



ATHARVA EDUCATIONAL TRUST'S
ATHARVA COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by Government of Maharashtra
& Affiliated to University of Mumbai - Estd. 1999 - 2000)

Department of Electronics and Telecommunication

Report on
One Day Workshop for SE Students (EXTC)
on
"INDUSTRIAL APPROACH IN ELECTRONICS"

Dated : 4th August 2017 .

Organised by : EXTC Department

Time : 10.00 am to 5.00 pm

Speaker's Name: Prof Shilpa Jaiswal (ACE)

Prof. Ritu Sharma (ACE)

Prof. Divya Sharma (ACE)

Venue : 2nd Floor, Lab 2, Atharva College of Engineering, Atharva Education complex ,
Malad Marve Road , Charkop Naka , Malad (W), Mumbai 400095

Coordinators : Prof Shilpa Jaiswal (ACE), Prof. Ritu Sharma (ACE), Prof. Divya Sharma (ACE)

About the Workshop :

- 1) Learn & Interact with Faculties.
- 2) Basic knowledge on Electronics Devices.
- 3) Participants understood working of various components.
- 4) Participants were encouraged to think and come up with new application ideas.
- 5) Interactive practical sessions.
- 6) Group discussions to encourage innovation in the domain of Electronics.

No. of participants: ~~74~~ students



Session 1

Time: 10 - 1

It includes introduction and description of CRO, DSO, Power Supply, IC tester, Function generator, Multimeter

One of the important application of CRO is to observe the wave shapes of voltages in various type of electronic circuits. To do this, the signal under study is applied to vertical input terminals i.e. the vertical deflection plates of the oscilloscope. The sweep circuit is set to internal so that sawtooth wave is applied to the horizontal input terminals i.e. the horizontal deflection plates. Then various controls are adjusted to get sharp and well defined signal waveform on the screen.

A multimeter or Volt-Ohm meter, is a device used to measure voltage, current and resistance. Multimeter might be analog type multimeters or digital multimeters, depending on the type of circuit being used. Normally, these hand-held devices are very useful to detect faults or provide field measurements at a high degree of accuracy. They are one of the preferred tools by electricians to troubleshoot electrical problems on motors, appliances, circuit, power supplies, and wiring systems.





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Session 2

Time: 2-5

It includes explanation of all the components(R,L,C,Transistor, BJT,MOSFET, Photo diode , LED), hands on practice of PCB soldering and mounting circuits on PCB.

The three basic elements used in electronic circuits are the resistor, capacitor, and inductor. They each play an important role in how an electronic circuit behaves. They also have their own standard symbols and units of measurement. Resistors A resistor represent a given amount of resistance in a circuit. Resistance is a measure of how the flow of electric current is opposed or "resisted." It is defined by Ohm's law which says the resistance equals the voltage divided by the current. Resistance = voltage/current or $R = V/I$ Resistance is measured in Ohms. The Ohm is often represented by the omega symbol: Ω . The symbol for resistance is a zigzag line as shown below. The letter "R" is used in equations. Resistor Symbol Capacitors A capacitor represents the amount of capacitance in a circuit. The capacitance is the ability of a component to store an electrical charge. You can think of it as the "capacity" to store a charge. The capacitance is defined by the equation $C = q/V$ where q is the charge in coulombs and V is the voltage. In a DC circuit, a capacitor becomes an open circuit blocking any DC current from passing the capacitor. Only AC current will pass through a capacitor. Capacitance is measured in Farads. The symbol for capacitance is two parallel lines. Sometimes one of the lines is curved as shown below. The letter "C" is used in equations. Capacitor Symbol Inductors An inductor represents the amount of inductance in a circuit. A printed circuit board (PCB) mechanically supports and electrically connects electronic components using conductive tracks, pads and other features etched from copper sheets laminated onto a non-conductive substrate. Components (e.g. capacitors, resistors or active devices) are generally soldered on the PCB. Advanced PCBs may contain components embedded in the substrate.PCBs can be single sided (one copper layer), double sided (two copper layers) or multi-layer (outer and inner layers). Conductors on different layers are connected with vias. Multi-layer PCBs allow for much higher component density.FR-4 glass epoxy is the primary insulating substrate. A basic building block of the PCB is an FR-4 panel with a thin layer of copper foil laminated to one or both sides. In multi-layer boards multiple layers of material are laminated together.





