



Volume 1, Issue 2

July, 2025

INFRAVISION

Biannual NEWSLETTER

DEPARTMENT OF CIVIL ENGINEERING

Editor

Dr. Sunita Tolani (Assistant Professor)



Vision of Department

To become a discipline of excellence that promotes higher learning and advanced technology to meet current and future challenges of civil engineering industry.

Mission of Department

- Create a conducive environment of quality education and skill development for all round growth.
- Encourage students for higher education, develop research attitude with ethical values for sustainable development.
- Inculcate leadership qualities and professionalism for serving the society.

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FROM THE HoD'S DESK



Dr. B.L. Sharma
HEAD
Department of Civil Engineering

It is my privilege to share the Civil Engineering Department Newsletter for the period January 2025 to June 2025, which highlights the key initiatives and milestones achieved during this time.

First, I take this opportunity to acknowledge the dedicated leadership of Prof. D.K. Sharma, whose guidance and contributions have been instrumental in strengthening the department, and it is an honour for me to take this responsibility forward.

The department actively engaged in academic and professional development activities over the past semester. The Survey Camp provided students practical exposure to fieldwork, while the Faculty Development Program (FDP) and workshops enriched both faculty and students by bridging theory with practice and expanding professional skills.

A major highlight of this period was the signing of two important MoUs. First is between HGIEL and SKIT, to launch a Bridge Design Certification Course, which will enhance specialized learning for our students. The second one is between TEXEL Group and SKIT, to foster industry-academia collaboration, opening avenues for internships, training, and research. These collaborations mark a significant step toward strengthening our academic-industry interface and preparing our students for the challenges of the profession.

I look forward to continued teamwork from faculty, staff, and students as we strive for excellence in academics, research, and innovation.

FROM THE EDITOR'S DESK



Dr. Sunita Tolani
Assistant Professor

It gives me great pleasure to present this edition of the Civil Engineering Department Newsletter for January 2025 to June 2025. This issue showcases the efforts and accomplishments of our department during an enriching semester. The period was marked by diverse learning opportunities. The Survey Camp, Faculty Development Program (FDP), and workshops helped broaden both academic knowledge and practical skills.

Another proud achievement was the signing of two MoUs: one with HGIEL to launch a Bridge Design Certification Course, and another with the TEXEL Group to promote industry-academia collaboration. These initiatives reflect our commitment to providing students with exposure to real-world applications and career-oriented growth.

I would like to extend my sincere thanks to the Head of Department, faculty members, and student volunteers whose contributions made this newsletter possible. I hope you enjoy reading this edition and take inspiration from the progress we have made.

DEPARTMENTAL ACTIVITIES

MoU Signed Between SKIT and HGIEL to Launch Certification Course on Bridge Design

Swami Keshvanand Institute of Technology (SKIT), Jaipur, and HG Infra Engineering Limited (HGIEL) signed a Memorandum of Understanding (MoU) to launch a joint certificate course focused on bridge design for civil engineering students, under an academic-industrial partnership.

The course is designed to develop a practical understanding of bridge design among civil engineering students, incorporating real-world projects, codes of practice, and modern technologies. The program will include classroom teaching, workshops, site visits, expert sessions, and pre-placement evaluations. This initiative is considered a significant step toward equipping students with industry-relevant practical experience and enhancing their employability. Both SKIT and HGIEL have hailed this collaboration as a landmark academic-institutional partnership, poised to offer a new direction in engineering education and training.



MoU Signed between SKIT and Texel Group

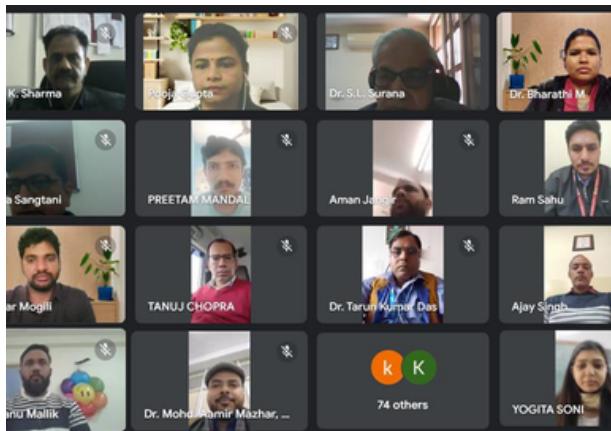
SKIT Jaipur has signed a Memorandum of Understanding (MOU) with Texel Consulting Engineers Pvt. Ltd. to foster industry-academia collaboration in civil engineering. The partnership aims to enhance education, research, and professional development through knowledge-sharing, research projects, internships, and curriculum enhancement. The agreement also includes faculty development initiatives and technical consultancy. The three-year MOU underscores a commitment to bridging academic learning with industry needs, benefiting students and faculty alike.



