

General Information			
Course name and code	Human Genetics ÚBEV/GC1/01	ECTS Credits	5
		Semester	2nd (Summer) Master & Doctoral Degree
Aims			
To provide students with a basics of human genetics, with the role of genetic factors in pathologic processes, with the inheritance, diagnostics and treatment of genetic disorders.			
Contents			
<p>The genetic basics of physiological variability and pathological traits of individuals; the patterns of inheritance and pedigree problem solving; the basic methods used in human genetics - genealogy, linkage analysis and the gene mapping, cytogenetic analysis and karyotyping, the DNA diagnosis of pathological traits and treatment of genetic disorder.</p> <p><b>Prerequisites: Genetics, Molecular Biology.</b></p>			
Assessment Methods and Criteria			
<p>Test and oral examination.</p> <p>Grading Scale (in %): A ... 100 - 91%, B ... 90 - 81%, C... 80 - 71%, D... 70 - 61%, E ... 60 - 51%, Fx ... &lt; 51%</p> <p>Grading System: The University recognises the following six degrees for the evaluation of the study results:</p> <ul style="list-style-type: none"> <li>a) A – excellent (excellent results) (numerical value 1)</li> <li>b) B – very good (above average results) (1.5)</li> <li>c) C – good (average results) (2)</li> <li>d) D – satisfactory (acceptable results) (2.5)</li> <li>e) E – sufficient (results meet the minimum criteria) (3)</li> <li>f) FX –failed (requires further work) (4)</li> </ul>			
Bibliography			
<p>Thompson JS, Thompson MW (2001): Genetics in Medicine 6/e. W.B.Sounders Company, Philadelphia, Pennsylvania, USA</p> <p>Lewis R (2010) Human Genetics: Concepts and Applications, 9th Edition, McGraw-Hill, New York</p>			