

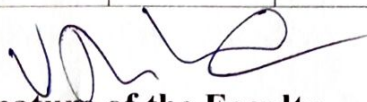


**SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)**  
**Rahmath Nagar, Tirunelveli - 627 011**  
**Online-Class Lesson Plan**  
**Academic Year 2020-2021 [Even Semester]**

**Department: COMPUTER SCIENCE(PG)**

<b>Class</b>	:	II M.Sc
<b>Semester</b>	:	IV
<b>Name of the Faculty</b>	:	V. ROSELINE
<b>Title of the Course</b>	:	ARTIFICIAL INTELLIGENCE
<b>Subject Code</b>	:	18PECS4A
<b>ICT Tools used</b>	:	
<b>Text books</b>	:	Artificial Intelligence, Elaine Rich, Kevin Knight
<b>Reference books</b>	:	S.Rajasekaran G.A.Vijayalakshmi Pai "Neural networks, Fuzzy logic, and Genetic algorithm , synthesis and Applications"
<b>e-resources</b>	:	

Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
1	Jan, 2021 5	B	I	What is Artificial Intelligence?	05.01.21	Covered
2	6	C	I	The AI Problems	06.01.21	..
3	7	D	I	The Underlying Assumptions	07.01.21	..
4	11	F	I	What is an AI Techniques?	11.01.21	..
5	13	B	I	Problems spaces	13.01.21	..
6	18	C	I	Search	18.01.21	..
7	19	D	I	Defining the Problems as a State Space Search	19.01.21	..

  
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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
8	21	F	I	Production Systems	21.01.21	..
9	23	B	I	Problem Characteristics	25.01.21	..
10	25	C	I	Problem Characteristics	25.01.21	..
11	27	D	I	Production System Characteristics	27.01.21	..
12	29	F	I	Issues in the Design of Search Programmes	29.01.21	..
13	Feb - 21 1	B	II	Knowledge Representation Generate - and-Test	1.02.21	..
14	2	C	II	Hill Climbing	2.02.21	..
15	3	D	II	Best-First Search	3.02.21	..
16	5	F	II	Problem Reduction	5.02.21	..
17	8	B	II	Constraint Satisfaction	8.02.21	..
18	9	C	II	Means - Ends - Analysis	9.02.21	..
19	10	D	II	Knowledge Representation issues	10.02.21	..
20	12	F	II	Representation and Mappings	12.02.21	..
21	16	B	II	Approaches to Knowledge Representation	16.02.21	..
22	17	C	II	Issues in Knowledge Representation	17.02.21	..

  
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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
23	18	D	II	The Frame Problem	18.02.21	..
24	20	F	III	PREDICATE LOGIC	20.02.21	..
25	23	B	III	Using predicate logic	23.02.21	..
26	24	C	III	Representing Simple facts in Logic	24.02.21	..
27	25	D	III	Representing Instance and Is a relationships	25.02.21	..
28	27	F	III	Computable functions and Predicates	27.02.21	..
29	Mar-21 2	B	III	Resolutions	2.03.21	..
30	3	C	III	Natural Deductions	3.03.21	..
31	4	D	III	Representing Knowledge Using Rules	6.03.21	..
32	6	F	III	Procedural versus Declarative Knowledge	6.03.21	..
33	9	B	III	Forward versus Backward Reasoning	9.03.21	..
34	10	C	III	Matching	10.03.21	..
35	11	D	III	Control Knowledge	11.03.21	..
36	15	F	IV	REASONING	15.03.21	..




