

# 9104-IC-1-2003-1-RO-ERASMUS-PROGUC-1

## IMM EU Socrates Erasmus Program Master Program Syllabus Course Proposal

**Course Title:** Multimedia Databases  
**Proposed by:** Prep. ing. Marian Bucos  
**Institution:** Politehnica University of Timisoara  
**Country:** Romania  
**Email:** marian@opendrum.utt.ro

<b>Purpose</b>	The purpose for this course is to offer the knowledge for building dynamic and interactive web applications using open source relational database management system (RDBMS) MySQL and server-side, cross-platform, HTML embedded scripting language PHP.
<b>Learning Outcomes</b>	Upon completion of this course, participants will be able to manage database systems, design and implement databases for web applications and to create database-enabled web applications.
<b>Course Summary</b>	The course presents the mix of techniques necessary for working with multimedia databases, including synthetic solutions for the design and deployment of web applications.
<b>Course Structure</b>	<ol style="list-style-type: none"><li>1. Introduction to Multimedia Databases</li><li>2. MySQL Server</li><li>3. Databases - Design and Implementation</li><li>4. Getting Data from Databases and Tables using Queries</li><li>5. MySQL User Account Management</li><li>6. Introduction to Scripting Language - PHP</li><li>7. Accessing MySQL Database Servers using PHP</li><li>8. Advanced PHP Techniques</li><li>9. Classes and Objects</li><li>10. Using PHP with XML and WML</li></ol>
<b>Learning Assignments</b>	For each module the students will make an assessment. All assessments will be integrated in a final project.
<b>Tutorials</b>	The Interactivity and Usability course will consist of a balanced

<b>Structure</b>	combination between online sessions and independent study.
<b>Interactive or Multimedia content</b>	The course will contain examples provided by the tutor. These examples are containing various media: text, graphics, audio, video.
<b>Software needed</b>	<ul style="list-style-type: none"> <li>- Internet Information Services</li> <li>- Apache Web Server</li> <li>- PHP</li> <li>- MySQL Database Server</li> <li>- Macromedia Dreamweaver</li> <li>- Text editors</li> </ul>
<b>References</b>	<ul style="list-style-type: none"> <li>- Luke Welling, Laura Thomson – PHP and MySQL. Web Development, Sams Publishing 2001</li> <li>- Thomas Connolly, Carolyn Begg, Anne Strachan – Database Systems – A Practical Approach to Design, Implementation and Management, Addison Wesley Longman Limited 1998</li> <li>- <a href="http://www.php.net">http://www.php.net</a></li> <li>- <a href="http://www.mysql.org">http://www.mysql.org</a></li> <li>- <a href="http://www.apache.org">http://www.apache.org</a></li> <li>- <a href="http://www.microsoft.com/windows2000/community/centers/iis/default.msp">http://www.microsoft.com/windows2000/community/centers/iis/default.msp</a></li> </ul>