

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)

<u>Venue</u>: 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: 42 students





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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 ertical 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 circuit. A printed circuit board (PCB) mechanically supports and electrically pads connects electronic components using conductive tracks, other sheets laminated onto features etched from copper 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.



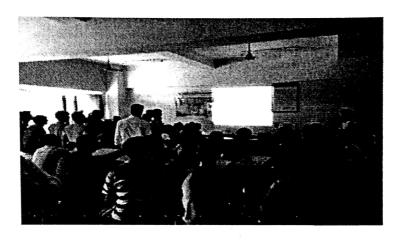


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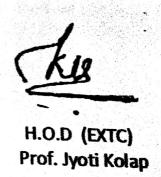




Regards,

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

Workshop Committee Prof. Mahalaxmi Palinje Prof. Ritu Sharma







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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
a.j.	4th August 2017, Friday	S.E ET2	EXTC	10.00am to 1.00pm	Lab No. 2
2.	4th 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

Workshop Coordinator

(H.O.D, EXTC)

Principal, ACE.

Prof.Shilpa Jaiswal

Prof Mahalaxmi Palinje

Prof. Jyoti Kolap

Dr. Shrikant Kallurkar

Prof Ritu Sharma

Prof Ritu Sharma

Prof. Divya Sharma





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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)
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