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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
37	17	B	IV	Symbolic Reasoning under uncertainty	17.03.21	"
38	18	C	IV	Symbolic Reasoning under uncertainty	18.03.21	"
39	19	D	IV	Introduction to Non Monotonic Reasoning	19.03.21	"
40	22	F	IV	Logics for Non Monotonic Reasoning	22.03.21	"
41	24	B	IV	Implementation issues	24.03.21	"
42	25	C	IV	Breadth – First Search	25.03.21	"
43	26	D	IV	Statistical reasoning	26.03.21	"
44	30	F	IV	Bayesian Networks		
45	Apr-21 1	B	IV	Fuzzy Logic		
46	3	C	IV	Learning		
47	5	D	IV	Rote Learning		
48	7	F	IV	Learning by taking advice		
49	9	B	V	EXPERT SYSTEM		
50	15	C	V	Connectionist Models		
51	16	D	V	Hopfield Networks		

  
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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
52	19	F	V	Hopfield Networks		
53	21	B	V	Learning in Neural Networks		
54	22	C	V	Learning in Neural Networks		
55	23	D	V	Applications of Neural Networks		
56	26	F	V	Expert Systems		
57	28	B	V	Expert Systems		
58	29	C	V	Representing and Using Domain Knowledge		
59	30	D	V	Expert System Shells		
60	May-21 4	F	V	Knowledge acquisition		

  
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**SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)**

**Rahmath Nagar, Tirunelveli - 627 011**

**Online-Class Lesson Plan**

**Academic Year 2020-2021 [Even Semester]**

**Department: COMPUTER SCIENCE(PG)**

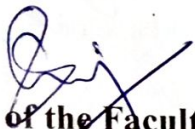
<b>Class</b>	:	I M.Sc Computer Science
<b>Semester</b>	:	II
<b>Name of the Faculty</b>	:	DR.S.SHAJUN NISHA
<b>Title of the Course</b>	:	INTERNET OF THINGS
<b>Subject Code</b>	:	18PCCS23
<b>ICT Tools used</b>	:	
<b>Text books</b>	:	" Design the Internet of things", Adrian McEwen and Hakim Cassimally, Wiley, 2014
<b>Reference books</b>	:	"Internet of Things – Form Research and Innovation to Market Deployment" River Publisher, 2014
<b>e-resources</b>	:	


Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
1	January, 21 4	A	I	An Overview	25.01.2021	Covered
2	5	B		The Internet of Things	28.01.2021	"
3	6	C		The Technology of the Internet of Things	29.01.2021	"
4	8	E		The Technology of the Internet of Things	<del>30.01.2021</del>	"
5	11	F		Enhanced Objects	4.02.2021	"

  
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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
6	12	A		Design Principles for Connected Device	5.02.2021	"
7	13	B		Design Principles for Connected Device	4.02.2021	"
8	18	C		Calm and Ambient Technology	5.02.2021	"
9	20	E		Calm and Ambient Technology	6.02.2021	"
10	21	F		Managing Input	8.02.2021	"
11	22	A		Metaphor	9.02.2021	"
12	23	B		Metaphor	11.02.2021	"
13	25	C		Privacy	12.02.2021	"
14	28	E		Web thinking for connected Devices	15.02.2021	"
15	29	F		Web thinking for connected Devices	16.02.2021	"
16	30	A	II	Internet of Communication Overview	17.02.2021	"
17	Feb - 21 1	B		IP -TCP, IP / TCP - UDP.IP	19.02.2021	"
18	2	C		Address: DNS	20.02.2021	"
19	4	E		Static IP Address Assignment	22.02.2021	"
20	5	F		Dynamic IP Address Assignment	23.02.2021	"

  
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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
21	6	A		MAC Address	24.02.2021	..
22	8	B		TCP & UDP Ports	26.02.2021	..
23	9	C		Application Layer Protocols	27.02.2021	..
24	11	E		Prototyping	1.03.2021	..
25	12	F		Prototyping - Sketching	2.03.2021	..
26	15	A		Familiarity	3.03.2021	..
27	16	B		Prototyping & Production	15.03.2021	..
28	17	C		Prototyping & Production	16.03.2021	..
29	19	E		Open Sources Versus	17.03.2021	..
30	20	F		Closed Sources	9.03.2021 18.3.21	..
31	22	A	III	Electronics	10.03.2021 18.3.21	..
32	23	B		Embedded Computing	12.03.2021 18.3.21	..
33	24	C		Embedded Computing Basic	15.03.2021	..
34	26	E		Arduino	16.03.2021	..

