

| COURSE | | GEODETIC PLANS | | |
|--|---------------|------------------------------|----------------------------------|-------------|
| LECTURER | | Assist. Prof. Dr. Nedim Tuno | | |
| STUDY | STATUS | SEMESTER | NUMBER OF LESSONS L+E | ECTS |
| B – G | Compulsory | 3 | 1+3 | 3 |
| OBJECTIVES | | | | |
| Understanding the fundamental concepts and problems of creating and use of geodetic plans in analog and digital form. | | | | |
| LEARNING OUTCOMES | | | | |
| <ul style="list-style-type: none"> □ An understanding of plan properties, projections and scales. □ A thorough understanding of the grid system, mapping, and plan measurement. □ An ability to prepare data from primary and secondary sources for mapping. □ An understanding of plan and graph design principles. □ To be able to renew a plan. □ CAD representations of topographic and cadastral plans. □ Storing digital elevation data in the contour line structure. | | | | |
| COURSE CONTENT | | | | |
| <p>Geodetic plans and their classification. Basic elements of geodetic plans. Determination of plan scale. Projection and trigonometric sections. Geodetic plan sheets grid. Content and margins of plans. Standards and quality of plans. Cadastral plans. Methods of area computations. Topographic plans. Relief and its presentation on plans. Interpolation of contour lines. Contour lines characteristic. Contour lines equidistance. Geometric accuracy of plans. Accuracy of measurements on plans. Applications of geodetic plans.</p> <p>Application of computer technology in the production of digital plans. Hardware support. Graphic programs. Standards in the production of digital plans. Layers of geodetic data. Entities and attributes, their classification and encryption. Symbols. Digital plans as the basis for GIS. Digital relief model. Geodetic measurements needed for digital relief model. Software for drawing contour lines. Various calculations from digital data needed in geodetic practice and other professions.</p> | | | | |
| RECOMMENDED LITERATURE | | | | |
| <ol style="list-style-type: none"> 1. Živković, I. (1975): Topografski planovi, Naučna knjiga, Beograd. 2. Tuno, N. (2009): Geodetski planovi, unpublished manuscript. Građevinski fakultet, Univerzitet u Sarajevu, Sarajevo. | | | | |
| Examination: | | | | |
| <p>The mid-term exam and the end-of-term exam (assessment based on a written tests related to solving theoretical issues) are organized during the semester. Each theoretical exam is scored out of a maximum of 40 score points. The pass mark for each practical exam is 55 % (22 points). The total score is computed as a sum of the scores from the mid-term exam, the end-of-term exam and the score resulting from activities of the individual student's work during the semester (maximum of 20 points). If the student achieved a total of 55 or more points, the grade is formed in accordance to a scale prescribed by the Law on Higher Education.</p> <p>The students who do not achieve the required scores on the one of the semester exams, will be able to re-sit the examination in the subject they did not pass at the end of the semester, during the assigned examination period (the regular examination terms and makeup examination terms in January and February). The grade is formed under the same rules as in the previous case.</p> <p>The students who do not achieve the required scores on the both of the semester exams, can satisfy the assesment by passing integrated final exam (maximum of 80 score points, the pass mark is 55%) during the assigned examination period (the regular examination terms and makeup examination terms in January and February). The total score is computed as a sum of the scores from the integrated final exam and the score resulting from activities of the individual student's work during the semester (maximum of 20 points). If the student achieved a total of 55 or more points, the grade is formed under the same rules as in the previous cases.</p> <p>The students who do not achieve the required scores on the semester exams or final integrated exams in regular and makeup examination terms, can satisfy the assesment related to solving theoretical issues by passing the integrated supplementary written exam in September (maximum of 100 score points), with the score of 55% or higher. Final grade is formed in accordance to a scale prescribed by the Law on Higher Education.</p> | | | | |