


	<p><b>DEPARTMENT OF CIVIL ENGINEERING</b></p> <p><b>V.R. SIDDHARTHA SCHOOL OF ENGINEERING</b></p> <p><b>SIDDHARTHA ACADEMY OF HIGHER EDUCATION</b></p> <p>(An Institution Deemed to be University)</p> <p>(Under Section 3 of UGC Act, 1956)</p> <p><b>Kanuru, Vijayawada – 520007, AP. <a href="http://www.vrsiddhartha.ac.in">www.vrsiddhartha.ac.in</a></b></p>	
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The list of events conducted under IGBC Student Chapter for the Academic Year 2025 to 2026 are as follows:

S.No	Name of the Event	Type of Event	Dates
1	Analysis and Design of Multi-storeyed Building using E-TABS software	Faculty Development Program (FDP)	08-12-2025 to 13-12-2025
2	Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure	AICTE-ATAL FDP (ONLINE)	26-01-2026 to 31-01-2026
3	Relation between Reliability and RPN (Risk Priority Numbers)	Guest Lecture	2nd February 2026

	<p><b>DEPARTMENT OF CIVIL ENGINEERING</b>  <b>V.R. SIDDHARTHA SCHOOL OF ENGINEERING</b>  <b>SIDDHARTHA ACADEMY OF HIGHER EDUCATION</b>  (An Institution Deemed to be University)  (Under Section 3 of UGC Act, 1956)  Kanuru, Vijayawada – 520007, AP. <a href="http://www.vrsiddhartha.ac.in">www.vrsiddhartha.ac.in</a></p>	
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## Faculty Development Program (FDP) on Analysis and Design of Multi-storeyed Building using E-TABS software

<b>Event Type</b>	Faculty Development Program
<b>Date / Duration</b>	08-12-2025 to 13-12-2025; 2:00 PM to 5:00 PM
<b>Resource Person</b>	NAGU.KANCHARLA, Manager, Canter CADD
<b>Name of Coordinator</b>	Dr.S.R.R.Teja Prathipati, Assistant Professor, CED-VRSSE
<b>Target Audience</b>	Faculty of Civil Engineering
<b>Total no of Participants</b>	10
<b>Objective of The-event</b>	<p>The Department of Civil Engineering has recently procured 20 licenses of ETABS (2022 version) for the Computer Applications Laboratory. As ETABS has been introduced into the updated university curriculum, it became essential to train faculty members on Latest ETABS interface and features, Structural modeling as per Indian Standards and Effective delivery of laboratory and design-oriented courses. This FDP was organized to enhance faculty competency and ensure uniform, industry-relevant instruction.</p> <p>The main objectives of the FDP were:</p> <ul style="list-style-type: none"> <li>➤ To provide hands-on training on ETABS software for structural analysis and design</li> <li>➤ To familiarize faculty with modelling of RCC and steel buildings</li> <li>➤ To understand load calculations, seismic and wind analysis as per IS codes</li> <li>➤ To enhance teaching effectiveness in structural design and software laboratories</li> <li>➤ To bridge the gap between academic teaching and industry practices</li> </ul>
<b>Outcome of The-event</b>	<p>At the end of the FDP, the participants were able to:</p> <ul style="list-style-type: none"> <li>➤ Confidently model multi-storey buildings using ETABS</li> <li>➤ Perform seismic and wind analysis as per Indian codes</li> <li>➤ Interpret analysis and design results effectively</li> <li>➤ Integrate ETABS software into classroom teaching and laboratory sessions</li> <li>➤ Guide students in software-based structural design projects</li> </ul>
<b>Feedback / Suggestions</b>	Faculty gave positive feedback on the FDP on Analysis and Design of Multi-storeyed Building using E-TABS software

# DEPARTMENT OF CIVIL ENGINEERING

*One Week Faculty Development Program on*  
**ANALYSIS AND DESIGN OF MULTI-STOREYED  
BUILDING USING E-TABS SOFTWARE**

**Mr NAGU KANCHARLA**  
**Manager**  
**Canter CADD**



**08 - 13 December 2025**



**CE 105**

Civil Engineering Department  
VR Siddhartha School of Engineering



**Golden Jubilee Year of Siddhartha Academy of General & Technical Education, Vijayawada**



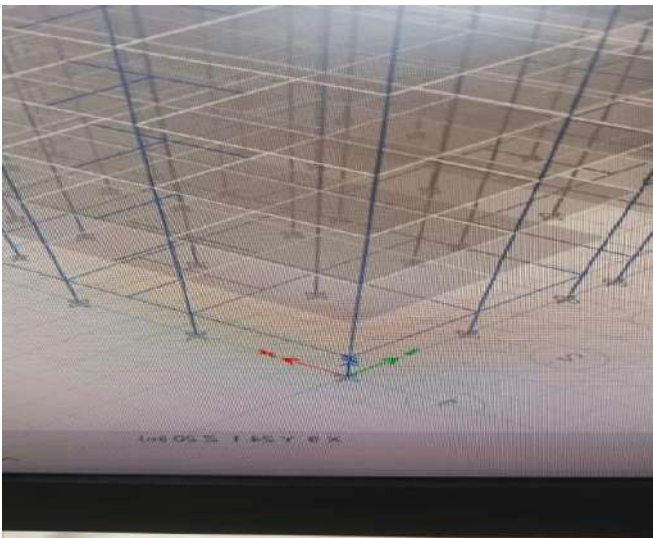
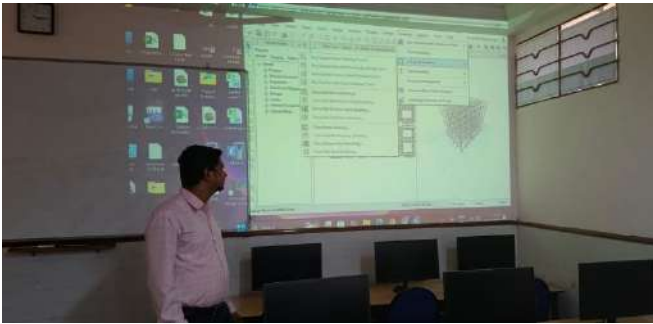
**SIDDHARTHA**  
**ACADEMY OF HIGHER EDUCATION**

