

SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION - 1

CURRICULAR ASPECTS



INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING





Criterion 1	Curricular Aspects	100
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1.1 Curricular Planning and Implementation (20)

1.1.1The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

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S.No	Description
1	Contents - Course File
2	Class Time Table
3	Students Name List
4	Subject Information Record
5	Syllabus
6	Lesson Plan
7	Test Plan For Subject
8	Result Analysis of Test
9	Corrective Action Report
10	Quality Objective Monitoring Record
11	Students Mark List
12	Test Question paper
13	Test Answer Sheet
14	Assignment Question paper
15	Assignment Answer Sheet



SASURIE College of Lagracerad

Departm	CIT AT & DS.	
Subject	oded Nime ADSADS & ARTIFKIAL INTELLIGI	ENCE - I
Beer 1	Batch III & COT (ATE AC)	
Semester		
110	CONTENTS - COURSE FILE PARTICULARS	REMARKS
	Time Table	
	Student name list	
;	Subject Information Record	
4	Syllabus	
5	Lesson Plan	
- 6	Test Plan for the Subject	
7	Result Analysis	
8	Corrective Action Report	
ç	Quality objective monitoring record	
10	Internal test mark sheet(Consolidated)	
11	Internal test question paper	
12	Model question paper	
13	Sample Answer paper for all test(Min-3)	
14	Content beyond the syllabus	
15	Tutorial Class - schedule and content	Soft copy
16	Assignment – schedule and paper	
17	PPT - handout	Soft copy
18	Video - Animation - Soft copy	Soft copy
19	Question bank ·	Soft copy
20	Sample university question papers(min 5 QP-recent exam)	Soft copy
21	Personal Log book - Updated	
22	Lecture Note	Solver
	Special Class if any. Approval letter, Schedule, content	S. H
23	anvarad	

	Prepared By	Approved By
Sign:	6 dufa	8
Name:	G. SOWHIYA	S. PRABAKARAN
	1 pluits	IID
hinter	Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING,	Hond, Dorit of Cate SASURIE College of Engineering College of Engineering



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ALL

CLASS TIME TABLE. Academic Year 2021-11-1-XV-5 Semester

DAY 4

DAY 5

5. No	Subject Code	Acronym	Name of the Subject	Name of the Staff & Department	No of bours
1	AD8402	AI - I	Artificial Intelligence I	Mrs.G.Sowmiya APICSF	to .
			TOTAL.		*

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Prepared By Verified By Authorized K Dr.E.NA×DKI MAR G. Jufa Mrs. C. Sovimiya V Sign Name Mr.S.Prabakaran F. C. HD I/C Time table 1/C Principal HALA. DOLLOTH 162118

Dr.M.VIJAYAKUMAR PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt). ME .. Ph.D.,



Academic Year 2021 2022 IATN Semester

5450111

STUDENTS NAME LIST

Department AI&DS

SL. No	Register Number	Student's Name	H D
1	732420243001	BHARADWAJS	<u> </u>
2	732420243002	KATHIRAVAN TJ	H
3	732420243301	INDHARESH	D

SIGN	Gidela-	D
	Ms.G.SOWMIYA	Mr.S.PRABAKARA
NAME	CLASS ADVISOR	HOD

SASURIE College of Engineer a Winyamangalam 628 053 51000-

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).

