Expert Session Event Report held on the "Applications of Mono Strand Unbonded Post Tensioning System in the Design of Buildings"

Event Details:

Organized by:	School of Engineering and Technology, GTU
Coordinated by:	Department of Civil (Structural Engineering)
Program Coordinator:	Prof. (Dr.) J. A. Amin, Professor, GTU-SET
Coordinated:	Dr. K. M. Gondaliya, Ass. Professor, GTU-SET
Experts/Speakers:	Mr. Arun Sankhat, Director, Post Tension Services India Pvt. Ltd. (PTSI)
Date & Time:	26 November 2024 (Tuesday) at 3:30 PM
Venue:	Swami-Vivekanand Conference Room, First floor, Block – 5, GTU-SET, Ahmedabad – 382424.
Register students:	27

Highlights of Event:

The session featured Mr. Arun Sankhat, an accomplished structural engineer with over two decades of experience in India and the USA, who is currently leading the Engineering and Design Division at Post Tension Services India Pvt. Ltd. (PTSI). The event began with a warm welcome and introduction of the speaker, followed by a detailed presentation that covered the fundamentals of post-tensioning (PT) systems, classification of PT systems, material properties, and the precautions necessary when handling PT design. Mr. Sankhat provided an insightful overview of mono strand unbonded post-tensioning systems and their applications in modern construction, emphasizing their advantages, including material efficiency, structural stability, and economic feasibility.

During his presentation, Mr. Sankhat elaborated on the principles of post-tensioning and explained its importance in creating lightweight, durable, and efficient structures. He shared insights into various projects he has undertaken since 2009, ranging from residential buildings to educational institutions and large conference halls, demonstrating the practical application of PT systems in diverse scenarios. He emphasized the importance of understanding material properties such as the behavior of tendons under load, stress concentration, and proper detailing of anchorage zones to ensure safe and efficient designs. Furthermore, he provided guidance on adapting PT design practices to meet international standards and complying with design codes for innovative and structurally sound solutions.

The session also included an interactive segment where students and faculty engaged in discussions and posed questions about challenges in PT design. Mr. Sankhat addressed these queries with practical solutions and highlighted the criticality of integrating theoretical knowledge with practical applications. He inspired the audience by encouraging them to approach both post-tensioned and traditional structures with passion and dedication, stating, **"Whatever you do, do it by heart; that is the key to success in life."** The session concluded with Mr. Sankhat motivating attendees to build a strong foundation in structural engineering by combining their knowledge with hands-on experience. The event was a resounding success, leaving the participants motivated and better equipped to tackle challenges in the field of structural engineering.

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Glimpse of Expert Session