

Code: 1561 Agricultural and Agroforestry Tropical Systems**Degree:** 2nd cycle – Tropical Agriculture and Sustainable Development**Curricular Year:** 1st**Semester Course:** 2nd**Credits:** 6 ECTS**Compulsory****Language:** Portuguese/English**Responsible:** Bernardo Manuel Teles de Sousa Pacheco de Carvalho**Other lecturer(s):** -**Web Site:** <http://www.isa.utl.pt/home/node/3738>**1. Contact hours:****Lecture/Practicals 70 Others 14 Total 84****2. Objectives:**

To provide technical skills in the areas of Tropical Agriculture and Development knowledge, providing capability to better understand tropical environment and less developed countries and to manage tropical production systems. The characterization of the systems and sub-systems, respective analysis and capability to relate with the overall management of the agribusiness rational and also family based unities in tropical environment is crucial. The international trade and relationships involved in cooperation and development interventions will also be addressed. Case study methodology will also be used frequently.

3. Programme:

The study and program will consider the following areas:

- 1) The study of tropical agronomy today should always consider the need for a systems perspective. Nowadays the recognition of the need for a systemic analysis and intervention are quite common in most of the scientific fields with pragmatic orientation;
- 2) In the tropics, agriculture is even more complex then in other areas being essential to have background in management and development processes;
- 3) The need for a basic knowledge of management and administration of rural business should be well balanced with the capabilities to implement, analyse and develop activities in the tropics, taking into consideration the knowledge of tropical systems in biophysical terms and in social and human environments in tropical less developed countries;
- 4) Case studies are also essential to provide expertise in analysing and preparing projects for the tropical agricultural areas.

4. Bibliography:**Main Bibliography**

- Raeburn, J.R., 1984. Agriculture: Foundations, Principles and Development. Editado por John Wiley & Sons Ltd., Nova York
- Spedding, C.R.W. 1975. The Biology of Agricultural Systems. Editado por Academic Press, London.
- Moigne, Jean Louis le, 1990. La Théorie du Système Général. Editado por Presses Universitaires de France, Paris.
- Houck, J. 1986. Elements of Agricultural Trade Policies. Macmillan Publishing Company, London.
- Edwards, C.A. et al (editores), 1990. Sustainable Agricultural Systems. St.Lucie Press. Florida.

Other Bibliography

- Gittinger, J.P. (1982). Economic Analysis of Agricultural Projects. EDI Series in Economic Development. The Johns Hopkins University Press. Baltimore and London.
- Noronha, J. (1981). Projectos Agropecuários. Administração Financeira, Orçamentação e Avaliação Económica. FEALQ. Piracicaba. S. Paulo. Brasil.
- Abecassis, F. e N. Cabral. (1991). Análise Económica e Financeira de Projectos. Serviço de Educação. Fundação Calouste Gulbenkian. Lisboa
- SEDGES – Série de Estudos de Desenvolvimento e Gestão de Sistemas. Vários números. Edição Do CIAT-CD/REDIS – Centro de Agronomia Tropical – Cooperação e Desenvolvimento. ISA. Lisboa.

5. Assessment:

To be defined, using continuous methodology, tests and thematic reviews.

6. Estimated Workload:

168 Hours

7. Last Update:

16/7/2010