

CS405 Hand-out list 2005-06

Hand-outs are listed in the week given out or the week to which they best apply. Those given out in the first lecture of a given week are generally listed first.

Week 1 (Lectures 0 and 1: 27, 28 Sep)

Double-sided sheet containing:

Interactive Environments Meurig Beynon

Interactive Environments and Empirical Modelling Steve Russ

Grand Challenge: Redressing the Past: liberating computing as an experimental science
Meurig Beynon and Steve Russ

Is Computing an Experimental Science? Robin Milner

Slides for Lecture 1 headed 'CS405 Introduction to Empirical Modelling' but with no hand-written lecture number.

Week 2 (Lectures 2 and 3: 4, 5 Oct)

Slides for Lecture 2 entitled (inappropriately) 'Empirical Modelling for Concurrent Systems'

Script for room.d (3pp)

Vehicle Cruise Control Simulation (8pp)

Slides for Lecture 3 'Definitive Notations and Modelling with Definitive Scripts'

Extracts from Jaratsri R.'s thesis (pp.33-41 and pp.67-89)

Week 3 (Lectures 4 and 5: 11,12 Oct)

Slides for Lecture 4 'Modelling with Definitive Scripts'

The Interpretation of States: A New Foundation for Computation? Meurig Beynon (RR 207)

Lecture 5 was a first instalment about the Coursework

Week 4 (Lectures 6 and 7: 18,19 Oct)

Document of Lecture 6 'A Perspective on Concurrent Systems'

No Silver Bullet: Essence and Accidents of Software Engineering Fred Brooks Jr.

Biting the Silver Bullet David Harel

Document of Lecture 7 'LSD for Agent Specification' (Former MSc lecture T2)

Stapled and headed 'Handout for Lecture 7' = Principles and VCCS example (6 pp)

Another stapled and headed 'Handout for Lecture 7' (landscape layout) being LSD examples of the Train protocol, Cat flap and Telephone

Week 5 (Lectures 8 and 9: 25,26 Oct)

Document of Lecture 8 'Empirical Modelling for the Single Agent'

Computer Programming for Noughts-and-Crosses: New Frontiers W.M. Beynon, M.S. Joy
APPENDIX for Lecture 8 (10 pp)

Lecture 9 was second instalment of material on Coursework

Week 6 (Lectures 10 and 11: 1,2 Nov)

Document of Lecture 10 'Concurrent Systems Modelling: Agentification, Artefacts, Animation'

Worlds Before and Beyond Words Meurig Beynon, Paul Ness, Steve Russ

Document of Lecture 11 'The Abstract Definitive Machine'

Diagram of the Abstract Definitive Machine (single sheet)

Handout for Lecture 11 = LSD Specification for a train arrival-departure protocol (duplicate, also given in Lecture 7 as part of group of three LSD examples)

ADM version of the train arrival-departure protocol
(two stapled sheets)

ADM - the Abstract Definitive Machine (three stapled sheets)

Week 7 (Lecture on 8th cancelled, Lecture 12 on 9th Nov)

Slides for Lecture 12 'Human Computing'

Strategic Decision Support Systems: An Experience-Based Approach Suwanna Rasmequan, Chris Roe, Steve Russ

Man-Computer Symbiosis J.C.R. Licklider

Week 8 (Lectures 13 and 14: 15, 16 Nov)

Slides on Lecture 13 'Learning, Construction and Programming'

Heapsort scripts and commentary (4 sheets)

Empirical Modelling for Educational Technology W.M. Beynon

Computer Support for Constructionism in Context Meurig Beynon, Chris Roe

Enriching Computer Support for Constructionism Meurig Beynon, Chris Roe

Empirical Modelling Principles to Support Learning in a Cultural Context

Chris Roe and Meurig Beynon

Slides on Lecture 14 'Systems Development and Empirical Modelling'

Rethinking Programming W.M. Beynon, R.C. Boyatt, S.B. Russ

Formal Specification from an Observation-oriented perspective M.Beynon, J. Rungrattanaubol and J.Sinclair

Two Lessons of Logic...Brian Cantwell-Smith

Single sheet headed '2. Situational, explicit, mental and internal aspects of state' (extract from paper 069)

