### 1- Course Data

<table>
<thead>
<tr>
<th>Course Code:</th>
<th>Course Title:</th>
<th>Academic Year/Level:</th>
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<tbody>
<tr>
<td>CS 409</td>
<td>Digital Libraries</td>
<td>Fourth level (First semester)</td>
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<tr>
<th>Specialization:</th>
<th>No. of Instructional Units:</th>
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<tbody>
<tr>
<td>Computer Science</td>
<td>Lecture 2 Lab 3</td>
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### 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. |
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<tr>
<th>5- Teaching and Learning Methods</th>
<th>Lecturers – Home works - Oral discussion - Quizzes</th>
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<tbody>
<tr>
<td>6- Teaching and Learning Methods for Students with Special Needs</td>
<td>NONE</td>
</tr>
<tr>
<td>7- Student Assessment:</td>
<td></td>
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<tr>
<td>a- Procedures used:</td>
<td>Lecturers – tutorials- homework – oral discussion - Quizzes</td>
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</tbody>
</table>
| 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% |
<p>| 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. |</p>
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<tr>
<td><strong>b- Required Books (Textbooks)</strong></td>
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<td><strong>c- Recommended Books</strong></td>
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<td><strong>d- Periodicals, Web Sites, ..., etc.</strong></td>
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**Course Instructor:** Dr. Yasser Fouad  
**Head of Department:** Prof. Dr. Mahmoud El-Alem.  
**Date:** 1/10/2011