**A DEEMED TO BE UNIVERSITY**

(Under Section 3 of UGC Act, 1956)

Vijayawada, Andhra Pradesh. [www.vrsiddhartha.ac.in](http://www.vrsiddhartha.ac.in)

## Photos



Attendance:



**DEPARTMENT OF CIVIL ENGINEERING**  
**V.R. SIDDHARTHA SCHOOL OF ENGINEERING**  
**SIDDHARTHA ACADEMY OF HIGHER EDUCATION**  
(An Institution Deemed to be University)  
(Under Section 3 of UGC Act, 1956)  
Kanuru, Vijayawada – 520007, AP. [www.vrsiddhartha.ac.in](http://www.vrsiddhartha.ac.in)

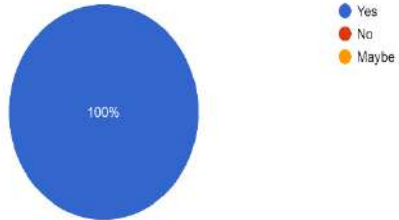
“Attendance for Faculty Development Program (FDP) on Analysis and Design of Multi-storeyed Building using E-TABS software- 8<sup>th</sup> to 13<sup>th</sup> December 2025”

S No	Name of the Faculty	Signature					
		8-12-25	9-12-25	10-12-25	11-12-25	12-12-25	13-12-25
1	Dr. Lakshmi Keshav						
2	Dr. M. Kanta Rao						
3	Dr. T. Sujatha						
4	Dr. P. Krishna Prasanna						
5	Dr. B. Venkat Rao	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>
6	Mr. G. Nipun						
7	Mr. G. Yaswanth						
8	Dr. Y. Suma						
9	Dr. K. Hanuma						
10	Dr. S. R. R. Teja Prathipati						

## Feedback

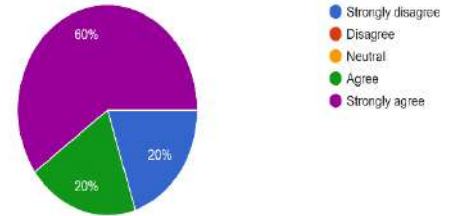
Are you satisfied with the FDP?

10 responses



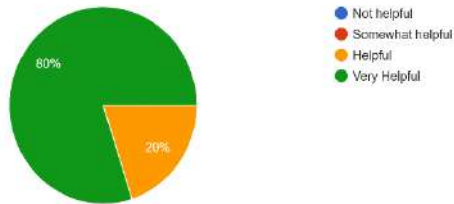
Is the FDP well organized and planned?

10 responses



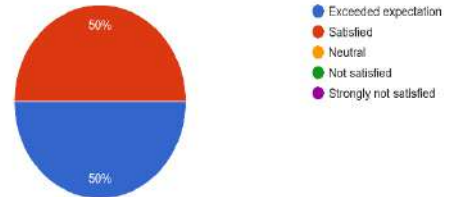
How helpful was the workshop you?

10 responses



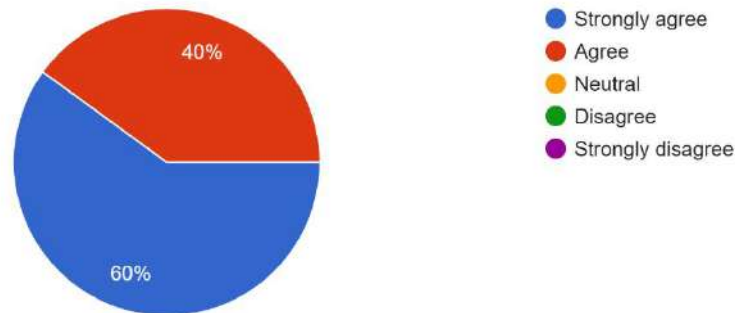
What can you say about the speaker?

10 responses



Did we exceed your expectations?

10 responses



Dr. S R R Teja P  
Asst. Professor  
Dept. of Civil Engg.,  
VRSSE, SAHE

Dr. V.Mallikarjuna  
Professor and Head  
Dept. of Civil Engg.,  
VRSSE, SAHE



### REPORT OF ONE-WEEK ONLINE FACULTY DEVELOPMENT PROGRAM (FDP)

A summary of the one-week online faculty development program (FDP) sponsored by the AICTE Training and Learning (ATAL) Academy on the Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure, which took place from January 26 to January 31, 2026 organised by Department of Civil Engineering, V.R.Siddhartha School of Engineering, Siddhartha Academy of Higher Education in association with IGBC.