Faculty Development Programme on 'Smart Cities: Emerging Solutions and Sustainability'

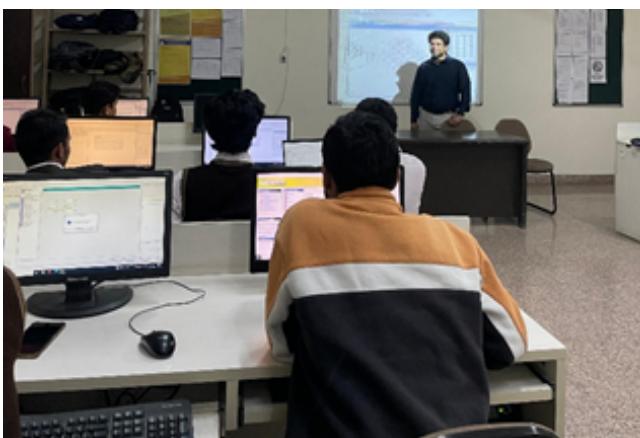
Civil Engineering Department in collaboration with Indian Green Building Council (IGBC) and Indian Concrete Institute (ICI) organized a five-day faculty development Programme from January 27th to 31st, 2025. The FDP covered all aspects of smart city development, including climate resilient design, alternate fuels, sustainable habitat, techniques for ground improvement, IOT applications, and ICT for smart cities, etc.

The online FDP received more than 300 registrations, out of which around 150 participants successfully completed and received their participation certificates. Dr. Pooja Gupta and Dr. Bharathi M were the coordinators of the FDP.



Student Workshop on 'Analysis and Design of Industrial Roof Truss'

A five-day workshop for students on the topic 'Analysis and Design of Industrial Roof Truss' was organized from February 10th to 14th, 2025. During the workshop, students were provided with comprehensive knowledge and practical skills in utilizing Staad-Pro software for structural engineering tasks. The workshop covered various aspects, from basic modelling techniques to advanced analysis and design methodologies. Mr. Ankur Mishra and Dr. Sunita Tolani were the coordinators of the workshop. Mr. Ajay Singh provided technical support in the workshop.



Student Workshop on 'Advanced Geotechnical Testing in Laboratory and Field'

A five-day workshop for students on the topic 'Advanced Geotechnical Testing in Laboratory and Field' was organized from April 1st to 5th, 2025. During the workshop, students were given hands-on experience in performing laboratory (Tri-axial test, California bearing ratio test, and Unconfined Compression Test) and field test (Standard Penetration Test) to estimate important engineering properties of soil encountered in any construction project. Dr. Pooja Gupta and Dr. Bharathi M were the coordinators of the workshop. Mr. Suresh Kumar Yadav provided technical support in the workshop.



Student Workshop on 'River Discharge Estimation using Non-Traditional Techniques'

A five-day workshop for students on the topic 'River Discharge Estimation using Non-Traditional Techniques' was organized from April 15th to 19th, 2025. During the workshop, students were provided with essential skills in Discharge Estimation using Entropy Theory. Dr. Jitendra Kumar Vyas and Dr. Pooja Jain were the coordinators of the workshop.



Survey Camp at Chandwaji, Jaipur

Survey Camp was organised from 28th February to 5th March 2025 for 4th semester students at Pooth ka Bas, Chandwaji, Jaipur. This field training was a vital component of the academic curriculum and aimed to provide students with practical exposure to various surveying techniques, including topographic survey, profiling and cross-section levelling, and contour mapping. The camp allowed students to apply their classroom knowledge in a real-world setting, develop essential technical skills, and understand the challenges encountered during fieldwork. Mr. Ankur Mishra and Mr. Gaurav Gupta coordinated the camp. Ms. Leena Narula, Mr. Prahlad Kumar, and Mr. Suresh Kumar Yadav provided technical support in the camp.



CLUB ACTIVITIES

IGBC STUDENT CHAPTER ACTIVITIES

The IGBC Student Chapter seeks to provide a platform for students to engage with industry stakeholders, promote awareness of green buildings, and inspire young individuals to adopt sustainable practices. To support this initiative, student visits were conducted by Mr. Gaurav Gupta, faculty coordinator of the IGBC Student Chapter.

Student Visit to CII-IGBC Green Rajasthan Summit- 2025

A student visit to participate in CII-IGBC Green Rajasthan Summit 2025 organised on April 16th, 2025 in the Clarks Group of Hotels, Jaipur. The visit was aimed to enhance understanding of sustainable practices and green urban development. Looking forward to applying these learnings and contributing to a greener future.



