

**Title (Units):** **COMP7780 Special Topics in Knowledge and Information Management (3,3,0)**

**Course Aims:** To learn state-of-the-art topics in knowledge and information management.

**Prerequisite:** The pre-requisite depends on the specific topics covered. The pre-requisite and the chosen topics will be announced before the semester starts.

**Course Intended Learning Outcomes (CILOs):**

Upon successful completion of this course, students should be able to:

No.	Course Intended Learning Outcomes (CILOs)
	<b>Knowledge</b>
1	Explain the importance of the selected topics in knowledge and information management.
2	Describe the problems involved in the selected topics and explain the solutions to these problems.
	<b>Skill</b>
3	Master problem solving and/or practical skills relevant to the selected topics.
	<b>Attitude</b>
4	Develop a view that knowledge and information management is evolving rapidly.

**Calendar Description:** Students will learn state-of-the-art topics in knowledge and information management. Emphasis will be placed on the current issues, methodologies and/or practice. After completing this course, students will understand some current topics in and methodologies of knowledge and information management.

**Teaching and Learning Activities (TLAs):**

CILOs	Type of TLA
1-4	Students will learn the basic concepts and fundamental principles in lectures and tutorials.
1-3	Students will acquire hands-on experience in formulating and implementing different knowledge and information management systems

**Assessment:**

No.	Assessment Methods	Weighting	CILOs to be addressed	Description of Assessment Tasks
1	Continuous Assessment	40%	1-4	Continuous assessments are designed such that students apply what they have learned to solve the problems involved in the selected topics in knowledge and information management.
2	Examination	60%	1-3	Final examination questions are designed to assess students' understanding in the concepts and their ability in applying these concepts to solve problems.

**Assessment Rubrics:**

<b>Excellent (A)</b>	<ul style="list-style-type: none"><li>• Achieve the first three CILOs, with strong evidence of having achieved the last CILO, demonstrating a good mastery of both the theoretical and practical aspects of the knowledge and skills in the selected topics</li><li>• Able to develop correct solutions to problems in knowledge and information management</li><li>• Demonstrate a thorough understanding and solid knowledge of the selected topics</li><li>• Able to apply a variety of techniques and relevant knowledge for solving problems in knowledge and information management</li></ul>
<b>Good (B)</b>	<ul style="list-style-type: none"><li>• Achieve most of the first three CILOs, with evidence of having achieved the last CILO, demonstrating a good understanding of the knowledge and skills in the selected topics</li></ul>

	<ul style="list-style-type: none"> <li>• Able to develop correct solutions to problems in knowledge and information management</li> <li>• Demonstrate a competent level of knowledge of the selected topics</li> <li>• Ability to make use of appropriate techniques and knowledge and apply them to familiar problems in knowledge and information management</li> </ul>
<b>Satisfactory (C)</b>	<ul style="list-style-type: none"> <li>• Achieve some of the first three CILOs, demonstrating a basic level of understanding of the knowledge and skills in the selected topics</li> <li>• Able to provide acceptable solutions to problems in knowledge and information management</li> <li>• Demonstrate an adequate level of knowledge of the selected topics</li> <li>• Ability to make use of some techniques and knowledge and apply them to familiar situations in knowledge and information management</li> </ul>
<b>Fail (F)</b>	<ul style="list-style-type: none"> <li>• Achieve none of the first three CILOs, with little understanding of the associated concepts and underlying methodologies in the selected topics</li> <li>• Unable to provide solutions to simple problems in knowledge and information management</li> <li>• Knowledge of selected topics falling below the basic minimum level</li> <li>• Unable to apply techniques and knowledge to situations or problems in knowledge and information management</li> </ul>

#### Course Content and CILOs Mapping:

Content		CILO No.
I	One or more state-of-the-art topics in knowledge and information management	1-4

#### References:

Selected articles from journals, magazines, conference proceedings, research monographs, etc.

#### Course Content:

##### Topic

- I. One or more state-of-the-art topics in knowledge and information management
  - Business Intelligence
  - Web Intelligence
  - Advanced Intelligent Techniques for Decision Support
  - Advanced Database Systems
  - Advanced Data Mining Techniques
  - Advanced Knowledge Discovery Techniques
  - Advanced Information Retrieval Techniques
  - Management of Knowledge-based Systems
  - Other contemporary topics in knowledge and information management
  - Case Studies