urse co	ode 21CSESI	06 ARTIFICIAL INTELLIGENT MACHINE LEARNI		L	T	P	C
Core/E	lective/Support			4			4
Pre-requisite		Basics of Mathematical Proba Computer Programming	bilities and	Syllabus Version 202		202	1-202
1. T a 2. T	rtificialintelliger o apply the mac	problems, both technical and philosopice nine learning algorithms for variousap Concepts of Machine learning algorit	plications.		5.0		· rF
	ted Course Out		iniis or direc	rent p	Cour	7111511	,,,,,,
COI	Understand and Apply AI technique in the development of proble solving and learning systems				K1		
Understand the problems where artificial intelligence techniques are applicable			are	re K2			
CO3		cepts of machine learning			- 8	K2	
CO4	methods	e theoretical concepts of probabilistic	SOURCE SECONDARY			K4	
CO5		upervised, Unsupervised and semi sup					K3,K
K1	- Remember; K	- Understand; K3 - Apply; K4 - Anal	yze; K5 - Ev	/aluate	; K6	- Cre	ate
Hei	t-1 Artific	ial Intelligence		F	-	12—1	loure
Unit:1 Artificial Intelligence Introduction to Artificial Intelligence – Intelligent Agents – Problem solving – S				ours			
	ertainty - Probab	omated Planning – Uncertain knowled listic Reasoning – Probabilistic Programme					
Uni	t:3 Machine	Learning	-		A	12-	hour
		undations -Overview - applications -	Types of ma	chine	learn	STREET, STREET	
for R	epts in machine egression - Line	learning Examples of Machine Learn ar Basis Function Models - The Bias-V ession - Bayesian Model Comparison	ing -Applica Variance Dec	tions -	- Lin	ear M	
Uni	t:4 Models	or Classification				12—1	ours
Gene Deci	erative Models - sion Trees - Cla ard Network Fur ssian Neural Net	Linear Models for Classification - Dis Probabilistic Discriminative Models ssification Trees - Regression Trees - ctions - Error Back propagation - Re- works - Kernel Methods - Dual Repre- ector Machines - Ensemble methods - in Methods	Pruning. Ne gularization esentations	Logi cural N - Mixt	stic l letwo ure I	Regre orks - Densit	Feed y and
Netw							
Netw	t:5 Clusterin	g				12—1	ours