

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC INTERNAL QUALITY ASSURANCE CELL INDRA GANESAN COLLEGE OF ENGINEERING



DEPARTMENT OF INFORMATION TECHNOLOGY

ACADEMIC YEAR 2019-2020/ EVEN SEMESTER

1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs,SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfullycompleted during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed onlinecourses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the lastfive years

VAC Title:	Smar	t Com	puting Tech	nologi	es in I	ОТ						
Resource P	esource Person: Mr. Selvaraj, Chief Executive Officer,Leo Tech, Vizro											
Date of con	duct from	m:	25.04.2020		To:	29.04.2020		Duration:	30 Hours			
Organized	Departm	nent:	INFORMA	TION	TECH	INOLOGY						
Participant	Year:	IT I	V,III,II	Seme	ster:	EVEN	No.	of Students 1	Registered:	77		
Venue:	Online mode meet.google.com/uke-cuhd-emh											

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Department of Information Technology Academic Year 2019 - 2020 - EVEN Semester

17.04.2020

DEPARTMENT CIRCULAR

Department of Information Technology and IQAC of IGCE in association with Leo Tech, Vizro is going to organize Value Added Course for all Second, Third and Final year students on "Smart Computing Technologies in IOT" by from 25.04.2020 to 29.04.2020 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

"IOT	1 Ms. U. Liza, Chief Executive Officer, eo Tech, Vizro	Ĩ
Venue	IT Seminar Hall, IGCE	

HOD/IT

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

CIPAL

Ce:

- Principal office
- IQAC Co-Ordinator
- Class In charges II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board





Value Added Course

" Smart Computing Technologies in IOT"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Embedded System and Internet of Things	3	25.04.2020
2	Embedded IoT Platform Design Methodology	3	25.04.2020
3	Pillars of Embedded IoT and Physical Devices	3	26.04.2020
4	IoT Protocols and Security	3	26.04.2020
5	Web of Things and Cloud of Things	3	27.04.2020
6	BACNet Protocol, Modbus, KNX, Zigbee Architecture	3	27.04.2020
7	Architecture Standardization for WoT, Platform Middleware for WoT	3	28.04.2020
8	loT Physical Servers, Cloud Offerings and IoT Case Studies	3	28.04.2020
9	IoT applications	3	29.04.2020
10	Real Time Systems	2	29.04.2020
11	Exam	1	29.04.2020
	Total Hours (Excluding Exam)	30	da

VAC Coordinato

3.~

HOD / I



Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road-



Madural Main Road (NH-458), Manikandam, Trichy-12. Approved by AICTE, NewDeihl & Affiliated to Anna University, Chennal

Value Added Course

"Smart Computing Technologies in IOT " STUDENTS PARTICIPATION LIST

Manikandam, Trichy-620 012. YEAR/ S.NO **REG NO** STUDENTS NAME BRANCH 1 811216205001 Anusuya Devi R IV / IT 2 811216205003 Balambigai A IV/IT 3 IV/IT 811216205004 Bharath C 4 811216205005 Boopalan K IV/IT 5 811216205006 Jeevamani M IV/IT 6 811216205007 evapriva D IV/IT 7 IV/IT 811216205008 Kalaivarasi N 8 811216205009 Kanagavalli J IV/IT .9 IV/IT 811216205010 Keerthika R 10 811216205011 Krishnan K IV/IT 11 811216205012 Muthulakshmi P IV / IT 12 811216205013 Nandhini C IV/IT 13 811216205014 Nelson IV/IT 14 811216205015 Parameshwari K IV/IT 15 811216205016 Poovaragavan IV/IT 16 811216205017 Priyadharshini A IV/IT 17 IV/IT 811216205018 Radhika M 18 IV/IT 811216205019 Roshini A 19 811216205020 Rubini K IV/IT 20 811216205022 Savithri S IV/IT 21 811216205023 Selvapathi V IV/IT 22 811216205024 Siyakavi S IV/IT 23 811216205025 Sivakumar S IV/IT 24 811216205026 Thanisha S IV/IT 25 811216205027 Thasthagir S IV/IT 26 IV/IT 811216205028 Victoriyarani T 27 811216205029 Vidhvasri M IV/IT 28 IV/IT 811216205030 Wasim Akram M 29 811216205501 Aravinthan S IV/IT 30 811217205001 Anitha G III / IT 31 811217205002 Balaii V III / IT 32 811217205003 Gopal P III/IT 33 811217205004 Hariharan S III / IT 34 811217205005 Karthick A III / IT 35 811217205006 Lisha Y III / IT 36 811217205007 Lokeshwaran V III / IT 37 811217205008 Merciya Mary A III/IT 38 811217205009 Mohamed Rivai Khan M HI/IT





COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDeihl & Affiliated to Anna University, Chennal

39 811217205010 Mukesh Kanna S III / IT 40 811217205011 Pakkiyalakshmi A III / IT 41 811217205013 Sankar C III / IT 42 811217205015 Santhiya K III / IT 43 811217205016 Saranya C III / IT 44 811217205017 Sudhahar S III / IT 44 811217205019 Tamilselvi M III / IT 45 811217205020 Thiruppathi S III / IT 46 811217205021 Vijayaraj S III / IT 47 811217205022 Vijayaraj S III / IT 48 811217205021 Vijayaraj S III / IT 50 811218205002 Deepa T II / / IT 51 811218205003 Gopi U II / / IT 52 811218205005 rudhayaraj A II / / IT 53 811218205006 anani S II / / IT 54 811218205007 anarthanan II / / IT 57 811218205010	<u> </u>	NO REG NO	STUDENTS NAME	F	YEAR/ BRANCH
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	REPORT ON	VALUE ADDED COU	IRSE	
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Manikandam, Trichy-620 012.



		SAMPLE	PHOTOS OF V. COURSE	ALUE AD	DED		
Title: "Sm	art Con	nputing Tec	chnologies in I	OT "			
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Name of the Student:

Year / Sem:

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Value Added Course

"Smart Computing Technologies in IOT"

MULTIPLE CHOICE OUESTIONS (25X1 = 25 Marks)

- 1. Which memory storage is widely used in PCs and Embedded Systems?
 - a) EEPROM
 - b) Flash memory
 - c) SRAM
 - d) DRAM

2. How is the protection and security for an embedded system made?

- a) Security chips
- b) Memory disk security
- c) IPR
- d) OTP
- 3. Which of the following task swapping method is a better choice in the embedded systems design? a) time slice
 - b) RMS
 - c) cooperative multitasking
 - d) pre-emptive
- 4. Which type of memory is suitable for low volume production of embedded systems?
 - a) Non-volatile
 - b) RAM
 - c) Volatile
 - d) ROM
- 5. Which activity is concerned with identifying the task at the final embedded systems?
 - a) scheduling
 - b) task-level concurrency management
 - c) high-level transformation
 - d) compilation

6. Which level simulates the algorithms that are used within the embedded systems?

- a) algorithmic level
- b) switch level
- c) gate level
- d) circuit level





- 13. What is the name of the Artificial Intelligence system developed by Daniel Bobrow? a) program known as BACON
 - b) system known as STUDENT
 - c) program known as SHRDLU
 - d) system known as SIMD
- 14. What is the function of the system Student?
 - a) program that can read algebra word problems only
 - b) system which can solve algebra word problems but not read
 - c) system which can read and solve algebra word problems
 - d) None of the mentioned

15. Which of the following is not an application of artificial intelligence?

- a) Face recognition system
- b) Chatbots
- c) LIDAR
- d) DBMS

16. Which of the following machine requires input from the humans but can interpret the outputs

- a) Actuators
- b) Sensor
- c) Agents
- d) AI system

17. ______number of informed search method are there in Artificial Intelligence.