A	D8402	ARTIFICIAL INTELLIGENCE		L 3	Т 0	P 0	C 3		
T	Understand the basic of Develop general-purponder uncertainty	ise is to enable the students to concepts of intelligent agents ose problem solving agents, logical rea to solve some of today's real world pro		3 0 0 3 ning agents, and agents that reason areas. 9 lity – nature of environments – structure strategies 9 ous space – search with non-deterministic arch agents and unknown environments 9 monte-carlo tree search – stochastic tacking search for CSP – local search for CSP – local search for orem proving – propositional modei ion and engineering – inferences in first- ANNING 9 tal objects and modal logic – reasoning for planning – hierarchical planning – hierarchica					
		INTELLIGENT AGENTS Its and Environments – concept of ration – search algorithms – uninformed sear				envir	onmer	its - stri	clure
}	JNIT II Heuristic search strategi Local search and optimi actions – search in parti	PROBLEM SOLVING ies – heuristic functions zation problems – local search in conti ally observable environments – online	nuous s search a	pace agent	– sea s anc	arch v I unkr	vith no nown e	n-deterr environm	ninistic ients
	UNIT III G	AME PLAYING AND CSP decisions in games – alpha-beta searc vable games problems – constraint propagation – ba	h – mon	te-ca	rlo tre	e sea	arch –	stochas	tic
	checking – agents base First-order logic – synta order logic – forward ch	haining - backward chaining	ntation a on	ind er	ngine	prop ering	- infer	al mode ences ir	i first-
	Ontological engineering systems for categories	NOWLEDGE REPRESENTATION AND g – categories and objects – events – m – reasoning with default information gorithms for classical planning – heurist ains – time, schedule, and resources	tics for p	lannii	unia	moda nierar	l logic chical	– reaso	ning g –
	 Explain autonomous adversarial settings Choose appropriate 	S: letion of this course, the students will agents that make effective decisions in algorithms for solving given AI problem ent logical reasoning agents ent agents that can reason under uncer	ıs	e to forme	:d, pa	rtially	obser	vable, a	nd
	TEXT BOOK 1. Stuart Russel and P Education, 2020.	eter Norvig, "Artificial Intelligence: A Mo	odern Ap	pproa	ch", f	-ourth	n Editic	on, Pear	son
	REFERENCES	terresturation to AL and ES" Pearson Ed	lucation	2007	,				

L Dan W. Patterson, "Introduction to AI and ES", Pearson Education, 2007

2. Kevin Night, Elaine Rich, and Nair B., "Artificial Intelligence", McGraw Hill, 2008

3. Patrick H. Winston, "Artificial Intelligence", Third edition, Pearson Edition, 2006

4. Deepak Khemani, "Artificial Intelligence", Tata McGraw Hill Education, 2013 (http://nptel.ac.in/)

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Vijayamangalam - 638 056, Tirupur (Dt).

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m# (SOWMINA	croson com		De	Semester/ Year	iant Professo IV/II	
		INCE AND INCINICATING					
		UIGINCE 1/ADB402					
Teal	2021 2022		1 1	[Actual		00
Propo		Details of Topic Covered	TA	Rel.	Date	Period	
Date	Period	UNIT LINTELLIGENT AGENTS		r			
0000	3		1	1	15322	4	
0322		Agents and Environments	1	1	16/3/22	8	
113/22	415	concept of rationality	1	1	17/3/22	3	
12/3/22	0		1)	18/3/22	4.5	
14/3/22	- 8	nature of environments	1	1	21/2/22	8	
15/3/22	- 4	structure of agents		1	02/3/22	4	
16322	- 8	Problem solving agents		+		8	
17/3/2	2 3	search algorithms			23 3 22	3	
18/3/2		Characteristics of search algorithm		1	24/3/22		0
1		uninformed search strategies	1	1	25 3 22	4.5	E
21/3/22	610	UNIT II PROBLEM SOLVING					
lolo		Heuristic search strategies	1	1	26/3/22	- 4	
1 mil	22 4	heuristic functions	1	1	29/3/25	24	
233	2	Example for heuristic search strategies			1 30/3/2	28	
2 243		- Local search)	1313	223	
13 253	22 415	optimization problems		1	1/11/22	2 415	
14 26/3	22 4	local search in continuous space)	1 11/4/2		
15 29 3	22 9			,	1 10/11/00	2 4	
16 303	22 8	search with nondeterministic actions		-+	1 12/11/2		
17 313	122 3	search in partially observable environments			11214	0	0
18 LIU	122 415	online search agents and unknown environments)	1 18/4/2	2 8	4
	10	UNIT III GAME PLAYING AND	D CSP				,
19 11/11	122 8	Game theory optimal decisions in games		1	1 19/4	22 9	
20 12)	102 4	alpha-beta search		1	1 20/4	22 8	
14	122 8	monte carlo tree search)	1) 21/0	122 3	
21 13 1				1	1 231	122 915	_
22 18	4/22 8	Constraint satisfaction problems)	1 2210	122 8	
23 191	422 0	t		1	- 2314	122 8	
24 80	4/22 8				1 251	1	
25 21	4/22 3	backtracking search for CSP			261	9/22 5	
		local search for CSP		1	27)	4/22 8	
26 22	14/22 AI						h

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Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



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(Accredited by NAAC, Under 21 and 128 status)

