AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

IAF-AVADI, CHENNAI - 55

DEPARTMENT OF INFORMATION TECHNOLOGY

CIRCULAR

Date: 20-03-2020

Department of Information Technology plans to conduct a Value added Course certification on **"Introduction to IoT"** by **Mr. M.Tharik Anwar**, MCA, Retech Solutions Pvt. Ltd. for the beneficiaries are our II, III and Final Year IT students.

This Course is Scheduled from 25th March 2020 to 17th April 2020 (including Saturdays) in Virtual Mode. All students must attend all classes without fail. Students who complete the course successfully will get certificates.

20/3/2020

HEAD/IT

Copy to:-

1. Principal.

2. IQAC

3. Resource Person

4. IT Faculty Members

5. II, III & IV year IT Whatsapp group

6. Hostel/Transport Supervisor

8. Campus Manager

9. Campus Engineer

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Department of Information Technology

Value added Course

Introduction to IoT

For II, III & IV Year Students

RESOURCE PERSON
Mr.M.Tharik Anwar,
Retech Solutions

FROM
25-03-2020
to
17-04-2020

CHENNAI
600 055

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Prof.Dr.Afzal Ali Baig
Principal

Alhaj S Segu Jamaludeen
Secretary & Correspondent

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
IAF-AVADI, CHENNAI - 55
DEPARTMENT OF INFORMATION TECHNOLOGY
VALUE-ADDED COURSE- SUMMARY REPORT

COURSE NAME: INTRODUCTION TO IOT

Date: 25-03-2020 to 17-04-2020

Time: 4 PM TO 6 PM Week days & Saturday 9.30 AM to 1.30 PM

Mode of Conduction : Online

Speaker: Mr.M.Tharik Anwar

Students Attended: 49

Objective of the Course:

- Understand the fundamental concepts of IoT, its ecosystem, and evolution across industries.
- Explore various IoT technologies, protocols, and architectural components.
- Gain practical experience in integrating sensors, microcontrollers, and cloud platforms for IoT applications.
- Discuss security, privacy, and ethical considerations in IoT deployments.

Summary of the course : This course provides a comprehensive introduction to IoT, covering fundamental concepts, technologies, protocols, architecture, security, and advanced applications. Participants gain hands-on experience in setting up IoT systems, integrating sensors with microcontrollers, and transmitting data to cloud platforms. By the end of the course, students are equipped with the knowledge and skills to understand, implement, and innovate in the field of IoT.

Course Outcomes:

Upon successful completion of this course, students should be able to:

- Understand the key components and layers of IoT architecture.
- Implement sensor integration with microcontrollers and data transmission to cloud platforms.
- Evaluate IoT technologies, protocols, and their applications across various domains.
- Discuss security challenges, privacy concerns, and ethical considerations in IoT deployments.

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Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai
NAAC Accredited Institution
"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.
ANNA UNIVERSITY COUNSELLING CODE : 1101

Place: Chennai
Date: 17-03-2020

From

Head of the Department
Department of Information Technology
Aalim Muhammed Salegh College of Engineering
Avadi IAF, Muthapudupet
Chennai - 600055

To

The Principal
Aalim Muhammed Salegh College of Engineering
Avadi IAF, Muthapudupet
Chennai - 600055

Respected Sir,

Sub: Requisition for the approval to conduct Value Added course in IT department – Reg.

Resource Person: Mr. M.Tharik Anwar, MCA, Retech Solutions Pvt. Ltd.

We wish to conduct Value Added course in our IT department on the topic "**Introduction to IoT**" an Alumni Guest Lecture Series from 25-03-2020 to 17-04-2020 (including Saturdays).

The objective of conducting this Value Added course will give the industry focus in developing skills required by using latest technology advancement in "**Introduction to IoT**". This effort will benefit our Student's community and bring core strength in engineering field.

