



(Autonomous)

Narsapur, West Godavari District, A.P. 534280

DEPARTMENT OF INFORMATION TECHNOLOGY

	Net Control		TEA	CHING PL	AN				
Course Code	Cour	e	Semester	Branch	Contac Periods /V		cademic Year	Date of commencem of Semeste	
20IT5T02	Artific Intellige		v	IT	6	20	24-2025		
COURSE	Intelligence OUTCOMES					20.		05-06-202	
1			entals of AI	techniques	and course t	- 1			
2	Define the fundamentals of AI techniques and search techniques. Use appropriate search algorithms for any AI problem.								
3	Represent a problem using first order and predicate logic.								
4	Understand the concents of non-								
5	Understand the concepts of non-monotonic reasoning. Acquire the knowledge of various AI applications								
			age of vario	us Al appli	ications		35		
	Out Comes	T		- Sasadalinina ka					
UNIT	/ Bloom's Level	Topics No.		Topics/ Activity		Text Book/ Reference	Conta ct Houry	Delivery Method	
		1_		1	ntroduction	1	4	-	
	CO – 1	1.1	- Introduc	ction	e definition	T1,T2,T3	2		
		1.2	Al proble	ems, Proble	m Spaces	T1,T2,T3	1		
		1.3	Space Sea	arch,	n as a State	T1,T2,T3		Chalk &	
		1.4	productio	characterist n Systems.		T1,T2,T3	2	Board	
I		1.5	Future of	Artificial I	ntelligence	T1,T2,T3	1	Power point	
		1.6	Agents	istics of Int	-	T1,T2,T3	2	presentations	
		1.7	Problem S			T1,T2,T3	2	Assignment	
		1.8	problems	to Typical		T1,T2,T3	2	Test	
		1.9	Cryptarith	metic prob	lem	T1,T2,T3	2		
		1.10	problem	ies and Car	nibals	T1,T2,T3	1		
		1.11	Problem so	olving		T1,T2,T3	1 "		
		2		B . I I		Tota	1 17"	77. VI. VI.	
II	CO – 2		Icense in th	Problem	solving Methods				
		2.1	Issues in the program			T1,T2,T3	1	Chalk &	
		2.2	Search Stra (BFS and I	DFS		T1,T2,T3	1	Board	
		2.3	Informed (A Search Alg Optimization	orithms and on Problem	d s	T1,T2,T3	1	Power poin	
		2.4	Generate-A	nd- Test, F		T1,T2,T3	1,	· COMONOMINATOR IN COMO	

EV

No. of periods Topic Book Reference Periods

CHNOLOGY

SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY (Autonomous)

Narsapur, West Godavari District, A.P. 534280

DEPARTMENT OF INFORMATION TECHNOLOGY

Assignmen			Climbing		55. 33		1	
Test	2	T1,T2,T3	Best-First Search, A* Algorithm	2.5		ent	Date of commencement	
	2	T1,T2,T3	Problem Reduction, AO*Algorithm)	2.6				
	2	T1,T2,T3	Constraint Satisfaction Problems,	2.7		4	05-06-2024	
	1 "	T1,T2,T3	Backtracking Search	2.8		_	10	
	1	T1,T2,T3	Game Playing - Optimal Decisions in Games –	2.9				
	1	T1,T2,T3	Minimax Search, Alpha - Beta Pruning	2.10				
	1	T1,T2,T3	Stochastic Games	2.11				
	14	Total		·				
		entation	Knowledge Represe	3		_	No.	
	1 "	T3,R1	Knowledge Representation	3.1			Delivery	
	1	T3,R1	Representing Simple Facts in Predicate Logic	3.2			Method	
Chalk &	1	T3,R1	First Order Predicate Logic(FOPL)	3.3				
Board	1	T3,R1	Prolog Programming Unification	3.4	100			
Power poi	1	T3,R1	Forward Chaining, Backward Chaining	3.5	20/35 (2)		Chalk & Board Power point presentations	
presentation	1	T3,R1	Resolution	3.6	CO - 3			
Assignmen	1 "	T3,R1	Natural Deduction	3.7				
	1	T3,R1	Ontological Engineering, Categories and Objects	3.8				
Test	1	T3,R1	Events, Mental Events and Mental Objects	3.9				
	1	T3,R1	Reasoning Systems for Categories	3.10			Assignment	
	1	T3,R1	Reasoning with Default Information	3.11			Test	
#3.# 1000 #10+1)	11	Total						
Colomodia and Colombia	e.	d Reasoning	Uncertain Knowledge an	4				
Chalk	1	T1,T2,T3	Introduction to Non-Monotonic Reasoning	4.1	S2			
&	1	T1,T2,T3	acting under Uncertainty	4.2				
Board	1 *	T1,T2,T3	Basic Probability Notation	4.3	IV CO-4	¥		
Power point	1	T1,T2,T3	Inference Using Full Joint Distributions	4.4		IV	Chalk & Board	
presentation	1	T1,T2,T3	Bayes' Rule and Its Use, Independence	4.5				
Assignment	1	T1,T2,T3	Representing Knowledge in an Uncertain Domain	4.6			Power poin	
Test	1	T1,T2,T3	Probability and Bayes Theorem	4.7			resentatio	
	1	T1,T2,T3	The Semantics of Bayesian	4.8				

