

COMPILED REPORT

Technical Talk on

**“From Soil to Sky: The Hidden
Engineering Beneath Iconic Buildings”**

Title of the Technical Talk: **“From Soil to Sky: The Hidden Engineering Beneath Iconic Buildings”**

Target Audience: **B. Tech II, III and IV Year Students**

Date: 18-02-2026

Speaker: **Dr. Sujay Vipulbhai Teli, Assistant Professor, Department of Civil Engineering, SR University, Warangal.**

Coordinator: **Mr. Maruthi Shivagal**

Resource Person Profile



Dr. Sujay Vipulbhai Teli is an accomplished academician and researcher currently serving as Assistant Professor and Associate Dean – Ph.D. Programmes in the Civil Engineering Department at SR University. He earned his Ph.D. in Civil Engineering with a specialization in Geotechnical Engineering from Indian Institute of Technology Gandhinagar. He completed his B.Tech in Civil Engineering from IITRAM in 2019.

In addition to his academic role, he served as Adjunct Faculty at COEP Technological University from January 15, 2025 to April 11, 2025. Dr. Teli continues to contribute actively to research, teaching, and doctoral mentorship in advanced geotechnical engineering.

Dr. Teli’s research expertise lies in geotechnical and earthquake engineering, with a strong focus on liquefaction behavior, cyclic degradation, fiber-reinforced geomaterials, and sustainable utilization of industrial by-products such as fly ash and pond ash. His work primarily investigates shear strength characteristics, excess pore water pressure response, and liquefaction resistance under dynamic loading conditions.

He has presented his research at prestigious international conferences including the 16th International Conference of IACMAG (Torino, Italy, 2022), Geo-Congress 2023 (Los Angeles, USA), the 9th International Congress on Environmental Geotechnics (Chania, Greece, 2023), and Geo-Congress 2024 (Vancouver, Canada).

Dr. Teli has also published impactful research articles in the reputed journal Soil Dynamics and Earthquake Engineering (2024, 2025), focusing on liquefaction resistance, cyclic degradation of pond ash, and evaluation of overburden correction factors for earthquake loading.

Email Invitation to Resource Person

Invitation to Deliver a Technical Talk on "From Soil to Sky: The Hidden Engineering Beneath Iconic Buildings"

 Summarize



Maruthi S

To: sujay.teli@sru.edu.in

Cc:  hod civil

  Reply  Reply all  Forward  ...

Mon 2/16/2026 4:30 PM

Dear Sir,

Greetings from JBIET, Hyderabad.

On behalf of the Department of Civil Engineering, I am pleased to invite you to deliver a technical talk on the topic "**From Soil to Sky: The Hidden Engineering Beneath Iconic Buildings**" for our B.Tech students.

The session is planned on 18th February 2026 at 1.30 PM at our campus. The duration will be approximately 60–90 minutes, followed by a brief interaction with students.

We would be honored to host you and benefit from your expertise.

Kindly let us know if any change in the time slot is required. We look forward to your reply.

Thank you,

Regards,

Maruthi Shivagal

Assistant Professor

Department of Civil Engineering

J B Institute of Engineering and Technology

Moinabad, Hyderabad.

Flyer of the Event



JB INSTITUTE OF ENGINEERING & TECHNOLOGY

UGC Autonomous

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Department of Civil Engineering
Civil Engineering Students Association (CESA)

Organizing

Technical Talk on

**"From Soil to Sky: The Hidden Engineering
Beneath Iconic Buildings"**



Placement Seminar Hall,
Main Block, JBIET



18 February, 2026



1.30 PM - 3.30 PM



Dr. Sujay Vipulbhai Teli
Assistant Professor
Department of Civil Engineering
SR University, Warangal



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www.jbiet.edu.in

The Department of Civil Engineering organized an insightful technical talk titled “From Soil to Sky: The Hidden Engineering Beneath Iconic Buildings” on 18th February 2026 for B.Tech II, III, and IV year students. The session was delivered by Dr. Sujay Vipulbhai Teli, Assistant Professor and Associate Dean – Ph.D. Programmes at SR University.

Dr. Teli began the session by emphasizing the importance of foundations and their role in transferring structural loads safely to the ground while ensuring stability against settlement, wind, and seismic forces. He explained various types of foundations, including shallow foundations (strip footing, isolated footing, combined footing, raft foundation) and deep foundations (pile, pier, and caisson foundations), along with their design considerations and practical applications.

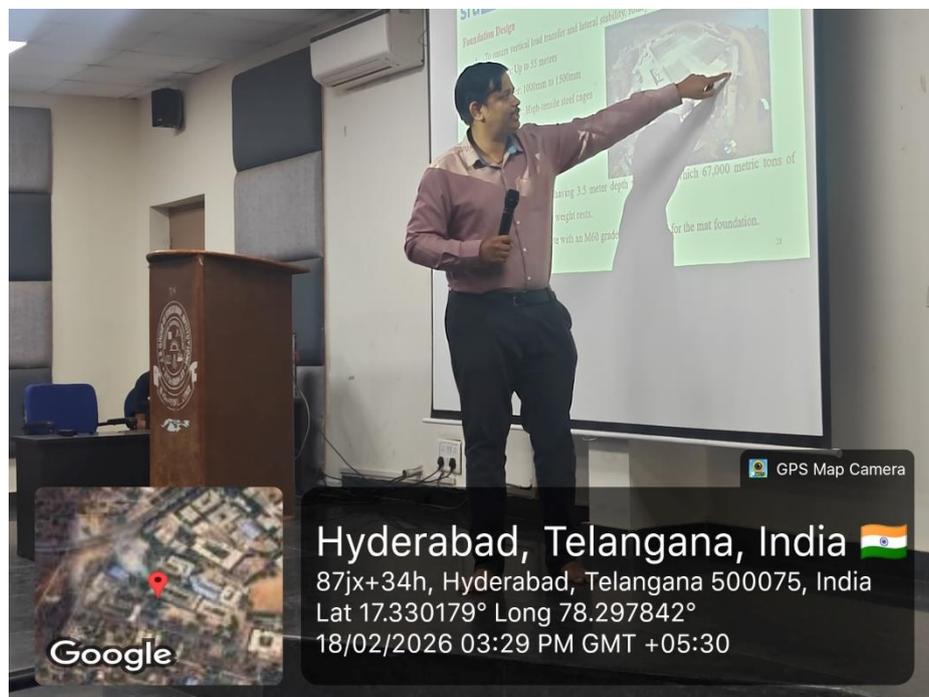
The talk further explored foundation systems of iconic global structures such as the Statue of Unity, Burj Khalifa, and Leaning Tower of Pisa. Through these case studies, students gained insights into geotechnical challenges including differential settlement, liquefaction, creep behavior, chemical attack on concrete, and lateral load resistance.

The foundation design of the Statue of Unity involving deep rotary bored piles and a massive raft foundation was discussed in detail. The piled-raft foundation system adopted for the Burj Khalifa to withstand enormous vertical and wind loads was explained with emphasis on long-term settlement monitoring. The failure mechanism and soil-related issues behind the Leaning Tower of Pisa were presented to highlight the consequences of inadequate geotechnical understanding.

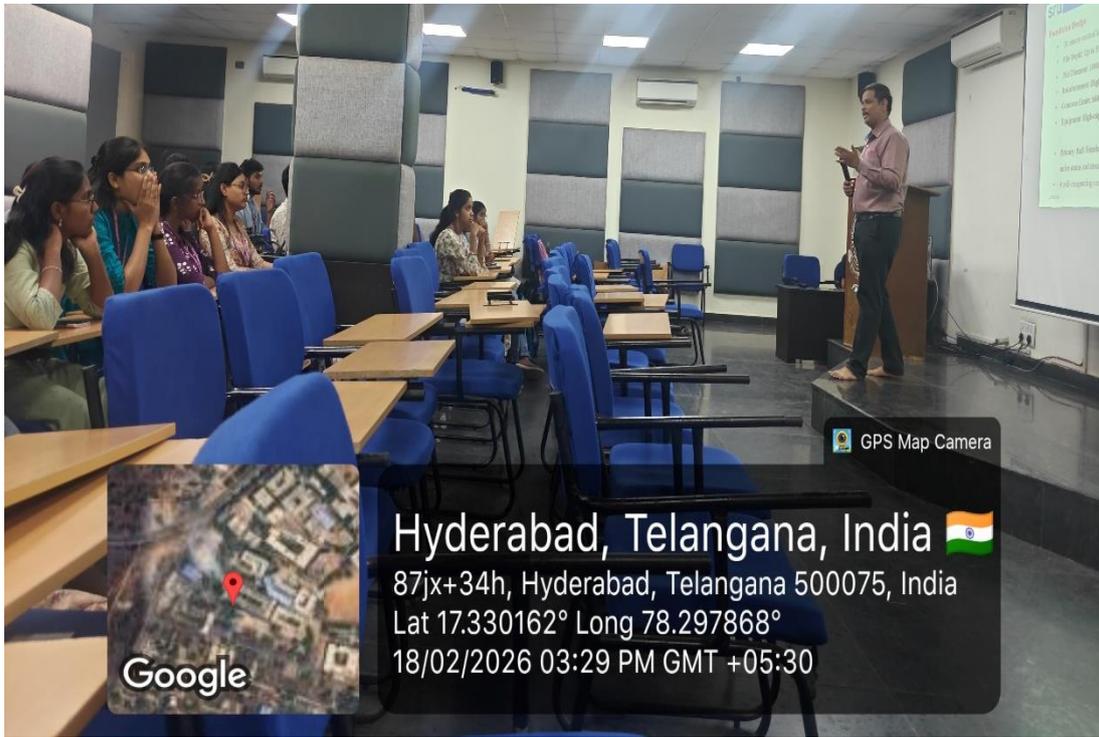
The session successfully bridged theoretical knowledge with real-world engineering practices. Students actively participated in discussions and clarified their doubts regarding foundation design, liquefaction analysis, and earthquake engineering concepts.

Overall, the technical talk was highly informative and provided students with valuable exposure to advanced geotechnical engineering practices applied in world-renowned structures.

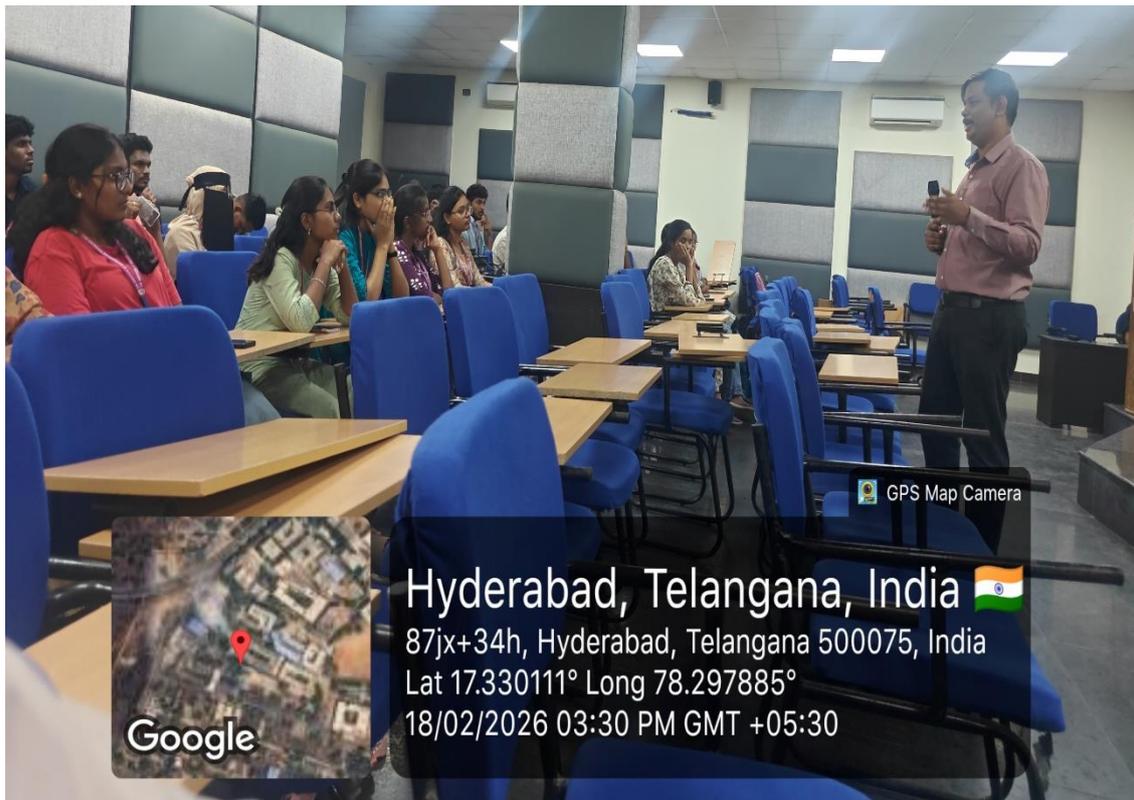
Photos



Dr. Sujay Teli Delivering the lecture



Dr. Sujay Teli Delivering the lecture



Dr. Sujay Teli Interacting with Students

Attendance Sheet



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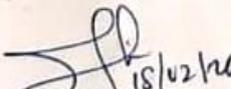
DEPARTMENT OF CIVIL ENGINEERING