Thank you.

permitted
17/3/2020

Yours truly,

HEAD/IT 17/3/2020

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IAF-AVADI, CHENNAI - 55

DEPARTMENT OF INFORMATION TECHNOLOGY

Certificate Course Details

Course Name: INTRODUCTION TO IOT

Date : 25/03/2020 to 17/04/2020

Week	Content	Total Hours/Week
1	**Introduction to IoT Fundamentals and Technologies** • Introduction to IoT o Definition and Evolution of IoT o Applications across industries o IoT Ecosystem: Components and architecture o Benefits and Challenges of IoT • IoT Technologies and Protocols o Sensor Technologies: Types and integration with IoT o Introduction to IoT Protocols: MQTT, CoAP, HTTP	10
2	**IoT Communication, Data Management, and Security** • IoT Communication and Networking o Wireless Communication Technologies: WiFi, Bluetooth, Zigbee o IoT Network Topologies and Communication Protocols • IoT Data Management and Analytics o Data Collection and Storage in IoT o Data Analytics Techniques for IoT: Real-time processing, predictive analytics • IoT Security and Privacy o IoT Security Fundamentals: Threats, vulnerabilities, and risk management o Securing IoT Systems: Authentication, encryption, access control	14

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3	**Applications of IoT in Smart Cities, Healthcare, and Industrial Settings**
	
	• IoT Applications in Smart Cities
	   o Smart City Concepts and IoT Integration
	   o Case Studies: Examples of IoT in urban planning, transportation, energy management
	• Industrial IoT (IIoT)
	   o Introduction to Industrial IoT: Applications in manufacturing, logistics, and agriculture
	   o IIoT Architecture and Challenges
	• IoT in Healthcare
	   o IoT Applications in Healthcare: Remote patient monitoring, wearable devices
	   o Ethical and Regulatory Considerations in IoT Healthcare
		8

	Total Hours	**32**

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ANNA UNIVERSITY COUNSELLING CODE : 1101

Value Added Course Tentative Time Table And Schedule

Value Added Course Name: **Introduction to IoT**

Date of Commencement: From 25-03-2020

Timing: 4 PM TO 6 PM Week days & Saturday 9.30 AM to 1.30 PM

Tentative Date of Exam- 17-04-2020

Tentative Course Schedule - 25-03-2020 to 17-04-2020 (As per following)

No. of Weeks: 3   No. Of Days: 14

Course Hours: 32

Speaker: Mr. M.Tharik Anwar

1. Module -1: **Introduction to IoT Fundamentals and Technologies**
   25-03-2020 to 28-03-2020 (4 Days) – 10 Hours
2. Module -2: **IoT Communication, Data Management, and Security**
   30-03-2021 to 04-04-2020 (6 Days) – 14 Hours
3. Module -3: **Applications of IoT in Smart Cities, Healthcare, and Industrial Settings**
   13-04-2020 to 17-04-2020 (4 Days) – 8 Hours

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AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY
STUDENT ATTENDANCE LIST
2019-20_IV YEAR

S.No	REG.NO	Name of the Student	25/3/20	26/3/20	27/3/20	28/3/20	30/3/20	31/3/20	1/4/20
1	110116205001	AFZAL M	/	/	/	/	/	/	/
2	110116205002	AL ANSARI H.	/	/	/	/	/	/	/
3	110116205003	ARSHIYA AFRIN	/	/	/	/	/	/	/
4	110116205004	ELIYAS AHAMED R.	/	/	/	/	/	/	/
5	110116205302	YASMEEN HUSSAIN J.	/	/	/	/	/	/	/
6	110116205006	JEEVITHAMANI G.	/	/	/	/	/	/	/
7	110116205007	JIFFRIL AKRAM	/	/	/	/	/	/	/
8	110116205301	JAYASHREE M.	/	/	/	/	/	/	/
9	110116205008	MEGANDAR KHAN S.	/	/	/	/	/	/	/
10	110116205009	MEGHA K.	/	/	/	/	/	/	/
11	110116205010	MOHAMED ARFIN S.	/	/	/	/	/	/	/
12	110116205011	MOHAMED ARSHATH V.	/	/	/	/	/	/	/
13	110116205012	MOHAMED AZATH R	/	/	/	/	/	/	/
14	110116205014	MOHAMMED ANWARDHEEN.M.	/	/	/	/	/	/	/
15	110116205015	MOHAMMED FARHAN.K.	/	/	/	/	/	/	/
16	110116205016	NASREEN FATHIMA M.K.N	/	/	/	/	/	/	/
17	110116205017	NOOR MOHAMED A	/	/	/	/	/	/	/
18	110116205018	PANDIYA MOORTHY .M.	/	/	/	/	/	/	/
19	110116205019	SALMAN OMAR M	/	/	/	/	/	/	/
20	110116205020	SARATH .B.	/	/	/	/	/	/	/
21	110116205021	SESHA PRIYA S	/	/	/	/	/	/	/
22	110116205022	SIVA BALAJI.S.	/	/	/	/	/	/	/
23	110116205023	SOMA LAKSHMI.S.	/	/	/	/	/	/	/
24	110116205024	VEERAMANI.S.	/	/	/	/	/	/	/
25	110116205025	VISHWA PRIYAA.K	/	/	/	/	/	/	/
26	110116205026	YASAR ARAFATH.M.	/	/	/	/	/	/	/

