

**Code: 1478 Tropical Agricultural Production****Degree:** 2<sup>nd</sup> cycle – Tropical Agriculture and Sustainable Development; Food Science and Engineering**Stream:** Food Science and Engineering – Food Processing**Curricular Year:** 2<sup>nd</sup>**Semester Course:** 1<sup>st</sup>**Credits:** 6 ECTS**Optional****Language:** Portuguese/English**Responsible:** Bernardo Manuel Teles de Sousa Pacheco de Carvalho**Other lecturer(s):** -**Web Site:** <http://www.isa.utl.pt/home/node/3746>**1. Contact hours:****Lecture/Practicals 70 Others 14 Total 84****2. Objectives:**

To provide technical specialized education on tropical agricultural production in the tropics, with expertise in management of tropical production systems and knowledge about economic development process. To developed skills into the analysis and interpretation of the reality on less developed countries, possible development models application and knowledge to understand the production systems, from a biological, physical context but also from the point of view of human relationships and consumption behaviour. The ultimate goal is to provide ability to act on value chain creation along the product cycle and to promote sustainable development.

**3. Programme:**

Environmental characterization with clear identification of the production constraints in tropical regions. Main production principles on tropical production systems and main crop and animal production systems characterization. Historic background of the Tropical Agronomy Scientific Area an its organization today.

Traditional subsistence production Systems vis-à-vis Commercial Production Systems. Main Crops of economic interest in tropical regions, origin, distribution, local consumption and international flows. Food chain and value creation for the main crops, with close description of the technical itinerary. Post harvest technology, commercialization and international trade. Food Security, biotechnologies and sustainable development. Agribusiness and respective interactions with production and consumption. Food policies and education (nutritional and other) for an improved educational system and better quality of life.

Sustainable development, induced inovation and technological and institutional changes.

**4. Bibliography:****Main Bibliography**

Hayami, Y e Vernon Ruttan, (1985). Agricultural Development: An International Perspective. The Johns Hopkins Un iversity Press, Baltimore e Londres.

Several numbers of CTA – Technical Center for Agricultural and Rural Cooperation (ACP-EU).

**Other Bibliography**

SEDGES série – Série de Estudo e de Gestão de Sistemas, edited by CIAT-CD/Secção de Agronomia Tropical.

**5. Assessment:**

Continuous Evaluation and test – Final Exam

**6. Estimated Workload:**

168	Hours
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**7. Last Update:**

16/7/2010
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