

Ref.No. CEA/E&TC/2019/ 521 (A)/1

Date:- 15/02/2019

To,
Akash Dane,
Model based Developer,
Synapse system,
Pune

Subject: Request for conducting 3 day workshop on topic "Embbdedd system , IOT, Arduino" from 21th February 2019 to 23th February 2019

.Dear Sir,

It gives us immense pleasure to state that the Department of Electronics & Telecommunication Engineering of our institute organizes a 3 day workshop for students.

As per discussion with Prof. C.K.Kalawade , Assistant Professor, Department of Electronics & Telecommunication Engineering , We would like to invite you to conduct a 3 day workshop on topic "Embbdedd system , IOT, Arduino" from 21th February 2019 to 23th February 2019

Kindly accept our invitation to deliver lecture and give your consent.

Thanking you.

Yours sincerely,



(Dr. Uday P. Naik)

Principal



PRINCIPAL
Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar

Ref.No. CEA/E&TC/2019/ 521(A)/2

Date:- 15/02/2019

To,
Sumedh Saptarshi,
Senior Engineer,
Synapse system,
Pune

Subject: Request for conducting 3 day workshop on topic "Embedded system , IOT, Arduino" from 21th February 2019 to 23th February 2019

Dear Sir,

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Ahmednagar

Dr.Vithalrao Vikhe Patil College of Engineering, Ahmednagar
Department of Electronics & Telecommunication Engineering

NOTICE

Date 18/02/2019

All the faculty and students of T.E. , B.E. are hereby informed that workshop on "Embedded System, Arduino, IOT " by Mr.Sumedh Saptarshi & Mr Akash Dane is scheduled on 21/02/2019 to 23/02/2019 . Students should register their names to student coordinator for the workshop


Prof .Dr.A.K.Patil
HOD

Head of Electronics & Telecommunication Dept.
P.D.V.V.P. College of Engineering
Vilad Ghat, Ahmednagar-414111




Principal
Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar



॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥
Dr. Vitthalrao Vikhe Patil Foundation's

**Dr. Vitthalrao Vikhe Patil
College of Engineering Ahmednagar**



DTE College Code: EN-5161

Department of Electronics & Telecommunication Engineering

Title of Workshop :- **Three days workshop on Embedded Systems and Arduino ,IOT**

Conducted By:- Synapse system, Pune

Date :- 21/02/2019-23/02/2019

Students from:- (S.E.,T.E. Students)

Total Number Of Students =39

Name of the expert: Sumedh Saptarshi
(Senior Engineer at Synapse system, Pune)
Akash Dane
(Director Of Synapse system, Pune)

Venue: class room ETC13 & ETC 11

Convener :- Prof.Dr.A.K.Patil


Co-ordinator:- Prof.C.K.Kalawade

Workshop Objective :

- 1)To get familiar with various concept of Embedded systems &IOT
- 2) To introduce Arduino micro-controller & its programming
- 3) To introduce different sensors for inter-facings with Arduino micro-controller

Workshop Outcomes :

- 1)Student will be able to understand the concept of Embedded systems & IOT
- 2)Students have hands on practice on Arduino micro-controller board & its programming
- 3)Student can use different sensors & inter-facings with Arduino micro-controller in their projects


Head of Electronics & Telecommunication Dept.
P.D.V.V.P. College of Engineering
Vilad Ghat, Ahmednagar-414111




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Report
On
Three Days Workshop
By
Alumini

Topic: Three Days Workshop on Embedded Systems, Arduino and IOT

Date: 21/02/2019 to 23/02/2019

Venue: Department of E&TC –Computer Lab-I (DVVPCOE, Ahmednagar)

Organized by
Department of Electronics and Telecommunication
Dr. Vithalrao Vikhe Patil College of engineering Ahmednagar

Details of the session:

Tree Days Workshop on Embedded Systems, Ardiuno and IOT

Details of the Event:

- **Date of the Workshop :** 21/02/2019 to 23/02/2019
- **Time :** 9.30.00am to 5.00pm
- **Title:** “Embedded Systems, Ardiuno and IOT”
- **Name of the expert:** Er. Akash Dane, Director Synapse Systems, Ahmednagar and Sumedh Saptarshi (Alumni of E &TC)
- **Organization-** Synapse Systems, Ahmednagar
- **Classes attended:** SE & TE students
- **Number of students attended:** 39

Venue: Department of E&TC –Computer Lab-I
(DVVPCOE, Ahmednagar)

- **Event Incharge:** Prof. Vaishali A. Dhawale .
- **Student Co-ordinators:** Sukrut Kulkarni, Pankaj Kokane and Gadhe Shubham
- **Objective :**
 - To get familier with various conceps of Embedded systems and IOT
 - To have hands on practice on Ardiuno board.
 - To learn Interfacing of various devices with Ardiuno board.
 - To explore students with the real world interfacing.
 - To apply this knowledge in their mini and major projects.



