

Code: 1317 Analysis and Modelling of Agricultural Systems**Degree:** 2nd cycle – Agriculture**Stream:** Agriculture and Animal Production; Agricultural and Environmental Economics and Rural Development**Curricular Year:** 2nd**Semester Course:** 1st**Credits:** 6 ECTS**Compulsory** (Agriculture and Animal Production)**Language:** Portuguese/English**Optional** (Agricultural and Environmental Economics and Rural Development)**Responsible:** Pedro Jorge Cravo Aguiar Pinto**Other lecturer(s):** -**Web Site:** <http://www.isa.utl.pt/home/node/3787>**1. Contact hours:****Lecture/Practicals 70 Others 14 Total 84****2. Objectives:**

Consolidation of a systems approach to agricultural reality

Building simple models on selected case studies using friendly software

3. Programme:

1. The systems approach
2. Systems and models
3. Elementary modelling using “Stella”
4. Case studies
5. Public presentation of the work done

4. Bibliography:**Main Bibliography**

Systems Thinking, System Dynamics: Managing Change and Complexity, Second Edition

Author(s): Kambiz Maani, Robert Cavana

Publisher: Pearson Education NZ (2007)

5. Assessment:

Case study written report (30%)

Oral presentation (30%)

Participation in the presencial sessions (40%)

6. Estimated Workload:

168	Hours
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7. Last Update:

19/7/2010