- a) 4
- b) 3
- c) 2
- d) 1

18. The total number of proposition symbols in AI are

- a) 3 proposition symbols
- b) 1 proposition symbols
- c) 2 proposition symbols
- d) No proposition symbols
- 19. The total number of logical symbols in AI are
 - a) There are 3 logical symbols
 - b) There are 5 logical symbols
 - c) Number of logical symbols are based on the input
 - d) Logical symbols are not used

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20. Which of the following are the approaches to Artificial Intelligence? Indra Ganesan College of Engineering

- a) Applied approach
- b) Strong approach
- c) Weak approach
- d) All of the mentioned



- 21. Face Recognition system is based on which type of approach?
 - a) Weak AI approach
 - b) Applied AI approach
 - c) Cognitive AI approach
 - d) Strong AI approach

22. Which of the following is an advantage of artificial intelligence?

- a) Reduces the time taken to solve the problem
- b) Helps in providing security
- c) Have the ability to think hence makes the work easier
- d) All of the above

23. Which of the following can improve the performance of an AI agent?

- a) Perceiving
- b) Learning
- c) Observing
- d) All of the mentioned
- 24. Which of the following is/are the composition for AI agents?
 - a) Program only
 - b) Architecture only
 - c) Both Program and Architecture
 - d) None of the mentioned
- 25. On which of the following approach A basic line following robot is based?
 - a) Applied approach
 - b) Weak approach
 - c) Strong approach
 - d) Cognitive approach

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Value Added Course "Smart Computing Technologies in IOT"

ANSWER KEY

1	D	6	А	11	D	16	А	21	с
2	с	7	С	12	С	17	D	22	D
3	D	8	D	13	Α	18	С	23	D
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5	В	10	с	15	С	20	С	25	A

VAC Coordinatør

Dr. G. Ba M.E., Ph.D., cipal

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Department of Information Techenology

Academic Year 2019-2020- Even Semester

STUDENTS ATTENDANCE LIST

Value Added Course

"Smart Computing Technologies in IOT "

