



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(F) & 12B Status Institution by UGC

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

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 2

**TEACHING-LEARNING
AND EVALUATION**

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING





Criteria2	Teaching-Learning and Evaluation	350
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KeyIndicator-2.3.Teaching-Learning Process (40)

2019-2020

**PARTICIPATIVE LEARNING
INFORMATION TECHNOLOGY**

Activity	NumberofStudents Attended	Page No.
Value Added Course(VAC)	150	3
TOTAL STUDENTS ATTENDED	150	-



Criteria2

Teaching-Learning and Evaluation

350

KeyIndicator-2.3.Teaching-Learning Process (40)

2019-2020

INFORMATION TECHNOLOGY

PARTICIPATIVE LEARNING

VALUE ADDED COURSE



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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Department of Information Technology

Academic Year 2019 - 2020 – ODD Semester

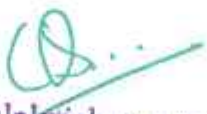
20.11.2019

DEPARTMENT CIRCULAR

Department of **Information Technology** and IQAC of IGCE in association with, **Azatech Pvt, Ltd** is going to organize Value Added Course for all Second, Third and Final year students on “**Cloud Service Management Tools**” from 26.11.2019 to 30.11.2019. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Java Program	1. Mr. M. Vivek, Chief Executive Officer Azatech Pvt, Ltd, Chennai 2. Mr.S. Anto Chief Executive Officer Infosys ,Chennai
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.


PRINCIPAL

Cc:

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



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Value Added Course

“ Cloud Service Management Tools”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	cloud service management fundamentals	3	26.11.19
2	Concepts of cloud computing:	3	26.11.19
3	Cloud Service Paradigm	3	27.11.19
4	Cloud Providers of Cloud Service Provider (CSP):	3	27.11.19
5	cloud service management	3	28.11.19
6	Basics of information technology service management and cloud service management	3	28.11.19
7	cloud computing eco system	3	29.11.19
8	Information Technology Service Management (ITSM)	3	29.11.19
9	cloud service governance & value	3	30.11.19
10	service perspectives	2	30.11.19
11	Exam	1	30.11.19
Total Hours (Excluding Exam)		30	-


VAC Coordinator


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

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HOD / IT



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Value Added Course

“Cloud Service Management Tools”

STUDENTS PARTICIPATION LIST

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH
1	811216205001	Anusuya Devi R	IV / IT
2	811216205003	Balambigai A	IV / IT
3	811216205004	Bharath C	IV / IT
4	811216205005	Boopalan K	IV / IT
5	811216205006	Jeevamani M	IV / IT
6	811216205007	Jeyapriya D	IV / IT
7	811216205008	Kalaiyarasi N	IV / IT
8	811216205009	Kanagavalli J	IV / IT
9	811216205010	Keerthika R	IV / IT
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	811216205018	Radhika M	IV / IT
18	811216205019	Roshini A	IV / IT
19	811216205020	Rubini K	IV / IT
20	811216205022	Savithri S	IV / IT
21	811216205023	Selvapathi V	IV / IT
22	811216205024	Sivakavi S	IV / IT
23	811216205025	Sivakumar S	IV / IT
24	811216205026	Thanisha S	IV / IT
25	811216205027	Thasthagir S	IV / IT
26	811216205028	Victoriyarani T	IV / IT
27	811216205029	Vidhyasri M	IV / IT
28	811216205030	Wasim Akram M	IV / IT
29	811216205501	Aravinthan S	IV / IT
30	811217205001	Anitha G	III / IT
31	811217205002	Balaji 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

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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH
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
45	811217205018	Swetha K	III / IT
46	811217205019	Tamilselvi M	III / IT
47	811217205020	Thiruppathi S	III / IT
48	811217205021	Vijayaraj S	III / IT
49	811217205022	Vijay Joseph P	III / IT
50	811218205001	Deepa T	II / IT
51	811218205002	Dharshini K	II / IT
52	811218205003	Gopi U	II / IT
53	811218205004	Harish R	II / IT
54	811218205005	Irudhayaraj A	II / IT
55	811218205006	Janani S	II / IT
56	811218205007	Janarthanan	II / IT
57	811218205008	Kamalesh A	II / IT
58	811218205009	Kaviyarasu C	II / IT
59	811218205010	Kayalvizhi.B	II / IT
60	811218205011	Manoharan T	II / IT
61	811218205012	Meena R	II / IT
62	811218205013	Milton Billgates J	II / IT
63	811218205014	Mohammed Aarif J	II / IT
64	811218205015	Pavithra.N	II / IT
65	811218205016	Priyanka A	II / IT
66	811218205017	Robinson Isaiah E	II / IT
67	811218205018	Selvi M	II / IT
68	811218205019	Shalini Gayathri S	II / IT
69	811218205020	Sivaraman S	II / IT
70	811218205021	Snekaa R	II / IT
71	811218205022	Suganya K	II / IT
72	811218205023	Vasanth S	II / IT
73	811218205024	Vijayakaran M	II / IT


VAC Coordinator

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

Principal

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HOD/IT



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REPORT ON VALUE ADDED COURSE

Title: **“Cloud Service Management Tools”**

Resource Person: **Mr. M. Vivek, Azatech Pvt, Ltd, Chennai** **Mr.S. Anto Infosys Chennai**

Date of conduct from : **26.11.19** To: **30.11.19** Duration: **30 Hours**

Organized Department : **INFORMATION TECHNOLOGY**

Participant Year: **2,3,4** No. of Students Registered : **73**

Venue: **IT Seminar Hall**

Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to

- Create a Cloud Organization in AWS/Google Cloud/or any equivalent Open Source cloud softwares like Openstack, Eucalyptus, OpenNebula with Role-based access control
- Create a Cost-model for a web application using various services and do Cost-benefit analysis
- Create alerts for usage of Cloud resources
- Create Billing alerts for your Cloud Organization
- Compare Cloud cost for a simple web application across AWS, Azure and GCP and suggest the best one

Assessment Process

- Students, who are securing **more than 70% on total score** and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)


VAC Coordinator


HoD / IT


Principal


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SAMPLE PHOTOS OF VALUE ADDED COURSE

