

Ref.No. CEA/E&TC/2017/ 3292(A)

Date:- 25/07/2017

To,
Mr. Nikhil Bhume ,
Embedded Software Engineer,
Delta Embedded System pvt. Ltd,
Pune.

Subject: Request for delivering Expert lecture on topic "Advancement of Embedded Systems" dated 29th July 2017

Dear Sir,

It gives us immense pleasure to state that the Department of Electronics & Telecommunication Engineering of our institute organizes an Expert lecture for students.

As per discussion with Prof. V.G.Kale, Assistant Professor, Department of Electronics & Telecommunication Engineering, We would like to invite you to deliver Expert lecture on topic "Advancement of Embedded Systems" dated 29th July 2017 at 10:00 am

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

Thanking you.

Yours sincerely,


(Dr. J. Jayakumar)
Principal




PRINCIPAL
Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar

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

Notice

Date: 26/07/2017

All the S.E, T.E, B.E. students are hereby informed that Electronics and Telecommunication Engineering Department is arranging expert lecture on on **"Advancement of Embedded Systems"** delivered by **Mr. Nikhil Bhume** , Embedded Software Engineer, Delta Embedded System pvt. ltd pune on **29/07/ 2017** Thursday at 10:00 am.

All the students should present for expert lecture.


Prof. V.G.Kale

Event Incharge


Dr. Anita K. Patil

H O D


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- **Date of the expert lecture:** 29/07/2017
- **Time:** 10.00am to 1.00pm
- **Title:** "Advancement of Embedded Systems"
- **Name of the expert:** Er. Nikhil Y. Bhume,
- **Designation:** Embedded Software Engineer.
- **Industry:** Delta Embedded Systems Pvt. Ltd., Pune
- **Classes attended:** TE & BE students
- **Number of students attended:** 88
- **Venue:** Seminar Hall
- **Event In charge:** Prof. Kale V.G.
- **Topics Covered**
 1. The detailing of the work going on the Embedded systems in the industries today
 2. Video display and demonstration on his original work in the working industry
 3. High tech sensors for industrial and home applications
 4. Project guidance on Embedded systems
 5. Job demands in market for Embedded systems
 6. Review of few industrial Embedded systems

Objectives: To explore the advancements in Embedded systems

Course Outcomes

CO1: Students will get the knowledge about Embedded Industries.

CO2: Student will be able to get the knowledge of High tech sensors for industrial and home applications.

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3									2
CO2	3	3	3									2

CO-PSO Mapping

CO	PSO1	PSO2	PSO3
CO1	3		
CO2	3		

Event In charge

Prof. Kale V.G.



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H.O.D

Dr. Anita Patil



Felicitation of the expert: Er. Nikhil Y. Bhume, Delta Embedded Systems Pvt. Ltd. Pune



Presentation by the Expert and interaction with students



Dr. V. Patil
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Photographs of the event



Inaugural Function of the event




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Contents

1. INTRODUCTION TO EMBEDDED SYSTEM

- History & need of Embedded System
- Basic components of Embedded System
- Programming Language Classification of Embedded System
- Advantage & Disadvantage
- Difference between Microprocessor & Microcontroller
- Classification based on architecture
- Memory Classification

➤ **REGISTERS & MEMORY OF AT89C51**

- Description of RAM
- Description of CPU Registers
- Functions of SFR

2. Sensor fundamentals and characteristics

- Sensor Classification
- Performance and Types
- Error Analysis characteristics

➤ **Texas MSP430**

- Architecture of the MSP430, Memory, Addressing modes, Reflections on the CPU instruction set. Clock system,

➤ **ARM Cortex MX microcontroller**

- ARM Cortex M4: Assembly language basics,
- Thumb-2 Technology,
- ARM Instruction set,
- Cortex M4 architecture,


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- Peripherals,
- Instruction set
- Analog sensors interfacing
- Digital Sensors interfacing



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Dr. VITHALRAO VIKHE PATIL COLLEGE OF ENGINEERING

Affiliated to SPPU, Pune (ID. No. PU/AN/Engg./027/(1983)
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Accredited by NAAC, Bangalore

Sl No.	Roll No.	Name of the attendee	Sign
1)	32	Hingmiree Shivaraj (T.E)	<u>Shingir</u>
2)	8	Bhingare Vaishnavi Sunil (T.E)	<u>V.S. Bhingare</u>
3)	90	Saravade Chaitali Achyut (T.E)	<u>Chaitali</u>
4)	93	Wadakar Pratiksha Ashok (T.E)	<u>Pratiksha</u>
5)	94	Gawali Manisha Manohar (T.E)	<u>Manisha</u>
6)	85	Bhor Kiran sahebrao (BE)	<u>Kiran</u>
7)	36	Kharade sonali Ananda (BE)	<u>Sonali</u>
8)	13	Darandale Bhakti Kailas (BE)	<u>Bhakti</u>
9)	67	Bhuiyal Sayli Zumbare (BE)	<u>Bhuiyal</u>
10)	01	Bachate Suohmita yuvraj (TE)	<u>S. Bachate</u>
11)	106	Bhakare Pooja mahesh (TE)	<u>Pooja</u>
12)	26	Uthawat Poonam chandoo (TE)	<u>Poonam</u>
13)	44	Lanige pooja shivaji TE	<u>Pooja</u>
14)	27	Ghumare Greetanjali sitaram T.E	<u>Greetanjali</u>
15)	117	Dange Ankita R. T.E	<u>Ankita</u>
16)	09	Bhondle Vaishnavi T.E	<u>Vaishvi</u>
17)	31	Gunjkar Pratiksha D. TE	<u>Pratiksha</u>
18)	49	Nair Akash Ashokan TE	<u>Akash</u>
19)	74	Shukhande Ravina Rajendra T.E	<u>Ravina</u>
20)	84	WAGH NIKITA MAHESH T.E	<u>Nikita</u>
21)	79	Ukande Prachiya chandrakant T.E.	<u>Prachiya</u>
22)	67	Shaikh Tehasin chand TE	<u>Tehasin</u>
23)	82	Vyavahare Robini Gorakshanath T.F	<u>Robini</u>
24)	45	Saddam mensuri M TE	<u>Saddam</u>
25)	52	Nowale Prashant S T.E	<u>Prashant</u>
26)	65	sawade Nitin L TE	<u>Nitin</u>
27)	51	Mule Akash B. BE	<u>Akash</u>
28)	50	Mulay Akshay R. BE	<u>Akshay</u>
29)	12	Dhepe Nikita BE	<u>Nikita</u>
30)	2	Andhale Renuka BE	<u>Renuka</u>