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- **Topics Covered**

1. Introduction to Embedded Systems and Arduino.
2. Arduino IDE Introduction and installation.
3. Interfacing with sensors, motors and various I/O devices.
4. Communication protocol with Arduino.
5. IOT (Internet of Things) Introduction, Need, setting up Server, DAS and Data base Management.
6. Projects - IOT based Smart Agriculture System and
- Smart Stick for Blind.


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Vilad Chat, Ahmednagar-414111




Principal
Dr. Vitthalrao Vikhe Patil
College of Engineering
Ahmednagar



SYNAPSE SYSTEMS

We Deliver Excellence...

To,
Principal,
PDVVP COE,
Ahmednagar.

Subject: About three days practical oriented workshop on Embedded System, Arduino and IOT.


Respected Ma'am,

With reference to the above subject matter, we want to conduct the 3 Days Practical oriented Workshop on "Arduino and IOT" for your students. We are sending here with a proposal including Workshop Content (Syllabus).

You are requested to go through the same and contact us for any further clarification.


With Regards,

Yours faithfully

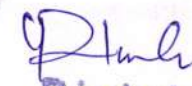

Akash Dane

Director

Synapse Systems


Head of Electronics & Telecommunication Dept.
P.D.V.V.P. College of Engineering
Vilad Chat, Ahmednagar-414111




Principal
Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar



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Workshop Content:

Sr No	Topics	Duration
1	Introduction	1hrs
	<ul style="list-style-type: none">Brief Introduction to Embedded systemsIntroduction to Arduino.	
2	Getting Started With Arduino	2hrs
	<ul style="list-style-type: none">Intro to Arduino IDEInstallation of library and basic commands.Installation of drivers.Basics of Embedded C	
3	Working With GPIOs	4hrs
	<ul style="list-style-type: none">Interfacing LEDInterfacing BuzzerWorking With MotorsWorking With InputsLCDWorking with Analog SensorsWorking with Digital Sensors	
5	Communication Protocols on Arduino	3hrs
	<ul style="list-style-type: none">SerialSPII2C	
6	IOT	4hrs
	<ul style="list-style-type: none">Introduction to Internet Of ThingsNeed of IOTSetting Up ServerData Acquisition on Server.Data Base Management.	
7	Project	4hrs
	<ul style="list-style-type: none">IoT based Smart Agriculture system.Smart Stick for Blind	

Head of Electronics & Telecommunication Dept.

P.D.V.V.P. College of Engineering

Waghgaon, Ahmednagar - 431111



Principal
Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar



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		Total 18hrs
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Workshop material provided to the student-

- 1) A Manual for understanding Arduino and Sensors.
- 2) Kit containing Arduino and Sensors
- 3) Programming Software.

Students Benefit:

- Updated to new technology.
- Knowledge about programming.
- Knowledge about interfacing with microcontrollers.
- Knowledge related to project building.

Required support Services from the college:

- Computer Labs.

Registration fees:


- Fees for each student will be Rs500.
- Minimum 30 Students required for conducting Workshop.
- Discount if the fees if number of students exceed 50.

Contact us:

Email Id : synapse.systems75@gmail.com

Phone Number: 7588884886

Our Branches: Pune, Ahmednagar.


Head of Electronics & Telecommunication Dept.
P.D.V.V.P. College of Engineering
Vilad Ghat, Ahmednagar-414111




Principal
Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar



SYNAPSE SYSTEMS

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IoT WORKSHOP EVALUATION FORM

Name : Shinde Nikhil Ravindra (Tiger GRP)
Branch : EDTC Mobile No : 9657368959
Email ID : _____

For the following areas, please indicate your rating:

A. Content	1 Fair	2	3	4 Excellent
Covered useful material				✓
Practical to my needs and interests			✓	
Well organized				✓
Well paced				✓
Presented at the right level				✓
Effective activities				✓
Useful visual aids and hand-outs				✓
B. Presentation				
Instructor's knowledge				✓
Instructor's presentation style			✓	
Instructor covered material clearly				✓
Instructor responded well to questions				✓
Instructor facilitated interactions among participants well				✓

C. How could this workshop be improved?	
D. Any other comments or suggestions?	

E. Overall, how would you rate this workshop?

[] POOR

[] FAIR

[] GOOD

☒ EXCELLENT

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Vilad Ghat, Ahmednagar-414111



Principal
P.D.V.V.P. College of Engineering
Ahmednagar



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IoT WORKSHOP EVALUATION FORM

Name : KATORE RAHUL KISAN (TIGER.5)
Branch: ED TC Mobile No: 7039995898
Email ID : rahulkkatore@gmail.com

For the following areas, please indicate your rating:

A. Content	1 Fair	2	3	4 Excellent
Covered useful material			✓	
Practical to my needs and interests				✓
Well organized			✓	
Well paced			✓	
Presented at the right level			✓	
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[X] GOOD

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Dr. Vilhelmo Vilho Patil
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Ahmednagar



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IoT WORKSHOP EVALUATION FORM

Name : Shaikh Farahan Rafique (Tiger GRP)
Branch: ETC Mobile No: 9657589500
Email ID : 7865farhan@gmail.com

For the following areas, please indicate your rating:

A. Content	1 Fair	2	3	4 Excellent
Covered useful material				✓
Practical to my needs and interests			✓	
Well organized				✓
Well paced				✓
Presented at the right level				✓
Effective activities			✓	
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D. Any other comments or suggestions?	