Di signation: Assistant Professor Semester/ Year: IV/ II

Department

G SOWMIYA COMPUTER SCIENCE AND ENGINEERING ARTIFICIAL INTELLIGENCE 1/AD8402

bject /		021-2022	Automatic Procession		T	Actu	al	HOD
adem	k Year 2	ort rord		TA	net.	Date	Period	
T	Proposi	ed	Details of Topic Covered		1-	1		
NO.	Date	Period					TT	
_			UNIT IV LOGICAL AGENTS		T	na/4/22	415	
218	20/11/22	8	Knowledge-based agents , propositional logic propositional theorem proving , propositional model	1.2	1	30/4/22	3	
29	26/4/22	4	checking		11	815/22	8	
30	27/4/22	8	agents based on propositional logic		1	15/22	8	
31	20/11/02	3	First-order logic	1,7	1	C15/22	3	
32	29/11/22	415	- synlax and semantics	1.	2	415/22	415	
33	20/ule2	3	knowledge representation and engineering		-+-	0131-	a	
3.0	8/0/22	8	inferences in first-order logic	1		10121-2	-	
35	15/22	- 8	forward chaining - backward chaining		1	piet-	Q	16
36	5/5/22	-3	resolution		1	1852	210	10
-			UNIT V KNOWLEDGE REPRESENTATION	AND PLANNI	NG		To	Γ
3	1 41-122	- 015	Ontological engineering ,categories and objects, ev	ents 1	12	1 1962		\geq
3	8 16/5/0	28	Mental objects and modal logic	1.6.1	1	1 2015		
-	10/5/2	24	Reasoning systems for categories ,reasoning with c information		1	1 23/5	22 8	
-	17 18/5/2	28	Classical planning		1	24/5	224	
-	10 Ple 2	23	Algorithms for classical planning		1	295	22 8	_
-	42 90/de	22 A.C	Hierarchical planning)	200/21	22 3	-
F	43 90210	12 8	Non-deterministic domains		1	1 2751	22 4,5	
-	0351	2 4	Time, schedule, and resources)	1 28/5]	22 4	1 1
-	45 25 F	2 8	Analysis)	1 3/5	22 8	3 62

Reference books (Ref).

1 Stuart Russel and peter norvig Artificial intelligence: A Modern Approach'2020-

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Teaching Aids (TA):

1 Black Board with Chalk

2 Overhead Projector

3 LCD Projector

o Others (Field visis, Charts, Cutser Models)

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Faculty	HOD	Principal De
T BLOWY		

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TEST PLAN FOR SUBJECT

Subject : ARTIFICIAL INITELLIGENCE - I . Faculty G. SOWH14A

Semester : IV

Y Cal II

Department : CSE [AIDS]

S. No.	Description	Planned Date/Month	Actual Conducted Date / Month	Remarks
1.30	Internal TestI		i de la companya de l	dated 15.0 Si-
Se	gatemal Test I	14,5.22	18.05.22	college seopen_ date 15.03,22 only
3.	Internal Test III	11.6.22	15.06.22	College seopen date 15.03,22 only

	Prepared By	Approved By
Sign:	Geler	8
Name:	GI. SOWHLYA	S. PRABAKARAN
[Faculty	HD
		Head, Dept. of CSE SASURIE Collage of Engineering Vibremangahn 438 835, Erode C
		Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



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RESULT ANALYSIS OF TEST

Subject	ARTTFICIAL	THTELLIGENCE-I	Date	2014/22
Class	Ī		Department	CSELAI
Semester	T			
Exam details &	¢ date	Internal		
Faculty		G. SOWN	INB	
Number of stu	idents	: 03		
No. of student	s attended	:03		
No. of student		NIL		
No. of studen		:01 ·		
No. of studen		02		
Percentage of		: 66		~ • •
	-	~		

RESULT DATA:

Marks	0-25	26-50	51-75	. 76-90	91-100
No. of Students		d	1	-	

	Prepared By	Approved By
Sign: Name:	G Jufa. G. SOWIMIYA Faculty	S. PRAIBAKARAN HD Head, Dapi, of C3E SASURIE College of Engineering Vierenaugher with total back
		Dr.M.VIJAYAKUMAR ME., Ph.D.

SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



RESULT ANALYSIS OF TEST

-1

Subject	ARTIFICIAL	INTELLIGIENCE -1	Date	18.05.22
Class	I		Department	CSE[AIDS]
Semester	T			
Exam detail	s & date	:Internal :	12 48.5.22	L.
Faculty		G. SOWIH	149	
Number of	students	: 8		
No. of stud	ents attended	. 3	*	
No_of stud	lents absent.	: NIL		
No. of stuc	ients passed	: 03		
No. of stud	dents faileð	NIL		•
Percentage	e c! failures	: NIL		×., -
	-			

RESULT DATA:

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1 C

Marks	0-25	26-50	51-75	76-9 <u>0</u>	91-100
No. of Students	-	-	3	-	_

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	Prepared By	Approved By	
Sign:	G. Jula	R	
Name:	G. SOWMIYA	S. PRABAKARAN	
	Faculty	liD	
		Mead, Dunt of CSE SASURIE College of Engineering Views assale with the bade?	no
			VIJAYAKUMAR ME., Ph.D., PRINCIPAL E COLLEGE OF ENGINEERING, hangalam - 638 056, Tirupur (Dt).



SASURIE College of Engineering Vijayamangatam, Brogoni

RESULT ANALYSIS OF TEST

Subject ARTIFICIAL	INTELLIGIENCE -I Date 15/5/22
Class I	Department CSE LAIR REJ
Semester IV	
Exam details & date	Internal Test III [Model Exam] 15/6/2
Faculty	BI. SOWHIYM .
Number of students	:03
No. of students attended	:01
No. of students absent	:02
No. of students passed	D
No. of students failed	1
- Percentage of failures	100 -/

RESULT DATA:

Marks	0-25	26-50	51-75	76-90	91-100
No. of Students	-)	-	-	-

Prepared By Go Sign: G. SOWHIYA Faculty

Approved By

S. PRABAKARAN

HD

Head, Dept. of CSE SASURIF College of Engineering

Dr.M.VIJAYAKUMAR ME., Ph.D., SASURIE COLLEGE OF ENGINEERING, Vijayamangalum - 638 056, Tirupur (Dt).

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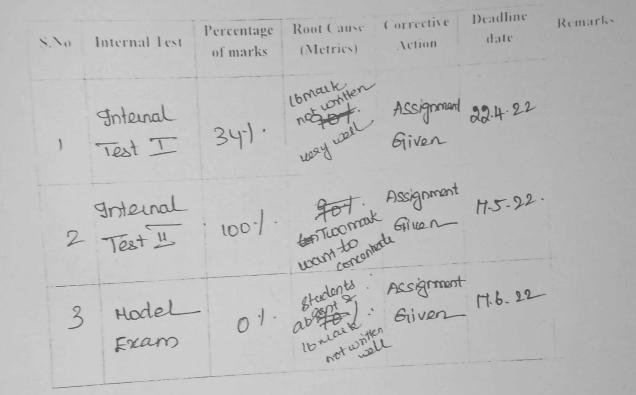
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2

Subject

ARTIFICIAL INTELLIGENCE - I

E-I Semester



Approved By Prepared By S. PRABAKARAN G SOWHY 111) Faculty Head, Dept. of CBd SASURIE College of Engineoring Vijayamangalam ald bas brown it Dr.M.VIJAYAKUMAR ME., Ph.D., SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



QUALITY OBJECTIVE MONITORING RECORD

Department : CSE EAT & DS]

Year :II

Semester : W

Subject : Artificial Intelligence - I.

	Quality	Internal Test-1		Internal Test-II		Model Lest-1	
N.No	Quality Objective	Expecting result	Obtained result	Expecting result	Obtained result	Expecting Result	Obtained result
1	To make student obtein Knowledge on Astificial	r aughlaur	34-1	90%	100-1-	90-1-	p./.

	Prepared By	Approved By
Sign:	G. Jula	R
Name:	G. Jufa G. SOWIHIYA	S.PRABAKARAN
	Faculty	HD
		Head, Dept. nt C3E SASURIE College of Engineering Viayanasestra-Sitistic terr Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



SASURIE Calification Company

Academic Year 2021 - 2022 EVEN Semester

MARK LIST

Department Computer Science and Engineering

ear/ SL	Sem III / VI		INTERNAL MARK 1	INTERNAL MARK 2	MODEL EXAM MARK
NO	Register Number	Student's Name	INTERODIC		AB
1	732420243001	BHARADWAJ.5	34	58	PB
2	732420243002	KATHIRAVANJ	42	60 55	Ab
3	732420243301	INDHARESH	70		
F	SIGN	Git			
1	NAME	G SOWMIYA FACULTY	S. Prabaka	nan -	

