Workshop on - **The Fundamentals of Electronics**

*Organized by IEEE Student Branch*

*association with DIT University On 31st January’17*

***[Coordinated by: ]***

**Overview*:***

This *workshop* helped the students of Electronic Engineering to gain a full understanding of the basic of Electronic. The basic electronic topic covers everything necessary for their continued understanding of the much more advanced topics presented these days in various circuits and systems in use in the industry.

All those dealing with electronic circuit designs, development and assembly requires knowledge of basic electronic components.

They also learned soldering and use of test equipment in fault finding. Finally, the students constructed a small utility project, which they take home with them.

*Impressions:*

The duration of this workshop was 1 day, with three hours session, properly divided into theory and hand on practical sessions. Certificate of participation will be provided by **IEEE Student Branch** in association with **DIT University.**

Objectives:

* Introduction to Electronic Components
* Identifying and Selecting Correct Components
* Introduction to Transistors
* Introduction to Integrated Circuits(ICs)
* Making a Blinking LED Circuit

Components Set:

1. Resistors – Functions, Characteristics and Types.
2. Capacitors – Functions, Characteristics and Types.
3. Inductors and Transformers.
4. Relays, Switches, Cables and Connectors.
5. Diodes Zener Diode and LEDs.
6. Transistors and Triacs (Switching Action Only)