



AMET

ACADEMY OF MARITIME EDUCATION AND TRAINING
DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act 1956)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE DETAIL

ACADEMIC YEAR-2018-19

1	Course Name	Raspberry Pi with IoT using Python
2	Course offered by	Signals & Systems (India) Pvt. Ltd., Chennai
3	Co-Ordinator	Dr.V.Karthikeyan and Mr.C.Gnanavel
4	Instructor	Mr.E.Murugan, Signals & Systems
5	Course	-
6	Class	BE-EEE(Marine)
7	Number of Students per batch	22
8	Duration	30hrs
9	No. of Hrs /Week	3hrs/Week
10	Prerequisite	Basic Computer Programming Knowledge
11	About the Course	Hands on training to the students to develop their python programming with Raspberry Pi processor
12	Course Objective	Understand the basics of python and IoT
13	Course Outcome	Able to write programs using python in Raspberry Pi
14	Topics Covered	Syllabus Attached
15	Learning References	List of reference attached
16	Assessment Method	Assessment Test conducted by SANDS and Test papers are available with SANDS
17	Attendance Sheet	Copies Attached
18	Photograph	Copies Attached
19	Certificate Copies	Copies Attached
20	Feedback About The Course	Copies Attached
21	Action Taken Report	Copies Attached

Topics Covered

Duration	Content	Session
Day 1	✓ Introduction to Embedded System. ✓ Introduction to Raspberry Pi. ✓ Development Tools ✓ OS Booting Process and Installation	Theory with demo
Day 2	✓ Basic Linux Commands ✓ Basic Python Programs ✓ Shell Scripting with Examples ✓ Basic Coding Practice ✓ Basic Electronics Components	Hands-on Session
Day 3	- Embedded Python Programming on SoC ✓ Introduction to Python. ✓ GPIO Accessing. ✓ LED Toggling	Hands-on Session
Day 4	- Introductions to Switches ✓ Design of transistor switching circuit. ✓ Interfacing of switch with RPI. ✓ Pull down Switch	Hands-on Session
Day 5	✓ Introduction about sensors ✓ Different types of sensors and functions. ✓ How to interface sensors with RPI.	Theory with Hands-on
Day 6	✓ Motors interfacing with RPI. ✓ Interfacing different modules UART protocol.	Hands-on Session
Day 7	✓ Relay Interface with RPI. ✓ Working principles of relays and types. ✓ Design of Relay circuits. ✓ How to interface relay in HV supply.	Hands-on Session
Day 8	✓ Introduction to IoT ✓ Creating IoT Platform account ✓ Configure a dash board. ✓ Sensor interface with IoT.	Hands-on Session
Day 9	✓ Project 1: IoT Technology Using – SMART Home Automation.	Hands-on Session
Day 10	✓ Project 2: IoT Technology Using – Real Time Industrial Automation. ✓ Doubt Clarification and Evaluation	Hands-on Session

ASSESSMENT METHOD

SANDS will conduct assessment tests of individual candidates. Modules assessments test papers will be maintained by SANDS and shared with AMET as and when required. Attendance sheets for each training maintained by SANDS, and other related documents like training material, test papers, pictures of training will be scanned and managed in individual folders for each batch.



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Value Added Training Program

on

“Raspberry Pi with IoT using Python”

Convener

Dr. T. Sasilatha

Professor and Dean

Department of Electrical and Electronics Engineering

Co-ordinators

Dr. V. Karthikeyan, Professor / EEE

Mr. C. Gnanavel, Assistant Professor / EEE

Organized By

Department of Electrical and Electronics Engineering

AMET Deemed to be University

135, East Coast Road,
Kannathur, Chennai – 603112.

In Collaboration with

SANDS

SIGNALS & SYSTEMS (India) Pvt. Ltd.,

15/D-19, SIPCOT IT Park, Siruseri,

OMR Road, Chennai -603103.



AMET
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REPORT
on
Value Added Training Program on
“Raspberry Pi with IoT using Python”

Organized By
Department of Electrical and Electronics Engineering

In Collaboration with

SANDS

SIGNALS & SYSTEMS (India) Pvt. Ltd.,
15/D-19, SIPCOT IT Park, Siruseri,
OMR Road, Chennai -603103.

Date: 18-03-2019 to 23-03-2019

Venue:
DSP & Embedded System Lab

Convener
Dr. T. Sasilatha
Professor and Dean
Department of Electrical and Electronics Engineering

Co-Ordinators
Dr. V. Karthikeyan, Professor / EEE
Mr. C. Gnanavel, Assistant Professor / EEE

The Department of Electrical and Electronics Engineering of AMET Deemed to be University has organized six days Value Added Training Programme on “**Raspberry Pi with IoT using Python**” during 9th January 2019 to 6th April 2019 at DSP & Embedded System Lab. **28 Students of third year B.E (Electrical and Electronics Engineering-Marine) of Batch-9** attended the training programme.

