Discrete Event Simulation (DES)
29th Jan 2020

NOTE: It is essential that you bring headphones with you to be able to listen to the interactive videos.

Aim: Introduction to conceptual modelling for discrete event simulation.

Learning Outcomes:

The delegates should leave with a clear understanding of how DES could be utilised for analysis and insight into NHS specific issues across a range of areas and specialities**.** They should be aware of the tools that can be used for conceptual modelling and be able to build a simple model using DES and interpret results.

Structure:

9:30-10:50	Introduction to problem structuring tools for DES - rich pictures Fahim
	Conceptual modelling video 7mins (provided prior to the course or watch on the day)
	Group workshop using simple problem structuring techniques related to a healthcare case
	Fahim / Gillian / Bob
10:50-11:10	Break- tea and coffee provided
11:10-12:30	Reflection on the method and the group output. How to translate this to a modelling context for Simul8 DES.
	Further examples of some conceptual models and resulting models.
12:30-1:30	LUNCH
1:30-2:50	There are 3 options

1. Build a model from scratch based on the input from this morning in groups.
2. Use the training videos and worksheets to work through some models from a previous case
3. Ask specific questions about something you are working on

2:50-3:10	Break
3:10-4	Continue to work with the video learning at your own pace.
	Using the results manager / watch window / queue contents to validate and collect results from your model.
4-4:30	Reflections: What you have learned and feedback.

The place of useful learning

Online resources

There are Web - resources from Simul8 http://simul8.com/support/help/doku.php?id=gettingstarted

Books

- Tools for Thinking, Pidd, M. 3rd Ed. West Sussex, 2009, Chapter 4, Ch10
- Computer simulation in management science, Pidd, M. 5th ed. London : John Wiley c2006
- The practice of model development and use, Robinson, S. Palgrave MacMillan, 2014

Supported by

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