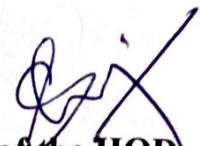
  
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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
35	27	F		Arduino	17.03.2021	..
36	Mar-21 1	A		Raspberry pi	18.03.2021	..
37	2	B		Begale Bone Black	<del>20.03.2021</del> 1-4-21	..
38	3	C		Electric Imp	<del>22.03.2021</del> 3-4-21	..
39	5	E		Prototyping the Physical Design	<del>23.03.2021</del> 5-4-21	..
40	6	F		Non Digital Methods	<del>24.03.2021</del> 6-4-21	..
41	8	A		Laser Cutting	<del>25.03.2021</del> 7-4-21	..
42	9	B		3D Printing	<del>27.03.2021</del> 8-4-21	..
43	10	C		CNC Milling		
44	12	E		CNC Repurposing		
45	15	F		CNC Recycling		
46	16	A	IV	API		
47	17	B		Writing a New API		
48	18	C		Real Time		

  
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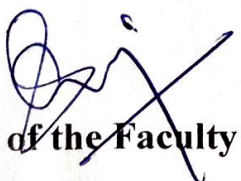
  
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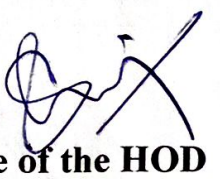
Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
49	20		E		Time Reaction		
50	22		F		Other Protocols		
51	23		A		Other Protocols		
52	24		B		Techniques for embedded		
53	25		C		Techniques for working embedded Code		
54	27		E		Techniques for working embedded Code		
55	30		F		Memory Management		
56	31		A		Performance		
57	Apr-21 1		B		Battery Life		
58	3		C		Libraries		
59	6		E		Libraries		
60	7		F		Debugging		
61	8		A	V	History of Business		
62	9		B		Models		

  
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Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
63	15		C		Internet of starting Up		
64	17		E		Lean Startup		
65	19		F		Moving to manufacture		
66	20		A		Designing Kits		
67	21		B		Designing Printed Circuit boards		
68	22		C		Designing Printed Circuit boards		
69	24		E		Certification		
70	26		F		Cost		
71	27		A		Scaling Up Software		
72	28		B		Ethics: Privacy		
73	29		C		Control		
74	May-21 3		E		Environment		
75	4		F		Solutions		

  
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**SADAKATHULLAH APPA COLLEGE (AUTONOMOUS), TIRUNELVELI-627011**

**LESSON PLAN AND RECORD OF CLASSES ENGAGED**

Course: M.Sc C.S.      Class: II Year      Academic year: 2020-21      Semester: IV

Title of the Paper: Soft Computing

Subject Code: 18PCCS42

Theory : 45 Hours

Name of the Teacher: K.A. Mohamed Riyazudeen

Sl. No	Date	Order	Unit	Topics planned	Covered on
1	6/01/2021	C	III	Introduction	Covered
2	8/01/2021	E	III	Biological Background	Covered
3	11/01/2021	F	III	Biological Background	Covered
4	18/01/2021	C	III	Basic Terminologies in Genetic Algorithm	Covered
5	20/01/2021	E	III	Basic Terminologies in Genetic Algorithm	Covered
6	21/01/2021	F	III	Operators in Genetic Algorithm: Encoding	Covered
7	25/01/2021	C	III	Selection	Covered

