Course title: **GIS in space management**

ECTS credit allocation (and other scores): 4

Semester: autumn

Level of study:ISCED-6 - first-cycle programmes (EQF-6)

Branch of science:Engineering and technology

Language: English

Number of hours per semester: 30

Course coordinator/ Department and e-mail: dr inż. Marek Ogryzek /marek.ogryzek@uwm.edu.pl

Type of classes:classes

Substantive content

CLASSES: Exercises include creating relational databases for space management and presentations cartographic with the use of these databases. Basic rules for performing spatial analyzes on the needs of space management, planning and development, assessment and valorization of space. The content The exercises also include the use of tools for searching and categorizing information contained in the databases data and an introduction to geospatial analyzes.

Learning purpose: The primary goal of education is to create data for existing maps. Basics of performing analyzes spatial planning for the purposes of spatial planning, assessment and valorization of space, management space. An important goal of education is also the ability to present reality on the map in in the form of value maps (economic, aesthetic and physical), as well as building databases to be implemented the above purposes.

On completion of the study programme the graduate will gain:

Knowledge: The student knows the methods and tools, including techniques of obtaining data necessary to conduct analyzes spatial and allowing to describe processes and relationships occurring in social structures and economic.

Skills: The student can use to formulate and solve tasks in the field of spatial engineering or property consultancy, analytical, simulation and experimental methods.

Social Competencies: The student Can properly define the priorities for the implementation of the tasks set by himself or others the scope of shaping spatial systems

The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 65

Students independent work: 62