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Sample Photos:




VAC Coordinator


HoD / IT


Principal


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Name of the Student: Boopalan. k

Year / Sem: 14

AU Register Number: 811216205005

22

25

Value Added Course

" Cloud Service Management Tools "

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

1. What is Cloud Computing?

- etc
- a) Cloud Computing means providing services like storage, servers, database, networking,
 - b) Cloud Computing means storing data in a database
 - c) Cloud Computing is a tool used to create an application
 - d) None of the mentioned

2. Who is the father of cloud computing?

- a) Sharon B. Codd
- b) Edgar Frank Codd
- c) J.C.R. Licklider
- d) Charles Bachman

3. Which of the following is not a type of cloud server?

- a) Public Cloud Servers
- b) Private Cloud Servers
- c) Dedicated Cloud Servers
- d) Merged Cloud Servers

4. Which of the following are the features of cloud computing?


- a) Security
- b) Availability
- c) Large Network Access
- d) All of the mentioned

5. Which of the following is a type of cloud computing service?

- a) Service-as-a-Software (SaaS)
- b) Software-and-a-Server (SaaS)
- c) Software-as-a-Service (SaaS)
- d) Software-as-a-Server (SaaS)

6. Which of the following is the application of cloud computing?

- a) Adobe
- b) Paypal
- c) Google G Suite
- d) All of the above


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d) All of the above

8. Applications and services that run on a distributed network using virtualized resources is known as _____

- a) Parallel computing
- b) Soft computing
- c) Distributed computing
- d) Cloud computing

9. Which of the following is an example of a PaaS cloud service?

- a) Heroku
- b) AWS Elastic Beanstalk
- c) Windows Azure
- d) All of the above

10. Which of the following is an example of an IaaS Cloud service?

- a) DigitalOcean
- b) Linode
- c) Rackspace
- d) All of the above

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Principal

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11. Which of the following is the correct statement about cloud computing?

- a) Cloud computing abstracts systems by pooling and sharing resources
- b) Cloud computing is nothing more than the Internet
- c) The use of the word "cloud" makes reference to the two essential concepts
- d) All of the mentioned

12. Point out the wrong statement.

- a) Azure enables .NET Framework applications to run over the Internet
- b) Cloud Computing has two distinct sets of models
- c) Amazon has built a worldwide network of datacenters to service its search engine
- d) None of the mentioned

13. Which of the following model attempts to categorize a cloud network based on four dimensional factors?

- a) Cloud Cube
- b) Cloud Square
- c) Cloud Service
- d) All of the mentioned

14. Which of the following is the correct statement about cloud types?

- a) Cloud Square Model is meant to show is that the traditional notion of a network boundary being the network's firewall no longer applies in cloud computing
- b) A deployment model defines the purpose of the cloud and the nature of how the cloud is located
- c) Service model defines the purpose of the cloud and the nature of how the cloud is located
- d) All of the mentioned

15. Which architectural layer is used as a backend in cloud computing?

- a) cloud
- b) soft
- c) client
- d) all of the mentioned



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16. All cloud computing applications suffer from the inherent _____ that is intrinsic in their WAN connectivity.


- a) noise
- b) propagation
- c) latency
- d) all of the mentioned

17. Which of the following architectural standards is working with cloud computing industry?

- a) Web-application frameworks
- b) Service-oriented architecture
- c) Standardized Web services
- d) All of the mentioned

18. What type of computing technology refers to services and applications that typically run on a distributed network through virtualized resources?

- a. Distributed Computing
- b. Cloud Computing
- c. Soft Computing
- d. Parallel Computing


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19. Which one of the following options can be considered as the Cloud?

- a. Hadoop
- b. Intranet
- c. Web Applications
- d. All of the mentioned

20. Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as _____ resources to users.

- a. Real
- b. Cloud
- c. Virtual
- d. none of the mentioned

21. Which of the following has many features of that is now known as cloud computing?



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- a. Web Service
- b. Softwares
- c. All of the mentioned
- d. Internet

22. Which one of the following cloud concepts is related to sharing and pooling the resources?

- a. Polymorphism
- b. Virtualization
- c. Abstraction
- d. None of the mentioned

23. Which one of the following statements is not true?

- a. The popularization of the Internet actually enabled most cloud computing systems.
- b. Cloud computing makes the long-held dream of utility as a payment possible for you, with an infinitely scalable, universally available system, pay what you use.
- c. Soft computing addresses a real paradigm in the way in which the system is deployed.
- d. All of the mentioned

24. Which one of the following can be considered as a utility is a dream that dates from the beginning of the computing industry itself?

- a. Computing
- b. Model
- c. Software
- d. All of the mentioned

25. Which of the following is an essential concept related to Cloud?

- a. Reliability
- b. Abstraction
- c. Productivity
- d. All of the mentioned


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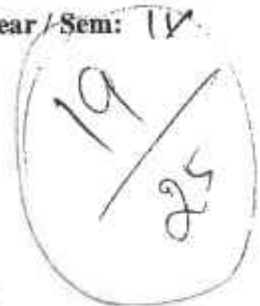
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Name of the Student: Bharath. c

Year / Sem: IV

AU Register Number: 811216205004



Value Added Course

" Cloud Service Management Tools "

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

1. What is Cloud Computing?

- etc
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- d) Charles Bachman

3. Which of the following is not a type of cloud server?

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4. Which of the following are the features of cloud computing?


- a) Security
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5. Which of the following is a type of cloud computing service?

- a) Service-as-a-Software (SaaS)
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- c) Software-as-a-Service (SaaS)
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- a. Distributed Computing
- b. Cloud Computing
- c. Soft Computing
- d. Parallel Computing

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a. Web Service

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Name of the Student: krishnan.k

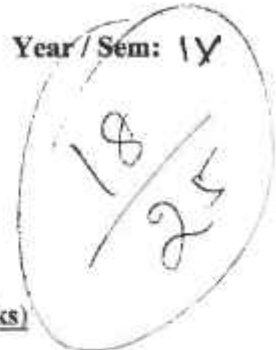
Year / Sem: 1Y

AU Register Number: 811216205011

Value Added Course

“ Cloud Service Management Tools ”

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)



1. What is Cloud Computing?

- etc
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d) All of the above

8. Applications and services that run on a distributed network using virtualized resources is known as _____

- a) Parallel computing
- b) Soft computing
- c) Distributed computing
- d) Cloud computing

9. Which of the following is an example of a PaaS cloud service?

- a) Heroku
- b) AWS Elastic Beanstalk
- c) Windows Azure
- d) All of the above

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10. Which of the following is an example of an IaaS Cloud service?

