



# **POWER ELECTRONICS**

**Arranged by**

**Electrical Engineering Department,**

**A.Y.DADABHAI TECHNICAL INSTITUTE, KOSAMBA**

## **REPORT ON EXPERT LECTURE**

**Date:-** 23-09-2023

**Department:** - Electrical Engineering

**Sem:-** 5<sup>th</sup>Semester

**Faculty:** - (1) Mr. S R Manik

**No of Students:** -30

<b>Name Of Expert</b>	<b>Designation</b>	<b>Organization Of Expert</b>
Mr. Sayyed Yaseen	Senior Engineer	Senior Engineer in R&D department

**Topic of Expert Lecture: -Power Electronics**

**Brief about Expert Lecture:-**

Our electrical engineering department of A. Y. Dadabhai Technical Institute, Kosamba had organized expert lecture on Power Electronics the date of **23 September 2023** by **Mr. Sayyed Yaseen Senior Engineer at L&T Technology in R&D department**

The lecture began with a comprehensive overview of power electronics, defining its role in controlling and converting electrical power. The basics of semiconductor devices such as diodes, transistors, and thyristors were discussed, laying the foundation for more advanced topics.

Then expert give knowledge about various power electronic devices and their applications in different industries. Emphasis was given to the practical aspects, including case studies and real-world examples to illustrate the relevance of power electronics in modern technology and also explain Different converter topologies, such as rectifiers, inverters, and choppers, were explained in detail.

The lecture covered the working principles, advantages, and disadvantages of each topology, providing a deeper understanding of how these devices are employed in various electronic systems.

The expert lecture on Power Electronics proved to be a valuable learning experience for the diploma final year students. The content covered a wide range of topics, providing a solid foundation for understanding the complexities of power electronics. The event successfully achieved its goal of fostering a deeper appreciation and comprehension of power electronics among the participants.

## Expert Lecture photo