#### Introduction

With the increasing frequency and intensity of natural disasters such as earthquakes, cyclones, floods, landslides, and fires, ensuring the resilience of infrastructure has become a global priority. Conventional construction practices are often inadequate to withstand these emerging hazards, especially under changing climatic conditions and rapid urbanization.

In this context, the development of **next-generation construction materials** and the integration of **advanced digital technologies** are transforming the field of civil engineering. Innovations such as **3D concrete printing, sustainable low-carbon materials, smart sensors for structural health monitoring, AI-driven analytics, BIM-enabled design, modular construction, and digital twins** are paving the way toward infrastructure systems that are safer, stronger, adaptive, and environmentally sustainable.

To disseminate knowledge on these emerging advancements, the Department of Civil Engineering, VR Siddhartha School of Engineering, SAHE organized an AICTE–ATAL sponsored Faculty Development Programme titled “**Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure.**”

#### Objectives of the Programme

The FDP aimed to achieve the following objectives:



- ✓ To equip faculty members, researchers, and industry professionals with theoretical and practical foundations in disaster-resilient infrastructure development.
- ✓ To provide exposure to advanced construction materials, sustainable practices, and innovative technologies for hazard mitigation.
- ✓ To introduce participants to modern tools such as **BIM, AI, digital twins, simulation-based design, and smart monitoring systems.**
- ✓ To foster interdisciplinary collaboration and innovation in the area of disaster resilience.

#### Coordinators

- ❖ **Prof. V. Mallikarjuna**, Professor & Head, Department of Civil Engineering
- ❖ **Dr. S. R. R. Teja Prathipati**, Assistant Professor, Department of Civil Engineering

 <p>IGBC</p>	<h2>Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure</h2> 	
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The 13 Resource Persons for the 6-day FDP are

	<p style="text-align: center;"><b>Advances in Processing leading to Concrete 3D Printing</b></p> <p><b>Prof. K. V. L. Subramaniam</b> is a distinguished Professor in the Department of Civil Engineering at IIT Hyderabad, with over two decades of expertise in advanced concrete materials and sustainable infrastructure. His research focuses on cementitious composites, durability of reinforced concrete, and innovative material processing methods that improve structural performance under extreme conditions. Prof. Subramaniam is a pioneer in the emerging field of <b>Concrete 3D Printing</b>, where advanced processing techniques enable rapid, sustainable, and high-performance construction solutions. His work supports the development of disaster-resilient and adaptable infrastructure systems.</p>
<p><b>Prof. Subramaniam Kolluru V.L.,</b> Professor, Civil Engineering, IIT Hyderabad.</p>	<p style="text-align: center;"><b>Engineering Disaster Resilience - Role of Simulations</b></p> <p><b>Mr. Aditya Praasad Botla</b> is a Principal Engineer at Lennox India Technology Centre. He has nearly 20 years of experience in simulation and modeling. His expertise lies in computational analysis for resilient design. He focuses on predictive engineering solutions. He applies <b>simulation tools to disaster risk mitigation</b>. He enhances infrastructure safety through digital analytics. His work strengthens data-driven design practices. He contributes to modern resilient engineering systems.</p>
	
<p><b>Prof. Subramaniam Kolluru V.L.,</b> Professor, Civil Engineering, IIT Hyderabad.</p>	



## Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure



**Dr. Ambika S,**

Assistant Professor, Civil Engineering, IIT Hyderabad.

### Next Generation Membranes for Pollution Remediation

**Dr. Ambika S** is an Assistant Professor in the Department of Civil Engineering at IIT Hyderabad. She also serves as Adjunct Faculty in Climate Change and Sustainability. She holds a Ph.D. from IIT Madras and has experience at NIT Warangal.

Her expertise spans environmental engineering and sustainable systems. Her research focuses on **remediation technologies and resource recovery**. She has led projects funded by DST, JICA, and Smart Cities Mission. She serves as Associate Editor of an ASCE journal. Her work promotes climate-resilient and sustainable infrastructure solutions.



**Mr. Prasad C A,**

Director,  
Metey Engineering and Consultancy Pvt. Ltd,  
Hyderabad

### Policy, Economics, and Regulatory Frameworks for Emerging Construction Technologies

**Mr. C. A. Prasad** is Director of Metey Engineering Consultancy Pvt. Ltd. He is President of the Pre-Engineered Structures Society of India. He holds degrees from JNT University and NIT Warangal.

He has nearly five decades of professional experience. He is an expert in **precast and prefabricated construction systems**. He has promoted modern construction technologies across India. He is a Fellow of IE(I) and member of ASCE (USA). His contributions advance industrialized construction practices.



## Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure



**Prof. Sanjay Kumar Shukla,**  
Professor, School of Engineering,  
Edith Cowan University, Australia

### Geosynthetics for Slope Stability and Erosion Control in Infrastructure Projects

**Prof. Sanjay Kumar Shukla** is a Professor at Edith Cowan University, Perth, Australia. He is a globally recognized expert in **Geotechnical and Geosynthetics Engineering**. He is the Founding Editor-in-Chief of the International Journal of Geosynthetics and Ground Engineering.

He serves as the Civil Engineering Discipline Coordinator at ECU. He has authored over 31 books and more than 345 research publications. He is consistently ranked among the world's top 2% scientists globally. He is a Fellow of ASCE, Engineers Australia, and IE(I). His contributions have significantly advanced geotechnical research worldwide.



**Dr. Subbarao Yarramsetty,**  
Senior Manager,  
Reliance Industries Limited,  
Mumbai

### Policy, Economics, and Regulatory Frameworks for Emerging Construction Technologies

**Dr. Subbarao Yarramsetty** is Senior Manager – BIM & Digital Adoption at Reliance Industries Ltd. He holds a Ph.D. from NIT Warangal and M.Tech from IIT Madras.

He has 19 years of experience across industry and academia. He specializes in **digital construction and lifecycle management**. His expertise includes BIM, Digital Twins, and LCA integration. He has published several Scopus-indexed research papers. He focuses on high-performance, disaster-resilient infrastructure. He contributes to India's transition toward net-zero development.



## Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure



**Prof. Tadikonda Venkata Bharat,**  
Professor,  
Department of Civil Engineering,  
IIT Guwahati

### **Sustainable Materials and practices for landslide risk mitigation**

**Prof. Tadikonda Venkata Bharat** is a Professor in the Department of Civil Engineering at IIT Guwahati. He is affiliated with the Center for Disaster Management and Research (CDMR). He holds M.S. and Ph.D. degrees from IISc Bengaluru. He has also served as a Post-Doctoral Researcher in Canada.

With extensive research and teaching experience, he specializes in **geoenvironmental engineering**. He currently serves as Associate Dean – Academic Research at IIT Guwahati. He is associated with reputed international journals as Editor and Associate Editor. His research focuses on landslide mitigation and disaster-resilient infrastructure.





**Dr. K Gopi Krishna,**  
Associate Professor,  
Department of Civil Engineering,  
NIT Warangal

### **Importance of Fire resistance rating (FRR) in structural performance evaluation of RC building components under fire**



**Dr. K. Gopi Krishna** is an Associate Professor at NIT Warangal. He specializes in structural engineering and fire performance evaluation. His research emphasizes **Fire Resistance Rating in RC structures**. He focuses on safety under extreme hazard conditions.

He has published widely in reputed journals. He contributes to consultancy in structural safety evaluation. His expertise enhances fire-resilient infrastructure design. He strengthens performance-based structural engineering practices.


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	<p style="text-align: center;"><b>Integrating ESG Principles in Construction for Disaster-Resilient and Sustainable Infrastructure</b></p> <p><b>Mr. Srikanth Dharmaji</b> is a Senior Manager at Rustomjee, Mumbai. He has over 22 years of experience in infrastructure development.</p> <p>He specializes in <b>ESG integration in construction projects</b>. He promotes sustainable and responsible infrastructure planning. He has handled large-scale real estate and infrastructure projects. He advocates long-term resilience through governance frameworks. His expertise supports sustainable disaster mitigation strategies. He contributes to future-ready infrastructure development.</p>
<p style="text-align: center;"><b>Mr. Srikanth Dharmaji,</b> Senior Manager, Rustomjee, Mumbai</p>	<p style="text-align: center;"><b>Foundations on Expansive and Collapsible Soils: Design and Mitigation Strategies</b></p> <p><b>Prof. Sarat Kumar Das</b> is a Professor at IIT (ISM) Dhanbad. He is a leading expert in geotechnical engineering and foundation systems. His specialization includes <b>expansive and collapsible soils</b>.</p> <p>He has decades of academic and research excellence in soil mechanics. He has published extensively and guided numerous scholars. His work provides practical solutions for foundation challenges. He integrates theoretical and field-based geotechnical applications. His expertise supports resilient infrastructure development.</p>
	
<p style="text-align: center;"><b>Prof. Sarat Kumar Das,</b> Professor, Department of Civil Engineering, IIT/ISM Dhanbad</p>	

 <p><b>IGBC</b></p>	<h2>Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure</h2> 	
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	<p><b>Prefabrication and Modular Construction for Post-Disaster Recovery from QA/QC perspective</b></p> <p><b>Mr. V. Ravi Kiran Reddy</b> is Senior Manager (QAQC) at L&amp;T Pvt. Ltd. He has extensive experience in infrastructure execution. He specializes in prefabrication and modular construction.</p> <p>He emphasizes <b>quality assurance in resilient systems</b>. He has managed large infrastructure projects. He focuses on rapid post-disaster reconstruction. His expertise ensures efficiency and safety. He strengthens modern construction practices.</p>
<p><b>Mr. V Ravi Kiran Reddy,</b> Senior Manager QAQC( Civil), L&amp;T Pvt. Ltd</p>	<p><b>Concrete 3D Printing: From Lab to Real-World Applications</b></p> <p><b>Mr. Parivarthan Reddy</b> is Co-Founder of Tvasta Manufacturing Solutions Pvt. Ltd. He is a <b>pioneer in concrete 3D printing in India</b>. He promotes additive manufacturing in construction.</p> <p>He focuses on rapid and sustainable building solutions. He has demonstrated real-world 3D printed structures. He bridges research and practical field applications. His work supports affordable and resilient housing. He advances next-generation construction technologies.</p>
	<p><b>Mr. Parivarthan Reddy,</b> Co-Founder, Tvasta Manufacturing Solutions Private Limited, Chennai</p>



	<p style="text-align: center;"><b>Overview of Disaster-Resilient Infrastructure: Challenges and Opportunities</b></p> <p><b>Dr. Srimaruthi Jonnalagadda</b> is an R&amp;D Structural Engineer at Tindall Corporation, USA. He has over 20 years of industry and research experience. His expertise includes <b>precast systems and resilient structural design</b>.</p> <p>He integrates innovation into practical construction solutions. He focuses on enhancing durability and structural performance. His global exposure strengthens disaster-resilient infrastructure planning. He bridges academic research with industry implementation. His insights support modern resilient construction systems.</p>
<p style="text-align: center;"><b>Dr. Srimaruthi Jonnalagadda,</b> R&amp;D Structural Engineer, Tindall Corporation, Atlanta, USA</p>	

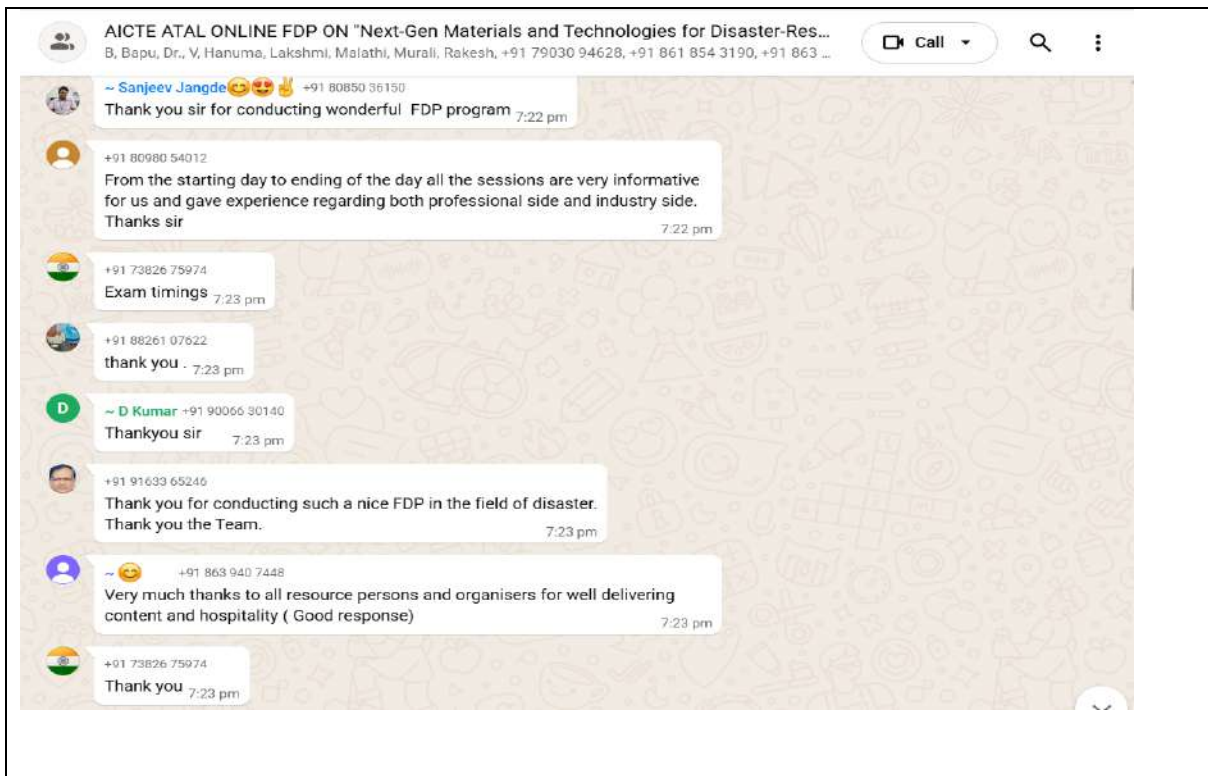
The Inaugural Session of the Faculty Development Programme on “Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure” was held online at 6:00 a.m. on 26th Jan 2026. The programme commenced with a warm welcome to the distinguished dignitaries, faculty members, researchers, and participants. The event was graced by eminent personalities from reputed institutions, whose presence added great value to the occasion. The session began with an introductory note highlighting the importance of adopting advanced materials and innovative technologies for building disaster-resilient infrastructure in the present scenario. The organizers emphasized the objective of the FDP in strengthening academic knowledge, promoting research collaborations, and enhancing teaching practices in the field of civil engineering and infrastructure development.

During the session, the Chief Guest and Guests of Honour addressed the participants and shared their insights on various initiatives taken by AICTE and ATAL Academy, especially during challenging times. They elaborated on the role of technical institutions in fostering innovation, research, and resilience in infrastructure systems. The speakers encouraged participants to actively engage in the programme and make effective use of the knowledge shared by experts. The session concluded with a heartfelt vote of thanks, expressing gratitude to the dignitaries,



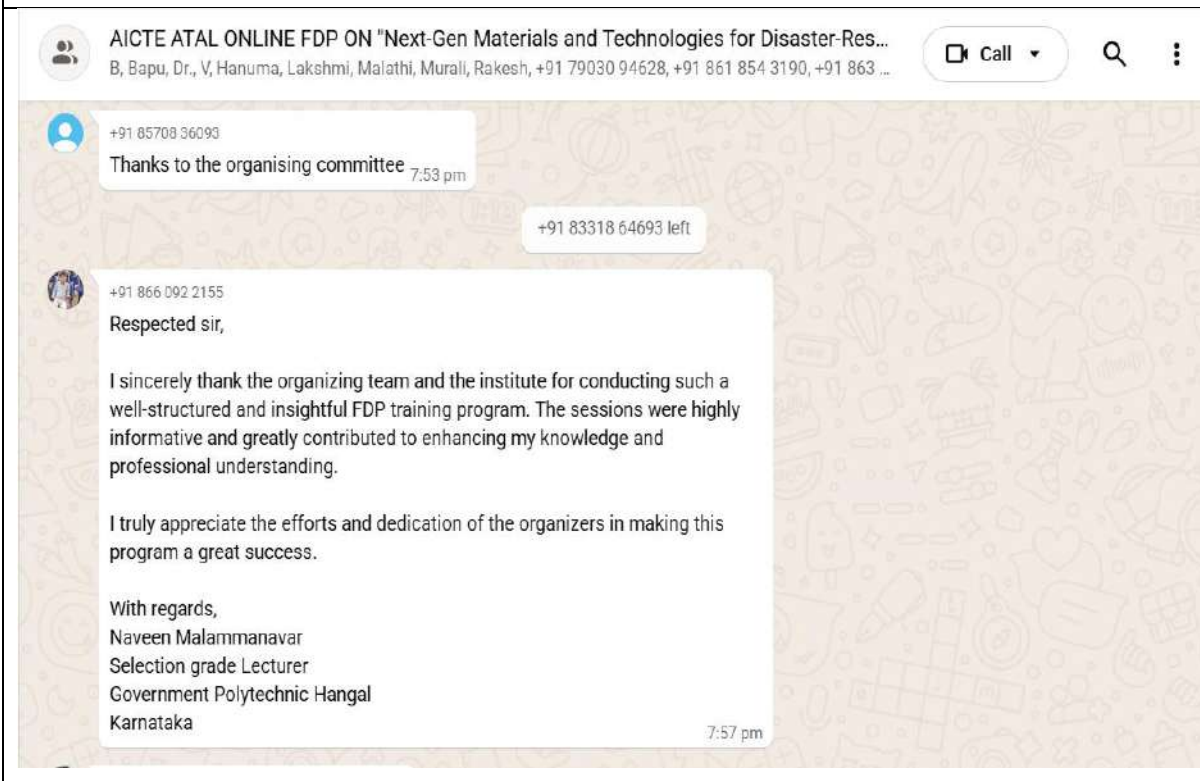
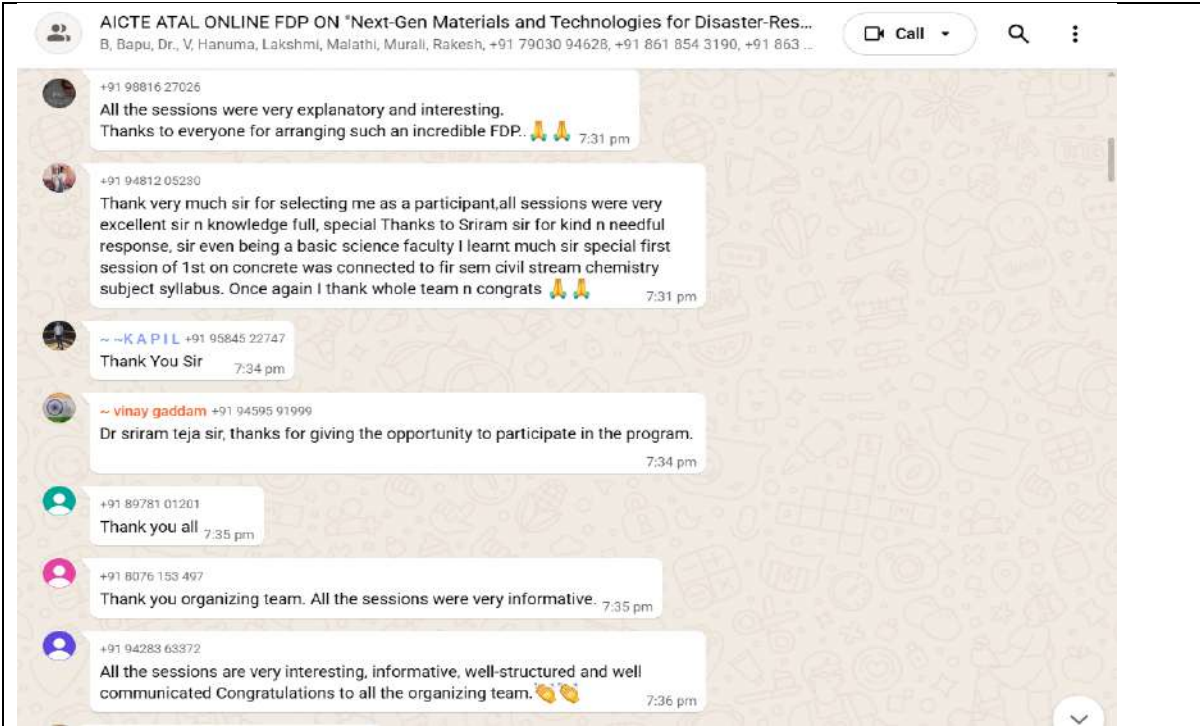
speakers, organizing committee, and participants for making the inaugural function a grand success.

Some feedback WhatsApp messages are given below.





# Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure





# Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure



AICTE ATAL ONLINE FDP ON "Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure" by B. Bapu, Dr. V. Hanuma, Lakshmi, Malathi, Murali, Rakesh, +91 79030 94628, +91 861 854 3190, +91 863 ...

+91 79842 72591  
Thank you organizers done and certificate received 8:31 pm  
+91 88953 98001 left

+91 97077 40363  
Thank you organiser. I have submitted the feedback after the test. I have also received the certificate.  
-Jitumani Kalita 8:40 pm  
+91 97897 82555 left

+91 94256 81508  
Thank your for organizers . 8:41 pm

+91 7417 572 308  
Thank you organiser. I have submitted the feedback after the test. I have also received the certificate.  
Rimmy 8:41 pm



# Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure



AICTE ATAL ONLINE FDP ON "Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure"  
B. Bapu, Dr., V. Hanuma, Lakshmi, Malathi, Murali, Rakesh, +91 79030 94628, +91 861 854 3190, +91 863 ...

+91 95020 02341

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GOT MY CERTIFICATE,Tq so much for the organising Team of SIDDHARTHA ACADEMY OF HIGHER EDUCATION  
8:55 am

Download

+91 97389 29111 left

+91 99437 37257 left

--Dr. Soma Das left

+91 95020 02341 left

**B VENKAT RAO Sir VRSEC**

**Dr BVR ATAL FDP certificate (1).pdf**  
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9:51 am

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thank you sir.  
10:27 am

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AICTE ATAL is a good platform that provides quality learning opportunities through expert-led courses and also offers valid certificates that support professional and academic growth.I appreciate Siddhartha academy has given us good platform. Thanks sir.  
10:28 am

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**certificate01.pdf**  
1 page • PDF • 223 kB

thank you sir for this.  
10:29 am

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The YouTube links for the 6-day FDP are following:

Inaugural Session: [https://www.youtube.com/watch?v=ruM\\_bsnD0aU&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg](https://www.youtube.com/watch?v=ruM_bsnD0aU&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg)

Session-1 : <https://www.youtube.com/watch?v=ra7LNEhttrY&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=14>

Session-2 : [https://www.youtube.com/watch?v=5U\\_JOuyDmuE&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=13](https://www.youtube.com/watch?v=5U_JOuyDmuE&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=13)

Session-3 : <https://www.youtube.com/watch?v=lufcJuHwBdY&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=7>

Session-4 : <https://www.youtube.com/watch?v=8IyddNU2rbo&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=6>

Session-5 : [https://www.youtube.com/watch?v=yUwhut6eE\\_A&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=11](https://www.youtube.com/watch?v=yUwhut6eE_A&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=11)

Session-6 : <https://www.youtube.com/watch?v=pt9OGB4jzi8&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=12>

Session-7 : <https://www.youtube.com/watch?v=0Edql0eCUyw&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=8>

Session-8 : <https://www.youtube.com/watch?v=clv7P3AFxwA&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=9>

Session-9 : <https://www.youtube.com/watch?v=9nMPPyfmva8&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=5>

Session-10 : <https://www.youtube.com/watch?v=f7Js9jibPhE&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=4>

Session-11 : <https://www.youtube.com/watch?v=XVpC-XeTuDk&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=10>

Session-12 : <https://www.youtube.com/watch?v=v4zFBjWOXps&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=3>

Session-13 : <https://www.youtube.com/watch?v=ZH5G0ulV8&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=2>

