University: **Alexandria**
Faculty: **Science**
Program: **Computer Science**

Form no. (12)
Course Specification

1- Course Data

Course Code:	**Course Title:**	**Academic Year/Level:**
CS 409	***Digital Libraries***	Fourth level (First semester)
Specialization: Computer Science	**No. of Instructional Units:** **Lecture** 2 **Lab** 3	

2- Course Aim	• This course is designed to encourage in students a sense of interest for Digital Library concept and its application in different contexts • Provide a solid foundation in the major areas of Digital Library • Provide education and training of high quality in Digital Library
3- Intended Learning Outcome	
a- Knowledge and Understanding	a1. Describe the main concepts, definitions of intelligence systems a2. Review theories and concepts used in Digital Library a3. Identify an understanding of the contribution and impacts of Digital Library in scientific, social, economic, environmental, political and cultural terms. a4. Intelligence systems and digital library a5. Search techniques and storage methods a6. Classification and clustering of results

b- Intellectual Skills	b1. Manipulate and apply appropriate theories, principles and concepts relevant to Digital Library b2. Critically assess and evaluate the literature within the field of Digital Library b3 Deduce and interpret information from a variety of sources relevant Digital Library
c- Professional Skills	**c1.** Plan, design and execute practical activities using techniques and procedures Appropriate to Digital Library **c2.** Execute a piece of independent research using Digital Library**,** computer media and techniques;
d- General Skills	**d1.** Develop appropriate effective written and oral communication skills relevant to the specific course of Digital Library **d2.** Demonstrate the ability to work effectively as part of a group **d3.** Solve problems relevant to Digital Library using ideas and techniques some of which are at the forefront of the discipline. **d4.** Solve problems relevant to **applications in real life** in computer science using old and new languages some of which are at the forefront of the discipline;
4- Course Content	• Foundations, • Search, • Retrieval, • Resource discovery, • Multimedia, • Representations, • Architectures, • Interfaces, • Metadata, • Electronic publishing, • Database issues, • Agents, • Commerce, • Economics, • Publishers, • Intellectual property rights, • Security, • Social issues.

5- Teaching and Learning Methods	Lecturers – Home works - Oral discussion - Quizzes
6- Teaching and Learning Methods for Students with Special Needs	NONE
7- Student Assessment:	
a- Procedures used:	Lecturers – tutorials- homework – oral discussion - Quizzes
b- Schedule:	Mid-Term exam… …. Week 10 Final exam …….. Week 17
c- Weighing of Assessment:	Term work (exam + home works) 20% Lab exam 10% Oral exam 10% Final exam 60%
8- List of References:	How to Build a Digital Library, Second Edition (Morgan Kaufmann Series in Multimedia Information and Systems) by Ian H. Witten, David Bainbridge and David M. Nichols (Paperback - Oct 21, 2009)
a- Course Notes	Course notes provided by the Faculty member of Computer Science Division, Math department, to be handled at the beginning of the semester.

b- Required Books (Textbooks)	
c- Recommended Books	
d- Periodicals, Web Sites, ..., etc.	

Course Instructor: Dr. Yasser Fouad
Head of Department: Prof. Dr. Mahmoud El-Alem.
Date: 1/10/2011