

Course Unit Descriptor

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| Study Programme: Computer Science | | | |
| Course Unit Title: Introduction to Computer Graphics | | | |
| Course Unit Code: CS303 | | | |
| Name of Lecturer(s): Dragan Mašulović | | | |
| Type and Level of Studies: Bachelor Academic Degree | | | |
| Course Status (compulsory/elective): Elective | | | |
| Semester (winter/summer): Summer | | | |
| Language of instruction: Serbian (primary), English (secondary) | | | |
| Mode of course unit delivery (face-to-face/distance learning): Face-to-face | | | |
| Number of ECTS Allocated: 5 | | | |
| Prerequisites: Linear Algebra and Analytic Geometry | | | |
| Course Aims: In this course students shall acquire basic knowledge of computer graphics modeling and rendering techniques in 2D and 3D using OpenGL. | | | |
| Learning Outcomes: At the end of the course a successful student will be able to model elementary graphics objects and invoke basic rendering algorithms using OpenGL. | | | |
| Syllabus: <ul style="list-style-type: none"> • Overview of graphics systems • Graphics primitives and their attributes • Geometric transformations • 2D viewing • 3D viewing • 3D object representation • Visible-surface detection Illumination models and surface-rendering methods | | | |
| Required Reading: Hearn, Baker: "Computer Graphics with OpenGL", 3rd Ed., Pearson Education International, 2004 Foley, van Dam, Feiner, Hughes: "Computer Graphics - Principles and Practice", 2nd Ed, Addison-Wesley, 1996 | | | |
| Weekly Contact Hours: 5 | Lectures: 2 | | Practical work: 3 |
| Teaching Methods: Blackboard lectures, Blackboard exercises, Exercises in computer lab, working in small groups | | | |
| Knowledge Assessment (maximum of 100 points): | | | |
| Pre-exam obligations | points | Final exam | points |
| Active class participation | | written exam | |
| Practical work | | oral exam | 30 |
| Preliminary exam(s) | 30+40 | | |

| Seminar(s) | | | |
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| The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc. | | | |