The event started on 9th January 2019 at DSP & Embedded System Lab, @ 9.00 AM with the introduction speech by Dr. T. Sasilatha, Dean/EEE. The outline of the course is explained by Mr. E. Murugan, Engineer-Project & Development, SANDS. The entire training programme was given by Mr. E. Murugan with both theory and hands-on session. The training was conducted for 3 hours per week and 10 weeks. During the hands-on sessions, students were provided with the separate controller and other necessary components for practice. On 6th April 2019, the training programme was ended with the feedback session and certificate distribution.

The contents of the programme are as follows:

Days	Course Content
Day 1	✓ Introduction to Embedded System. ✓ Introduction to Raspberry Pi. ✓ Development Tools ✓ OS Booting Process and Installation
Day 2	✓ Basic Linux Commands ✓ Basic Python Programs ✓ Shell Scripting with Examples ✓ Basic Coding Practice ✓ Basic Electronics Components
Day 3	Embedded Python Programming on SoC ✓ Introduction to Python. ✓ GPIO Accessing. ✓ LED Toggling
Day 4	Introductions to Switches ✓ Design of transistor switching circuit. ✓ Interfacing of switch with RPI. ✓ Pull down Switch
Day 5	✓ Introduction about sensors ✓ Different types of sensors and functions. ✓ How to interface sensors with RPI.
Day 6	✓ Motors interfacing with RPI. ✓ Interfacing different modules UART protocol.
Day 7	✓ Relay Interface with RPI. ✓ Working principles of relays and types. ✓ Design of Relay circuits. ✓ How to interface relay in HV supply.
Day 8	✓ Introduction to IoT ✓ Creating IoT Platform account ✓ Configure a dash board. ✓ Sensor interface with IoT.
Day 9	Project 1: IoT Technology Using – SMART Home Automation.
Day 10	✓ Project 2: IoT Technology Using – Real Time Industrial Automation. ✓ Doubt Clarification and Evaluation

Feedback by the students:

- The students appreciated the value-added training programme since they experienced by hands-on training.
- The students are alert about the recent technologies in the industry.

The following students attended the training programme.

S. No	Roll No	Student Name
1	EE267	AKSHAI
2	EE268	ALLWIN RENOLD.S
3	EE269	ANANTHAN UNNI
4	EE270	BASKAR. M
5	EE273	DIVINS SOBI S
6	EE274	INBARAJ I
7	EE275	JAYA KRISHNAN K
8	EE276	JAYAKUMAR M
9	EE278	JOSEPH MELVIN B
10	EE279	MANIKANDAN N
11	EE280	NANDHAKUMAR G
12	EE281	NAVIN KUMAR. R
13	EE282	OSWIN SANCHO.U
14	EE283	RAJKUMAR E
15	EE284	SIVARAMAN. U
16	EE285	SOUNDARAPANDIYAN.L
17	EE288	SURYAKUMAR.A
18	EE289	VIGNESH K
19	EE291	YASWANTH S
20	EE292	GHORAKAVI LAKSHMI PRASANNA
21	EE293L	AJITHKUAMAR L
22	EE295L	MATHANDEEPU.M

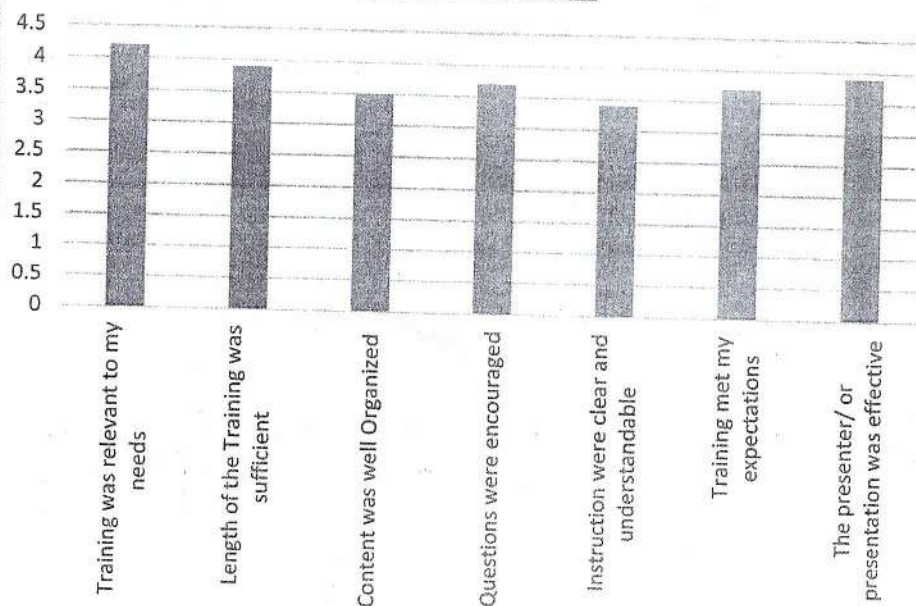


Latest Technology Raspberry Pi with IoT using Python by SANDS Centre for Innovation and Testing Pvt.Ltd