Unit / Item No.	Topic	Book Reference	No. of periods	Dimin um 1940
3 10			æ	



SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Narsapur, West Godavari District, A.P. 534280

DEPARTMENT OF INFORMATION TECHNOLOGY

	M.		Networks			
				Total	8	
		5.1	AI Applications		6	
	CO - 5	5.2	Language Models	T1,T3,R1	2	1
		5.3	Information Retrieval	T1,T3,R1	1 "	
		5.4	Information Extraction	T1,T3,R1	1 *	
X7		5.5	Expert Systems	T1,T3,R1	1 *	
V		5.6	Natural Language Processing	T1,T3,R1	1 5	Po
		5.7	Machine Translation- Speech Recognition	T1,T3,R1	1	pre
		5.8	Robot-Hardwar, Perception, Planning, Moving	T1,T3,R1	2	A:
				Total	09	
			CUMULATIVE PROPOSEI	PERIODS	60	

7.8		And Supplements	
SE			
			1
14			8' 1
	4 V 1 N N		
98	2	H ⁽⁰⁾ H	
		107 105	
		υ ^Ψ 35	
			at 8
-		W L	
		· A	
			1 th
			125

TEACHING PLAN II - Staff Member: R. Uma Aguma Davi 2024 Course & Branch B. Tach & I 024 Section Subject AI Code 26 IT STO2 5/6/2024 Last working day 11/10/2024 6 _____ No. of Classes ____ 66 1. ... me Blooks : Text Books: AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION S. No. S. Russell and P. Norvig, "Artificial Intelligence: A Modern Approach!, Pientice Hall, Third 1 Edition, 2009. Saroj Kaushik, "Artificial Intelligence", Cengage Learning India, 2011 2 Artificial Intelligence, Elaine Rich, Kevin Knight, Shiva Sankar B. Nair, The McGraw Hill 3 publications, Third Edition, 2017. Bratko, —Prolog: Programming for Artificial Intelligencel, Fourth edition, Addison-Wesley neir evaluation is Educational Publishers Inc., 2011. Reference Books: AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION ent is absent on a S. No. a 'A' for absent, George F. Luger, Artificial Intelligence: Structures and Strategies for Complex Problem 1 Solving, Pearson Education, 6th ed., 2009. David Poole and Alan Mackworth, "Artificial Intelligence: Foundations for Computational riate columns in Agents", Cambridge University Press 2010. Web Details: https://nptel.ac.in/courses/106105077 1 https://nptel.ac.in/courses/106106126 in the AAR and https://aima.cs.berkeley.edu https://ai.berkeley,edu/project_overview.html the lateral entry Name Signature with Date he actual no. of. may be given as Course Coordinator Mrs. R.Uma Aruna Devi Module Coordinator Dr. RVVSV Prasad Surgional calculating the Programme Coordinator Dr. RVVSV Prasad -wise proposed

re completed)