DESCRIPTION OF THE COURSE OF STUDY
FOR EXCHANGE STUDENTS

Name of the course in	English	**Analitic Geometry**
	Polish	**Geometria analityczna**

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1 Field of study	**Mathematics**
1.2 Level of study	**Undergraduate (Bachelor)**

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1 Language of instruction	**English**
2.2 Semesters in which the course of study is offered	**Spring**
2.3 ECTS credits	**4**

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	**Lecture, classes**
3.2. Form of assessment	**Exam (lecture), assessment (classes)**

4. OBJECTIVES AND SYLLABUS CONTENT

4.1. Course objectives

C1. Introduction to basic knowledge of analitic geometry.
C2. Learn and understand the standard form for the equations of line, of plane and quadratic curves.
C3. Developing the ability to use basic notions and facts of analitic geometry.
C3. Making the habit of learning, improving one's own work technique.

4.2. Detailed syllabus

1. Vectors in three-dimensional space, different products of vectors.
2. Equations of line in a plane.
3. Equations of planes.
4. Equations of line in a space.
5. Quadratic curves, circles and elipses.
6. Hyperbolas and parabolas.
7. Conics in general, conic sections and Dandelin spheres.
8. Transformations of coordinates.