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED TRAINING PROGRAM
ON
RASPBERRY PI WITH IOT USING PYTHON
In association with
SIGNALS AND SYSTEMS PVT LTD
FEEDBACK ANALYSIS



Action Taken: Found Satisfactory



SANDS Profile

Signals And Systems (India) Private Limited better known in the industry with Brand name as SANDS is a 22 Years old manufacturing company and we manufacture a wide range of niche products, for use in energy sector, with focus on reduction of commercial loss, and energy / demand management system. All products employ state-of-art embedded technology, and are tested to international standards. While the performance is comparable to international brands, the price is very competitive in the market.

SANDS offer a complete end-to-end Revenue Protection Services for Power Utilities, covering all components of energy to revenue chain – starting from substations to consumer premises. The focus is on revenue improvement with minimal capital investments.

SANDS is one of the largest utility service provider in India with a cumulative meter reads of more than 20 Million, which includes high voltage, commercial and domestic consumers.

SANDS conduct various training programs in Embedded Systems & Software Technology with focus on bridging the gap between the university curriculum and industry's requirement for ready-to-design engineers.

SANDS plans to commence engineering services in Embedded Systems, covering the design, development and manufacture. The services will include Systems Architecture Design, Hardware Engineering, Software Development, Prototyping and Testing, in Embedded Systems & Microcontroller verticals.

We Conduct Workshops, Seminars, Guest Lectures, Faculty Development Programs, Project Guidance, Internships and Skill Enhancement Courses in Embedded Systems Design, Internet of Things, Hardware Designing, Big Data, Java & Linux Python.

We prefer students & staffs mainly from ECE/EEE/EIE/ICE/Mechatronics/CSE/IT who is interested in Embedded Systems, Internet of Things, PCB Designing and Big Data area.

We look forward to hear from you and hope to have long standing relationship with you in near future too.

Thanks & Regards,

Mr. P. Karthik Venkatesh,

Head - Embedded Solutions (R&D)

SIGNALS & SYSTEMS (India) Pvt. Ltd.

15/D-19, SIPCOT IT Park, Siruseri, OMR Road, Chennai - 603103.

Landline : 044 - 27470001, 27470003, 27470087, 27470088

Email: training@sandsindia.com

Website : www.sandsindia.com

www.sandscerebro.com

"LEARNING IS A CONTINUOUS PROCESS SO NEVER EVER STOP GROWING IN LIFE"



Offer Ref: T&D/2018-19/VAT AMET EEE RPI 150 R3

Date: 04.01.2019

To,
The Head of the Department,
(Electrical & Electronics Engineering),
Academy of Maritime Education and Training (AMET)
135, East Coast Road,
Kandathur, Chennai-603112,

Sub: Proposal for Value Added Training on Latest Technology Raspberry Pi with IoT using Python for 10Day.

Objective : Training the students towards Employment in core Field.

Program Goals:

- ✧ Understand the Basics of Python & IOT Technology.
- ✧ Basic Knowledge About Architecture of Raspberry pi.
- ✧ Training the students to get practical exposure in Raspberry Pi.
- ✧ Aligning the theoretical knowledge with practical skills in Industrial based application.

Duration : Total duration of the Training shall be for 30Hrs @ 3Hrs per day for a total of 10Days only.

Terms & Conditions:

1. Requirement from College during the Training at College

- ✧ Place for practical session to accommodate all the Students.
- ✧ Separate Seminar Hall for the theory session to accommodate all the Students.
- ✧ Projector has to be provided by the College where ever required for the session.
- ✧ Power Connection for development Boards has to be provided as sets by the college.
- ✧ Hospitality & Transport of the Resource Person should be taken care by the college.
- ✧ College should provide all necessary technical support like **6 sets of Computer Monitor with USB Keyboard, USB Mouse with internet facility & Power supply Junction Box** or other related equipment's.

