



THE INSTITUTION OF ENGINEERS (INDIA) VRSEC CHAPTER  
IN ASSOCIATION WITH  
DEPARTMENT OF CIVIL ENGINEERING

### REPORT OF ALUMNI TALK ON

## Structural and Career Perspectives in Civil Engineering

Date: 20<sup>th</sup> December 2024

Time: 3:30 pm to 4:30 pm

The session was facilitated by Mr. Koya Srinivasa Rao, Founder & MD, Amerigo Structural Engineers Pvt. Ltd. Here are the key highlights from a one-day workshop on *Structural and Career Perspectives in Civil Engineering*.

Mr. Koya began the session by highlighting the evolving role of structural engineering in modern infrastructure development. He emphasized the need for innovation, safety, and sustainability in the design and execution of structures to meet the demands of urbanization and climate resilience.

The workshop explored key aspects of structural engineering, including:

- **Design Innovations:** The importance of incorporating advanced analysis techniques and software tools to optimize structural design and performance.
- **Materials and Technology:** Insights into emerging materials like high-performance concrete, composite materials, and prefabricated systems that enhance construction efficiency and sustainability.
- **Structural Safety:** A focus on designing for disaster resilience, including seismic design principles and retrofitting techniques for aging infrastructure.

Mr. Koya also discussed various career pathways in civil engineering, providing insights into:

- **Core Engineering Roles:** Opportunities in structural analysis, design, and construction management.
- **Specialized Fields:** Career prospects in niche areas such as forensic engineering, infrastructure rehabilitation, and sustainable design.
- **Emerging Technologies:** The increasing relevance of Building Information Modeling (BIM), and other design tools in civil engineering.

The session featured case studies of iconic projects, including high-rise structures, bridges, and industrial facilities, which demonstrated the integration of cutting-edge engineering practices. These examples underscored the importance of collaboration among engineers, architects, and construction professionals to achieve project excellence.

Mr. Koya provided practical advice on career development, emphasizing the value of continuous learning, networking, and professional certifications to stay competitive in the industry. He encouraged students to explore internships and mentorship opportunities to gain real-world experience and refine their skills.

The workshop concluded with a dynamic Q&A session, where students engaged with Mr. Koya on topics ranging from industry trends to personal career strategies. The event served as a valuable platform for bridging the gap between academic learning and industry expectations, inspiring participants to excel in their professional journeys.



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## Alumni Talks

**We warmly welcome**



### **Mr Suresh Battini, IRS**

Chief Commissioner of Income Tax,  
Hyderabad



### **Mr Mohan Nannapaneni**

Co-Founder & CEO, Sigma Systems  
Inc., Former President TANA



### **Mr Koya Srinivasa Rao**

Founder & MD, Amerigo Structural  
Engineers Pvt. Ltd.



### **Mr SV Rama Rao, IFS**

Additional Chief Conservator of  
Forests, Mumbai



### **Mr KRK Raju, IRSE**

Director, Phase Infra Pvt.Ltd.,  
Hyderabad



