

Subject	BASICS IN HUMAN GENETICS								
Study programme	Three-year professional studies for graduated medical nurse/technician								
Code	CM C/T 214								
Study year	Second (II)								
Semester	Third (III)								
Lessons in total	10								
Credits	0.5								
Type of subject	Mandatory								
Requirements	Fulfilled condition for enrollment in second study year								
Executor	Cathedra of pediatrics, Cathedra of immunology and Cathedra of gynecology								
Responsible professor	Prof. d-r Mirko Spiroski								
Address	Institute for imunobiology and human genetics, Medical faculty, 1109 Skopje, PP 60, tel. +00389 2 3110556; fax +389 2 3110558 email: mspiroski@medf.ukim.edu.mk								
Key words	Studies for medical nurses and technicians, basic subjects, introduction in human genetics								
Learning objectives	<p>Obtaining the knowledge for basics of molecular biology and genetics with special attention to:</p> <ul style="list-style-type: none"> <li>• Their use in medical diagnostics</li> <li>• Occurrence and recognition of congenital and inherited diseases</li> <li>• Gene therapy</li> </ul>								
Short contents	<ul style="list-style-type: none"> <li>• Genome structure: structure and function of chromosomes, RNA, DNA, replication, recombination, transcription and gene regulation, Inheritance: mechanisms of inheritance, Mendel genetics, genetic diseases, genetic diagnosis, cancer genetics. Genetics and society: recombinant cloning of DNA, gene therapy. Basic principles in genetics</li> </ul>								
Organisation	Theoretical training : 10 lectures								
Learning methods	Interactive lectures (seminars)								
Provided study results	<p>Knowledge and understanding:</p> <p>The student will acquire knowledge and understanding of basic principles in genetics in recognition, diagnosis and approach to congenital and inherited diseases.</p> <p><b>Key skills:</b></p> <p>The student will be trained to recognize congenital and inherited diseases.</p>								
Specific recommendation for training	<p>Student is obliged to follow all planned activities, including participation in continuous checking of knowledge to receive the signature</p> <p>Scoring of the student's activities:</p> <table border="1"> <thead> <tr> <th>Activity</th><th>Scoring</th></tr> </thead> <tbody> <tr> <td>Theoretical education*</td><td>20-40</td></tr> <tr> <td>Continuous checks -1</td><td>40-60</td></tr> <tr> <td>Total</td><td>60-100</td></tr> </tbody> </table>	Activity	Scoring	Theoretical education*	20-40	Continuous checks -1	40-60	Total	60-100
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	<p>*Attendance in theoretical training</p> <p>51-60% - 5 points</p> <p>61-70% - 8 points</p> <p>71-80% - 10 points</p> <p>81-90% -12 points</p> <p>91-100% - 15 points</p> <p>* shown activity during teaching classes - 15-25 points</p>
Checking the knowledge	<p>Continuous checks of knowledge (colloquium )</p> <p>It is required that student should attend the classes regularly to acquire the continuous check exam. The check is mandatory (test with multiple choice) It is mandatory that the student should attend the continuous check; otherwise he will not get a signature at the end of the semester. The student is obliged to obtain minimum points (60%) from the continuous check; otherwise he will attend the complete exam.</p> <p>Final exam: there is none</p> <p>Complete final exam: this is exam from the colloquium that has not been passed. If the student don't pass failed colloquium, the complete exam shouldn't been evaluated.</p> <p>Establishment of the final grade:</p> <p>The grade for the whole exam will be established by the table previous grades, on the basis of the score of points acquired from all activities, including continuous check.</p> <p>Part-time studies</p> <p>The program is 40% of previously described theoretical and practical training.</p> <p>The exam will take place during regular exam sessions and is composed of:</p> <p>-test with multiple choice</p> <ul style="list-style-type: none"> <li>• The grade for the whole exam will be constructed according grade table, based on the sum of points from all activities.</li> </ul>
Teaching aids	<p>Basic</p> <ul style="list-style-type: none"> <li>• Authorized materials from the lecturers</li> </ul>