2. SANDS shall provide

- ✧ 1 Resource person shall be provided for a batch of around 30 students.
- ✧ A total of 5 - RPI Development kits with sensors shall be provided per batch of around 30 Students.
- ✧ One kit shall be provided for a group of 5-6 students to get hands on experience.
- ✧ SANDS shall take care of the complete knowledge transfer for the students undergoing the training program.
- ✧ SANDS shall provide certificate for all the students undergoing training after their successful completion.
- ✧ SANDS shall provide soft copy of VAT Course material at the end of the session.

3. Payment Terms

- ✧ 50% of the payment should be paid in advance and the balance 50% should be paid immediately after the Training completion.
- ✧ Please provide the PO in the name of **SANDS Centre for Innovation and Testing Pvt. Ltd., Chennai.**
- ✧ All the payments should be done in the name of **SANDS Centre for Innovation and Testing Pvt. Ltd.** payable at Chennai only.

Training Fee:

- ✧ The price per head is Rs. 2,000/- (Inclusive of all taxes) for minimum of 30 members for 30hrs total 10 days.

Thanks & Regards,

K.Surendar,

Marketing Engineer - Training & Development

Mobile: 9003262765, 9841718045(WP).

Mail: mktg.trg@sandsindia.com

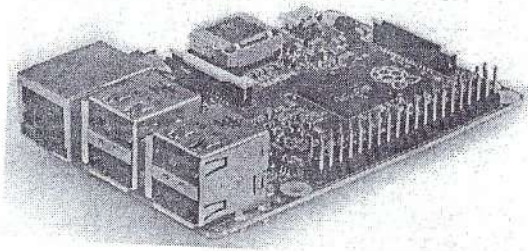
Day-wise Schedule

Duration	Content	Session
DAY (1)	INTRODUCTION TO EMBEDDED SYSTEM . ✓ Brief history of embedded system. ✓ Why to learn embedded system. ✓ Scope of embedded system. ✓ Roles of Microcontroller and Microprocessor ✓ Evolution of Microcontroller.	Theory Session
	INTRODUCTION TO RASPBERRY PI. ✓ Classification of RaspberryPi. ✓ Introduction of 32/64-bit ARM SOC. ✓ Introduction to Various ARM Core ✓ Introduction to ARM Cortex A53 ✓ Brief Introduction to Internal Features.	Theory Session
	DEVELOPMENT TOOLS. ✓ Putty. ✓ Win32 Disk-imager. ✓ SD Card Formatter. ✓ NOOBS. ✓ Rasbian OS.	Software Installation
	OS BOOTING PROCESS AND INSTALLATION. ✓ Linux Booting Process. ✓ SOC Booting Process.	Theory With Demo
DAY (2)	INTRODUCTION TO CLI. ✓ Basic Linux Commands ✓ Basic Python Programs ✓ Shell Scripting With Examples. ✓ Basic Coding Practice 1. ALU 2. String 3. Loop (IF, WHILE, IF ELSE, etc) 4. Conditions (FOR)	Hands-on Session

	BASIC ELECTRONICS COMPONENTS ✓ Resistor, Capacitor, Transistor, Diodes, Relays, Motors,	Demo Session
DAY (3)	EMBEDDED PYTHON PROGRAMMING ON SOC ✓ Introduction to Python. ✓ GPIO Accessing. ✓ LED Toggling.	Hands-on Session
DAY (4)	INTRODUCTIONS TO SWITCHES ✓ Design of switching circuit (Transistor Switching) ✓ How to interface switch with RPI. ✓ Pull down Switch	Hands-on Session
DAY(5)	Introduction about Sensors ✓ Different types of sensors and functions. ✓ How to interface Sensors with RPI 1. IR Sensors 2. PIR Sensors 3. Ultra sonic Sensors	Theory with Hands-on
DAY(6)	MOTORS INTERFACING with RPI ✓ Different types of motors ✓ Motor Interface 1. DC Motor 2. Servo Motor INTERFACING DIFFERENT MODULES UART protocol ✓ Send a character & string Using UART	Hands-On
DAY (7)	RELAY INTERFACE with RPI ✓ Types of relay. ✓ Working principles of Relays. ✓ Design Relay Circuit ✓ How to interface relay in HV supply	Hands-On
DAY (8)	Introduction to IoT ✓ Creating IOT Platform account ✓ Configure a Dash board ✓ Sensor interface with IoT.	Hands-On
DAY (9)	Project 1: IoT Technology Using - SMART Home Automation.	Hands-On
DAY(10)	Project2: IoT Technology Using - Real Time Industrial Automation.	Hands-On
	✓ Doubt Clarification and Evaluation ✓ Certificate Distribution & Feedback	Test

SANDS®

RASPBERRY PI



The Raspberry Pi is a low cost, **credit-card sized computer** that fittings into a PC screen or TV, and utilizations a standard console and mouse. It is an able little gadget that empowers individuals of any age to investigate figuring, and to figure out how to program in dialects like Scratch and Python. It can do all that you'd anticipate that a work station will do, from perusing the web and playing superior quality video, to

spreadsheets, to word handling, and playing diversions.

