| **1. Course title:** Analog Cartography | | | | |
| --- | --- | --- | --- | --- |
| **2. Code:** | | **3. Type (lecture, seminar, laboratory):** seminar | | |
| **4. Total of contact hours:** 26 hours | | **5. Number of credits (ECTS):** 3 | | |
| **6. Pre-requisites (max. 3):** none | | | | |
| **7. Announced:** ☐ autumn semester, ☒ spring semester, ☐ both semesters | | | | |
| **8. Limit for participants:** no | | | | |
| **10. Instructor-in-charge (faculty, institute and department):**  László NAGYVÁRADI, PhD (FS, Institute of Geography, Department of Cartography and Geoinformatics) | | | | |
| **11. Instructor(s) and percentage:** | | László NAGYVÁRADI | | % |
|  | |  |
|  | |  |
|  | |  |
| **12. Language:** English | | | | |
| **13. Course objectives and learning outcomes:**  *Aims:*  *1. To provide an understanding of the cartographical elements*  *2. To provide the type of the map scale*  *3. To apply the basic cartographical measuring*  *Knowledge:*  *On successful completion of this course students are expected to be able to/to have an understanding of/to be familiar with. The cartographical orientation, map sale use, map-reading.*  *Subject-specific skills: using the contour lines, measure the elevation, the distance and square*  *On successful completion of the course students are expected to be able to: the relief, settlement and water symbols on the topographic maps*  *assess/comprehend/comapare/understand/present/discuss/evaluate/judge/abstract/develop/critically engaged with map projection, logical map-reading even the thematic maps and atlases* | | | | |
| **14. Course outline / Milestones**  Week 1 Intro topographic maps scale:1:1000 – 1:100000  Week 2 Map projection, coordinate systems  Week 3 Orientation an topographic maps  Week 4 Topographic map sections numbers and it’s using  Week 5 Topographic map elements, relief: using contour lines and measuring the altitude  Week 6 Relief reconstruction with contour lines, topographic profile  Week 7 Colours and symbols: hydrology graph on topographic maps  Week 8 Colours and symbols: Settlements graph on topographic maps  Week 9 Colours and symbols: Roads and borders on topographic maps  Week 10 Colours and symbols: Vegetation on topographic maps  Week 11 Legend on topographic maps  Week 12 Settlements morphology analysis based on contour lines  Week 13 Position analysis with colours and symbols  Week 14 Practice summary, evaluation | | | | |
| **15. Mid-semester works**  Each week from the third week to the twelve week Midterm exam following the weekly thematic  1. map scale , 2.direction finding, 3. Position finding, 4. Area and volume measures, 5. surface analysis, 6. spatial patterns analysis, 7. Spatial association analysis, 8. topographic profile | | | | |
| **16. Summative assessment, formative assessment**  Evaluation is based on, eight midterm exams. Exams: both cartographical measuring and calculations. Grading percentages may vary according to the position of the Gauss curve, but the approximate ranges are the followings:  just less than 50% = 1  50 to 64.99% = 2  65 to 74.99% = 3  75 to 84.99% = 4  85+% = 5  Attendance at all activities will be monitored. Students who fail to attend the activities, or to complete the summative or formative assessment specified above, will not gain the credit for the course. | | | | |
| **17. Reading assignments:**   1. Map Use Ed. A. Jon Kimerling 2012 Esri Press New York | | | | |
| **18. Recommended texts:** | | | | |
| **Date** | 13 November, 2017 | **Prepared** |  | |
| László NAGYVÁRADI PhD  instructor-in-charge | |
| **Endorsed** | | |  | |
| András TRÓCSÁNYI PhD leader of the program | |