

Tárgy neve: Thematic data visualization methods L

Tárgyfelelős neve: Dr. Albert Gáspár

Tárgyfelelős tudományos fokozata: PhD

Tárgyfelelős MAB szerinti akkreditációs státusza: AT

Az oktatás célja:

a, knowledge

- Acquire knowledge of the history of cartography
- Learn the concepts, types and characteristics of data
- Knowledge in the types and characteristics of graphical representations and the methods to construct professionally correct thematic maps
- Interpret data (and maps) and draw conclusions

b, abilities

- Develops the graphic vision
- Ability to distinguish between reliable and unreliable data sources

c, attitude

- Accepts and adheres to the ethical principles of work and organizational culture, especially with regard to the copyright related to geoinformatics.
- Committed to adhering to and making others adhere to quality requirements.

d, autonomy and responsibility

- Independence regarding the thorough examination and elaboration of professional issues and processes.
- Feels responsible for meeting and making others meet the deadlines. He/she is responsible for his/her work and for his/her co-workers' work in projects.
- With his/her knowledge and skills of geoinformatics, he/she cooperates responsibly with professionals in other fields.

Az oktatás tartalma:

Topic and requirements of the semester. Literature and theory of thematic cartography. Cartographic generalization.

Overview of data representation techniques. Types of base maps.

History and development of thematic cartography.

Data sources, data types and their critical evaluation.

Characteristics of the field-specific thematic maps. Map types in Geosciences.

Maps of environmental, economic and social phenomena.

Thematic maps in education.

Thematic maps on special-purpose and in communication (e. g. maps in media).

Thematic atlases.

Colour theories. Maps in black and white.

Visualization of information. Relationship of graphic symbols and data representation.

Projections of thematic maps.

Thematic cartography in Geoinformatics.

Thematic maps on Internet.

Editing and processing errors on thematic maps.

A számonkérés és értékelés rendszere: practical course mark based on course work.

Kötelező irodalom:

- Dent, Torguson, Hodler: Cartography – Thematic Map Design. McGraw-Hill Education, 2008 ISBN: 9780697384959
- Slocum, McMaster, Kessler, Howard: Thematic Cartography and Geographic Visualization. Pearson, 2008. ISBN: 9780132298346

Ajánlott irodalom:

- Tyner, J.: Map Design. The Guilford Press, New York, 2010 ISBN: 9781462517121

- Peterson, G. N.: GIS Cartography. A guide to effective map design. CRC Press, 2015, ISBN: 9781482220674