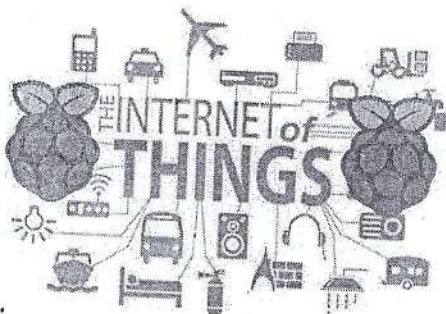
In addition, the Raspberry Pi has the capacity to communicate with the outside world, and has been utilized as a part of a wide exhibit of advanced producer ventures, from music machines and parent indicators to climate stations and tweeting perch rooms with infra-red cameras. We need to see the Raspberry Pi being utilized by kids everywhere throughout the world to figure out how to program and see how PCs function.

Python

Python syntax is very clean, with an emphasis on readability and uses standard English keywords. Start by opening IDLE from the desktop.

IOT Using Raspberry Pi

IoT using raspberry pi mainly incldue what is an IOT, Raspberry pi, IOT design methodology, etc.



What is Internet of Things ?

The Internet of Things (IoT) is a scenario in which objects, animals or people are provided with single identifiers and the capability to automatically transfer and the capability to automatically transfer data more to a network without requiring human-to-human or human-to-

computer communication. IOT has evolved from the meeting of wireless technologies, micro-electromechanical systems (MEMS) and the internet. The Internet of Things (IoT) is, arguably, the hottest topic in IT. Every organization wants to participate in the IoT, and many IT professionals want to know how to add IoT skills to their resume. One of the key learning platforms for IoT is the Raspberry Pi. The RasPi is a popular platform because it offers a complete Linux server in a tiny platform for a very low cost. In fact, one of the most difficult parts of using Raspberry Pi for learning about IoT is picking the right projects with which to begin.



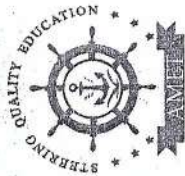
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Course : B.E. - Electrical & Electronics Engineering-Marine

Batch : BE(EEM)-9(2016-2020)-Third Year					
S.No	Register Number	Roll Number	Student Name	SIGN	
1	AEE16001	EE297	ABIRAJ.B	<i>ABIRAJ</i>	2 1 1 1 1 1
2	AEE16002	EE298	AVINASH VIJAY	<i>AVINASH</i>	2 1 1 1 1 1
3	AEE16003	EE299	AZARUTHEEN S	<i>AZARUTHEEN</i>	2 1 1 1 1 1
4	AEE16004	EE300	BEER MOHAMED	<i>BEER MOHAMED</i>	2 1 1 1 1 1
5	AEE16005	EE301	DHARUN.S	<i>DHARUN</i>	2 1 1 1 1 1
6	AEE16006	EE302	DINESH KUMAR.M	<i>DINESH KUMAR</i>	2 1 1 1 1 1
7	AEE16007	EE303	GANESHBABU K	<i>GANESHBABU</i>	2 1 1 1 1 1
8	AEE16008	EE304	GOKULAKRISHNAN.B	<i>GOKULAKRISHNAN</i>	2 1 1 1 1 1
9	AEE16009	EE305	IMMANVEL PETER	<i>IMMANVEL</i>	2 1 1 1 1 1
10	AEE16010	EE306	JOEL ROBINSON	<i>JOEL ROBINSON</i>	2 1 1 1 1 1
(11)	AEE16011	EE307	KABAN R.K	<i>KABAN R.K</i>	2 1 1 1 1 1
12	AEE16012	EE308	KARTHI. P	<i>KARTHI. P</i>	2 1 1 1 1 1
13	AEE16013	EE309	KRISHNARAJ.S	<i>KRISHNARAJ</i>	2 1 1 1 1 1
14	AEE16014	EE310	MOHAN RAJ R	<i>MOHAN RAJ</i>	2 1 1 1 1 1
15	AEE16015	EE311	NAVEEN RAJ. R	<i>NAVEEN RAJ</i>	2 1 1 1 1 1
16	AEE16016	EE312	PUNNOOSE BENNY	<i>PUNNOOSE</i>	2 1 1 1 1 1
(17)	AEE16018	EE314	ROHIT KUMAR	<i>ROHIT KUMAR</i>	2 1 1 1 1 1
18	AEE16019	EE315	SAMUEL MATHEW.G	<i>SAMUEL MATHEW</i>	2 1 1 1 1 1
19	AEE16020	EE316	SNHASISH SAHA	<i>SNHASISH SAHA</i>	2 1 1 1 1 1
20	AEE16022	EE318	SURIYA R	<i>SURIYA R</i>	2 1 1 1 1 1
21	AEE16023	EE319	VENKATESH S	<i>VENKATESH S</i>	2 1 1 1 1 1
22	AEE16024	EE320	VIGNESH.B	<i>VIGNESH.B</i>	2 1 1 1 1 1
(23)	AEE16025	EE322	IVAN GELIO ALVES-MAYER	<i>IVAN GELIO</i>	2 1 1 1 1 1
24	AEE16026	EE323	SREERAG SREEKUMAR	<i>SREERAG</i>	2 1 1 1 1 1
25	AEE16027	EE324	PRAVEEN.D	<i>PRAVEEN.D</i>	2 1 1 1 1 1
26	AEE16028L	EE325L	AKASH S	<i>AKASH S</i>	2 1 1 1 1 1
27	AEE16029L	EE326L	ANITOSH MONDAL	<i>ANITOSH</i>	2 1 1 1 1 1
28	AEE16030L	EE327L	SANTHOSH KUMAR D	<i>SANTHOSH</i>	2 1 1 1 1 1
29	AEE16031L	EE328L	VAITHIYANATHAN M S	<i>VAITHIYANATHAN</i>	2 1 1 1 1 1
30	AEE16032L	EE321L	SRI RAM SURATH KUMAR. V	<i>SRI RAM</i>	2 1 1 1 1 1
31	AEE16033L	EE376L	SURYA .A	<i>SURYA .A</i>	2 1 1 1 1 1
(32)		290R	VIGNESH.M	<i>VIGNESH.M</i>	2 1 1 1 1 1



