

Study programme(s): Computer Science			
Level: BSc			
Course title: Software and Internet in Education			
Lecturer: dr Mirjana Ivanović			
Status: elective			
ECTS: 6			
Requirements: -			
Learning objectives Introduction to theory and practice of application of ICT and distance learning in education.			
Learning outcomes <i>Minimum:</i> Learning techniques of application of ICT and Internet in education. <i>Desirable:</i> Creative and sophisticated use of ICT and Internet in representation of learning theory, and its' practical use in everyday teaching.			
Syllabus <i>Theoretical instruction</i> Basic notions and definitions. Basic elements of electronic methodologies, didactics and pedagogy. History of educational software and usage examples. Usage of Internet as educational media. Contemporary trends in the development of ICT built for education and their influence on educational process. Concepts of organization of teaching activities. Basic characteristics, structure and components of E-learning systems. Basic methodology and application of E-learning systems. Characteristic structures of LMS systems and examples of such systems. E-learning standards. Modern concepts of organization of teaching activities. Preparation of materials and their representation using ICT. Basic principles of functioning and realisation of distance learning and distance learning systems. Preparation of teaching materials and their representation in distance learning systems. WWW communication, forums, Wikis, Internet newsgroups, polls, chat-rooms, video-conferencing. Needed technology for implementation of distance learning systems. Distance learning standards. Characteristic examples of such systems. <i>Practical instruction</i> Exercises follow lectures as topics are presented.			
Literature <i>Recomended</i> 1. William Horton: Designing Web-Based Training : How to Teach Anyone Anything Anywhere Anytime 2. Margaret Driscoll, Saul Carliner: Advanced Web-Based Training : Adapting Real World Strategies in Your Online Learning: Strategies – Unlocking Institutionally Sound online Learning 3. William W. Lee, Diana L. Owens: Multimedia-Based Instructional Design 4. John O. Donoghue: Technology-Supported Environments for Personalized learning – Methods and Case-Studies 5. Don Morrison: E-Learning Strategies 6. Judith V. Boettcher, Rita-Marie Conrad: The Online Teaching Survival Guide 7. Larry Bielawski, David Metcalf: Blended eLearning			
Weekly teaching load			
Lectures: 2	Exercises: 0	Practical Exercises: 2	Student research: Other:
Teaching methodology Lectures, consultations, interactive and dialog methods.			
Grading method (maximal number of points 100)			
Pre-exam obligations	points	Final exam	points
Homework	30	Seminar papers	25
Colloquia	20	Oral examination	25