Wal

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt). Ally

1				R	egister Number:		III
		SASURIE		C	ASURIE o'lege of Engineer		100
210	DEL	EXAMINAT	LION - I	Date/Session	15.06.2022/FN Ma	rks	100
Course		AD8402	Course Title	ARTIFICIAL	INTELLIGENCE -	T	
Regula	tion	2021	Duration	3 Hours	Academic Year	2021-2022	2
Year		II	Semester	IV	Department	AI&DS	
	SE O	UTCOMES		1			
CO1:	par	tially observa	ble and adv	ersarial settings	ive decisions in fully iven Al problems.		
e02:	Cno	lose appropri	ate argoriten				
CO3:	Des	ign and imple	ement logica	l reasoning ager	nts.		
CO4:	Des	ign and imple	ement agent	s that can reason	n under uncertainty		
	1						
).No.				Question		CO	BTS
		(Ansv	wer all the	PART A Questions10 x	2 = 20 Marks)		
1	Defi	ne Agent?				CO1	R
2	List	some uniform	ed search te	chniques?		CO1	U
3	Who	t is AI?				CO1	R
		t is ontologica	al engineerin	σ ⁹		CO2	U
4	**112	t is ontologica	in engineer m	5		02	0
5	Diffe	rent between	proposition	al and first orde	r periodic logic?	CO3	U
6	Writ	e about optim	nal decision 1	naking game?		CO2	U
7	Defi	ne Game theo	ory and types	s of games in Al.		CO2	R
8	List	down charact	eristics of in	telligent agents?		Ç03	R
9	Wha	t is problem s	olving agent	s?	67	e CO3	R
10	0.6	ne alpha-beta	consta		Dr.M.VLIAY		, Ph. D,

- / -	PART B		
/	(Answer all the Questions 5 x 13 = 65 Marks)		
11	Detail about propositional theorem proving.	CO1	E
11a	OR		
111	Illustrate inferences in first order logic.	CO1	E
116	Explain detail about optimal decision making game.	CO2	C
12a			1
1.21	OR i) .Explain about backtracking search in CSP.	CO2	U
12b	ii) Discuss about types of games in game theory		
	Describe online search agent and unknown environments.	CO3	E
13 a			
104	OR		
13 b	Explain about constrain satisfaction problem in Al.	CO2	E
14 a	Discuss about ontological engineering?	CO2	А
	OR		
14 b	Illustrate algorithm for classical.	CO4	С
15 a	Explain in detail about class of agents.	CO4	E
10 0	OR		
15 b	Describe detail about uniformed search algorithm.	CO1	С
	PART C (Answer all the Questions 1 x 15 = 15 Marks)		
16 a	Explain alpha-beta pruning algorithm and the minmax game playing algorithm with the example.	CO2	A
	OR		
16 b	Discuss about heuristic search strategy	CO1	A

G. Juffer Course Faculty

(Name/Sign/Date) G. SOWHIYA

HoD

(Name/Sign/Date) (S. Produceran)

A

Principal

(Name/Sign/Date)

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



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SASURIE College of Engineering

Internal Assessment Test Answer Book

Name	Inthasesh.	P		Year/ Semester/Section	TILA
Register	132420243301		15.6.22 [FN	Department	ALSDS
Number Course code	AD8402	Course Title	Artifical	Intelligence - 1. IAT 3 Mod	
Internal Assessment Test IAT 1					
Name and Signature of the Invigilator with date			B. Mon	ehmf156/28. Moi	ichamy

Part A				Part B/ Part C					
	1			\checkmark	а	1	b	Total Marks	
Q. No.		Marks	Q. NO.		Marks		Marks		
1	5	2	11						
2	1	2	12						
3	5	2	13						
4	~	١	14	~	10			10	
5	5	2	15	~	8			8	
6	5	2	16	5	9			9	
7	1	2				G	rand Total	27	
8	5	2							
9	5	2					62	Vo -	
10	~	2		26	1100		J. Yr	7622	
Tot	al	19	G	Grand Total			Name and Signatur of the Examiner with		

		To be fil	led by the	examiner			
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	36	32	6	26	-	-	100
Marks Obtained	17	5	6	18	-	-	46
		es and est	"Marine				Signature C m mber
					100		

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Assignment Question Paper

	Assignment		Date of Issue:	05.04.2022	Marks 10
Course code AD8402		Course Title	ARTIFICIAL INTELLIGENCE - I		10.04.0000
Year	11	Semester/Section	IV/ A	Date of Submission:	19.04.2022

E.Q.No	Questions	СО
1	Explain in detail about game theory in AI.	CO2
2	Give brief notes on monte carlo tree search	CO2

G. Jufe Name and Signature of the Faculty Incharge G.SOWMIYA

B/AI&DS S. Prederication Hol

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).