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Celebrating
25
Years

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED TRAINING PROGRAM

on

Raspberry Pi with IoT Using Python

in association with

Signals and Systems India Pvt. Ltd.

Certificate of Completion

This is to certify that Mr. GOKULAKRISHNAN.B.....of
ELECTRICAL & ELECTRONICS ENGINEERING (MARINE).....has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
AMET Deemed to be University.


Mr. E. Murugan

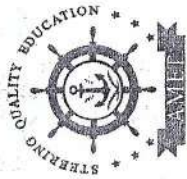
Engineer - Project & Development
Signals and Systems India Pvt. Ltd., Chennai



Dr. T. Sasilatha
Dean-EEE,
AMET University



Dr. P. Saravanan
Registrar,
AMET University



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Celebrating
25
years

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED TRAINING PROGRAM

on

Raspberry Pi with IoT Using Python

in association with

Signals and Systems India Pvt. Ltd.

Certificate of Completion

This is to certify that Mr. GANESH BABU: K..... of
ELECTRICAL & ELECTRONICS ENGINEERING (MARINE)..... has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
AMET Deemed to be University.


Mr. E. Murugan

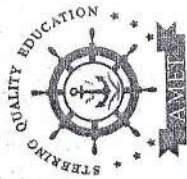
Engineer - Project & Development
Signals and Systems India Pvt. Ltd., Chennai


Dr. T. Sasitha

Dean-EEE,
AMET University


Dr. P. Saravanan

Registrar,
AMET University



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED TRAINING PROGRAM

ON

Raspberry Pi with IoT Using Python

in association with

Signals and Systems India Pvt. Ltd.

Certificate of Completion

This is to certify that Mr. **DINESH...KUMAR:M**..... of
..... **ELECTRICAL.....A.....ELECTRONICS.....ENGINEERING.....(MARINE)**..... has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
AMET Deemed to be University.

Mr. E. Murugan

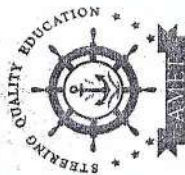
Engineer - Project & Development
Signals and Systems India Pvt. Ltd., Chennai

Dr. T. Sasitha

Dean-EEE,
AMET University

Dr. P. Saravanan

Registrar,
AMET University



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED TRAINING PROGRAM

on

Raspberry Pi with IoT Using Python

in association with

Signals and Systems India Pvt. Ltd.

Certificate of Completion

This is to certify that Mr. **DHARUN . S.**

..... of
ELECTRICAL & ELECTRONICS ENGINEERING (MARINE) .. has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
AMET Deemed to be University.

Mr. E. Murugan

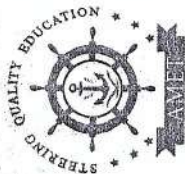
Engineer - Project & Development
Signals and Systems India Pvt. Ltd., Chennai

Dr. T. Sasiatha

Dean- EEE,
AMET University

Dr. P. Saravanan

Registrar,
AMET University



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED TRAINING PROGRAM

Raspberry Pi with IoT Using Python

on

in association with

Signals and Systems India Pvt. Ltd.