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Regards,

Seminar Incharge
Prof. Shilpa Jaiswal
Prof. Ritu Sharma
Prof. Divya Sharma

Workshop Committee
Prof. Mahalaxmi Palinje
Prof. Ritu Sharma

H.O.D (EXTC)
Prof. Jyoti Kolap



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Date: 01/08/2017

NOTICE

All the students of S.E are informed that a Workshop On "Industrial approach in electronics" will be conducted on 4th August 2017. It is compulsory for the students to attend the workshop

Sr. No.	Date and Day	Class	Department	Time	Venue
1.	4 th August 2017, Friday	S.E ET2	EXTC	10.00am to 1.00pm	Lab No. 2
2.	4 th August 2017, Friday	S.E ET1	EXTC	2.00pm to 5.00pm	Lab No.2

NOTE: Kindly fill the online registration form for the workshop to confirm your registration

Seminar In charge

Prof. Shilpa Jaiswal

Prof. Ritu Sharma

Prof. Divya Sharma

Workshop Coordinator

Prof. Mahalaxmi Palinje

Prof. Ritu Sharma

(H.O.D, EXTC)

Prof. Jyoti Kolap

Principal, ACE.

Dr. Shrikant Kallurkar



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ATTENDANCE REPORT

Workshop On "Industrial Approach in Electronics"

DATE: 04/08/2017 DAY: FRIDAY

Sr. No	Name of Student	Class(S E ET1 & ET2)	Session 1 (10.00am to 1.00pm)	Session 2 (2.00pm to 5.00pm)
1	YASH SUNIL NIKAM			
2	MAHADEO METKARI			
3	ANUP MISHRA			
4	Darshil Pravin Chheda			
5	Nimish Arvind Datkhile			
6	Deepak Kumar Thakur			
7	Sourav Chavan			
8	Vinaya Khamkar			
9	AMEY RANE			
10	Deepak Gupta			
11	Gandhar pimple			
12	Gandhar pimple			
13	Kirtan Shirodkar			
14	neha verma			
15	Mayuri pathare			
16	mehul soni			
17	Satish			
18	Sunny Tonage			
19	Vipul Paul			
20	Ajay Boricha			

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44	Mishra Ankit			Ankit
45	Harsh Vaghani			Harsh
46	sonal prakash bomane			Sbome
47	VISHAL MAURYA			Maurya
48	PRITI PARAG BHOLE			Bhole
49	ADITI PARAB			Parab
50	Jonas Robin			Robin
51	ANKITA SAMANT			Ankita
52	Priti Suresh Vichare			Vichare Priti
53	Jaswinder Singh			Singh
54	Aditya Sudhakar Mali			Mali
55	Megha bhat			Bhat
56	Geetanjali Gajare			Gajare
57	Nandini Govindraaj			Govindraaj
58	Sushma Amudalapally			Amudalapally
59	Rinku choudhary			Choudhary
60	Yashita I Gaikwad			Gaikwad
61	Prajakta mahadeo gaikwad			M.P.
62	DEVIKA SOLANKI			Solanki
63	Ritwik Pathak			Pathak
64	Singh Priti Arvindkumar			Arvindkumar
65	MISHRA SUJIT N			Sujit
66	Shravani mhashelkar			Mhashelkar
67	Badsewal Pawan Mukesh			Badsewal
68	Kunj.Kashyap.Bhatt			Bhatt



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69	GUPTA VISHAL MARKANDEY			<i>nm</i>
70	Gondaliya sagar jayantibhai			<i>nm</i>
71	NAMAN VERMA			<i>Naman</i>
72	Rahul Giri			<i>Rahul</i>
73	syed mohammed ahmed rizvi			<i>Syed</i>
74	Deepak Gupta			<i>Deepak</i>
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Seminar In charge

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21	Jash Shah		Jash	
22	Laukik Patil		Laukik	
23	Sandesh Gajanan Ajgekar		Sandesh	
24	Syed Mohammed Ahmed rizvi		Mohammed	
25	Sandesh Gajanan Ajgekar		Sandesh	
26	Rai Deepashree Ramkrishna		Rai	
27	Siddhesh Narendra khatare		Siddhesh	
28	Sachin yashwant zore		Sachin	
29	Omkar Kale		Omkar	
30	Sarode Akshata Sunil		Sarode	
31	Kajal Anil Desai		Kajal	
32	Sunny Tonage		Sunny	
33	Vijay ashok jadav		Vijay	
34	Rahul Giri		Rahul	
35	Das Rintu Ratikanta		Das	
36	prabhat gupta		Prabhat	
37	RISHABH DUBEY		Rishabh	
38	Jay Dinesh Rathod		Jay	
39	Prathvi Nandanwar		Prathvi	
40	Mehul Chavan		Mehul	
41	Patel Jimi Rameshbhai		Patel	
42	Chauhan Arvindkumar		Chauhan	
43	Sanjay Vijay Bane		Sanjay	



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