

Course Name	ARTIFICIAL INTELLIGENCE		Course Code	COMP 241		
Credit Hours	3		Contact Hours	Lec	Lab	Total
				2	2	4
Offered as	<input type="checkbox"/> University Requirement <input type="checkbox"/> College Requirement <input checked="" type="checkbox"/> Program Requirement <input checked="" type="checkbox"/> Core <input type="checkbox"/> Elective <input checked="" type="checkbox"/> ITEC <input checked="" type="checkbox"/> COMP <input type="checkbox"/> CNET					
Level	6		Prerequisite	NIL		
Course Description: This course offers basic concepts of the intelligence, innovations, achievements and advanced development in the 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 Planning, Learning, Robotics and Multi-Agent Systems basics.						
Upon completion, the student will be able to: <ul style="list-style-type: none"> ◆ Understand the basic concepts of the Intelligence, Artificial Intelligence and innovative achievements in the development of AI. ◆ Identify and choose appropriate PEAS description, characteristics of environment and the agent architecture, for a given problem to be solved by an Intelligent agent. ◆ Apply uninformed/ informed search strategies to solve a given search / optimization problem. ◆ Design and implement the concepts of problem solving and algorithms. ◆ Identify the techniques in Planning, Learning, Robotics and Multi Agent systems basics. ◆ Know and integrate various artificial intelligence techniques in intelligent system development and maintaining intelligent systems. 						
Assessment Methods	Exam-1 <input checked="" type="checkbox"/>	10%	Exam-2 <input checked="" type="checkbox"/>	10%	Assignments <input checked="" type="checkbox"/>	10%
	Mini Project <input checked="" type="checkbox"/>	10%	Lab Exam <input checked="" type="checkbox"/>	20%	Final Exam <input checked="" type="checkbox"/>	40%
Text Book: <ul style="list-style-type: none"> ◆ Stuart Russell and Peter Norvig, Artificial Intelligence: A Modern Approach, Prentice Hall, 3rd Edition, 2010. ISBN-13: 978-0-13-604259-4. 						
Reference Book: <ul style="list-style-type: none"> ◆ Tim Jones, “Artificial Intelligence a Systems Approach”, 1st Edition, Infinity Science Press LLC, ISBN: 978-0763773373, 2008. ◆ Nils J Nilsson, The Quest for Artificial Intelligence, Cambridge University Press, 2009. ◆ William F Clocksin and Christopher S Mellish, Programming in Prolog: Using the ISO Standard, Fifth Edition, Springer, 2003. ◆ Gerhard Weiss, Multi Agent Systems, Second Edition, MIT Press, 2013. 						