Certificate of Completion

This is to certify that Mr. **BEER MOHAMED VARIZ N.** of
..... **ELECTRICAL A. ELECTRONICS ENGINEERING (MARINE)** has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
AMET Deemed to be University.


Mr. E. Marugan

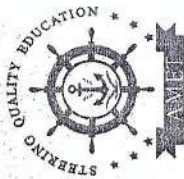
Engineer - Project & Development
Signals and Systems India Pvt. Ltd., Chennai


Dr. T. Sasilatha

Dean-EEE,
AMET University


Dr. P. Saravanan

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VALUE ADDED TRAINING PROGRAM

on

Raspberry Pi with IoT Using Python

in association with

Signals and Systems India Pvt. Ltd.

Certificate of Completion

This is to certify that Mr. AZARUHEEN : S. of
..... ELECTRICAL ELECTRONICS ENGINEERING (MARINE) has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
AMET Deemed to be University.

Mr. E. Murugan

Engineer - Project & Development
Signals and Systems India Pvt. Ltd., Chennai

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VALUE ADDED TRAINING PROGRAM

on

Raspberry Pi with IoT Using Python

in association with

Signals and Systems India Pvt. Ltd.

Certificate of Completion

This is to certify that Mr. AVINASH VIJAY of
..... ELECTRICAL & ELECTRONICS ENGINEERING (MARINE) has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
AMET Deemed to be University.



Mr. E. Murugan

Engineer - Project & Development
Signals and Systems India Pvt. Ltd., Chennai



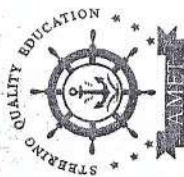
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Dr. P. Saravanan

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ON

Raspberry Pi with IoT Using Python

in association with

Signals and Systems India Pvt. Ltd.

Certificate of Completion

This is to certify that Mr. ABIRAT B. of
ELECTRONICS & ELECTRONICS ENGINEERING (MARINE) has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
AMET Deemed to be University.

Mr. E. Murugan

Engineer - Project & Development
Signals and Systems India Pvt. Ltd., Chennai

Dr. T. Sasiatha

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on
Raspberry Pi with IoT Using Python

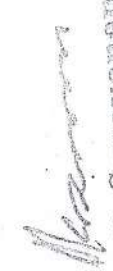
in association with
Signals and Systems India Pvt. Ltd.

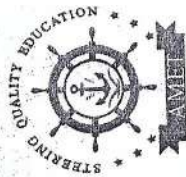
Certificate of Completion

This is to certify that Mr. **IMMANUEL PETER**..... has successfully
ELECTRICAL & ELECTRONICS ENGINEERING (MARINE) in association with
..... completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" (Even Semester) at
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019
AMET Deemed to be University.


Mr. E. Murugan
Engineer - Project & Development
Signals and Systems India Pvt. Ltd., Chennai


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VALUE ADDED TRAINING PROGRAM

on

Raspberry Pi with IoT Using Python

in association with

Signals and Systems India Pvt. Ltd.

Certificate of Completion

This is to certify that Mr. *JOEL ROBINSON*.....of
ELECTRICAL & ELECTRONICS ENGINEERING (MARINE).....has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
AMET Deemed to be University.

Mr. E. Murugan
Mr. E. Murugan

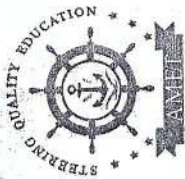
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Dr. T. Sasitha
Dr. T. Sasitha

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Raspberry Pi with IoT Using Python

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Certificate of Completion

This is to certify that Mr. **KARTHI . P** of
ELECTRICAL & ELECTRONICS ENGINEERING (MARINE) has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Mr. E. Murugan

Engineer - Project & Development
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in association with

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Certificate of Completion

This is to certify that Mr. **KRISHNARAT : S** of
ELECTRICAL & ELECTRONICS ENGINEERING (MARINE) ... has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Mr. E. Murugan

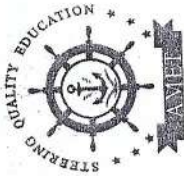
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This is to certify that Mr. MOHAN. RAI. R. of
ELECTRICAL & ELECTRONICS ENGINEERING (MARINE) has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Mr. E. Murugan

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Certificate of Completion

This is to certify that Mr. **NAVEEN RAJ.: R.** of
ELECTRICAL & ELECTRONICS ENGINEERING (MARINE) has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Mr. E. Murugan