- a) DigitalOcean
- b) Linode
- c) Rackspace
- d) All of the above

11. Which of the following is the correct statement about cloud computing?

- a) Cloud computing abstracts systems by pooling and sharing resources
- b) Cloud computing is nothing more than the Internet
- c) The use of the word "cloud" makes reference to the two essential concepts
- d) All of the mentioned

12. Point out the wrong statement.

- a) Azure enables .NET Framework applications to run over the Internet
- b) Cloud Computing has two distinct sets of models
- c) Amazon has built a worldwide network of datacenters to service its search engine
- d) None of the mentioned

13. Which of the following model attempts to categorize a cloud network based on four dimensional factors?

- a) Cloud Cube
- b) Cloud Square
- c) Cloud Service
- d) All of the mentioned

14. Which of the following is the correct statement about cloud types?

- a) Cloud Square Model is meant to show is that the traditional notion of a network boundary being the network's firewall no longer applies in cloud computing
- b) A deployment model defines the purpose of the cloud and the nature of how the cloud is located
- c) Service model defines the purpose of the cloud and the nature of how the cloud is located
- d) All of the mentioned

15. Which architectural layer is used as a backend in cloud computing?

- a) cloud
- b) soft
- c) client
- d) all of the mentioned



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16. All cloud computing applications suffer from the inherent _____ that is intrinsic in their WAN connectivity.

- a) noise
- b) propagation
- c) latency
- d) all of the mentioned

α

17. Which of the following architectural standards is working with cloud computing industry?


- a) Web-application frameworks
- b) Service-oriented architecture
- c) Standardized Web services
- d) All of the mentioned

α

18. What type of computing technology refers to services and applications that typically run on a distributed network through virtualized resources?

- a. Distributed Computing
- b. Cloud Computing
- c. Soft Computing
- d. Parallel Computing

~


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19. Which one of the following options can be considered as the Cloud?

- a. Hadoop
- b. Intranet
- c. Web Applications
- d. All of the mentioned

~

20. Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as _____ resources to users.

- a. Real
- b. Cloud
- c. Virtual
- d. none of the mentioned

~

21. Which of the following has many features of that is now known as cloud computing?



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- a. Web Service
- b. Softwares
- c. All of the mentioned
- d. Internet

22. Which one of the following cloud concepts is related to sharing and pooling the resources?

- a. Polymorphism
- b. Virtualization
- c. Abstraction
- d. None of the mentioned

23. Which one of the following statements is not true?

- a. The popularization of the Internet actually enabled most cloud computing systems.
- b. Cloud computing makes the long-held dream of utility as a payment possible for you, with an infinitely scalable, universally available system, pay what you use.
- c. Soft computing addresses a real paradigm in the way in which the system is deployed.
- d. All of the mentioned

24. Which one of the following can be considered as a utility is a dream that dates from the beginning of the computing industry itself?

- a. Computing
- b. Model
- c. Software
- d. All of the mentioned


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25. Which of the following is an essential concept related to Cloud?

- a. Reliability
- b. Abstraction
- c. Productivity
- d. All of the mentioned



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Name of the Student:

Year / Sem:

AU Register Number:

Value Added Course

“ Cloud Service Management Tools ”

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

1. What is Cloud Computing?

etc

- a) Cloud Computing means providing services like storage, servers, database, networking,
- b) Cloud Computing means storing data in a database
- c) Cloud Computing is a tool used to create an application
- d) None of the mentioned

2. Who is the father of cloud computing?

- a) Sharon B. Codd
- b) Edgar Frank Codd
- c) J.C.R. Licklider
- d) Charles Bachman

3. Which of the following is not a type of cloud server?

- a) Public Cloud Servers
- b) Private Cloud Servers
- c) Dedicated Cloud Servers
- d) Merged Cloud Servers

4. Which of the following are the features of cloud computing?

- a) Security
- b) Availability
- c) Large Network Access
- d) All of the mentioned

5. Which of the following is a type of cloud computing service?

- a) Service-as-a-Software (SaaS)
- b) Software-and-a-Server (SaaS)
- c) Software-as-a-Service (SaaS)
- d) Software-as-a-Server (SaaS)

6. Which of the following is the application of cloud computing?

- a) Adobe
- b) Paypal
- c) Google G Suite
- d) All of the above

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7. Which of the following is an example of the cloud?
a) Amazon Web Services (AWS)
b) Dropbox
c) Cisco WebEx
d) All of the above
8. Applications and services that run on a distributed network using virtualized resources is known as _____
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Value Added Course

“Cloud Service Management Tools ”

ANSWER KEY

1	A	6	D	11	A	16	C	21	D
2	C	7	D	12	C	17	B	22	B
3	D	8	D	13	A	18	B	23	C
4	D	9	D	14	B	19	A	24	A
5	C	10	D	15	A	20	C	25	B


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VAC Coordinator



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Department of Information Technology

Academic Year 2019-2020- Odd Semester

STUDENTS ATTENDANCE LIST

Value Added Course

"Cloud Service Management Tools "

