PS901-10 Computational Modelling

21/22

Department
> Psychology

Level
> Taught Postgraduate Level

Module leader
> James Adelman

Credit value
> 10

Module duration
> 10 weeks

Assessment
> 100% coursework

Study location
> University of Warwick main campus, Coventry

Description

Introductory description

This module will cover computational modelling tools used in Psychology.

Module aims

To introduce students to the practice of computational modelling in Psychology.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Purpose of computational modelling; tools for computational modelling; describing computational models; assessing and comparing computational models; reporting results of computational modelling; detailed specific examples of computational models, drawn (on a non-fixed basis) from language, memory, perception, attention, categorization etc., to illustrate critical points in the above.

Learning outcomes

By the end of the module, students should be able to:

- Understand the purpose of computational modelling in Psychology.
- Be able to simulate, assess, and report (some) computational models in Psychology.

Indicative reading list

TBC

Subject specific skills

Understanding of a range of computational modelling tools and the way these are used in Psychology.

Transferable skills

Effective communication of results
Computational skills

Study

Study time

Type	Required
Lectures	(0%)
Practical classes	20 sessions of 1 hour (20%)
Private study	10 hours (10%)
Assessment	70 hours (70%)
Total	100 hours

Private study description

material review and formative work

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Assessment group A5

	Weighting	**Study time**
Worksheet 1	50%	35 hours
Worksheet 2	50%	35 hours

Feedback on assessment

Annotated scripts.

Availability

Pre-requisites

It is expected that students will have undertaken PS923 or have an understanding of the R programming language.

Courses

This module is Optional for:

- Year 1 of TIMA-L981 Postgraduate Social Science Research