Webinar Participation

IGBC Student Chapter participated in the webinar "Water Sustainability—Indian Real Estate Scenario," organized by Trimurty Builders on March 22nd, 2025, focused on addressing water conservation challenges in India's real estate sector. Industry experts, policymakers, and urban planners discussed sustainable water management practices, regulatory frameworks, and innovative solutions to promote responsible water use in real estate developments.

NIRMAAN CLUB ACTIVITIES

The NIRMAAN Civil Engineering Club aims to enhance students' experiences in civil engineering and ensure they stay aligned with the latest emerging trends in the field. To achieve this, Dr. Rakesh Choudhary and Mr. Gaurav Gupta, the club coordinators, organized a site visit and expert talks.

Student Visit to a Ready-Mix Concrete (RMC) Plant

A visit to the Ready-Mix Concrete (RMC) plant was held on February 5th, 2025. The objective of the site visit was to provide students a comprehensive understanding of the production process, quality control measures, and operational efficiency involved in manufacturing ready-mix concrete.



Expert Sessions

On April 1st 2025, an expert session was organized on the topic 'Mechanical and Durability Assessment of Hardened Concrete as per Codal Provision' by Dr. Sanjay Mundra - General Manager (NCB, HARYANA). Also, on April 4th 2025, Mr. Manjul Mathur - Ex. General Manager (Rail Coach Factory, Kapurthala) delivered a talk on 'Opportunities in Civil Engineering'.



STANDARDS CLUB ACTIVITIES

The Standards Club aims to educate students about the Bureau of Indian Standards' role in improving quality across services, products, and management. It encourages young talent to enhance their scientific mindset in the fields of quality and standardization. To achieve this, Dr. Pooja Jain, the faculty coordinator of the club,

organized Quality Connect programme and Awareness session.

Quality Connect Programme

A Quality Connect Program was organised from March 18th to 30th to raise awareness among government officers about the importance of quality standards in governance. The event featured presentations, demonstrations of the BIS Care App, interactive discussions, and case studies highlighting the integration of BIS standards in public projects.



Awareness Session

An educational event was organised on April 25, 2025, to promote awareness about standardization. Students from various departments actively participated in interactive activities and competitions that highlighted the importance of standards in daily life and technical fields.



CIVIL ENGINEERING TECHNICAL FORUM (CETF) CLUB ACTIVITIES

CETF club provides a platform for students to enrich their technical knowledge and develop innovative approaches for solutions to civil engineering problems. Mr Sitaram Saini and Mr Nikhil Kumar Sharma, faculty coordinators of the club, organised one day seminar for civil engineering students on April 15th 2025. SaSuTi classes awarded students about career opportunities in Civil Engineering.



FACULTY ACHIEVEMENTS

Papers Published in Journal

Faculty Name	Role	Title	Journal
Dr Abhishek Jain	Author	Optimizing Granite Waste Aggregate Content in Self-Compacting Concrete using Multi-Criteria Decision Approach	Sustainable Chemistry and Pharmacy (Elsevier), 46 (2025) 102093
Dr Kishan Lal Jain	Co-Author	Durability and Microstructural Analysis of Mortar Incorporating Glass Powder and Copper Slag	Jordan Journal of Civil Engineering 19 (2), 179-198
Dr Nishant Sachdeva	Co-Author	Optimizing Granite Waste Aggregate Content in Self-Compacting Concrete using Multi-Criteria Decision Approach	Sustainable Chemistry and Pharmacy (Elsevier), 46 (2025) 102093
Dr Saurabh Singh	Author	Machine learning and deep learning approaches for PM2.5 prediction: a study on urban air quality in Jaipur, India	Earth Science Informatics 18.1 (2025): 97.
Dr Saurabh Singh	Author	Machine learning approach for predicting perfluorooctanesulfonate rejection in efficient nanofiltration treatment and removal	ACS ES&T Water 5.3 (2025): 1216-1228
Dr Saurabh Singh	Co-Author	Application of machine learning models for PM2.5 prediction in Bengaluru using precursor air pollutants and meteorological data	Theoretical and Applied Climatology 156.3 (2025): 1-21.

