Course Title	**Artificial Intelligence Lab**
Course Code	**DC-324L**
Credit Hours	1
Category	Domain Core
Prerequisite	Discrete Structures
Co-Requisite	None
Follow-up	None
Course Description	Implementation of Reasoning and Knowledge Representation, Propositional Logic, First order Logic; Problem Solving by Searching (Informed searching, Uninformed searching, Local searching.); Constraint Satisfaction Problems; Adversarial Search (Min-max algorithm, Alpha beta pruning, Game-playing); Learning (Unsupervised learning, Supervised learning, Reinforcement learning) ;Uncertainty handling (Uncertainty in AI, Fuzzy logic);
Text Book(s)	Stuart Russell and Peter Norvig, Artificial Intelligence. A Modern Approach, 4th edition, Prentice Hall, Inc., 2020.
Reference Material	Luger, G.F. and Stubblefield, W.A., 2009. AI algorithms, data structures, and idioms in Prolog, Lisp, and Java. Pearson Addison-Wesley.
	George F. Luger, Artificial Intelligence - Structures and Strategies for Complex Problem Solving, 6th Edition, Pearson, 2008, ISBN-13: 978-0321545893.
	Hart, P.E., Stork, D.G. and Duda, R.O., Pattern classification. John Willey & Sons, 2001.
	Ivan Bratko, Prolog: Programming for Artificial Intelligence, 4th Edition, Pearson, 2011, ISBN-13: 978-0321417466.
	P. Winston, Artificial Intelligence, 3rd Edition, Pearson, 1992, ISBN-13: 978-0201533774.