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22

HEAD/IT 17/4/20

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AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING CHENNAI 600 055

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY
STUDENT ATTENDANCE LIST
2019-20_IV YEAR

S.No	REG.NO	Name of the Student	2/4/20	3/4/20	4/4/20	13/4/20	15/4/20	16/4/20	17/4/20
1	110116205001	AFZAL M							
2	110116205002	AL ANSARI H.							
3	110116205003	ARSHIYA AFRIN							
4	110116205004	ELIYAS AHAMED R.							
5	110116205302	YASMEEN HUSSAIN J.							
6	110116205006	JEEVITHAMANI G.							
7	110116205007	JIFFRIL AKRAM							
8	110116205301	JAYASHREE M.							
9	110116205008	MEGANDAR KHAN S.							
10	110116205009	MEGHA K.							
11	110116205010	MOHAMED ARFIN S.							
12	110116205011	MOHAMED ARSHATH V.							
13	110116205012	MOHAMED AZATH R							
14	110116205014	MOHAMMED ANWARDHEEN.M.							
15	110116205015	MOHAMMED FARHAN.K.							
16	110116205016	NASREEN FATHIMA M.K.N							
17	110116205017	NOOR MOHAMED A							
18	110116205018	PANDIYA MOORTHY .M.							
19	110116205019	SALMAN OMAR M							
20	110116205020	SARATH .B.							
21	110116205021	SESHA PRIYA S							
22	110116205022	SIVA BALAJI.S.							
23	110116205023	SOMA LAKSHMI.S.							
24	110116205024	VEERAMANI.S.							
25	110116205025	VISHWA PRIYAA.K							
26	110116205026	YASAR ARAFATH.M.							

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13/4/20

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DEPARTMENT OF INFORMATION TECHNOLOGY
STUDENT ATTENDANCE LIST
2019-20_III YEAR

16.

S.No	REG.NO	Name of the Student	25/3/20	26/3/20	27/3/20	28/3/20	30/3/20	31/3/20	1/4/20
1	110117205001	AADHISITHAN.R	✓	✓	✓	✓	✓	✓	✓
2	110117205002	AYEESHA KHATOON B	✓	✓	✓	✓	✓	✓	✓
3	110117205003	DHANISHA.R	✓	✓	✓	✓	✓	✓	✓
4	110117205004	JAFAR SHAREEF.U	✓	✓	✓	✓	✓	✓	✓
5	110117205005	MAHALAKSHMI J	✓	✓	✓	✓	✓	✓	✓
6	110117205006	MOHAMED ABBAS MEERAN M	✓	✓	✓	✓	✓	✓	✓
7	110117205007	JIFFRIL AKRAM	✓	✓	✓	✓	✓	✓	✓
8	110117205008	MOHAMED ABUBACKER S	✓	✓	✓	✓	✓	✓	✓
9	110117205009	MOHAMED ARFIN.J	✓	✓	✓	✓	✓	✓	✓
10	110117205010	MOHAMED ASHIK.M	✓	✓	✓	✓	✓	✓	✓
11	110117205011	MOHAMED ASSIF.A	✓	✓	✓	✓	✓	✓	✓
12	110117205012	MOHAMED IBRAHIM.M	✓	✓	✓	✓	✓	✓	✓
13	110117205013	MOHAMED SHAFITH.K	✓	✓	✓	✓	✓	✓	✓
14	110117205014	RABIA MAA S	✓	✓	✓	✓	✓	AB	✓
15	110117205015	RABIYA NOORIE M A	AB	✓	✓	✓	✓	✓	✓
16	110117205016	SHANOFAR JUHI.M	✓	AB	✓	AB	✓	✓	✓
17	110117205017	SYED FARHAN MOHIDEEN	✓	✓	AB	AB	✓	✓	✓
18	110117205018	ZAINAB SABA M	✓	✓	✓	AB	✓	AB	✓
19	110117205019	ZEENATH BEGUM.N	✓	✓	✓	AB	✓	✓	✓
20	110117205301	DASS E	✓	✓	✓	✓	✓	✓	✓
21	110117205302	SARBUDEEN KATHER S	AB	AB	✓	✓	✓	✓	✓
22	110117205303	WASEEQ AHMED T	✓	✓	✓	✓	✓	✓	✓

