

INSTITUTION	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS																			
SCHOOL	SCHOOL OF SCIENCE																			
DEPARTMENT	INFORMATICS AND TELECOMMUNICATIONS																			
COURSE LEVEL	UNDERGRADUATE																			
COURSE TITLE	Information Systems																			
COURSE CODE	ΥΣ07	Semester	7	ECTS	6															
TEACHING HOURS per week	THEORY	2	SEMINAR.	2	LABORATORY															
COURSE TYPE	Select one of the following and delete the rest Electives (ΠΜ) <table border="1" data-bbox="594 898 1273 968"> <tr> <td>K</td> <td>E1</td> <td>E2</td> <td>E3</td> <td>E4</td> <td>E5</td> <td>E6</td> </tr> <tr> <td>A</td> <td></td> <td></td> <td>B</td> <td></td> <td></td> <td></td> </tr> </table>						K	E1	E2	E3	E4	E5	E6	A			B			
K	E1	E2	E3	E4	E5	E6														
A			B																	
URL	https://eclass.uoa.gr/courses/DI441/																			
EXPECTED PRIOR KNOWLEDGE/ PREREQUISITES AND PREPARATION:	K29 Design and Applications of Database Systems																			
TEACHING AND EXAMINATIONS LANGUAGE:	GREEK																			
THE COURSE IS OFFERED TO ERASMUS STUDENTS	NO																			

COURSE CONTENT
<p>Introduction to definitions and concepts related to Business Information Systems. Data, Information, Information Systems, Business Applications and Operations and Processes. Study the issues of Management and Strategy of Information Systems. Study the digital transformation and the Information Systems implementation. Study the design and implementation of an operational Systems Landscape. Study the business applications development. Study the categories of Business Information Systems. The course covers Business Resource Management Systems, Customer Relationship Management Systems, Business Intelligence Systems, Decision Support Systems, Knowledge Management and Corporate Memory Systems, Supply Chain Systems and eLearning Systems. The Life Cycle of Business Applications is studied. Business Applications and Data Migration are covered. Information Systems Security and Systems Performance issues are covered. Presents the interdisciplinary perspective of Information Systems and the issues of Business Systems Applications adoption by key and end users. Study the Hardware and Software Technologies. Study the IT mega trends - Big Data analytics, Cloud, Mobility. Study the relation of business intelligence with business systems applications.</p>

STUDENT LEARNING OBJECTIVES

Teaching-Learning Goals-Expected Learning Outcomes

To introduce students to Information Systems and Business Applications

Upon successful completion of the course the student will be able to:

- Explain the ERPs, CRMs, SCM, KMS, DSS, ESS, BI Information Systems
- Describe the Transaction Processing Systems (TPS) and Management Information Systems (MIS)
- Design an Integrated Landscape of Systems and Business Systems Applications
- Design the Data and Applications Migration Plan in Operational Environments
- Design a plan of business and systems change in the context of a digital transformation
- Define the Information Systems and Business Systems applications KPIs for performance and efficiency
- Design Integrated applications processes and construct the Blueprints
- Manage a business systems application development project
- Apply best practices for designing integrated business intelligence solutions

TEACHING AND LEARNING METHODS - ASSESSMENT

TEACHING METHOD	In Class (Face to Face)																
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	<p>Learning process supported by the e-class platform.</p> <p>Specifically: Course Description, Lecture slides, Lecture Notes, Supplementary Material, Case Studies, Announcements, Calendar, Task Assignments, Discussion of Works, External Links.</p> <p>Email communication</p> <p>Ability to track recorded lectures.</p>																
TEACHING ORGANIZATION	<p>Theory supported with slide presentations in lectures. The Final Assignment Project includes 3 distinct units and the students support their work with presentation as well. A case study presentation is provided as optional. Additional study material is given to support theory in practice.</p> <table border="1"> <thead> <tr> <th>Activity</th> <th>Student Workload (hours)</th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>39</td> </tr> <tr> <td>Final Project</td> <td>35</td> </tr> <tr> <td>Study for Final Exams</td> <td>20</td> </tr> <tr> <td>Critical study and analysis</td> <td>20</td> </tr> <tr> <td>Case Studies</td> <td>23</td> </tr> <tr> <td>Presentations</td> <td>13</td> </tr> <tr> <td>Total Course</td> <td>150</td> </tr> </tbody> </table>	Activity	Student Workload (hours)	Lectures	39	Final Project	35	Study for Final Exams	20	Critical study and analysis	20	Case Studies	23	Presentations	13	Total Course	150
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<p><i>Describe in detail the way and methods of teaching:</i> Enhanced Lectures, Online Lectures, Seminars, Tutorial, Laboratory, Laboratory Exercise, Study & analysis of literature, Practice (Positioning), Interactive teaching, Developing a project, Individual / group work Telework (reference to tools) etc.</p> <p><i>Details of the student's study hours for each learning activity and hours of non-guided study are shown to ensure that the total workload at the semester corresponds to the ECTS</i></p>																	

	(25 hours of workload per unit of credit)		
	Extra Mile Project	16	
<p>ASSESSMENT OF STUDENTS <i>Description of the assessment process</i></p> <p><i>Assessment Methods, Formative or Concluding, Multiple Choice Test, Quick Response Questions, Test Development Questions, Problem Solving, Written Work, Report / Report, Oral Examination, Public Presentation, Laboratory Work, Other / Other</i></p> <p><i>Fully defined evaluation criteria are mentioned and if and where they are accessible to students.</i></p>	<p>Students are assessed by Written Exam, Final Assignment 4IS, and Extra Mile Project 4IS (optional). For the successful completion of the course, students must achieve 3.5/7 marks in the written exam and 1.5/3 points in the Final Assignment Project. In addition, students have the opportunity to develop and present a Case Study as an Extra Mile Project.</p> <p>Written examination covers the theoretical part of the subject, multiple choice questions, exercises, and critical thinking questions on the matter.</p> <p>The final work is assessed with a graded criteria scheme according to the Final Project Wizard which is announced to the students. Students present and document their Final Assignment Project.</p>		
	Assessment methods	Number	Percentage
	Written examination	1	70%
	Final Assignment 4IS	1	30%
	Extra Mile Project 4IS	1	10%

LITERATURE AND STUDY MATERIALS / READING LIST
<p>Harvey Maylor, Project Management, Kleidarithmos Publishing, 3rd edition, 2005</p> <p>Information Systems Management, Kleidarithmos Publications, 11th edition, Laudon and Laudon, ISBN: 978-960-461-623-7</p> <p>Lecture Notes and Slides in Information Systems</p> <p>Information Systems Management: Strategy and Organization, Kleidarithmos Publications, 3rd Edition, D.Boddy, A. Boonstra, G. Kennedy, ISBN: 978-960-461-364-9</p> <p>Business Administration and Information Systems, 2nd edition, G. Doukidis, Sideris Publications, ISBN: 978-960-08-0305-1</p> <p>Information Systems for Business Administration, 3rd edition, Economou and Georgopoulos, Benou, ISBN: 960-359-002-9</p> <p>Information Systems, 2nd Edition, G. Vassilakopoulos, Issues of Tsotras, ISBN: 978-618-5309-39-8</p>