

Specification for the book of courses

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|--|---|--|--------------------------------|----------------------|
| Study program | Electronics and Microsystems | | | |
| Module | Electronics and Microsystems | | | |
| Type and level of studies | Master studies | | | |
| The name of the course | Character Animation | | | |
| Lecturer (for lectures) | Pavlović D. Vlastimir | | | |
| Lecturer/associate (for exercises) | Pavlović D. Vlastimir | | | |
| Lecturer/associate (for OFE) | Pavlović D. Vlastimir | | | |
| Number of ECTS | 5 | Course status (obligatory/elective) | Elective | |
| Prerequisites | | | | |
| Course objectives | Presentation of modeling techniques for characters and skeletal systems in 3D animation. Description of character animation techniques. Recording and editing movements in 3D animation. | | | |
| Course outcomes | Students will be trained for character and skeletal systems modelling in 3D animation. They shall master character animation techniques, as well as recording and editing of movements. | | | |
| Course outline | | | | |
| Theoretical teaching | Polygonal modelling of a simple character. Making of a simple skeletal system. Making of controls. Character set. Character animation. "Motion capture" systems using Kinect. Programs for editing files with "captured motions". | | | |
| Practical teaching (exercises, OFE, study and research) | Modelling of characters and skeletal systems. Making of controls. Character set. Character animation. Motion capture using Kinect. Introduction to programs for editing files with "captured motions". | | | |
| Textbooks/references | | | | |
| 1 | Peter Ratner, "3-D Human Modeling and Animation", John Wiley & Sons, 2003. | | | |
| 2 | Steve Roberts, "Character Animation in 3D", Focal Press, 2004. | | | |
| 3 | Morgan Robinson and Nathaniel Stein, "Maya 8 - Visual QuickStart Guide", Peachpit Press, 2007. | | | |
| 4 | | | | |
| 5 | | | | |
| Number of classes of active education per week during semester/trimester/year | | | | |
| Lectures | Exercises | OFE | Study and research work | Other classes |
| 2 | 1 | 1 | | |
| Teaching methods | Lectures, exercises, consultations. | | | |
| Grade (maximum number of points 100) | | | | |
| Pre-exam duties | Points | Final exam | Points | |
| Activity during lectures | 20 | Written exam | | |
| Exercises | 20 | Oral exam | 40 | |
| Colloquia | | | | |
| Projects | 20 | | | |