



**Vivekanand Education Society's Institute Of Technology.**  
**Department of Information Technology**

**Course Name :** Data Science Lab  
**Course Code :** ITL 701  
**Sem :** VII  
**Class :** D20A  
**Academic Year :** 2023-2024

Sr. No	List of Practical Experiment/Assignment	DOP	DOS	Marks out of 10	Sign
1	To Implement Inferencing with Bayesian Network in python.				
2	To build a Cognitive text based application to understand context for a Customer service application/ Insurance/ Healthcare Application/ Smarter Cities/ Government etc.				
3	To build a Cognitive based application to acquire knowledge through images for a Customer service application/ Insurance/ Healthcare Application/ Smarter Cities/ Government etc.				
4	To implement Fuzzy Membership Functions.				
5	To implement Fuzzy set Properties.				
6	To design a Fuzzy control system using Fuzzy tool/library.				
7	To implement CNN Deep Learning Applications like i) Image Classification System ii) Handwritten Digit Recognition System (like MNIST Dataset) iii) Traffic Signs Recognition				
8	To implement supervised learning algorithm like i) Ada-Boosting ii) Random forests				
9	Analysis and comparison of different Machine learning and Deep learning algorithms.				

1	Assignment1				
2	Assignment 2				
<b>Mini Project</b>		<b>Marks out of 10</b>			
10	Mini-Project – To build text/ image/ video/ audio based Data Science/AI based Application.				

Subject Teacher