Paper Presented in Conference

Faculty Name/s	Role	Title	Conference
Dr. Abhishek Jain	Author	Potential application of rubber fiber for development of self-compacting concrete	Amrita Research & Innovation Symposium for Excellence (ARISE)-2025

NPTEL Course Completed

Faculty Name	Course Name	Award
Dr Bharathi M	Natural Hazards	Elite + Silver (Top 2%)
Dr Bharathi M	Disaster Recovery and Build Back Better	Elite + Gold (Top 2%)
Jetender Babulal Jangid	Infrastructure Economics	Elite + Silver (Top 5%)
Dr Jitendra Kumar Vyas	Air Pollution and Control	Elite + Silver
Dr Kishan Lal Jain	Sustainable Engineering Concepts and Life Cycle Analysis	Successfully Completed
Dr Nandini Moondra	Sustainable Engineering Concepts and Life Cycle Analysis	Elite + Silver (Top 5%)
Dr Pooja Jain	Sustainable Engineering Concepts and Life Cycle Analysis	Elite
Dr Sunita Tolani	Natural Hazards	Elite + Silver (Top 5%)
Dr Sunita Tolani	Sustainable Engineering Concepts and Life Cycle Analysis	Elite + Silver (Top 5%)

Expert Talk/ Keynote Lecture/ Conference Panelist

Faculty Name: Dr Abhishek Jain

Title, Date: Ceramic waste-based durable and sustainable self-compacting Concrete, February 25th, 2025

Venue: Sri Balaji College of Engineering & Technology, Jaipur

Faculty Name: Anirudh Mathur

Title, Date: Modernization in Urban Infrastructure, January 24th, 2025

Venue: Techno-build Seminar for City Engineers, Architects, and Contractors (Organizer: JK Cement)

Faculty Name: Anirudh Mathur

Panelist at the Roundtable Conference on Road Safety at VGU, Jaipur

Date: February 5th, 2025

Faculty Name: Dr Nishant Sachdeva

Title, Date: Sustainable Use of Dolomite Overburden in Ground Improvement Applications, February 27th, 2025

Venue: Sri Balaji College of Engineering & Technology, Jaipur

FDP /Workshop Attended

Faculty Name/s	Title	Organised by	Date
Dr. Sunita Tolani	Earthquake vulnerability assessment of dams	MNIT Jaipur	6-10 January, 2025
Dr. Bharathi M.	ATAL FDP on “Holistic Disaster Management: Linking Resilient Infrastructure With Sustainability”	NIT Calicut	20-25 January, 2025
Akash Johari, Dr. Kishan Lal Jain, Dr. Nandini Moondra	Sustainable and Cutting Edge Technologies in Civil Engineering	Lingaya's Vidyapeeth, Haryana	21-29 January, 2025
Dr. Abhishek Jain, Akash Johari, Ankur Mishra, Dr. Kishan Lal Jain, Deepak Sharma, Jetender Babulal Jangid, Dr. Jitendra Kumar Vyas, Dr. Nandini Moondra, Nikhil Kumar Sharma, Dr. Nishant Sachdeva, Pawan Patidar, Dr. Pooja Jain, Sitaram Saini	Smart Cities: Emerging Solutions and Sustainability	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur	27-31 January, 2025
Dr. Abhishek Jain, Akash Johari, Dr. Kishan Lal Jain, Deepak Sharma, Jetender Babulal Jangid, Dr. Jitendra Kumar Vyas, Dr. Nandini Moondra, Nikhil Kumar Sharma, Pawan Patidar	Materials, Methods & Technologies in Civil Engineering	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur	24 February-1 March, 2025
Sitaram Saini, Dr. Kishan Lal Jain	Remote Sensing of Soils: Mapping, Classification, and Evaluation for Agricultural Land Use Planning	Indian Institute of Remote Sensing, Dehradun	3-7 March, 2025
Deepak Sharma, Dr. Kishan Lal Jain, Dr. Sunita Tolani	GIAN Course- Performance-Based Seismic Design for Functional Recovery	MNIT Jaipur	3- 7 March, 2025
Akash Johari, Deepak Sharma, Nikhil Kumar Sharma	Sustainable Construction Approaches and Practices	Poornima College of Engineering, Jaipur	8- 13 March, 2025
Akash Johari, Ankur Mishra, Deepak Sharma, Dr. Jitendra Kumar Vyas, Dr. Nandini Moondra, Nikhil Kumar Sharma, Dr. Pooja Jain, Sitaram Saini	Demystifying Outcome Based Education	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur	24 April - 3 May, 2025

