Course Name	ARTIFICIAL INTELLIGENCE		Course Code	COMP 441		
Credit Hours	3		Contact Hours	Lec	Lab	Total
				2	2	4
Offered as	☐ University Requirement ☐ College Requirement ☒ Program Requirement ☒ Core ☐ Elective ☐ ITEC ☒ COMP ☐ CNET					
Level	7		Prerequisite	NIL		

Course Description:

This course offers basic concepts of the Intelligence, Innovative, achievements and advance development areas of AI. It covers modern techniques for computers to represent task-relevant information and intelligent decisions system, solving problems by searching towards the achievement of goals. It covers some advanced topics namely Machine Learning, Planning, Neural networks and Multi-Agent Systems basics.

Upon completion, the student will be able to:

- Understand the basic concepts of the Intelligence, Artificial Intelligence and innovative achievements in the development of AI advancement.
- Identify, formulate and solving AI problem.
- Apply DFS, BFS, Heuristic function, bidirectional search greedy search and A* search.
- Design and implement the concepts of game playing.
- Identify the techniques in machine learning, such as decision tree induction and artificial neural networks.
- Know and integrate various artificial intelligence techniques in intelligent system development and maintaining intelligent systems.

Assessment Methods							
	Exam-1 ☒	10%	Exam-2 ☒	10%	Assignments ☒	20%
	Attendance ☐	-	Lab Exam ☒	20%	Final Exam ☒	40%

Text Book:

- Stuart Russell and Peter Norvig, "Artificial Intelligence: A Modern Approach", 3rd Edition, Prentice Hall, ISBN-13: 978-0-13-604259-4 ISBN-10: 0-13-604259-7, 2003.

References:

- Coppin B, "Artificial Intelligence Illuminated", 1st Edition, Jones and Bartlett Publishers, ISBN: 978-0763732301, 2004.
- Toshinori Munakata, "Fundamentals of the New Artificial Intelligence. Neural, Evolutionary, Fuzzy and More", 2nd Edition, Springer, ISBN: 978-1846288398, 2008.
- Tim Jones, "Artificial Intelligence A Systems Approach", 1st Edition, Infinity Science Press LLC, ISBN: 978-0763773373, 2008.