

Name of the subject: PLANT PHYSIOLOGY (Lic. Biology)

Coordinator: M Manuela Chaves

Other Lecturers: João Santos Pereira, Amarilis Varennes, Ricardo Ferreira, Sara Amâncio, M Glória Esquível

Pre-required subjects: Biology; General Chemistry and Biochemistry

Number and type of classes: 2 theoretical classes of 1,50h; 1 practical of 4,00h, every two weeks

Programme	Duration (hours)	Lectures
Introduction –understanding plant functioning and its interaction with the environment	1,5	M M Chaves
Water absorption and transport in plants. Plant water relations.	6	JS Pereira
Absorption and translocation of solutes in plants	4,5	A Varennes
Phloem translocation. Mechanisms of loading and unloading of photoassimilates. Sources and sinks in plants.	1,5	M M Chaves
Photochemical reactions of photosynthesis	3,0	M M Chaves
Energetics of respiration and photosynthesis	3,0	R Ferreira
CO ₂ fixation and photosynthetic metabolism	6,0	R Ferreira
Metabolism of nitrogen and sulphur	3,0	S Amâncio
Metabolic and environmental limitations to photosynthesis and growth	3,0	M M Chaves
Photoassimilate export to reserve organs	3,0	M G Esquível
Receptors and signals in plant development.	3,0	S. Amâncio
Hormones: classical and emerging compounds	4,5	M G Esquível