E. Overall, how would you rate this workshop?

☐ POOR

☐ FAIR

☐ GOOD

☒ EXCELLENT

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College of Engineering
Ahmednagar

ARDUINO AND IOT WORKSHOP

Slup	NAME of STUDENT	Day 1	Day2	Day 3
	Nisha Bhau Thorat Sanjana Yeequntala Dushant Wadhekar	Nisha Sanjana Dushant	Nisha Sanjana Dushant	Nisha Sanjana Dushant
2	Kulkarni Gauri Poonima Niham Hitesh Niham	Kulkarni Poonima Hitesh	Kulkarni Poonima Hitesh	Kulkarni Poonima Hitesh
33	Munel Aniket Jyodhani Adinath Ramdas Shinde Avinash Ramsaheb.	Munel Jyodhani Shinde	Munel Jyodhani Shinde	Munel Jyodhani Shinde
64	Sukrut Kulkarni Ankita Patel Sayali Mote	Sukrut Ankita Sayali	Sukrut Ankita Sayali	Sukrut Ankita Sayali
65	Siddhant Gaykumar Mahesh Shinde Tejas Prakash Gauri Akash Harishchandra	Siddhant Shinde Gauri	Siddhant Shinde Gauri	Siddhant Shinde Gauri
66	Wagh Rupali Gajare Sonali Goud Kartika	Wagh Gajare Goud	Wagh Gajare Goud	Wagh Gajare Goud
67	Kulkarni Pooja Anand Lolaje Snehal Poojendra Wakchaure Ashwini Balasaheb	Kulkarni Lolaje Wakchaure	Kulkarni Lolaje Wakchaure	Kulkarni Lolaje Wakchaure
68	Todmal Pooja Dattatray Patil Zumbhar Rahing Panchabhi Rakesh	Todmal Patil Panchabhi	Todmal Patil Panchabhi	Todmal Patil Panchabhi
69	Shelke Pallavi Ramesh Gurav Ashwariya Haridas Zarekar Dipali Annasaheb	Shelke Gurav Zarekar	Shelke Gurav Zarekar	Shelke Gurav Zarekar



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ARDUINO AND IOT WORKSHOP

	Dumate Pratiksha Pramod	Zamate Pratiksha	Zamate Pratiksha	Dumate PP.
	Waghmode pratiksha Arjun	Pratiksha	Pratiksha	Pratiksha
	Ghoshke Aishwarya pratash	A.P. Ghoshke	A.P. Ghoshke	A.P. Ghoshke
	Chaudhari Vishal Bhalechandra	Chaudhari	Chaudhari	Chaudhari
	Kokane Pankaj Baliram	Kokane	Kokane	Kokane
	Gadhe Shubham Bharat	Gadhe	Gadhe	Gadhe
	Jadhav Anuja Pravin	Jadhav	Jadhav	Jadhav
	Pathak Aishwarya Sunil	Pathak	Pathak	Pathak
	Sase Pallavi Gorakshanath	Sase	Sase	Sase
3	Khandagale Mahima	Khandagale	Khandagale	Khandagale
	Kale Vaishnavi	Kale	Kale	Kale
	Khalak Kanchan	Khalak	Khalak	Khalak
	Gaud Krutika	Gaud	Gaud	Gaud
14				
15				
17				
18				
19				





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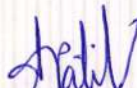
3 days workshop on
Embedded system, IOT, Arduino
Department of Electronics & Telecommunication

Certificate


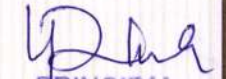
This is to certify that ,

Mr./Ms. Code Shubham B. has successfully completed 3 days
workshop on "Embedded system, IOT, Arduino" from 21 February 2019 to 23 February 2019


Prof. C.K. Kalwade
Co ordinator


Dr. A.K. Patil
HOD E&TC




Dr. U.P. Naik
Principal

PRINCIPAL
Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar

Ref. No. CEA/E&TC/2019/ 595 C A / 2


Date:- 23/02/2019


LETTER OF THANKS

Dear Sir,

On behalf of Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar, we take this opportunity to extend our heartfelt gratitude & huge "Thank you" for delivering 3 day workshop on "Embbdedd system , IOT, Arduino" for Electronics & Telecommunication Engineering students from 21th February 2019 to 23th February 2019

Let us maintain and cherish these relations for mutual benefit hence and forever.
We shall remain obliged for sparing valuable time with us.


(Dr. Ms.A.K.Patil)
HOD, E&TC


(Dr. Uday P. Naik)
Principal

To,
Sumedh Saptarshi,
Senior Engineer,
Synapse system,
Pune




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Ref. No. CEA/E&TC/2019/ 595(A)/1


Date:- 23/02/2019

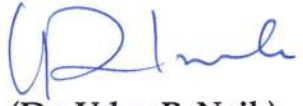
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HOD, E&TC


(Dr. Uday P. Naik)
Principal

To,
Akash Dane,
Model based Developer,
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