S.N O	REG NO	STUDENTS NAME	YEAR/ BRANC H	26.11.19		27.11.19		28.11.19		29.11.19		30.11.19		NO OF SESSIONS ATTENDE D	SIGN OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	811216205001	Anusuya Devi R	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Anusuya
2	811216205003	Balambigai A	IV / IT	✓	A	✓	✓	✓	A	✓	✓	✓	✓	8	Balambigai
3	811216205004	Bharath C	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	9	Bharath
4	811216205005	Boopalan K	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Boopalan
5	811216205006	Jeevamani M	IV / IT	✓	✓	✓	✓	A	✓	✓	A	✓	✓	8	Jeevamani
6	811216205007	Jeyapriya D	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Jeyapriya
7	811216205008	Kalalyarasi N	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Kalalyarasi
8	811216205009	Kanagavalli J	IV / IT	✓	✓	✓	✓	✓	✓	A	✓	✓	A	8	Kanagavalli
9	811216205010	Keerthika R	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Keerthika
10	811216205011	Krishnan K	IV / IT	✓	✓	✓	✓	A	A	✓	✓	✓	✓	8	Krishnan
11	811216205012	Muthulakshmi P	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Muthulakshmi
12	811216205013	Nandhini C	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Nandhini
13	811216205014	Nelson	IV / IT	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	9	Nelson
14	811216205015	Parameshwari K	IV / IT	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	9	Parameshwari

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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
15	811216205016	Poovaragavan	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Poovaragavan
16	811216205017	Priyadharshini A	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Priyadharshini A
17	811216205018	Radhika M	IV / IT	✓	ⓐ	ⓐ	✓	✓	✓	✓	✓	✓	✓	8	Radhika M
18	811216205019	Roshini A	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Roshini A
19	811216205020	Rubini K	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Rubini K
20	811216205022	Savithri S	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Savithri S
21	811216205023	Selvapathi V	IV / IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	10	Selvapathi V
22	811216205024	Sivakavi S	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Sivakavi S
23	811216205025	Sivakumar S	IV / IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	10	Sivakumar S
24	811216205026	Thanisha S	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Thanisha S
25	811216205027	Thasthagir S	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Thasthagir S
26	811216205028	Victoriyarani T	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Victoriyarani T
27	811216205029	Vidhyasri M	IV / IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	10	Vidhyasri M
28	811216205030	Wasim Akram M	IV / IT	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Wasim Akram M
29	811216205501	Aravindhan S	IV / IT	✓	✓	ⓐ	ⓐ	✓	✓	✓	✓	✓	✓	8	Aravindhan S
30	811217205001	Anitha G	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Anitha G
31	811217205002	Balaji V	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Balaji V
32	811217205003	Gopal P	III / IT	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	✓	9	Gopal P
33	811217205004	Hariharan S	III / IT	✓	✓	✓	ⓐ	ⓐ	✓	✓	✓	✓	✓	8	Hariharan S
34	811217205005	Karthick A	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Karthick A
35	811217205006	Lisha Y	III / IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	9	Lisha Y
36	811217205007	Lokeshwaran V	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Lokeshwaran V


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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
37	811217205008	Merciya Mary A	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Maniyam
38	811217205009	Mohamed Riyaj Khan M	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	Ⓐ	✓	9	M. Riyaj
39	811217205010	Mukesh Kanna S	III / IT	✓	Ⓐ	Ⓐ	✓	✓	✓	✓	✓	✓	✓	8	S. Mukesh
40	811217205011	Pakkiyalakshmi A	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	P. Lakshmi
41	811217205013	Sankar C	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	C. Sankar
42	811217205015	Santhiya K	III / IT	✓	Ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	9	Santhiya
43	811217205016	Saranya C	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Saranya
44	811217205017	Sudhakar S	III / IT	✓	✓	Ⓐ	Ⓐ	✓	✓	✓	✓	✓	✓	8	Sudhakar
45	811217205018	Swetha K	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Swetha
46	811217205019	Tamilselvi M	III / IT	✓	Ⓐ	Ⓐ	✓	✓	✓	✓	✓	✓	✓	8	M. Selvi
47	811217205020	Thirupathi S	III / IT	✓	✓	✓	✓	✓	✓	Ⓐ	Ⓐ	✓	✓	8	S. Thirupathi
48	811217205021	Vijayaraj S	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	V. Raj
49	811217205022	Vijay Joseph P	III / IT	✓	Ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	9	S. Vijay
50	811218205001	Deepa T	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Deepa
51	811218205002	Dharshini K	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Dharshini
52	811218205003	Gopi U	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	U. Gopi
53	811218205004	Harish R	II / IT	✓	Ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	9	Harish
54	811218205005	Irudhayaraj A	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Irudhayaraj
55	811218205006	Janani S	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S. Janani
56	811218205007	Janarthanan	II / IT	✓	Ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	9	N. Janarthanan
57	811218205008	Kamalesh A	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Kamalesh
58	811218205009	Kaviyarasu C	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	C. Kaviyarasu
59	811218205010	Kayalvizhi.B	II / IT	✓	✓	✓	Ⓐ	✓	✓	✓	✓	✓	✓	9	B. Kayalvizhi



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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
60	811218205011	Manoharan T	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	T. Manoharan
61	811218205012	Meena R	II / IT	ⓐ	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	10	Meena R
62	811218205013	Milton Billgates J	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	Milton Billgates J
63	811218205014	Mohammed Aarif J	II / IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	10	Mohammed Aarif J
64	811218205015	Pavithra.N	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Pavithra.N
65	811218205016	Priyanka A	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Priyanka A
66	811218205017	Robinson Isaiah E	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Robinson Isaiah E
67	811218205018	Selvi M	II / IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	10	Selvi M
68	811218205019	Shalini Gayathri S	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Shalini Gayathri S
69	811218205020	Sivaraman S	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Sivaraman S
70	811218205021	Snekaa R	II / IT	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	10	Snekaa R
71	811218205022	Suganya K	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Suganya K
72	811218205023	Vasanth S	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Vasanth S
73	811218205024	Vijayakaran M	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Vijayakaran M

P. English
VAC Coordinator

(Signature)
Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

(Signature)
HoD/ IT



Indra Ganesan

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

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Manikandam, Trichy-620 012.

