

General Information			
Course name and code	Light and Electron Microscopy Techniques ÚBEV/MEM1/99	ECTS Credits	3
		Semester	1st (Winter) Bachelor Degree
Aims			
The aim of the subject is to provide the students with the methods used in light and electron microscopy on the theoretical as well as the practical level.			
Contents			
Specimen preparation for microscopy. Fixation. Embedding. Sectioning. Staining. Immunohistochemistry/immunofluorescence. Light microscope. Fluorescent Microscope. Confocal Microscope. Electron microscope: transmission and scanning electron microscopy.			
Assessment Methods and Criteria			
Oral exam Grading Scale (in %): A ... 100 - 91%, B ... 90 - 81%, C ... 80 - 71%, D ... 70 - 61%, E ... 60 - 51%, Fx ... < 51% Grading System: The University recognises the following six degrees for the evaluation of the study results: a) A – excellent (excellent results) (numerical value 1) b) B – very good (above average results) (1.5) c) C – good (average results) (2) d) D – satisfactory (acceptable results) (2.5) e) E – sufficient (results meet the minimum criteria) (3) f) FX – failed (requires further work) (4)			
Bibliography			
Bancroft, J. D., Steven, A.: Theory and practice of Histological Techniques. Churchill Livingstone, 1977. Hibbs, A.R.: Confocal Microscopy for Biologists: An Intensive Introductory Course, 3rd Edition, 2000, BIOCON, Ringwood East, Australia. Wischnitzer, S.: Introduction to Electron microscopy. Cambridge University Press, 1982 Internet sources.			