S.N O	REG NO	STUDENTS NAME	YEAR/ BRANC	25.5.	20	26.5.	20	27.5.	20	28.5,	20	29.5.	20	NO OF SESSIONS	SIGN OF THE
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2	811216205003	Balambigai A	IV/IT	V	Y A	14	X-	14	V	V	V	V	1	10	Online mode
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8	811216205009	Kanagavalli J	IV/IT	~	~	~	V	\checkmark		\checkmark	V	\checkmark	1	10	Online mode
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10	811216205011	Krishnan K	IV/IT	1		1	1	1	A		1	1	1	9	Online mode
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16	811216205016		IV/IT	1	1	1	1	~	(4)	ろ	1	1	1	Q	
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17	811216205018	Radhika M	IV / IT	(A)	1	1	2	2	an	1	1			8	Online mode
18	811216205019	Roshini A	IV/IT	X	1	1	1	1	3	-	1	-	8	8	Online mode
19	811216205020	Rubini K	IV/IT	n	2	1	0	5	1	1	1	<u></u>	(A)	9	Online mode
20	811216205022	Savithri S	IV/IT	1	2	-	1	~		~	<	~	1	0	Online mode
21	811216205023	Selvapathi V	IV/IT	1	1	-	0	6	1	(A)	~	~	1	9	Online mode
22	811216205024	Sivakavi S	IV/IT		- 1	-	10	(4)	1	21	1	1	\square	8	Online mode
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24	811216205026	Thanisha S	IV/IT	1	-	-		_	1	1	\sum	/	1	10	Online mode
25	811216205027	Thasthagir 5	IV/IT			-	1	1		0	1	~	1	10	Online mode
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37	811217205008	Merciya Mary A	111 / FT	1	A	1	1	1	1	~	2	10	1	10	Online mode
38	811217205009	Mohamed Riyaj Khan M	III/IT	1	1	A	1	~	n	1	2	2	1	10	Online mode
39	811217205010	Mukesh Kanna S	III / IT	1	1	1	1	n			2	n	1	10	Online mode
40	811217205011	Pakkiyalakshmi A	III / IT	1	1	1	1	n	n	2	1	n	n	0	Online mode
41	811217205013	Sankar C	III/IT	1	1	1	1	1	A	m	10	0	1	4	Online mode
42	811217205015	Santhiya K	III / IT	1	1	1	1	A	2	S	1	(A)	1	9	Online mode
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47	811217205020	Thiruppathi S	III/IT	0	20	2	1	0	1	2	1			10	
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64	811218205015	Pavithra.N	II / IT	~	1	1	0	1		1	-5	1	-	10	Online mode
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66	811218205017	Robinson Isaiah E	II/IT	VA	V	V	V	V	1	V	V		0	10	Online mode
67	811218205018	Selvi M	II/IT	V	V.	V	V	-V	V.	V	V	V	V	10	Online mode
68	811218205019	Shalini Gayathri S	II/IT	V	V	IV.	V,	V	V	1	(A)	V	NR	9	Online mode
69	811218205020	Sivaraman S	II/IT	Ø	1	V	V	$\left(\Theta \right)$	1	1	1	1	V	8	Online mode
70	811218205021	Snekaa R		V	V		(A)	1	V	·V	V	A	V	8	Online mode
71			11/1T	1	1	V	1	1	V	A	V	V	V	9	Online mode
72	811218205022	Suganya K	II/JT	V	V	V	V	V	V	V	V	V	V	io	Online mode
	811218205023	Vasanth S	II / IT	V	1	V	V	V	V	V	1/	1	TO	2	Online mode
73	811218205024	Vijayakaran M	II / IT	1	A	V	1	17	1	1/	A	1	(D)	8	Online mode
74	811218205025	Wilson Jayaraj S	II / IT	1	17	10	V.	1	V	V	0	V	6	1	
75	811218205026	Antony Arul Doss A	II / IT	17	X	A	V	V	X	V	1.	V	V	10	Online mode
76	811218205027	Geethanjali R	II / IT		17	0	V		V	N.	V	V.	V	9	Online mode
77	811218205028	Dhanalakshmi K	II / IT	1	V	V	Y	-X	V	V	V		V	10	Online mode
		And the second s		V	V	V	V	V	(P)	V		1	-	9	Online mode









Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Department of Information Technology Academic

Year 2019 -2020- Even Semester

VALUE ADDED COURSE ASSESMENT SHEET

"Smart Computing Technologies in IOT "

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attenda	nce Details	VAC-M	OVERALL	
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of B)
1	811216205001	Anusuya Devi R	IV/IT	30	100	20	80	90
2	811216205003	Balambigai A	IV/IT	30	100	20	80	90
3	811216205004	Bharath C	IV / 1T	27	90	19	76	
4	811216205005	Boopalan K	IV/IT	27	90	21	84	83
5	811216205006	leevamani M	IV / IT	27	90	19	76	87
6	811216205007	Jeyapriya D	IV / IT	27	90	19	- a -	83
7	811216205008	Kalaiyarasi N	IV/IT	30	100	20	76	83
8	811216205009	Kanagavalli J	IV/IT	27	90	19	80	90
9	811216205010		IV / IT	27	90	19	76	83
10	811216205011		IV/fr	27	90	-	76	83
11		Muthulakshmi P	IV / IT	30	100	19 21	76 84	83 92

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.





COLLEGE OF ENGINEERING Madural Main Road (NH-458), Manikandam, Trichy-12, Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of B)
12	811216205013	74	IV/IT	27	90	20	80	85
13	811216205014		IV / IT	30	100	21	84	92
14	811216205015	Parameshwari K	IV / IT	30	100	19	76	88
15	811216205016	TOTAL STREET, STRE	IV / IT	27	90	19	76	83
16		Priyadharshini A	IV / IT	24	80	20	80	80
17	811216205018		IV / IT	24	80	21	84	82
18	811216205019		IV / IT	27	90	22	88	89
19	811216205020		IV / IT	30	100	20	80	90
20	811216205022		IV/IT	27	90	21	84	87
21	811216205023		IV / IT	24	80	20	80	80
22	811216205024		IV/IT	27	90	21	84	87
23	811216205025	Sivakumar S	IV/IT	30	100	20	80	90
24	811216205026	Thanisha S	IV/IT	30	100	16	64	82
25	811216205027		IV/IT	30	100	19	76	88
26	811216205028		IV/IT	30	100	21	84	92
27	811216205029	town	IV / IT	27	90	19	76	83
28	14°800	Wasim Akram M	IV / IT	27	90	19	76	83
29	811216205501	Aravindhan S	IV / IT	27	90	19	76	83
30	811217205001	Anitha G	III / IT	27	90	19	76	83

