



## Expert Talk

# Advanced Technologies in Electrical and Electronics Engineering

 6<sup>th</sup> March 2026

 11:00 AM to 01:00 PM

 Tejas Seminar Hall

 E.E.E Students



**Dr. Zarir H Sholapurwala**

Founder

Zeonics Systech Defence and  
Aerospace Engineers Pvt. Ltd.

Faculty Coordinator

**Ms. Kavitha C H**

Senior Assistant Professor - EEE

Convenor

**Dr. S Sujitha**

HoD - EEE

**Dr. Revathi V**

Dean - R&D

**Dr. R J Anandhi**

Dean - Academics

**Dr. Manjunatha**

Principal

Organised by

**Department of Electrical and Electronics Engineering**

# Expert Lecture on Advanced Technologies in Electrical & Electronics Engineering

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**Title:** Advanced Technologies in Electrical & Electronics Engineering

**Date:** 6 March 2026

**Organised for:** 4th Semester Students – Department of Electrical & Electronics Engineering

**Venue:** New Horizon College of Engineering, Bengaluru

**Resource Person:** Dr. Z. H. Sholapurwala, Managing Director, Zeonics Systech Defence & Aerospace Engineers Pvt. Ltd., Bengaluru

## 1. Introduction

The Department of Electrical & Electronics Engineering organized an expert lecture on 'Advanced Technologies in Electrical & Electronics Engineering' on 6th March 2026 for the 4th semester students. The lecture was delivered by Dr. Z. H. Sholapurwala, Managing Director of Zeonics Systech Defence & Aerospace Engineers Pvt. Ltd. The session aimed to provide students with exposure to advanced high-voltage technologies, pulse power systems, and their applications in defence and aerospace engineering.

## 2. Objectives of the Lecture

- To introduce students to advanced high-voltage and pulse power technologies.
- To provide insights into defense and aerospace electronic systems.
- To bridge the gap between academic learning and industry practices.
- To create awareness about indigenous technological development in India.

## 3. Key Topics Covered

- High Voltage Research and Development
- Pulse Power Systems and Applications
- Armament Electronics
- Ballistics and Instrumentation
- High Voltage Pulse Transformers and Trigger Generators
- EMP (Electromagnetic Pulse) Systems
- High Voltage Isolation Transformers and Power Supplies
- Marx Generators and Impulse Generators

#### 4. Applications Discussed

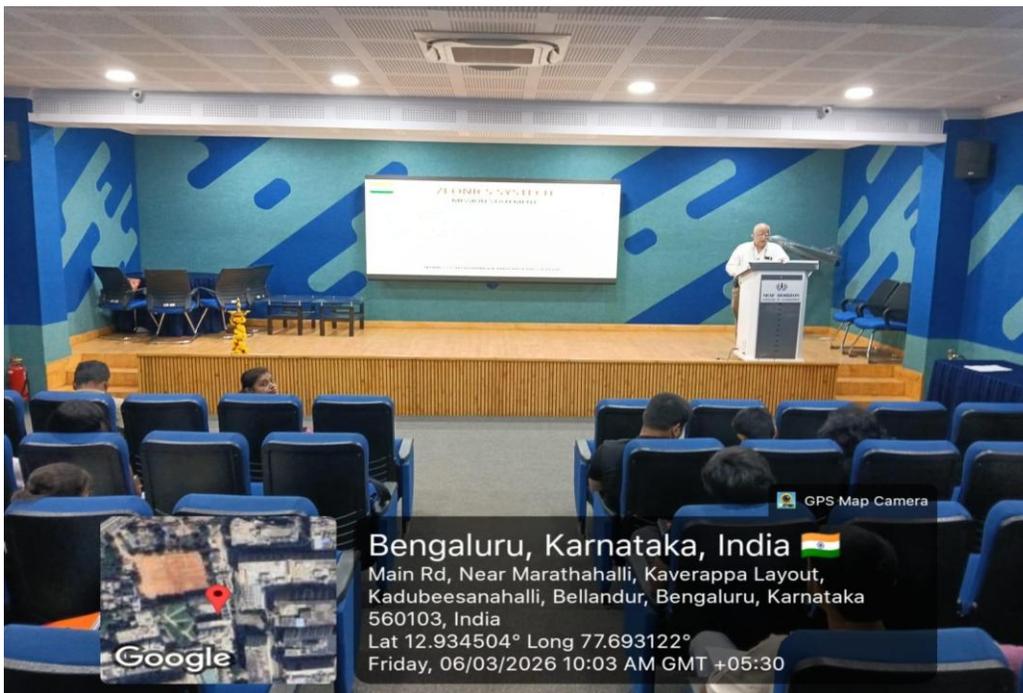
- Missile and rocket ignition systems
- Explosive detonation and testing systems
- Lightning protection and testing
- Radar power supplies and plasma generation
- Medical equipment such as CT scanners and lithotripsy

#### 5. Event Photographs





Inauguration of the expert lecture by lighting of the lamp.



## 6. Learning Outcomes

- Students gained knowledge about high-voltage and pulse power technologies.
- They understood real-world applications of electrical engineering in defense and aerospace.
- The session motivated students to explore research and career opportunities in advanced technologies.

## 7. Conclusion

The expert lecture was highly informative and beneficial for the students. It provided valuable insights into advanced electrical engineering technologies and their practical applications in industry and defense sectors. The Department expresses sincere gratitude to Dr. Z. H. Sholapurwala for sharing his expertise and interacting with the students.

