

IMM EU Socrates Erasmus Programme
Master programme
Syllabus
Course proposal

Course Title: Advanced Learning Technologies
Proposed by: dr. Danguole Rutkauskiene and Gytis Cibulskis
Institution: Kaunas University of Technology
Country: Lithuania
Email: Danguole.Rutkauskiene@ktu.lt

Purpose	To get acquainted with the technologies applied in distance education, with the standards and means, to learn, to analyse, select and adapt, as well as apply technologies responding to concrete user needs and learning methodology.
Learning Outcomes	At the end of the course students should be able: <ul style="list-style-type: none"> • to define the technologies and standards used in distance education, • to answer why standardization of technologies is necessary and how it can be useful in practice, • to analyse, to select and adapt the technologies to a concrete learning situation and that is best for a target group, • to implement learning standards, designs and to apply learning management systems based on these standards.
Course Summary	Methods and technologies for distance learning implementation. The e-learning process standardization. Technologies and standards for electronic learning content preparation. Software and technologies for asynchronous and synchronous distance learning implementation. Technologies and standards for direct distance lectures organization. The integration of asynchronous and synchronous distance learning tools and technologies. Learning and learning content management systems and their development.
Course Structure	Topics: <ol style="list-style-type: none"> 1. Technologies and methods for the implementation of distance learning. 2. Technologies and standards (LOM, SCORM, IMS, etc.) for e- content development. 3. Software tools for the implementation of asynchronous distance learning. 4. Technologies for video and audio processing and transferring (MPEG, Streaming Media, VoIP, etc.) 5. Videoconference technologies (ISDN, IP) and standards (H.230, H.232, T.120, etc.) 6. Integration of synchronous and asynchronous learning

	<p>tools and technologies</p> <p>7. Learning and Learning content management systems (LMS, LCMS, etc.) and their development trends.</p> <p>Learning tasks:</p> <ol style="list-style-type: none"> 1. Reading of learning materials. 2. Reading references and browsing the web. 3. Participating in video conferences and discussions. 4. Watching the video lectures. <p>Course elements: learning materials, video lectures, assignments, and exam.</p> <p>Needs covered by the course: basics of computer literacy and e-learning.</p>
Learning Assignments	The tasks of the semester's individual work are being evaluated by grade; the final grade is being rated during the session while multiplying particular grades by lever coefficient and summing those products.
Tutorials Structure	Text based learning materials, video conferences / video lectures.
Interactive or Multimedia content	Learning materials have text and graphics. Teaching materials use audio and video – video lectures.
Software needed	Microsoft Internet Explorer 5.5 or later, Microsoft Windows Media Player 7.1 with Windows Media Codec v9, Sun or Microsoft Java VM, usual text editor and so on.
References	<ol style="list-style-type: none"> 1. A. Tan. Collaborative Online Learning Environments (COLEs) Taxonomy. Indiana University Bloomington. School of Education. Outstanding Individual Project, Fall 2002. 2. C. Shepherd. E-Learning's Greatest Hits. Above and Beyond, 2003. 189 p. ISBN: 0954590406. 3. D. Morrison. E-learning Strategies. John Wiley & Sons Ltd., 2003. 426p. ISBN 0-470-84922-3. The elements of e-learning // 10psl. 28pdfpsl John Willey and Sons E-learning strategies. 4. N. van Dam. The E-Learning Fieldbook: Implementation Lessons and Case Studies from Companies that are Making e-Learning Work. McGraw-Hill, 2004. 360p. ISBN: 0071418709. 5. Shepherd C. E-Learning's Greatest Hits. Above and Beyond, 2003. 189 p. ISBN: 0954590406. 6. W. Horton, K. Horton. E-Learning Tools and Technologies. Wiley Publishing, Inc., 2003. 592p. ISBN 0-471-44458-8. 7. Learning Technologies Standards Observatory: http://www.cen-ltso.net.

	<ol style="list-style-type: none"><li data-bbox="540 142 1390 212">8. IEEE Learning Technologies Standards Committee: http://ltsc.ieee.org<li data-bbox="540 216 1390 285">9. European Journal of Open and Distance Learning: http://www.eurodl.org
--	---