Department of Information Technology Academic

Year 2019 -2020- Odd Semester

VALUE ADDED COURSE ASSESMENT SHEET

“ Cloud Service Management Tools”

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	811216205001	Anusuya Devi R	IV / IT	30	100	20	80	90
2	811216205003	Balambigai A	IV / IT	24	80	15	60	72
3	811216205004	Bharath C	IV / IT	27	90	19	76	88
4	811216205005	Boopalan K	IV / IT	30	100	22	88	94
5	811216205006	Jeevamani M	IV / IT	24	80	18	72	82
6	811216205007	Jeyapriya D	IV / IT	30	100	17	68	80
7	811216205008	Kalaiyarasi N	IV / IT	30	100	18	72	86
8	811216205009	Kanagavalli J	IV / IT	24	80	17	68	76
9	811216205010	Keerthika R	IV / IT	30	100	17	72	78
10	811216205011	Krishnan K	IV / IT	24	80	18	68	78
11	811216205012	Muthulakshmi P	IV / IT	30	100	17	72	90

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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
12	811216205013	Nandhini C	IV / IT	30	100	20	82	96
13	811216205014	Nelson	IV / IT	27	90	20	85	96
14	811216205015	Parameshwari K	IV / IT	27	90	23	95	96
15	811216205016	Poovaragavan	IV / IT	30	100	20	96	93
16	811216205017	Priyadharshini A	IV / IT	30	100	16	89	90
17	811216205018	Radhika M	IV / IT	24	80	19	88	92
18	811216205019	Roshini A	IV / IT	30	100	14	88	98
19	811216205020	Rubini K	IV / IT	30	100	20	80	90
20	811216205022	Savithri S	IV / IT	30	100	15	60	72
21	811216205023	Selvapathi V	IV / IT	27	90	19	76	88
22	811216205024	Sivakavi S	IV / IT	30	100	22	88	94
23	811216205025	Sivakumar S	IV / IT	27	90	18	72	82
24	811216205026	Thanisha S	IV / IT	30	100	17	68	80
25	811216205027	Thasthagir S	IV / IT	30	100	18	72	86
26	811216205028	Victoriyarani T	IV / IT	30	100	17	68	76
27	811216205029	Vidhyasri M	IV / IT	27	90	17	72	78
28	811216205030	Wasim Akram M	IV / IT	27	90	18	68	78
29	811216205501	Aravindhan S	IV / IT	24	80	17	72	90
30	811217205001	Anitha G	III / IT	30	100	20	80	90

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

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Madurai Main Road (NH-46B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
31	811217205002	Balaji V	III / IT	30	96	23	96	98
32	811217205003	Gopal P	III / IT	27	98	23	98	95
33	811217205004	Hariharan S	III / IT	24	96	25	95	99
34	811217205005	Karthick A	III / IT	30	95	22	98	96
35	811217205006	Lisha Y	III / IT	27	84	23	98	92
36	811217205007	Lokeshwaran V	III / IT	30	85	23	98	90
37	811217205008	Merciya Mary A	III / IT	30	86	20	90	80
38	811217205009	Mohamed Riyaj Khan M	III / IT	27	89	22	95	80
39	811217205010	Mukesh Kanna S	III / IT	24	89	22	95	87
40	811217205011	Pakkiyalakshmi A	III / IT	30	88	21	98	87
41	811217205013	Sankar C	III / IT	30	98	20	98	88
42	811217205015	Santhiya K	III / IT	27	85	23	98	89
43	811217205016	Saranya C	III / IT	30	85	24	98	86
44	811217205017	Sudhahar S	III / IT	24	89	20	96	75
45	811217205018	Swetha K	III / IT	30	89	22	85	76
46	811217205019	Tamilselvi M	III / IT	24	89	20	88	77
47	811217205020	Thiruppathi S	III / IT	24	78	22	88	76
48	811217205021	Vijayaraj S	III / IT	30	87	12	78	74
49	811217205022	Vijay Joseph P	III / IT	27	98	17	70	74

Dr. G. Balakrishnan, M.E., Ph.D.,
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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
50	811218205001	Deepa T	II / IT	30	98	25	100	98
51	811218205002	Dharshini K	II / IT	30	95	24	98	98
52	811218205003	Gopi U	II / IT	30	92	20	98	99
53	811218205004	Harish R	II / IT	27	99	20	98	96
54	811218205005	Irudhayaraj A	II / IT	30	90	14	87	98
55	811218205006	Janani S	II / IT	30	90	16	85	98
56	811218205007	Janarthanan	II / IT	27	89	12	85	95
57	811218205008	Kamalesh A	II / IT	30	89	13	82	96
58	811218205009	Kaviyarasu C	II / IT	30	87	14	82	93
59	811218205010	Kayalvizhi.B	II / IT	27	78	14	82	97
60	811218205011	Manoharan T	II / IT	30	78	15	82	95
61	811218205012	Meena R	II / IT	24	77	16	86	99
62	811218205013	Milton Billgates J	II / IT	30	79	12	85	93
63	811218205014	Mohammed Aarif J	II / IT	27	72	12	86	93
64	811218205015	Pavithra.N	II / IT	30	98	25	89	94
65	811218205016	Priyanka A	II / IT	30	89	24	89	94
66	811218205017	Robinson Isaiah E	II / IT	30	89	21	87	97
67	811218205018	Selvi M	II / IT	27	98	20	87	94
68	811218205019	Shalini Gayathri S	II / IT	30	88	23	87	94




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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
69	811218205020	Sivaraman S	II / IT	30	98	25	90	98
70	811218205021	Snekaa R	II / IT	27	98	22	98	95
71	811218205022	Suganya K	II / IT	30	96	24	98	96
72	811218205023	Vasanth S	II / IT	30	89	22	98	93
73	811218205024	Vijayakaran M	II / IT	30	89	24	98	98


VAC Coordinator


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HOD/IT



Indra Ganesan

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

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Roshini.A** of
.....**IV.YEAR.IT**..... has successfully completed the Value Added Course on
"Cloud Service Management Tools" organized by Department of Information Technology and IQAC of
our Institution in Association with Azatech Pvt, Ltd from 26th November 2019 to 30th November 2019
(5days) during the Academic Year 2019-2020

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

Principal
IGCE

Azatech Pvt, Ltd
Mr. Vivek, Chief Executive Officer



Indra Ganesan

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Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Shankar.C** of
.....**THIRD.YEAR.IT**..... has successfully completed the Value Added Course on
"Cloud Service Management Tools" organized by Department of Information Technology and IQAC of
our Institution in Association with Azatech Pvt, Ltd from 26th November 2019 to 30th November 2019
(5days) during the Academic Year 2019-2020

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

Principal
IGCE

Azatech Pvt, Ltd
Mr. Vivek, Chief Executive Officer




Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Janani,S** of
.....**SECOND YEAR IT**..... has successfully completed the Value Added Course on Cloud
Service Management Tools” organized by Department of Information Technology and IQAC of our
Institution in Association with Azatech Pvt, Ltd from 26th November 2019 to 30th November 2019
(5days) during the Academic Year 2019-2020.


Azatech Pvt, Ltd
Mr. Vivek, Chief Executive Officer


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


Principal
IGCE



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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, Leo Tech, Vizro
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.


PRINCIPAL

Cc:

- 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	IoT 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	-


VAC Coordinator


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HOD / IT



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Manikandam, Trichy-620 012.

Value Added Course

“Smart Computing Technologies in IOT”

STUDENTS PARTICIPATION LIST

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH
1	811216205001	Anusuya Devi R	IV / IT
2	811216205003	Balambigai A	IV / IT
3	811216205004	Bharath C	IV / IT
4	811216205005	Boopalan K	IV / IT
5	811216205006	eevamani M	IV / IT
6	811216205007	eyapriya D	IV / IT
7	811216205008	Kalalyarasi N	IV / IT
8	811216205009	Kanagavalli J	IV / IT
9	811216205010	Keerthika R	IV / IT
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	811216205018	Radhika M	IV / IT
18	811216205019	Roshini A	IV / IT
19	811216205020	Rubini K	IV / IT
20	811216205022	Savithri S	IV / IT
21	811216205023	Selvapathi V	IV / IT
22	811216205024	Sivakavi S	IV / IT
23	811216205025	Sivakumar S	IV / IT
24	811216205026	hanisha S	IV / IT
25	811216205027	hasthagir S	IV / IT
26	811216205028	Victoriyarani T	IV / IT
27	811216205029	Vidhyasri M	IV / IT
28	811216205030	Wasim Akram M	IV / IT
29	811216205501	Aravinthan S	IV / IT
30	811217205001	Anitha G	III / IT
31	811217205002	Balaji 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 Riyaj Khan M	III / IT



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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH
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
45	811217205018	Swetha K	III / IT
46	811217205019	Tamilselvi M	III / IT
47	811217205020	Thiruppathi S	III / IT
48	811217205021	Vijayaraj S	III / IT
49	811217205022	Vijay Joseph P	III / IT
50	811218205001	Deepa T	II / IT
51	811218205002	Dharshini K	II / IT
52	811218205003	Gopi U	II / IT
53	811218205004	Harish R	II / IT
54	811218205005	Irudhayaraj A	II / IT
55	811218205006	Janani S	II / IT
56	811218205007	Janarthanan	II / IT
57	811218205008	Kamalesh A	II / IT
58	811218205009	Kaviyarasu C	II / IT
59	811218205010	Kayalvizhi.B	II / IT
60	811218205011	Manoharan T	II / IT
61	811218205012	Meena R	II / IT
62	811218205013	Milton Billgates J	II / IT
63	811218205014	Mohammed Aarif J	II / IT
64	811218205015	Paylthra.N	II / IT
65	811218205016	Priyanka A	II / IT
66	811218205017	Robinson Isalah E	II / IT
67	811218205018	Selvi M	II / IT
68	811218205019	Shalini Gayathri S	II / IT
69	811218205020	Sivaraman S	II / IT
70	811218205021	Snekaa R	II / IT
71	811218205022	Suganya K	II / IT
72	811218205023	Vasanth S	II / IT
73	811218205024	Vijayakaran M	II / IT
74	811218205025	Wilson Jayaraj S	II / IT
75	811218205026	Antony Arul Doss A	II / IT
76	811218205027	Geethanjali B	II / IT
77	811218205028	Dhanalakshmi K	II / IT

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

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


VAC Coordinator


HOD/IT



REPORT ON VALUE ADDED COURSE

Title: "Smart Computing Technologies in IOT "

Resource Person: Ms. U. Liza,
Chief Executive Officer,
Leo Tech, Vizro

Date of conduct from : 25.05.2020 To: 29.04.2020 Duration: 30 Hours

Organized Department : INFORMATION TECHNOLOGY

Participant Year: 2,3,4 No. of Students Registered : 77

Venue: IT Seminar Hall meet.google.com/uke-cuhd-emh

Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to

- CO1: To understand the architecture of embedded processors.
CO2: To Utilize embedded C programs.
CO3: Study simple embedded applications.
CO4: To Compare the communication models in IOT
CO5: Establizing Design IoT applications using Arduino/Raspberry Pi /open platform
CO6: To study smart computing technologies.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/IT


Principal

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SAMPLE PHOTOS OF VALUE ADDED COURSE

Title: "Smart Computing Technologies in IOT "

Resource Person: Ms. U. Liza,
Chief Executive Officer,
Leo Tech, Vizro

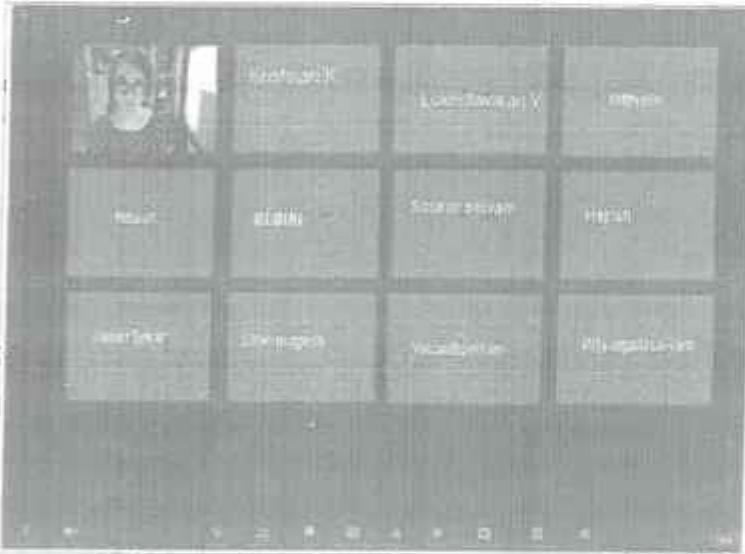
Date of conduct from : 25.04.2020 To: 29.04.2020 Duration: 30 Hours

