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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | [**Faculty of Sciences and Mathematics**](http://wpresspmf.pmf.ni.ac.rs/?lang=en) |
| **GENERAL INFORMATION** |
| Study program  | **Geography** |
| Study Module (if applicable) | **Geography** |
| Course title | **Geometry** |
| Level of study | ☐Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☐ Elective |
| Semester  |  ☐ Autumn ☐Spring |
| Year of study  | **The first year** |
| Number of ECTS allocated | **6** |
| Name of lecturer/lecturers | **Ljubica Velimirovic**  |
| Teaching mode |  ☐Lectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| **The course aimsThe aim of the course is to introduce students to the elements of mathematics and geometry important for applications in Geography.OutcomeThe student will be familiar with basic geometric concepts and relations relevant for drawing maps, measurements in nature, determining the relationships of objects, etc. Elements of trigonometry, spherical geometry, analytic geometry and stereographic projections arebasic knowledge that will be adopted** |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **ContentsVectors and coordinate systemAffine transformation of coordinatesView analytic geometry in planeLine and planeLinear and affine transformationsTesting the curve of the second orderSurface-representation and tests, rectilinear, rotaryThe geometry of the spherePractical teachingExercise tasks in the field treated in lectures** |
| **LANGUAGE OF INSTRUCTION** |
| ☐Serbian (complete course) ☐ English (complete course) ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)☐Serbian with English mentoring ☐Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **15** | **Written examination** |  |
| **Practical teaching** | **/** | **Oral examination** | **40** |
| **Teaching colloquia** | **45** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |