



SCHOOL OF INFRASTRUCTURE
DEPARTMENT OF CIVIL ENGINEERING

Ref.: 1359 / Dean (Sol) /1225

Date: 18.12.2025

Guest lecture on

**“IMPORTANCE OF DUCTILITY IN STRUCTURAL PERFORMANCE ANALYSIS AND
CODAL PROVISION FOR SEISMIC ANALYSIS”**

Date: 05/11/2025

Time: 09.30 am to 10.30 am

I. Preamble:

The Department of Civil Engineering organized a guest lecture on “Importance of Ductility in Structural Performance Analysis and Codal Provisions for Seismic Analysis” on 05 November 2025. The session was conducted from 09:30 a.m. to 10:30 a.m. at the Seminar Hall of the Department.

II. About the speaker:

The lecture was delivered by Dr. J. Abdul Bari, M.E., Ph.D., Associate Professor, Department of Civil Engineering, K.S. Rangasamy College of Technology (Autonomous), Tiruchengode. Dr. Bari obtained his Ph.D. in Civil Engineering from Anna University, Chennai. His research expertise spans surface and ground water analysis, self-compacting concrete, and finite element modelling.

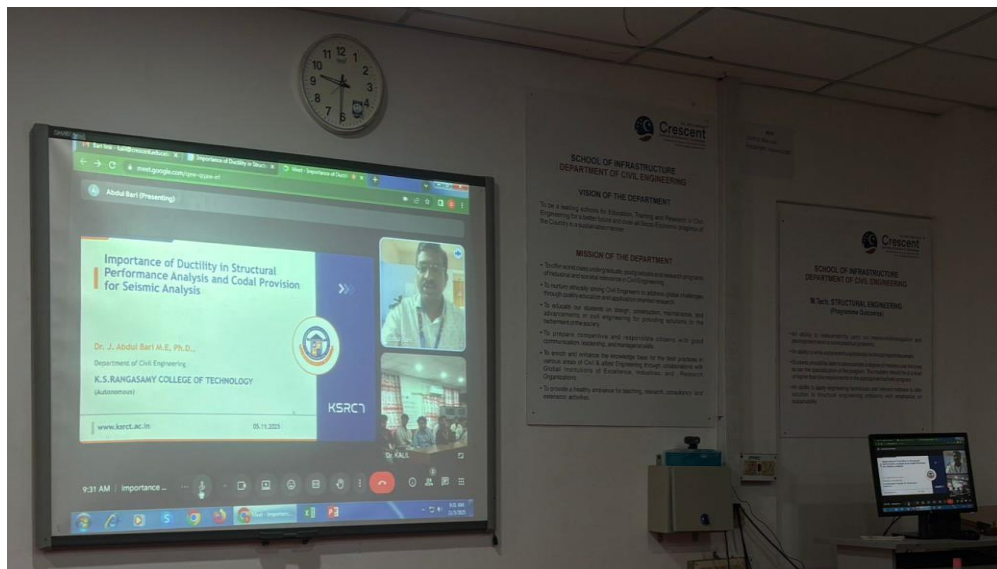
III. About the session:

The program was coordinated by Dr. A. K. Kaliluthin, Associate Professor, Department of Civil Engineering. The session commenced with an introduction of the speaker by Mr. Roshan Akhtar, a final-year B.Tech Civil Engineering student.

The lecture emphasized the critical role of ductility in structural performance and its relevance in seismic analysis. Dr. Bari elaborated on the release of the Draft Indian Standard IS 1893 – Criteria for Earthquake- Resistant Design of Structures, Part 1: General Provisions (Seventh Revision), explaining its objectives and importance in designing earthquake-resistant structures.

He further discussed earthquake loads and their implications as outlined in the draft code. Special focus was given to IS 13920:2016, which specifies ductile detailing requirements for reinforced concrete structures to ensure resilience against seismic forces.

The session concluded with an interactive discussion, where students clarified their queries with the speaker. The lecture was particularly beneficial for final-year B.Tech Civil Engineering students enrolled in the elective course CEDX04 – Earthquake Resistant Design of Structures, as it directly aligned with the syllabus module on Seismic Methods of Analysis. The program ended with a vote of thanks proposed by Mr. Roshan Akhtar.



Introduction of speaker



Photograph - during the lecture

IV. Details of participants:

The following are the list of participants attended the lecture:

S.No	NAME
1.	ABISHEK
2.	AMJATH
3.	AREEB ROHAN
4.	ASHWITHA
5.	ABU RIYAS
6.	ISHAK AHAMED
7.	ROSHAN AKHTAR
8.	SHARON AKRAM
9.	SAI EASWAR
10.	SYED THALHA
11.	RASETH IMAM NOOR
12.	MOHAMED JAFRON
13.	SHAFI AHAMED
14.	Dr. A. K. KALILUTHIN

V. Outcome:

The guest lecture significantly enhanced participants' understanding of seismic analysis methods as per IS 1893 and ductile detailing provisions in IS 13920. Students gained practical insights into load calculation for various structural systems and the design requirements for earthquake-resistant structures.

This knowledge contributes to the broader objectives of the United Nations Sustainable Development Goals (SDGs) by promoting resilient infrastructure, supporting sustainable development, and encouraging innovation in earthquake-resistant design.

**Dr.A.K.Kaliluthin
Associate Professor**

**Dr.P.Vasanthi
Professor**

**Dr.M.S.Haji Sheik Mohammed
Dean, School of Infrastructure**
