| CodeSF-123Study yearFirstSemesterSecondTotal hours35Credits2Type of subjectObligatoryPrerequisitesNonePerform byCathedra of biochemistryResponsible<br>professorDoc. d-r Svetlana Cekovsl   | udies for graduate physioterapeutic  |  |
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| Perform byCathedra of biochemistryResponsible<br>professorDoc. d-r Svetlana Cekovsk   |  |  |
| Responsible<br>professorDoc. d-r Svetlana Cekovsl   |  |  |
| professor   | Doc. d-r Svetlana Cekovska   |  |
| *   |  |  |
|   | Institute of medical and experimental biochemistry<br>Medial faculty, 50 Divizija 6, 1000 Skopje, tel. +389 2 3230<br>431  |  |
|   | Studies for physioterapeutics, basic subjects, biochemistry  |  |
| Aims of the subjectGaining basic knowledge<br>human organism  | Gaining basic knowledge of biochemical mechanism in  |  |
| Short content Teoretical lesssons:  | Teoretical lesssons:   |  |
| and carbohydrates<br>Properties and funkoenzymes and how<br>Metabolism of provide<br>Metabolism of wa<br>Acid-base equilibries<br>Seminars:<br>Biochemistry (10 hours)<br>Proteins of blood<br>imunoglobulins, b<br>Biochemical chara<br>function<br>Haemoglobin: strudetermination | e of proteins, nucleic acids, lipids<br>actions of: vitamins, enzymes,<br>prmones<br>oteins, lipids and carbohydrates<br>ter and electrolytes<br>rium maintenance in organism<br>plasma (albumins, globulins,<br>lood coagulation factors<br>acteristics of hepar and rens |  |
| - 8   | Teoretical education: 25 hours   |  |
|   | Seminars: 10 hours   |  |
| Methods of learning Lectures, seminars  | anding   |  |
| mechanism in organism. T  | Vledge about basic biochemical<br>The student will also achieve<br>ophysics principles of diagnostic   |  |

| ~               | Key skills:<br>Student will be enabled for application of knowledge from<br>biochemistry and biophysics in other medical subjects<br>overcome.  |         |  |
|-----------------|---|---------|--|
| Specific        | It is obligatory for student to follow all provided activities,   |         |  |
| recommendations | including participation in continuous checking of   |         |  |
| for education   | knowledge to get a sign.<br>Appraisal of student's activity:  |         |  |
|                 |   |         |  |
|                 | Type of activity  | Points  |  |
|                 | Teoretical education*   | 7.5-15  |  |
|                 | Seminars  | 22.5-30 |  |
|                 | Continous checking-2  | 30-55   |  |
|                 | Total   | 60-100  |  |
|                 | <ul> <li>51%-60% - 5 points;</li> <li>61%-70% - 6 points;</li> <li>71%-80% - 7 points;</li> <li>81% -90% -8 points;</li> <li>91%-100% - 10 points.</li> </ul> Prerequisite criteria: Student should visits theoretical lessons and seminars regularly to get a sign and approach to continous checking. Continous checkings are written and are performed after lessons and seminars completion for each part separately. The mark for total exam is formed according the table of marks, according the sum of points achieved from all activities, including continous checkings. The student is obligate to achieve minimum points (60%) from continous checkings, on contrary, should go on complete exam. Complete final exam: The exam is written. It consists from continous checkings of those parts in which students didn't achieve enough points. |         |  |
|                 |   |         |  |
|                 |   |         |  |
| Textbooks       | <ul> <li>Main:</li> <li>Chosen chapters from S.Dzhekova-Stojkova and col.<br/>Biochemisry, 1999.</li> <li>B. Todorova. Textbook for practical exercises of<br/>biochemistry. Medical faculty.</li> </ul>  |         |  |