General Information			
Course name and	Cytogenetics and Karyology	ECTS	4
code	UBEV/CK1/03	Semester	2nd (Summer)
			Master & Doctoral
			Degree
Aims			
To gain knowledge and experience in genetic processes at the cell level using the			
newest scientific findings of cytogenetics and moleculoar cytology. To get			
acquainted in detail with the results comming from human genome mapping.			
Contents			
Organisation of eukaryotic genome. Nuclear skeleton. Nucleolus, nucleolar skeleton.			
Chromatin structure and changes of chromatin. Levels of DNA organisation in cell			
cell cycle. Genetic regulation of cell differentiation. Apoptosis. Telomeres and			
function of telomerase. Molecular cytology. Basic characteristics of the Human			
genom project - what we can learn from it?			
Assessment Methods and Criteria			
Written tests, protocols, oral examination.			
Grading Scale (in %): A 100 - 91%, B 90 - 81%, C 80 - 71%, D 70 - 61%, E 60 - 51%,			
Fx < 51%			
Conding Suctors:			
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)			
d) D – satisfactory (acceptable results) (2.5)			
e) E – sufficient (results meet the minimum criteria) (3)			
f) FX –failed (requires further work) (4)			
Bibliography			
Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher, New York 1992			
Periodicals.			
Internet sources.			