

19CS1451

AI Tools Lab

Offering Branches	CSE		
Course Category:	Engineering Sciences	Credits:	1
Course Type:	Practical	Lecture-Tutorial- Practical:	0-0-2
Prerequisites:	NIL	Continuous Evaluation:	25
		Semester End Evaluation:	50
		Total Marks:	75

Course Content

Exp No.	Contents	
1	Apply Data pre-processing techniques.	
2	Construct a Machine Learning model using supervised learning method.	
3	Construct a Machine Learning model using Unsupervised learning method.	
4	Construct a Machine Learning model using Semi supervised learning method.	
5	Develop a Deep Learning model using supervised learning method.	
6	Develop a Deep Learning model using Unsupervised learning method.	
7	Apply a Convolutional Neural Network for Image Classification.	
8	Build an AI application.	

Learning Resources

Text Books

1. Artificial Intelligence: A Modern Approach, Stuart Russell and Norvig, Third Edition, 2015,

Pearson Education.

2. Machine Learning: A Probabilistic Perspective, Kevin P. Murphy, 2012, MIT Press
3. Deep Learning (Adaptive Computation and Machine Learning series), Ian Goodfellow , Yoshua Bengio, Aaron Courville, [Francis Bach](#), 2017, MIT Press.

e-Resources & other digital material

1. <https://github.com/atinesh-s/Coursera-Machine-Learning-Stanford>
2. <https://github.com/Kulbear/deep-learning-coursera>