

Applied Computer Science (4th semester)

Level:	Graduate
Course offered by:	Department of Applied Modern Language
Type of course:	practical course
Duration:	14 weeks, 2 hours a week
Prerequisites:	Graduate level skills in computer science
Evaluation:	written exam 20% class activity 10% individual project 70%
ECTS credits:	4

Aim of the Course:

Provide students with a conceptual framework for documentation and information systems. Teach students the methods and technologies used in order to save, edit and disseminate multimedia content; conceive and assess systems, be a competent user of specialized software.

Main Topics:

Introduction to the theory and practice for professional users of modern software and interface; basic rules of sound: nature, propagation, perception, acoustics; recording, stereophony, editing; image – acquisition, digital manipulation vs. analogical transfer; image-sound synchronization. CD, DVD history and definitions (DVD, MPEG2, MPEG4, DVD architecture). Specialized software: individual project on DVD.

Literature:

Notaise, J., O., Jean Dusanter, Dictionnaire du multimédia, Ed. Afnor, Paris, 1996.

Orza B., A. Vlaicu, Aplicații ale prelucrărilor digitale de imagini, UTPress, Cluj-Napoca, 2003

Pescaru D., Mocofan M., Aplicații interactive multimedia, Ed. Politehnica, 2001

Schmuck, Claudine Introduction au multimedia, Editura Paris, Afnor, 1995

Schuerer, Philippe Tratat practic de editare, Amarcord, Timișoara, 1999

Vlaicu, A., Prelucrarea digitală a imaginilor, Editura Albastră, Cluj-Napoca, 1998

Vlaicu, A., V. Dobrotă, S. Iacob, Tehnologii Multimedia: sisteme, rețele și aplicații, UTPress, Cluj-Napoca, 1998