

**Code: 1584 Energy Crops****Degree:** 2<sup>nd</sup> cycle – Bioenergy Systems Engineering**Curricular Year:** 1<sup>st</sup>**Semester Course:** 2<sup>nd</sup>**Credits:** 6 ECTS**Compulsory****Language:** Portuguese/English**Responsible:** Pedro Jorge Cravo Aguiar Pinto**Other lecturer(s):** -**Web Site:** <http://www.isa.utl.pt/home/node/3918>**1. Contact hours:****Lectures 30 Practicals/Laboratory 40 Others 14 Total 84****2. Objectives:**

Knowledge of crops with a bioenergy potential, their ecophysiology and their cultural practices

**3. Programme:**

Introduction

Management of productivity in agricultural crops

- Carbon and water economy
- Photosynthetic capacity
- Growth
- Assimilate partitioning, morphology and phenology
- N uptake

Productivity management in energy crops

- Case studies with energy crops randomly assigned to students

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

N. El Bassam (Author) 2010. Handbook of Bioenergy Crops: A Complete Reference to Species, Development and Applications

**5. Assessment:**

Evaluation of in-class and home assignments

Individual presentation of a case study

**6. Estimated Workload:**

168 Hours

**7. Last Update:**

21/7/2010