

Code: 1661 Plant Biology**Degree:** 1st cycle - Biology**Curricular Year:** 2nd**Credits:** 8 ECTS**Language:** Portuguese/English**Prerequisites:** Cell Biology**Responsible:** Maria Wanda Sarujine Viegas**Other lecturer(s):** Ana Cristina Delaunay Caperta, Ana Maria da Silva Monteiro, Maria Dalila Paula Silva L. Espírito Santo, Maria da Glória Calado Inglês Esquível, José Carlos Augusta da Costa, Maria Leonor Mota Morais Cecílio, Manuela Gomes da Silva, Maria Margarida Cabrita Xavier Delgado and Sara Barros Queiroz Amâncio**Web Site:** <http://www.isa.utl.pt/home/node/3952>**Semester Course:** 1st**Compulsory****1. Contact hours:****Lectures 42 Practicals/Laboratory 42 Others 28 Total 112****2. Objectives:**

To gain a basic understanding on the origin and evolution of terrestrial plants
To develop concepts concerning the factors leading to the great diversity among plants
To understand plant adaptations that allow their survive on distinct environments

3. Programme:

Hormone action in plant development
Embryogenesis and meristems
Cell growth and elongation of primary cell wall
Vegetative anatomy: structure and evolution of vegetative organs
Plant reproductive anatomy: floral structure and evolution
Plants reproductive ecology
Polyploidy and Plant Evolution
Apomixy and Plant Evolution
Genetic mechanisms of self-incompatibility
Bioindicator species of the Portuguese flora
Natural habitats and species of central Portugal. Protection status. Methods for evaluation of a habitat degree of conservation
Plant communities and landscape

4. Bibliography:**Main Bibliography**

Raven PH, Evert RF & Eichhorn SE 2005. Biology of Plants. 7^a Ed. W.H. Freeman and Companys Worth Publishers
Campbell, N.A. and Reece, J.B. 2005 Biology . Benjamin Cummings

Other Bibliography

Moore R, Clark WD, Stern KR & Vodopich D 1995. Botany. WCM Publishers. London

5. Assessment:

Evaluation requires several mandatory parameters such weekly questionnaires, presentation of a research theme and two mid-term examinations. When the final average classification is more than 12/20, with both mid-term examinations exceeding 10/20, students are exempted of final examination.

6. Estimated Workload:

224	Hours
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7. Last Update:

30/9/2011