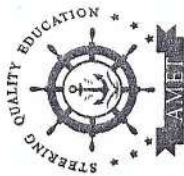
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This is to certify that Mr. *PUNNOOSE BENNY* of
ELECTRICAL & ELECTRONICS ENGINEERING (MARINE) has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Certificate of Completion

This is to certify that Mr. **SAMUEL MATHEN** of
..... **ELECTRICAL & ELECTRONICS ENGINEERING (MARINE)** has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Mr. E. Murugan

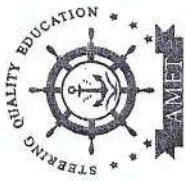
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Certificate of Completion

This is to certify that Mr. **SNAHASISH SAHA** of
ELECTRICAL & ELECTRONICS ENGINEERING (MARINE) has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Mr. E. Murugan

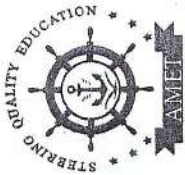
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Certificate of Completion

This is to certify that Mr. **SURIYA: R** of
..... **ELECTRICAL & ELECTRONICS ENGINEERING (MARINE)** has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Certificate of Completion

This is to certify that Mr. **VENKATESH** : S. of
..... **ELECTRICAL & ELECTRONICS ENGINEERING (MARINE)** has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Mr. E. Murugan

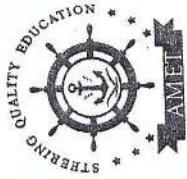
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Signals and Systems India Pvt. Ltd.

Certificate of Completion

This is to certify that Mr.....**SRI. RAM. SURATH. KUMAR. V.**.....of
.....**ELECTRICAL & ELECTRONICS ENGINEERING (MARINE)**.....has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Mr. E. Murugan

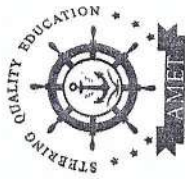
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Raspberry Pi with IoT Using Python

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Certificate of Completion

This is to certify that Mr. **SREERAG SREEKUMAR** of
..... **ELECTRICAL & ELECTRONICS ENGINEERING (MARINE)** has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Mr. E. Murugan

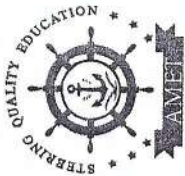
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Raspberry Pi with IoT Using Python

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Certificate of Completion

This is to certify that Mr. **PRAVEEN.D.** of
..... **ELECTRICAL & ELECTRONICS ENGINEERING (MARINE)** has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
AMET Deemed to be University.

Mr. E. Murugan

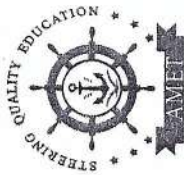
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VALUE ADDED TRAINING PROGRAM

ON

Raspberry Pi with IoT Using Python

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Signals and Systems India Pvt. Ltd.

Certificate of Completion

This is to certify that Mr. AKASH : S of
..... ELECTRICAL & ELECTRONICS ENGINEERING (MARINE) has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Mr. E. Murugan

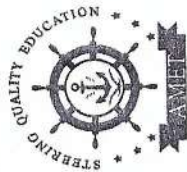
Engineer - Project & Development
Signals and Systems India Pvt. Ltd., Chennai



Dr. T. Sasitha
Dean- EEE,
AMET University



Dr. P. Saravanan
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Certificate of Completion

This is to certify that Mr. ANIJOH MONDAL of
..... ELECTRICAL & ELECTRONICS ENGINEERING (MARINE) has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
AMET Deemed to be University.

Mr. E. Murugan
Mr. E. Murugan

Engineer - Project & Development
Signals and Systems India Pvt. Ltd., Chennai

Dr. T. Sasilatha

Dr. T. Sasilatha
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Certificate of Completion

This is to certify that Mr. **SANTHOSH KUMAR: D** of
..... **ELECTRICAL & ELECTRONICS ENGINEERING (MARINE)** has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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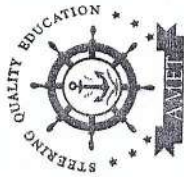
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Certificate of Completion

This is to certify that Mr. **VAITHYANATHAN.: M.S** of
..... **ELECTRICAL & ELECTRONICS ENGINEERING (MARINE)** has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Mr. E. Murugan

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Signals and Systems India Pvt. Ltd., Chennai

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Certificate of Completion

This is to certify that Mr.....**SURYA :A**.....of
.....**ELECTRICAL & ELECTRONICS ENGINEERING (MARINE)**.....has successfully
completed the training course of 30 hours in "Raspberry Pi with IoT Using Python" in association with
Signals and Systems India Pvt. Ltd., during the academic year 2018 - 2019 (Even Semester) at
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Signals and Systems India Pvt. Ltd., Chennai

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