17/4/20
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DEPARTMENT OF INFORMATION TECHNOLOGY
STUDENT ATTENDANCE LIST
2019-20_III YEAR

S.No	REG.NO	Name of the Student	2/4/20	3/4/20	4/4/20	13/4/20	15/4/20	16/4/20	17/4/20
1	110117205001	AADHISITHAN.R	/	/	/	/	/	/	/
2	110117205002	AYEESHA KHATOON B	/	/	/	/	/	/	/
3	110117205003	DHANISHA.R	/	/	/	/	/	/	/
4	110117205004	JAFAR SHAREEF.U	/	/	/	/	/	/	/
5	110117205005	MAHALAKSHMI J	/	/	/	/	/	/	/
6	110117205006	MOHAMED ABBAS MEERAN M	/	/	/	/	/	/	/
7	110117205007	JIFFRIL AKRAM	/	/	/	/	/	/	/
8	110117205008	MOHAMED ABUBACKER S	/	/	/	/	/	/	/
9	110117205009	MOHAMED ARFIN.J	/	/	/	/	/	/	/
10	110117205010	MOHAMED ASHIK.M	/	/	/	/	/	/	/
11	110117205011	MOHAMED ASSIF.A	/	/	/	/	/	/	/
12	110117205012	MOHAMED IBRAHIM.M	/	/	/	/	/	/	/
13	110117205013	MOHAMED SHAFITH.K	/	/	/	/	/	/	/
14	110117205014	RABIA MAA S	/	AB	/	/	/	/	/
15	110117205015	RABIYA NOORIE M A	/	/	/	/	/	AB	/
16	110117205016	SHANOFAR JUHI.M	/	AB	/	/	/	/	/
17	110117205017	SYED FARHAN MOHIDEEN	/	/	/	/	AB	AB	/
18	110117205018	ZAINAB SABA M	/	/	·AB	/	/	/	AB
19	110117205019	ZEENATH BEGUM.N	/	/	/	/	/	/	/
20	110117205301	DASS E	/	/	/	/	/	/	/
21	110117205302	SARBUDEEN KATHER S	/	/	/	/	/	/	/
22	110117205303	WASEEQ AHMED T	/	/	/	/	/	/	/

HEAD/IT 17/4/20

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AALIM MUHAMMED SALEGH
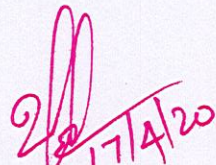COLLEGE OF ENGINEERING

PRINCIPAL
13/4/20

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY
STUDENT ATTENDANCE LIST
2019-20_II YEAR

S.No	REG.NO	Name of the Student	25/3/20	26/3/20	27/3/20	28/3/20	30/3/20	31/3/20	1/4/20
1	110118205001	ASIM KHAN.A	✓	✓	✓	✓	✓	✓	✓
2	110118205002	ENAMULHUK M	✓	✓	✓	✓	✓	✓	✓
3	110118205004	HIDARALI A	✓	AB	✓	AB	✓	✓	✓
4	110118205005	MADHUMEGA A	✓	✓	✓	✓	✓	✓	✓
5	110118205007	MOHAMED MARWAN VM	✓	✓	✓	✓	✓	✓	✓
6	110118205008	MOHAMED NAWAZ M	✓	✓	✓	✓	✓	✓	✓
7	110118205009	JIFFRIL AKRAM	✓	✓	✓	✓	✓	✓	✓
8	110118205010	SALMA A	✓	✓	✓	✓	✓	✓	✓
9	110118205011	SALMAN AHAMED J	✓	✓	✓	✓	✓	✓	✓
10	110118205012	SALMAN AL FARISHI K	✓	✓	✓	✓	AB	✓	✓
11	110118205013	SANJAY BITRA N	✓	✓	✓	✓	✓	✓	✓
12	110118205014	SHABANA PARVEEN K	✓	✓	✓	✓	✓	✓	✓
13	110118205015	SYED MOHAMED DHANISH M R	✓	✓	✓	✓	AB	✓	✓
14	110118205302	GOWTHAM A	✓	✓	✓	✓	✓	✓	✓

