Tárgy neve: Printing technology and bookbinding

Tárgyfelelős neve: Dr. Kerkovits Krisztián Tárgyfelelős tudományos fokozata: PhD Tárgyfelelős MAB szerinti akkreditációs státusza: AT

Purpose of education:

a) knowledge

- Comprehensive knowledge of the principles, methods and procedures for the design, development and operation of geoinformatics, in particular in the following areas: operating systems and database management, design and development of web-based geoinformatics tools and services, geoinformatics-related programming principles, geospatial application development.

- He/she has a complex knowledge of the general cartographic, geographic, mathematical and informatics principles, rules and interrelationships necessary for the practice of cartography and geoinformatics, in particular in the following subjects: surveying (geodesy, topography, remote sensing, photogrammetry), map construction and design, projection, thematic cartography, geovisualisation, geoinformatics, building geographic information systems.

- Ability to create maps and geoinformatics systems that can be used by economic sectors or clients in the desired field.

b) abilities

- Ability to interpret and formalise complex professional problems in the field of cartography and geoinformatics, to identify the necessary theoretical and practical background and to solve the problem. Ability to provide consultancy, problem-solving, design, development, operation and management of cartographic and geoinformatics systems, decision support systems and expert systems.

- Ability to interpret, plan, organise, manage and control processes in the field of cartography and geoinformatics.

- Ability to apply what has been learned in a diverse, multidisciplinary professional environment.

c) attitude

- It monitors professional and technological developments in the field of cartography and geoinformatics and the opportunities that will enable it to work in the public sector, in various companies or to set up and run its own business.

- Shares his/her own knowledge and values the dissemination of professional results in cartography and geoinformatics.

- It is committed to meeting and enforcing quality standards (accuracy, commitment).

d) autonomy and responsibility

- Able to work independently in IT, carrying out tasks, thinking through and developing technical issues in a self-directed manner and at a pace.

- Responsible for meeting and enforcing deadlines. Assumes responsibility for his/her own work and that of his/her colleagues working under his/her direction and with him/her (in a project).

- In the case of mission-critical mapping and geoinformatics systems, may be given development and operational responsibility appropriate with his/her professional competences.

Content of education:

A bried history of printing from the beginnings to present days. Letterpress (relief) printing, intaglio printing, lithography and offset printing. The CTP process. Paper types, paper production, printing screens, printing inks. Map-folding, atlas binding (stitching, gluing, spiral), embroidery, ejection, use of crop marks and overstroke, direct colours. Visiting a printing company.

Evaluation system: oral and/or written exam.

Literature: Obligatory:

- Lecture notes
- Kipphan, H. (2001): Handbook of Print Media. Springer, Berlin, ISBN 978-3540673266
- Abbott, K. (2012): Bookbinding: A Step-by-Step Guide, The Crowood Press, Ramsbury, ISBN 978-1847971535

Recommended:

• Ruder, E. (2006): Typographie: A Manual of Design. Arthur Niggli Verlag, Sulgen, ISBN 978-3721200436