

Department of Computer Science & Engineering National Institute of Technology Srinagar				
Course Title	Artificial Intelligence Lab	Semester	6 th	
Department	CSE	Course Code	CST353	
Credits	01	L	T	P
Course Type	Lab	0	0	2
Course Objectives				
<ul style="list-style-type: none"> • To understand the concepts of Artificial intelligence and machine learning. • To understand and practice prolog and python. • To understand and practice various classifiers like SVM and neural networks. • To understand and practice logic and reasoning through logic programming. 				
Learning Outcomes				
<ul style="list-style-type: none"> • Develop the basic logic programs. • Understanding the implementation of various machine learning libraries like torch, tensor flow. • Hands on experience on applying various classifiers on MNIST dataset. 				
Course Outline / Content				
Unit	Topics			Week
1.	Study of PROLOG.			1
2.	Write a program to solve 8 queens' problem			1
3.	Solve any problem using depth first search.			1
4.	Solve any problem using best first search.			1
5.	Solve 8-puzzle problem using best first search			2
6.	Solve Robot (traversal) problem using means End Analysis			2
7.	Solve traveling salesman problem.			2
8.	Implementation of Linear and Logistic regression.			2
9.	Implementing classifiers on MNIST Data set.			2