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17/4/20

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DEPARTMENT OF INFORMATION TECHNOLOGY
STUDENT ATTENDANCE LIST
2019-20_II YEAR

S.No	REG.NO	Name of the Student	2/4/20	3/4/20	4/4/20	13/4/20	15/4/20	16/4/20	17/4/20
1	110118205001	ASIM KHAN.A	✓	✓	✓		✓	✓	✓
2	110118205002	ENAMULHUK M	✓	✓	✓	✓	✓	✓	✓
3	110118205004	HIDARALI A	✓	✓	✓	✓	✓	✓	✓
4	110118205005	MADHUMEGA A	✓	✓	✓	✓	✓	✓	✓
5	110118205007	MOHAMED MARWAN VM	✓	✓	✓	✓	✓	✓	✓
6	110118205008	MOHAMED NAWAZ M	✓	✓	✓	✓	✓	✓	✓
7	110118205009	JIFFRIL AKRAM	✓	✓	✓	✓	✓	✓	✓
8	110118205010	SALMA A	✓	✓	✓	AB	✓	✓	✓
9	110118205011	SALMAN AHAMED J	✓	✓	✓	✓	✓	✓	✓
10	110118205012	SALMAN AL FARISHI K	✓	✓	✓	✓	AB	✓	✓
11	110118205013	SANJAY BITRA N	✓	✓	✓	✓	✓	✓	✓
12	110118205014	SHABANA PARVEEN K	✓	✓	AB	AB	✓	✓	✓
13	110118205015	SYED MOHAMED DHANISH M R	✓	AB	✓	✓	✓	AB	✓
14	110118205302	GOWTHAM A	✓	✓	✓	✓	✓	✓	✓

17/4/20

HEAD/IT

PRINCIPAL
18/4/20

Date: 17-04-2020   INT: RE19-20/119-621
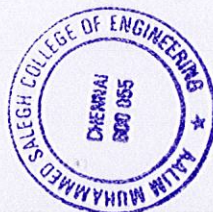
TO WHOMSOEVER IT MAY CONCERN

This is to certify that ENAMULHUK M student of AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING, B.E/IT has completed the course through online in our concern entitled **Introduction to IoT** from 25th March 2020 to 17th April 2020.

During the above period, the performance was good & we wish great success in all your feature endeavors.

Technology drives the world. We ar...le pe...who a...Pr...in t...hnology.

Authorized Signature

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

RETECH
SOLUTIONS PVT. LTD.
An ISO 9001:2015 certified company

Date: 17-04-2020   INT: RE19-20/119-622

TO WHOMSOEVER IT MAY CONCERN

This is to certify that HIDARALI A student of AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING, B.E/IT has completed the course through online in our concern entitled Introduction to IoT from 25th March 2020 to 17th April 2020.

During the above period, the performance was good & we wish great success in all your feature endeavors.

Technology drives the world. We a   Authorized Signature

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

No-31, 1st Floor, Alagesan Street, Tambaram West, Chennai-45.
Office : 044-42077204 | +91-8122266653   www.retechsolutions.in

Date: 17-04-2020

INT: RE19-20/119-623

TO WHOMSOEVER IT MAY CONCERN

This is to certify that MADHUMEGA A student of AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING, B.E/IT has completed the course through online in our concern entitled **Introduction to IoT** from 25th March 2020 to 17th April 2020.

During the above period, the performance was good & we wish great success in all your feature endeavors.

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Authorized Signature

PRINCIPAL
ALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Date: 17-04-2020   **INT: RE19-20/119-624**

TO WHOMSOEVER IT MAY CONCERN

This is to certify that MOHAMED MARWAN VM student of

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING,

B.E/IT has completed the course through online in our concern entitled

Introduction to IoT from 25th March 2020 to 17th April 2020.

During the above period, the performance was good & we wish great success in all your feature endeavors.

Technology drives the world. We at ...

Authorized Signature

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING