ③	SimPy (Part 2) ③
More QGIS ③	
InsightMaker ③	
Advanced Network Analysis Part 1 ③	Advanced Network Analysis Part 2 ③
MESA ③	
Deeper into Machine Learning ③	Deeper into Deep RL ③
Named Entity Recognition ③	Sentiment Analysis ③
Simple Forecasting ③	Advanced Forecasting ③
Advanced R ⑥	