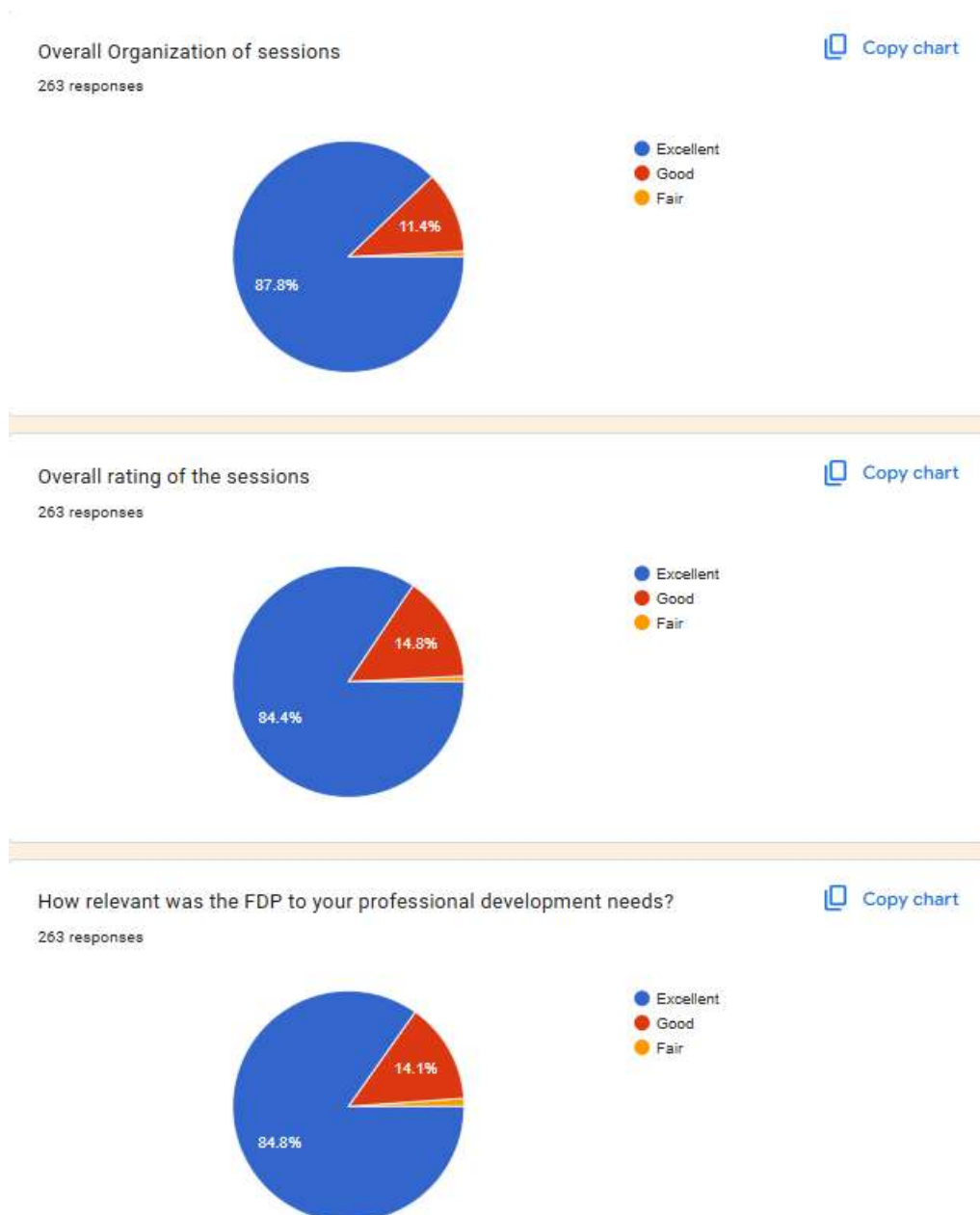
Valedictory Session: [https://www.youtube.com/watch?v=ruM\\_bsnD0aU&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=1](https://www.youtube.com/watch?v=ruM_bsnD0aU&list=PL-EePfnWy-RjgqaB9u0GlgVnOMkoKoNsg&index=1)





# Next-Gen Materials and Technologies for Disaster-Resilient Infrastructure



The feedback of the participants:



	<p><b>DEPARTMENT OF CIVIL ENGINEERING</b>  <b>V.R. SIDDHARTHA SCHOOL OF ENGINEERING</b>  <b>SIDDHARTHA ACADEMY OF HIGHER EDUCATION</b>  (An Institution Deemed to be University)  (Under Section 3 of UGC Act, 1956)  Kanuru, Vijayawada – 520007, AP. <a href="http://www.vrsiddhartha.ac.in">www.vrsiddhartha.ac.in</a></p>	
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## A REPORT ON

### Guest Lecture on "RELATION BETWEEN RELIABILITY AND RPN (RISK PRIORITY NUMBERS)"



The Department of Civil Engineering, V.R. Siddhartha School of Engineering, Siddhartha Academy of Higher Education, Vijayawada, successfully organized a **Guest Lecture** on “**Relation between Reliability and RPN (Risk Priority Numbers)**” on **2nd February 2026** at the **CE Seminar Hall**.

The guest lecture was delivered by **Dr. Chandrasekhar Putcha**, Professor Emeritus, Department of Civil and Environmental Engineering, California State University, Fullerton, USA. Dr. Putcha is a distinguished academician with vast experience in reliability-based design, risk assessment, and structural engineering, and his expertise greatly enriched the session.

The lecture focused on explaining the fundamental concepts of **structural reliability**, probability-based design approaches, and their practical relevance in modern civil engineering practice. Dr. Putcha elaborated on the concept of **Risk Priority Numbers (RPN)** and demonstrated how RPN

can be effectively integrated with reliability analysis for improved decision-making in engineering design, safety evaluation, and maintenance planning. Real-world examples and case studies were discussed to help participants understand the application of these concepts in infrastructure systems.

The session witnessed enthusiastic participation from **about 150 students** from undergraduate and postgraduate programs and **around 10 faculty members** from the Department of Civil Engineering. The lecture was highly interactive, with students actively engaging in discussions and seeking clarifications on reliability analysis, risk assessment methods, and their implementation in civil engineering projects.

The guest lecture provided valuable insights into advanced design philosophies beyond conventional deterministic approaches and helped bridge the gap between theoretical knowledge and practical applications. The participants found the session highly informative and beneficial for their academic learning and research orientation.

The program concluded with a vote of thanks, expressing sincere gratitude to Dr. Chandrasekhar Putcha for sharing his expertise and to the management and faculty members for their support in organizing the event successfully.

