Course description

Part 1

General information about the course	
1. Major of study: medicine	**2. Study level:** unified MSc **3. Form of study:** intramural
4. Year: III	**5. Semester**: V
6. Course name: Biochemistry with elements of chemistry V	
7. Course status: required	

8. Course objectives

1. Student uses modern analytical techniques that can be used to evaluate the patient's condition.
2. Student knows basic biochemical processes in the body and knows how to correlate them with the state of the patient.
3. Student interprets the function and regulation of the metabolism of carbohydrates, proteins, lipids, and nucleic acids in physiological conditions as well as the changes that occur in disease.
4. Student knows the most common metabolic diseases and disorders. Student has the ability to identify potential targets of therapy and therapeutic activities

Learning outcomes / reference to learning outcomes indicated in (underline as appropriate):
education standards (Regulation of the Ministry of Science and Higher Education) / Resolution of the Senate of the Medical University of Silesia (indicate terms specified in education standards / signs of learning outcomes approved by the Resolution of the Senate of the Medical University of Silesia)
For knowledge student knows and understands:
B.W10.;B.W11.;B.W12.;B.W13.;B.W14.;B.W15.;B.W16.;B.W17.;C.W.34.;C.W.47.;C.W48.;C.W49.;C.W51.
For skills student can do: B.U3.;B.U6.;B.U8.;B.U9.
For social competencies student is ready to:
formulate conclusions based on own measurements or observations,
implement the principles of professional behavior and cooperation in a multicultural team,
communicate and cooperate with colleagues during experiments.

9. Number of hours for the course	**120**	**10. Number of ECTS points for the course**	**10**
11. Form of evaluation: exam			

12. Methods of verification and evaluation of learning outcomes

Learning outcomes	Methods of verification	Methods of evaluation*/ credit
Knowledge	Grade credit – MCQ	*
Skills	Observation	*
Competencies	Observation	*

***** For exams and grade credits the following evaluation system has been assumed:

Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level
Better than good (4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level

Good (4,0) – the assumed learning outcomes have been achieved at the required level
Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level
Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level
Unsatisfactory (2,0) – the assumed learning outcomes have not been achieved