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING Madural Main Road (NH-458), Manikandam, Trichy-12. Approved by AICTE, NewDeihl & Affiliated to Anna University, Chennai

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attenda	nce Details	VAC-MCQ TEST		OVERALL.
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	Correct Mark(100)	MARK(100) (50% of A + 50% of B)
50	811218205001		II / IT	27	90	19	76	83
51	811218205002		11/IT	30	100	20	80	90
52	811218205003		II / IT	27	90	19	76	83
53	811218205004		II / IT	24	80	21	84	83
54	811218205005		II/TT	27	90	20	80	85
55	811218205006		II/IT	30	100	21	84	92
56	811218205007	Re crass	II / IT	27	90	20	80	85
57	811218205008		II / IT	30	100	19	76	88
58	811218205009		II/IT	30	100	20	80	90
59	811218205010		n/m	30	100	21	84	90
60	811218205011		II / IT	27	90	21	84	87
61	811218205012	Meena R	ÎI/IT	24	80	20	80	87
62	811218205013	Milton Billgates J	11 / IT	27	90	21	84	87
63		Mohammed Aarif J	II / IT	30	100	20	80	90
64	811218205015	Pavithra.N	II / IT	27	90	19	76	83
65	811218205016	Priyanka A	II/IT	30	100	19	76	88
66	811218205017	Robinson Isaiah E	II/IT	30	100	21	84	
67	811218205018	Selví M	II/IT	27	90	19	76	92 83
68	811218205019	Shalini Gayathri S	II/IT	24	80	20	80	83 80

Dr. G. Balakrishnan, M.E., Ph.D., Joncipal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.





Madural Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

C MOS	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL
S.NO				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of B)
31	811217205002	Balaji V	III / IT	30	100	19	76	88
32	811217205003	Gopal P	III / IT	27	90	19	76	83
33	811217205004	Hariharan S	ILL / IT	24	80	21	84	82
34	811217205005	Karthick A	III / IT	27	90	20	80	85
35	811217205006	Lisha Y	III / IT	30	100	21	84	92
36	811217205007	Lokeshwaran V	HI / IT	27	90	19	76	83
37	811217205008	Merciya Mary A	III / IT	30	100	19	76	88
38	811217205009	Mohamed Riyaj Khan M	111/IT	30	100	19	76	88
39	811217205010	Mukesh Kanna S	III/IT	30	100	21	84	92
40	811217205011	Pakkiyalakshmi A	m/m	27	90	21	84	87
41	811217205013	Sankar C	III / IT	24	80	20	80	80
42	811217205015	Santhiya K	III / IT	27	90	21	84	87
43	811217205016	Saranya C	III / IT	30	100	20	80	90
44	811217205017	Sudhahar S	III / IT	27	90	19	76	83
45	811217205018	Swetha K	TTI / IT	30	100	19	76	88
46	811217205019	Tamilselvi M	III / IT	30	100	21	84	92
47	811217205020	Thiruppathi S	111 / IT	27	90	19	76	83
48	811217205021	Vijayaraj S	TH / IT	24	80	20	80	80
49	811217205022	Vijay Joseph P	III / IT	24	80	20	80	80