Organized Department : INFORMATION TECHNOLOGY

Participant Year: 2,3,4 No. of Students Registered : 77

Venue: IT Seminar Hall meet.google.com/uke-cuhd-emh

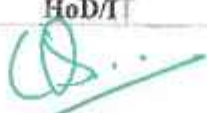
Sample Photos:




VAC Coordinator


HoD/IT


Principal


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Principal
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Name of the Student:

Year / Sem:


AU Register Number:

Value Added Course

“Smart Computing Technologies in IOT”

MULTIPLE CHOICE QUESTIONS (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


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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

20. Which of the following are the approaches to Artificial Intelligence?
 - a) Applied approach
 - b) Strong approach
 - c) Weak approach
 - d) All of the mentioned


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21. Face Recognition system is based on which type of approach?
- Weak AI approach
 - Applied AI approach
 - Cognitive AI approach
 - Strong AI approach
22. Which of the following is an advantage of artificial intelligence?
- Reduces the time taken to solve the problem
 - Helps in providing security
 - Have the ability to think hence makes the work easier
 - All of the above
23. Which of the following can improve the performance of an AI agent?
- Perceiving
 - Learning
 - Observing
 - All of the mentioned
24. Which of the following is/are the composition for AI agents?
- Program only
 - Architecture only
 - Both Program and Architecture
 - None of the mentioned
25. On which of the following approach A basic line following robot is based?
- Applied approach
 - Weak approach
 - Strong approach
 - Cognitive approach


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Value Added Course "Smart Computing Technologies in IOT"

ANSWER KEY

1	D	6	A	11	D	16	A	21	C
2	C	7	C	12	C	17	D	22	D
3	D	8	D	13	A	18	C	23	D
4	A	9	B	14	D	19	A	24	A
5	B	10	C	15	C	20	C	25	A

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Department of Information Technology

Academic Year 2019-2020- Even Semester

STUDENTS ATTENDANCE LIST

Value Added Course

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S.N O	REG NO	STUDENTS NAME	YEAR/ BRANC H	25.5.20		26.5.20		27.5.20		28.5.20		29.5.20		NO OF SESSIONS ATTENDED	SIGN OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	811216205001	Anusuya Devi R	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
2	811216205003	Balambigai A	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
3	811216205004	Bharath C	IV / IT	✓	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	9	Online mode
4	811216205005	Boopalan K	IV / IT	✓	✓	✓	✓	✓	✓	✓	ⓐ	✓	✓	9	Online mode
5	811216205006	Jeevamani M	IV / IT	✓	✓	✓	✓	✓	✓	✓	ⓐ	✓	✓	9	Online mode
6	811216205007	Jeyapriya D	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	ⓐ	✓	9	Online mode
7	811216205008	Kalaiyarasi N	IV / IT	✓	✓	✓	✓	✓	✓	✓	ⓐ	✓	✓	9	Online mode
8	811216205009	Kanagavalli J	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	ⓐ	10	Online mode
9	811216205010	Keerthika R	IV / IT	✓	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	9	Online mode
10	811216205011	Krishnan K	IV / IT	✓	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	9	Online mode
11	811216205012	Muthulakshmi P	IV / IT	✓	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	9	Online mode
12	811216205013	Nandhini C	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
13	811216205014	Nelson	IV / IT	✓	ⓐ	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
14	811216205015	Parameshwari K	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode

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S. NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	25.5.20		26.5.20		27.5.20		28.5.20		29.5.20		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
15	811216205016	Poovaragavan	IV / IT	✓	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	9	Online mode
16	811216205017	Priyadharshini A	IV / IT	✓	✓	ⓐ	✓	✓	ⓐ	✓	✓	✓	✓	8	Online mode
17	811216205018	Radhika M	IV / IT	ⓐ	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	8	Online mode
18	811216205019	Roshni A	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	ⓐ	9	Online mode
19	811216205020	Rubini K	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
20	811216205022	Savithri S	IV / IT	✓	✓	✓	✓	✓	✓	ⓐ	✓	✓	✓	9	Online mode
21	811216205023	Selvapathi V	IV / IT	✓	✓	✓	✓	ⓐ	✓	✓	✓	ⓐ	✓	8	Online mode
22	811216205024	Sivakavi S	IV / IT	✓	✓	✓	ⓐ	✓	✓	✓	✓	✓	✓	9	Online mode
23	811216205025	Sivakumar S	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
24	811216205026	Thanisha S	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
25	811216205027	Thasthagir S	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
26	811216205028	Victoriyarani T	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
27	811216205029	Vidhyasri M	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
28	811216205030	Wasim Akram M	IV / IT	✓	✓	✓	✓	✓	✓	✓	ⓐ	✓	✓	9	Online mode
29	811216205501	Aravindhan S	IV / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
30	811217205001	Anitha G	III / IT	✓	ⓐ	✓	ⓐ	✓	✓	✓	✓	✓	✓	9	Online mode
31	811217205002	Balaji V	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
32	811217205003	Gopal P	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	ⓐ	9	Online mode
33	811217205004	Hariharan S	III / IT	✓	✓	ⓐ	✓	ⓐ	✓	✓	✓	✓	✓	8	Online mode
34	811217205005	Karthick A	III / IT	✓	✓	✓	✓	✓	✓	✓	ⓐ	✓	✓	9	Online mode
35	811217205006	Lisha Y	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
36	811217205007	Lokeshwaran V	III / IT	✓	✓	✓	✓	✓	ⓐ	✓	✓	✓	✓	9	Online mode