**TEXTBOOK(S):**

1. S.N Sivanandam S.N Deepa "Principles of Soft Computing", Wiley -India, 2007.
2. S.Rajasekaran and G.A.V.Pai, "Neural Networks, Fuzzy Logic and Genetic Algorithms", PHI, 2004.
3. J.S.R.Jang, C.T.Sun and E.Mizutani, "Neuro-Fuzzy and Soft Computing", PHI, Pearson Education 2004.
4. S.N.Sivanandam, S.N.Deepa, "Introduction to Genetic Algorithms", Springer, 2007.
5. Timothy J.Ross, "Fuzzy Logic with Engineering Application ", McGraw Hill, 2000.
6. Davis E. Goldberg, "Genetic Algorithms: Search, Optimization and Machine Learning" Addison Wesley, N.Y., 2003.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment	1	Operators in GA	Fuzzy sets	Defuzzification methods	29.01.21	04.02.21
Internal Test	3	1	1	1		

  
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Sl. No	Date	Order	Unit	Topics planned	Covered on
8	28/01/2021	E	III	Crossover (Recombination)	Covered
9	29/01/2021	F	III	Mutation	Covered
10	2/02/2021	C	III	Stopping Condition for Genetic Algorithm Flow	Covered
11	4/02/2021	E	III	Constraints in Genetic Algorithm - Problem Solving Using Genetic Algorithm	Covered
12	5/02/2021	F	III	Classification of Genetic Algorithm : Messy Genetic Algorithms	Covered
13	9/02/2021	C	III	Classification of Genetic Algorithm : Messy Genetic Algorithms	Covered
14	11/02/2021	E	III	Hybrid Genetic Algorithms.	Covered
15	12/02/2021	F	III	Hybrid Genetic Algorithms.	Covered
16	17/02/2021	C	IV	Introduction to Fuzzy logic	Covered
17	19/02/2021	E	IV	Classical Sets (Crisp Sets)	Covered 24/2/21
18	20/02/2021	F	IV	Fuzzy Sets	Covered
19	24/02/2021	C	IV	Classical Relations and Fuzzy Relations	Covered
20	26/02/2021	E	IV	Cartesian Product of Relation	Covered
21	27/02/2021	F	IV	Cartesian Product of Relation	Covered
22	3/03/2021	C	IV	Classical Relation - Fuzzy Relations	Covered
23	5/03/2021	E	IV	Classical Relation - Fuzzy Relations	Covered
24	6/03/2021	F	IV	Features of the Membership Functions	Covered
25	10/03/2021	C	IV	Features of the Membership Functions	Covered
26	12/03/2021	E	IV	Fuzzification	Covered
27	15/03/2021	F	IV	Fuzzification	Covered
28	18/03/2021	C	IV	Methods of Membership Value Assignments	Covered
29	20/03/2021	E	IV	Methods of Membership Value Assignments	Covered
30	22/03/2021	F	IV	Methods of Membership Value Assignments	Covered

Sl. No	DATE	Order	Unit	Topics planned	Covered on
31	25/03/2021	C	V	Defuzzification : Introduction	Covered
32	27/03/2021	E	V	Lambda-Cuts for Fuzzy Sets(Alpha-Cuts)	Covered
33	30/03/2021	F	V	Lambda-Cuts for Fuzzy Sets(Alpha-Cuts)	Covered
34	3/04/2021	C	V	Lambda-Cuts for Fuzzy Relations	Covered
35	6/04/2021	E	V	Defuzzification Methods	Covered
36	7/04/2021	F	V	Defuzzification Methods	Covered
37	15/04/2021	C	V	Fuzzy Decision Making	Covered
38	17/04/2021	E	V	Introduction - Individual Decision Making	Covered
39	19/04/2021	F	V	Multiperson Decision Making	Covered
40	22/04/2021	C	V	Multiperson Decision Making	Covered
41	24/04/2021	E	V	Multiobjective Decision Making	Covered
42	26/04/2021	F	V	Multiattribute Decision Making	Covered
43	29/04/2021	C	V	Fuzzy Bayesian Decision Making	
44	3/05/2021	E	V	Fuzzy Bayesian Decision Making	
45	4/05/2021	F	V	Fuzzy Bayesian Decision Making	

on  
7/4/21

  
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