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| Study programmes: Bachelor studies – Mathematics | | | |
| Course name: Geometry 1 | | | |
| Lecturers: Vladica Andrejic, Tijana Šukilović, Miroslava Antic, Ivan Dimitrijevic, Mirjana Djoric, Zoran Rakic, Srdjan Vukmirovic | | | |
| Status: Compulsory | | | |
| ECTS: 6 | | | |
| Attendance prerequisites: None | | | |
| Course aims: Acquisition of general and specific knowledge from analytical geometry of plane and space and elementary spherical geometry, development of geometric intuition and preparation for more complicated geometric courses. | | | |
| Course outcome: Upon completion of the course, a student has basic knowledge of the analytical geometry of plane and space and the geometry of sphere. He is qualified to apply the coordinate method in other courses. | | | |
| Course content: Concept and properties of vectors in the plane and space. Vector algebra. Coordinates. Linear geometry in plane and space. Quadratic geometry in plane and space. Maps in coordinates. Spherical geometry. | | | |
| Literature: N. Blazic, N. Bokan, Z. Lucic, Z. Rakic: <i>Analiticka geometrija</i> , Matematički fakultet, Beograd 2003 A. Lipkovski, <i>Linearna algebra i analiticka geometrija</i> , Beograd, 1978. M. Djoric, O. Milenkovic, <i>Zbirka zadataka iz analiticke geometrije</i> , Beograd, 1999. B. Rasajski, <i>Analiticka geometrija</i> , Naučna knjiga, Beograd, 1976. V. Andrejic, <i>Analiticka geometrija</i> , Lecture notes, 2017. | | | |
| Number of hours: 5 | Lecures: 2 | Tutorials: 3 | |
| Teaching and learning methods: Frontal | | | |
| Assessment (maximal 100 points) | | | |
| Course assignments | points | Final exam | points |
| Lectures | | Written exam | 40 |
| Exercises / Tutorials | | Oral exam | 30 |
| Colloquia | 30 | | |
| Essay / Project | | | |