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)
	Knowledge
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.
	Skill
3	Master problem solving and/or practical skills relevant to the selected topics.
	Attitude
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:

Excellent (A)	• 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 • Able to develop correct solutions to problems in knowledge and information management • Demonstrate a thorough understanding and solid knowledge of the selected topics • Able to apply a variety of techniques and relevant knowledge for solving problems in knowledge and information management
Good (B)	• 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

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

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:

<u>**Topic**</u>

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
- AI for Knowledge and Information Management
- Other contemporary topics in knowledge and information management
- Case Studies