

**Code: 1779 Steep Slope Viticulture****Degree:** 2<sup>nd</sup> cycle – Viticulture and Oenology**Curricular Year:** 2<sup>nd</sup>**Credits:** 3 ECTS**Language:** Portuguese/English**Prerequisites:** Viticulture**Responsible:** Rogério Albino Neves de Castro**Other lecturer(s):** Jorge Queiroz (UP)**Web Site:** <http://www.isa.utl.pt/home/node/3914>**1. Contact hours:**

Lecture/Practicals 35 Others 3 Total 42

**2. Objectives:**

To know the main regions of mountain grape growing of the world.

To understand the specificities of training systems and installation of the vine in Mountain Grape growing. To understand the measures to take in order to reduce erosion in Mountain Grape growing and alternative forms of soil maintenance.

**3. Programme:**

Main regions of Mountain Viticulture in the winegrowing world. Hillside systematization for vine planting in Mountain Viticulture. Specific training systems in Mountain Viticulture. Control of erosion and soil maintenance.

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

CASTRO, R.; CRUZ, A.; MAGALHÃES, A.; GUIMARAENS, D.; SOUSA, M.; ABADE, E., CUNHA, M. &amp; QUEIROZ, J. (2007) – “Training of grapevines in narrow terraces: cv Touriga Nacional, Douro region”. XV èmes Journées GESCO (Grupo de Estudos dos Sistemas de Condução da Vinha), Porec, Croatia

MAGALHÃES, A. (2002). A construção de patamares de uma linha em encostas com mais de 40% de declive. Boletim Informativo da CIRDD. II Trimestre, nº10, Régua.

GUIMARAENS, D. and MAGALHÃES, A. (2006). Soil erosion protection using three different planting models on the slopes of the Douro Valley. Primo Congresso Internazionale Sulla Viticoltura di Montagna e in Forte Pendenza, CERVIM, Saint-Vicent (Vallée d'Aoste).

CASTRO, R., MOTA, T., GARRIDO, J. e CAMPELO, J. (1998). Alternatives de conduite pour les vignes en forte pente dans la région des "Vinhos Verdes". 10 èmes Journées GESCO, Changins, 224 - 227.

QUEIROZ, J.; CUNHA, M.; MAGALHÃES, A.; GUIMARAENS, D.; SOUSA, M. e CASTRO, R. (2008a). “Narrow terraces and alternative training systems for steep sloop viticulture - Douro region”. VIIth

QUEIROZ, J.; CUNHA, M.; MAGALHÃES, A.; GUIMARAENS, D.; SOUSA, M.; BORGES, L. &amp; CASTRO, R. (2009). “Mountain viticulture and new training systems in narrow terraces - Douro region”. 16th International GIESCO Symposium, 2009, 487-492 – University of California, Davis, USA.

**Other Bibliography**

SOUSA, M.; AZEVEDO, J.; PEREIRA, J.; CRUZ, A.; CASTRO, R. (1998) - “Cépages nobles du Douro. Conditionalismes du porte-greffe et de l'écosystème.”, XXIII Congresso Mundial da Vinha e do Vinho, Junho, Lisboa. Vol. I – Viticulture, p. 51-57.

SOUSA, M.; CRUZ, A.; PEREIRA, J.; CASTRO, R. (1999) – “Cépages nobles du Douro. Conditionalismes du porte-greffe et de l'écosystème. Cépages Tinto Cão, Touriga Nacional, Viosinho et Gouveio”, 11<sup>as</sup> Jornadas GESCO (Grupo Europeu de Estudos dos Sistemas de Condução da Vinha)**5. Assessment:**

Evaluation in a final examination.

6. Estimated Workload:

84 Hours

7. Last Update:

8/2/2011