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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
37	811217205008	Merciya Mary A	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
38	811217205009	Mohamed Riyaj Khan M	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
39	811217205010	Mukesh Kanna S	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
40	811217205011	Pakkiyalakshmi A	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
41	811217205013	Sankar C	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
42	811217205015	Santhiya K	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
43	811217205016	Saranya C	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
44	811217205017	Sudhahar S	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
45	811217205018	Swetha K	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
46	811217205019	Jamilselvi M	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
47	811217205020	Thiruppathi S	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
48	811217205021	Vijayaraj S	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
49	811217205022	Vijay Joseph P	III / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
50	811218205001	Deepa T	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	Online mode
51	811218205002	Dharshini K	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
52	811218205003	Gopl U	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
53	811218205004	Harish R	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
54	811218205005	Irudhayaraj A	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	Online mode
55	811218205006	Janani S	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
56	811218205007	Janarthanan	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
57	811218205008	Kamalesh A	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
58	811218205009	Kaviyarasu C	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
59	811218205010	Kayalvizhi.B	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode

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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
60	811218205011	Manoharan T	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
61	811218205012	Meena R	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
62	811218205013	Milton Billgates J	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	Online mode
63	811218205014	Mohammed Aarif J	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
64	811218205015	Pavithra.N	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
65	811218205016	Priyanka A	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
66	811218205017	Robinson Isaiah E	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
67	811218205018	Selvi M	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
68	811218205019	Shalini Gayathri S	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
69	811218205020	Sivaraman S	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	Online mode
70	811218205021	Snekaa R	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	Online mode
71	811218205022	Suganya K	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
72	811218205023	Vasanth S	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
73	811218205024	Vijayakaran M	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
74	811218205025	Wilson Jayaraj S	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	Online mode
75	811218205026	Antony Arul Doss A	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode
76	811218205027	Geethanjali R	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Online mode
77	811218205028	Dhanalakshmi K	II / IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Online mode


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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	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (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 / IT	27	90	19	76	83
4	811216205005	Boopalan K	IV / IT	27	90	21	84	87
5	811216205006	leevamani M	IV / IT	27	90	19	76	83
6	811216205007	Ieyapriya D	IV / IT	27	90	19	76	83
7	811216205008	Kalaiyarasi N	IV / IT	30	100	20	80	90
8	811216205009	Kanagavalli J	IV / IT	27	90	19	76	83
9	811216205010	Keerthika R	IV / IT	27	90	19	76	83
10	811216205011	Krishnan K	IV / IT	27	90	19	76	83
11	811216205012	Muthulakshmi P	IV / IT	30	100	21	84	92

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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
12	811216205013	Nandhini C	IV / IT	27	90	20	80	85
13	811216205014	Nelson	IV / IT	30	100	21	84	92
14	811216205015	Parameshwari K	IV / IT	30	100	19	76	88
15	811216205016	Poovaragavan	IV / IT	27	90	19	76	83
16	811216205017	Priyadharshini A	IV / IT	24	80	20	80	80
17	811216205018	Radhika M	IV / IT	24	80	21	84	82
18	811216205019	Roshini A	IV / IT	27	90	22	88	89
19	811216205020	Rubini K	IV / IT	30	100	20	80	90
20	811216205022	Savithri S	IV / IT	27	90	21	84	87
21	811216205023	Selvapathi V	IV / IT	24	80	20	80	80
22	811216205024	Sivakavi S	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	Thasthagir S	IV / IT	30	100	19	76	88
26	811216205028	Victoriyarani T	IV / IT	30	100	21	84	92
27	811216205029	Vidhyasri M	IV / IT	27	90	19	76	83
28	811216205030	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

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				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
50	811218205001	Deepa T	II / IT	27	90	19	76	83
51	811218205002	Dharshini K	II / IT	30	100	20	80	90
52	811218205003	Gopi U	II / IT	27	90	19	76	83
53	811218205004	Harish R	II / IT	24	80	21	84	82
54	811218205005	Irudhayaraj A	II / IT	27	90	20	80	85
55	811218205006	Janani S	II / IT	30	100	21	84	92
56	811218205007	Janarthanan	II / IT	27	90	20	80	85
57	811218205008	Kamalesh A	II / IT	30	100	19	76	88
58	811218205009	Kaviyarasu C	II / IT	30	100	20	80	90
59	811218205010	Kayalvizhi.B	II / IT	30	100	21	84	92
60	811218205011	Manoharan T	II / IT	27	90	21	84	87
61	811218205012	Meena R	II / IT	24	80	20	80	80
62	811218205013	Milton Billgates J	II / IT	27	90	21	84	87
63	811218205014	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	92
67	811218205018	Selvi M	II / IT	27	90	19	76	83
68	811218205019	Shalini Gayathri S	II / IT	24	80	20	80	80



S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (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	III / 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	III / IT	27	90	19	76	83
37	811217205008	Merciya Mary A	III / IT	30	100	19	76	88
38	811217205009	Mohamed Riyaj Khan M	III / IT	30	100	19	76	88
39	811217205010	Mukesh Kanna S	III / IT	30	100	21	84	92
40	811217205011	Pakkiyalakshmi A	III / IT	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	III / IT	30	100	19	76	88
46	811217205019	Tamilselvi M	III / IT	30	100	21	84	92
47	811217205020	Thiruppathi S	III / IT	27	90	19	76	83
48	811217205021	Vijayaraj S	III / IT	24	80	20	80	80
49	811217205022	Vijay Joseph P	III / IT	24	80	20	80	80

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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
69	811218205020	Sivaraman S	II / IT	24	80	21	84	82
70	811218205021	Snekaa R	II / IT	27	90	22	88	89
71	811218205022	Suganya K	II / IT	30	100	19	76	88
72	811218205023	Vasanth S	II / IT	27	90	19	76	83
73	811218205024	Vijayakaran M	II / IT	24	80	21	84	82


VAC Coordinator


HOD/ I



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Boopalan.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 MAY 2020 to 29th MAY 2020 (5 days) during the Academic year 2019-2020.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. Swetha.K of
..... has successfully completed the Value Added
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Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro
from 25th MAY 2020 to 29th MAY 2020 (5 days) during the Academic year 2019-2020.


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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Deepa.T** of
.....**II: IT**..... has successfully completed the Value Added
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Information Technology and IQAC of our Institution in Association with Leo Tech, Vizro
from 25th MAY 2020 to 29th MAY 2020 (5 days) during the Academic year 2019-2020.

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