



Course Syllabus

Course Code	Course Title	ECTS Credits
MIS-450	Emerging Technologies for Business	6
Prerequisites	Department	Semester
	Management and MIS	Fall/Spring
Type of Course	Field	Language of Instruction
Required	MIS	English
Level of Course	Lecturer(s)	Year of Study
1 st Cycle	Dr. Dmitry Apraksin	1 st or 2 nd
Mode of Delivery	Work Placement	Corequisites
Face to Face	N/A	N/A

Course Objectives:

Effective corporate E-Business strategies demand on an in-depth understanding of the various technology solutions that enable electronic business. This course will provide a panorama review of the current and emerging technologies involved in a contemporary business such as Web 2.0/3.0 and Social Media, Service Oriented Architecture, Cloud and Grid Computing, pervasive computing, mobile computing and RFID. We will examine how these new technologies impact industry, corporate strategy, and competitive dynamics, and create organizational efficiencies. In particular, it will look at the issues of the social needs for security in a cloud environment, as well as the benefits of cloud as a provider of network facilities and the metamorphosis of fixed to variable costs for business. They will be exposed to the concept of IT strategy and the concept of value creation and business innovation through the new technologies

Learning Outcomes:

After completion of the course students are expected to be able to:

1. *Appreciate* the fundamentals of technological innovation.
2. *Be aware* the major emerging technologies such as cloud computing, grid computing, cognitive radio and RFID.
3. *Realize* how emerging technological trends in E-business impact industry, corporate strategy, and competitive dynamics, i.e. the economics of the emerging technologies.
4. *Understand* how to evaluate current tools and resources available, and how to capitalize on these emerging technologies/capabilities to create business efficiencies.

5. Understand security and privacy issues associated with E-business and the related technologies.

Course Content:

1. **Web 2.0/3.0 and Social Media.** *Web 2.0 applications, power of crowds, web 2.0 in the business.*
2. **Cloud Computing Architectural Framework** - *Cloud Computing Evolution, Cloud Benefits, Business scenarios, Essential Characteristics of Cloud Computing, Cloud deployment models, Cloud Service Models, Cloud computing vendors, Security in the cloud, Legal issues of cloud computing.*
3. **Grid computing.** *Business and technological drivers of grid computing, Grid business models, Legal issues of grid computing.*
4. **Future Internet (Internet of Things...).** *The emerging global internet-based architecture for facilitating the exchange of goods and services and its impact on various areas of our lives will be studied.*
5. **Other emerging technologies** - *e-Infrastructures, ICT for Networked Enterprise and RFID, Security and Identity Management, will be studied along with their impact on today's businesses, Green ICT in business.*
6. *Understand the concept of IT strategy and the concept of value creation and business innovation through the new technologies.*
7. **Emerging technologies addressing societal challenges.** *How the new technologies help the businesses become ecologically friendly. Topics such Sustainable Environment and green technologies will be considered.*

Learning Activities and Teaching Methods:

Faculty Lectures and Guest-Lectures Seminars, Directed and Background Reading, Case Study Analysis and Discussion, In-class Exercises, Student-led Presentations.

Assessment Methods:

Attendance and Participation, Coursework, Mid-Term Exam, Final Exam.

Required Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
Reshaping Your Business with Web 2.0: Using New	Vince Casarez, Billy Cripe, Jean Sini, Philipp	McGraw-Hill	2009	978-0-07-160078-1

Social Technologies to Lead Business Transformation	Weckerle			
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Recommended Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
Web 2.0: Concepts and Applications	Shelly Cashman, Mark Frydenberg	Cengage Learning Inc.	2011	978-1-4390-4802-3
Enterprise Web 2.0 Fundamentals	Krishna Sankar , Susan A. Bouchard	Cisco Press	2009	978-1-58705-763-2
Grid and Cloud Computing: A Business Perspective on Technology and Applications	Katarina Stanoevska-Slabeva, Thomas Wozniak, Santi Ristol	Springer Verlag	2010	978-3-642-05192-0
Dancing On A Cloud: A Framework for Increasing Business Agility	David Sterling	Xilibris Corporation	2011	978-1-4653-9366-1
Future Trends and Challenges for ICT Standardization	Ramjee Prasad	River Publishers	2010	9788792329387
Business in the Cloud: What Every Business Needs to Know About ...	Michael H. Hugos, Derek Hultzky	John Wiley & Sons	2010	0470616237