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12, Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of B)
69	811218205020	Sivaraman S	H/IT	24	80	21	84	00
70	811218205021	Snekaa R	11/IT	·	TO BE AN ADDRESS OF A DREAM AND ADDRESS OF A DREAM ADDREAM ADDRESS OF A DREAM ADDREAM ADDREA			82
71	811218205022			27	90	22	88	89
	· · · · · · · · · · · · · · · · · · ·		II / IT	30	100	19	76	88
72	811218205023	Vasanth S	II / IT	27	90	19	10 KZ 41 1 WW 1	
73	811218205024	Vijayakaran M	H/IT				76	83
		- ila yakarari w	07.11	24	80	21	84	82

VAC Coordinato

HOD/I



to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj

Chief Executive Officer

Leo Tech,Vizro

Dr. G. Balakrishnan, M.E., Ph.D., Indra Ganesan Celling a of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Principal IGCE



This is to certify that Mr/Ms. Kayalvizhi.B of II-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvarai

Chief Executive Officer

Leo Tech, Vizro

Principal IGCE



This is to certify that Mr/Ms. Manoharan.T of II ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj

Chief Executive Officer

Leo Tech, Vizro

Principal IGCE



This is to certify that Mr/Ms. Suganya.K of II ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj

Chief Executive Officer

Leo Tech, Vizro

Principal IGCE



This is to certify that Mr/Ms. Vijayakaran.M of II ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj

Chief Executive Officer

Leo Tech, Vizro

Principal IGCE



This is to certify that Mr/Ms. Meena.R of II ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj

Chief Executive Officer

Leo Tech, Vizro

Principal IGCE



This is to certify that Mr/Ms. Karthick.A of III ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvarai

lyir.Selvaraj

Chief Executive Officer

Leo Tech, Vizro

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan Collage of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012.

Principal IGCE



Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

CERTIFICATE of Participation

This is to certify that Mr/Ms. **Gopal.P of III ...-IT**.....has successfully completed the Value Added Course on **"Smart Computing Technologies in IOT**""organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj

Chief Executive Officer

Leo Tech,Vizro

Principal IGCE



This is to certify that Mr/Ms. Saranya.C of III ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Jourt

Mr.Selvaraj

Chief Executive Officer

Leo Tech, Vizro

SMA

Principal IGCE



This is to certify that Mr/Ms. Thiruppathi.S of III-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj

Chief Executive Officer

Leo Tech,Vizro

Principal IGCE



This is to certify that Mr/Ms. Merciya Mary.A of III ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.



Mr.Selvaraj

Chief Executive Officer

Leo Tech, Vizro

Principal IGCE



This is to certify that Mr/Ms Anitha.G of III ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj Chief Executive Officer

Leo Tech,Vizro

Principal IGCE



This is to certify that Mr/Ms. **Bharath.C of IV ...-IT.....**has successfully completed the Value Added Course on **"Smart Computing Technologies in IOT**"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj

Chief Executive Officer

Leo Tech,Vizro

D:

Sale

Principal IGCE



This is to certify that Mr/Ms. Krishnan.K of IV-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Sel√araj

Chief Executive Officer

Leo Tech,Vizro

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012,

Principal IGCE



This is to certify that Mr/Ms. Roshini.A of IV ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Sel√araj

Chief Executive Officer

Leo Tech,Vizro

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Medural Main Road

Principal IGCE



This is to certify that Mr/Ms. Nandhini.C of IV ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj

Chief Executive Officer

Leo Tech,Vizro

Dr. G. Balakrishnan, M.E., Ph.D., Primient Indra Ganesan Composition of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Principal IGCE



This is to certify that Mr/Ms. Jeyapriya.D of IV ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj

Chief Executive Officer

Leo Tech,Vizro

Principal IGCE



This is to certify that Mr/Ms. Savithri.S of IV ...-IT.....has successfully completed the Value Added Course on "Smart Computing Technologies in IOT"" organized by Department of Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro from 25th April 2020 to 29th April 2020(5 days) during the Academic year 2019-2020.

Mr.Selvaraj

Chief Executive Officer

Leo Tech, Vizro

Principal IGCE