20ES1651- AI TOOLS LAB

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

Course Outcomes

Upon successful completion of the course, the student will be able to:

CO1	**Apply** various preprocessing techniques on different datasets.	K3
CO2	**Construct** Machine learning programs for Supervised, Unsupervised and Semi supervised learning models.	K6
CO3	**Develop** Deep learning programs for Supervised & Unsupervised learning models.	K6
CO4	**Identify** and **Apply** Artificial Intelligence concepts to solve real world problems.	K3

Contribution of Course Outcomes towards achievement of Program Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	2					1		2	1	2
CO2	3	3	2	1	2					1		2	1	2
CO3	3	3	2	1	2					1		2	1	2
CO4	2	2	3	1	2		1			1		2	1	3
Avg.	**3**	**3**	**2**	1	**2**		**1**			**1**		2	1	**2**

1- Low **2-Medium** **3-High**

Course Content

Experiment No.1	Apply Data pre-processing techniques.	CO1
Experiment No.2	Construct a Machine Learning model using supervised learning method.	CO2
Experiment No.3	Construct a Machine Learning model using Unsupervised learning method.	
Experiment No.4	Construct a Machine Learning model using Semi supervised learning method.	
Experiment No.5	Develop a Deep Learning model using supervised learning method.	CO3
Experiment No.6	Develop a Deep Learning model using Unsupervised learning method.	
Experiment No.7	Apply a Convolutional Neural Network for Image Classification.	
Experiment No.8	Build an AI application.	CO4

Learning Resources

e-Resources& other digital material	1. https://github.com/atinesh-s/Coursera-Machine-Learning-Stanford 2. https://github.com/Kulbear/deep-learning-coursera