

IB9NB-15 Design Science Research Method

26/27

Department

Warwick Business School

Level

Taught Postgraduate Level

Module leader

Joe Nandhakumar

Credit value

15

Module duration

10 weeks

Assessment

100% coursework

Study location

University of Warwick main campus, Coventry

Description

Introductory description

The objective of the module is to familiarise the research student with design science research method and computational social science methods and tools, and to develop skills needed for conducting research whose aim is to invent methods and techniques for designing information systems that are effective and efficient.

Module aims

Students acquire skills in developing research proposals that follow the design research paradigm and learn how to public such research.

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.

The sessions cover:

- Introduction to design science research frameworks and Computational Social Science
- Examination of design science research covering topics such as theory building, research design, survey research, experimental research, and modeling research
- Detailed evaluation and critique of sample work in design science research
- Network Analysis
- Sequence Analysis
- Critical realism and big data
- Predictive Analytics with Machine Learning

Learning outcomes

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

- Increased understanding of theoretical and methodological issues for investigating design science research method.

Indicative reading list

[Reading lists can be found in Talis](#)

Subject specific skills

Understand theoretical and methodological aspects of design science research method.

Understand basic data science and computational methods.

Demonstrate ability to independently research a topic related to design science research method.

Transferable skills

Critically evaluate a range of complex information and competing theories and methods to formulate independent viewpoints.

Write clearly and succinctly, displaying a high level of conceptual understanding, and with appropriate use of referencing.

Study

Study time

Type	Required
Seminars	10 sessions of 2 hours 30 minutes (32%)
Private study	53 hours (68%)
Total	78 hours

Private study description

Self study and reflective learning.

Costs

No further costs have been identified for this module.

Assessment

You must pass all assessment components to pass the module.

Assessment group A

	Weighting	Study time	Eligible for self-certification
Assessment component			
Individual assignment	100%	72 hours	Yes (extension)
Reassessment component is the same			

Feedback on assessment

Module leader feedback.

Availability

There is currently no information about the courses for which this module is core or optional.