Dr. V.V. Patil
PRINCIPAL

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Phone :- 0241-2777296 / 2779496

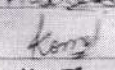
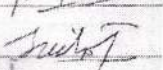
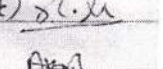
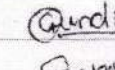
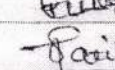
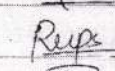
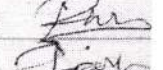
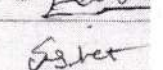
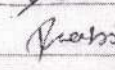
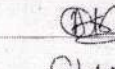
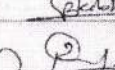
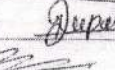
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Website:- <http://www.enggnagar.com>

Sl. No.	Roll no.	Name	Signature
31)	37	Kolhe Gokul B. (BE)	Kolhe
32)	3845	Madake Komal B (BE)	Madake
33)	28	Gund Vaishali K (TE)	Gund
34)	20	Kulkarni Sukrut A (SE)	Kulkarni
35)	10	Gadhe Shubham A (B.E)	Gadhe
36)	74	Tilkar Shubham R (B.E)	Tilkar
37)	73	Thorat Apurva A (B.E)	Thorat
38)	17	Dawale Amruta	Dawale
39)	15	Deskar Pooja A (A/B.E)	Deskar
40)	66	Shinde Manish (B.E)	Shinde
41)	33	KAROLE NIKITA J BE	KAROLE
42)	14	Deore Vishakha V (BE)	Deore
43)	08	Suprita Biswas (BE)	Suprita
44)	34	Kasur Shubham R (BE)	Kasur
45)	42	Sandeep Kumar (BE)	Sandeep
46)	01	Andhale Shital A (BE)	Andhale
47)	88	Waghalkar Pallavi S. (BE)	Waghalkar
48)	06	Bhosale Sonali R. (BE)	Bhosale
49)	12	Chavhan Rohit R. (BE)	Chavhan
50)	09	Chaudhari Durgesh C.	Chaudhari
51)	67	Shinde priyanka G (BE)	Shinde
52)	71	Thorat Pallavi S. (BE)	Thorat
53)	53	Munat Neha D. (BE)	Munat
54)	48	Mare Manvata B (BE)	Mare
55)	56	Pathare Kshikij B (B.E)	Pathare
56)	64	Shelke Harish (B.E)	Shelke
57)	62	Kiran R popalghat (T.E)	Kiran
58)	686	pardeshi Ankita p. (T.E)	Pardeshi
59)	80	wabature Ashwin (BE)	Wabature
60)	69	Sudrik Sukanya (BE)	Sudrik
61)	79	Waghunde Komal (BE)	Waghunde
62)	50	mulay Arshan R (BE)	Mulay



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No.	Roll No.	Name of attendee	Signature
63	61	Kunfala P. Shah (BE)	
54	58	Pawar Shital K. (BE)	
51	51	Nalawade Rutija (T.E.)	
66	59	Kemal S. Nable (B.E)	
4667	46	Munkode Santosh S. (TE)	
52	10	Dorale Gaurav S (BE)	
69	35	Saglain Kazi (BE)	
70	83	Vijay Sahin Shivaji	
71	82	Santosh Nandk B. (TE)	
72	80	Ukirde. Pawan Ghansham (TE)	
73	33	Jaybhaye Akash Ashok	
74)	19	Bhawale smita D (TE)	
75)	29	Gund Pranali C. (TE)	
76)	77	Wagh Pankaj V. (BE)	
77)	57	Patil Prafull D. (B.E)	
78)	63	Raskar Rupali A (TE)	
79)	70	Dhanashri Shetye (TE)	
80)	53	Pache chetun (TE)	
81)	35	Sushant - S. Wanjekar (BE)	
82)	31	Shankar Mohan. V.	
83)	22	Gade Akash B (T.E)	
84)	35	Gaurav B. Kalokhe (T.E)	
85)	37	Rameshwar Khandagale (T.E)	
86)	10	Bhosale Yuvraj A (T.E)	
87)	21	Dongare Deepali V. (T.E)	
88)	60	Pawar Pratiksha B. (TE)	




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Date:- 29/07/2017

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 expert lecture on "Advancement of Embedded Systems" for Electronics & Telecommunication Engineering students on 29th July 2017 at 10:00 am

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. J. Jayakumar)

Principal

To,
Mr. Nikhil Bhume ,
Embedded Software Engineer,
Delta Embedded System pvt. Ltd,
Pune




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