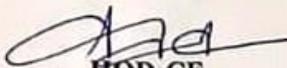
Technical Talk on

From Soil to Sky: The Hidden Engineering Beneath Iconic Buildings

Attendance Sheet

| Sl.No. | Roll No. | Name of Participant | Year/Sem | Signature |
|--------|------------|---------------------|----------|------------------|
| 1. | 23675A0104 | N. Laya | IV / II | Laya |
| 2. | 22671A0106 | V. Vishnu | IV / II | Vishnu |
| 3. | 24675A0102 | M. Akshaya | III / II | Akshaya |
| 4. | 23671A0101 | B. Bharath | III / II | Bharath |
| 5. | 24675A0101 | B. Ganesh | III / II | Ganesh |
| 6. | 24675A0104 | P. Manideepak | III / II | Manideepak |
| 7. | 23671A0107 | V. Vajrathi | III / II | Vajrathi |
| 8. | 24675A0113 | T. Raghavendra | III / II | Raghavendra |
| 9. | 24675A0115 | mohammed Junaid | III / II | Junaid |
| 10. | 24675A0108 | Maramad Kumar | III / II | Maramad Kumar |
| 11. | 24675A0111 | Sday Kiran | III / II | Sday Kiran |
| 12. | 24675A0106 | K. Srinivas Kumar | III / II | Srinivas Kumar |
| 13. | 23671A0103 | S. Shiva | III - II | Shiva |
| 14. | 24675A0104 | P. Sai Chandu | III - II | Chandu |
| 15. | 23671A0102 | Gumara Rohini | II - II | Rohini |
| 16. | 23675A0105 | D. Ranjith | IV - II | Ranjith |
| 17. | 23671A0110 | K. Vishwa Vitek | IV - II | Vishwa Vitek |
| 18. | 23675A0114 | Afreen | IV - II | Afreen |
| 19. | 23675A0121 | B. Rajendra Chary | IV - II | Rajendra Chary |
| 20. | 22671A0101 | R. Keshava | IV - II | Keshava |
| 21. | 24671A0116 | N. NANDA KISHORE | II - II | N. Nanda Kishore |
| 22. | 24671A0112 | K. VIJAY HARUN | II - II | Vijay Harun |
| 23. | 25675A0105 | E. MOUNIKA | II - II | Mounika |
| 24. | 24671A0115 | M. Soumya | II - II | Soumya |
| 25. | 25675A0110 | B. Nithin | II - II | Nithin |


Coordinator


HOD-CE



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DEPARTMENT OF CIVIL ENGINEERING

Technical Talk on

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Attendance Sheet

| Sl.No. | Roll No. | Name of Participant | Year/Sem | Signature |
|--------|------------|----------------------------|----------|----------------------------|
| 1. | 25675A0101 | V. Vaishnavi | II year | V. Vaishnavi |
| 2. | 25675A0107 | B. Gowdhami | II year | B. Gowdhami |
| 3. | 24671A0105 | G. Shrisisha | II year | G. Shrisisha |
| 4. | 24671A0109 | L. Maheshwari | II year | L. Maheshwari |
| 5. | 24671A0117 | P. Saikiran | II year | P. Saikiran |
| 6. | 24671A0108 | L. Krishna | II year | L. Krishna |
| 7. | 24671A0121 | V. Bheem Singh | II year | V. Bheem Singh |
| 8. | 24671A0106 | K. Balaji | II year | K. Balaji |
| 9. | 24671A0125 | M. O. Abdul Rehman Sherceh | II year | M. O. Abdul Rehman Sherceh |
| 10. | 24671A0124 | M. Venkatesh | II year | M. Venkatesh |
| 11. | 24671A0123 | Yongareddy Yashwanth Reddy | II year | Yongareddy Yashwanth Reddy |
| 12. | 24675A0114 | G. Renuka | II year | G. Renuka |
| 13. | 24675A0105 | C. Akshaya | II year | C. Akshaya |
| 14. | 24671A0112 | M. Anjana | II year | M. Anjana |
| 15. | 25675A0106 | A. Abhiram | II year | A. Abhiram |
| 16. | 25675A0103 | P. Chaitra Padhi | II year | P. Chaitra Padhi |
| 17. | 25675A0108 | V. Manjunath Reddy | II year | V. Manjunath Reddy |
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Coordinator


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