FDP /Workshop Attended

Faculty Name/s	Title	Organised by	Date
Jetender Babulal Jangid	ATAL FDP on AI-Powered Urban Futures: Advancing Sustainability in Smart Cities	Jodhpur Institute of engineering and Technology	06-11 January, 2025
Jetender Babulal Jangid	ATAL FDP on :Smart City Design: Strategy for Sustainable Mobility	D Y Patil Vidyapeeth, Pune	03-08 February, 2025
Anirudh Mathur, Deepak Sharma	Sustainable Material and Construction	IIT Jammu	14-16 February, 2025
Jetender Babulal Jangid	ATAL FDP on Greener Horizons: Energy Efficiency, Sustainability, and Climate Change Solutions	Manav Rachna International Institute of Research and Studies, Haryana	10-15 February, 2025
Dr. Pooja Gupta	Sustainable Engineering for Future Infrastructure	Dream Institute of Technology, Kolkata	11-15 February, 2025
Jetender Babulal Jangid	ATAL's FDP on Green Energy Solutions: Building a Sustainable, Carbon-Neutral World	College of Engineering Muttathara, Kerala	13-18 January, 2025
Pawan Patidar	Ignite Course on Entrepreneurship	Rajasthan Technical University, Kota	21-25 February, 2025

ACHIEVEMENTS OF TECHNICAL STAFF

FDP /Workshop Attended

Name/s	Title	Organised by	Date
Leena Narula, Prahlad Kumar, Suresh Kumar Yadav	Smart Cities: Emerging Solutions and Sustainability	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur	27-31 January, 2025
Prahlad Kumar	Materials, Methods & Technologies in Civil Engineering	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur	24 February-1 March, 2025
Lal Chand Swami, Prahlad Kumar	Sustainable Construction Approaches and Practices	Poornima College of Engineering, Jaipur	8- 13 March, 2025
Ajay Singh, Anil Kumar Somvanshi, Hansraj Meena, Lal Chand Swami, Leena Narula, Pawan Kumar Sharma, Prahlad Kumar, Suresh Kumar Yadav	Code of Conduct & Professional Ethics	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur	22-26 April, 2025
Leena Narula	Demystifying Outcome Based Education	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur	24 April - 3 May, 2025

STUDENT ACHIEVEMENTS

NPTEL Course Completed

Student Name	Year	Course Name	Award
Nupur Singh Chaudhary	IV	Basic Construction Materials	Elite
Sapna meena	IV	Advertising & Promotions Management	Elite
Sapna meena	IV	Business Ethics	Elite + Silver
Seema Lega	IV	Sustainable Engineering Concepts and Life Cycle Analysis	Successfully Completed
Urvashi Gautam	IV	Training and Development	Elite
Aman Mishra	III	Disaster Recovery and Build Back Better	Elite + Gold (Top 2%)
Aman Mishra	III	English language for competitive exams	Elite
Bhavesh Sharma	III	Disaster Recovery and Build Back Better	Elite + Silver
Nupur Agarwal	III	Disaster Recovery and Build Back Better	Elite
Rahul Suthar	III	Development and Applications of Special Concretes	Successfully Completed
Sumit Kumar Meena	III	Structure, Form and Architecture: The Synergy	Elite
Sumit Kumar Meena	III	Learning English in Hindi	Elite + Silver
Wilson Meel	III	Learning English in Hindi	Elite + Silver (Top 5%)
Wilson Meel	III	Structure, Form and Architecture: The Synergy	Successfully Completed
Bhumika Yogi	II	Learning English in Hindi	Elite + Silver (Top 5%)
Divya Sharma	II	Soft Skill Development	Elite
Divya Sharma	II	Concrete Technology	Successfully Completed
Harshini Gupta	II	The Science of Happiness and Wellbeing	Successfully Completed
Harshini Gupta	II	Concrete Technology	Successfully Completed
Lakshya Foujdar	II	Learning English in Hindi	Elite + Silver
Jahnvi Sharma	M.Tech.	Yoga and Positive Psychology for Managing Career and Life	Elite + Silver
Nikhil Panchal	M.Tech.	Yoga and Positive Psychology for Managing Career and Life	Elite + Silver
Yogita Rawat	M.Tech.	Yoga and Positive Psychology for Managing Career and Life	Elite

Sports

Student Name	Year	Event Name	Prize Won
Falguni Pareta	IV	Volleyball, SKIT Annual Sports Fest	2nd Prize



Other Achievements

Student Name	Year	Achievement
Harshini Gupta	II	NPTEL Enthusiast Certificate

Falguni Pareta

Placements

Student Name	Year	Company Name
Priyanshu Prajapat	IV	Varistor Engineering
Yash Mathur	IV	Varistor Engineering
Aditya Poonia	IV	Skipper Limited
Almazim Akhtar	IV	Skipper Limited
Meet Khandelwal	IV	Skipper Limited

ALUMNI ACHIEVEMENTS

Sumek Meena (2017-2021)

Selected as Assistant Provident Fund Commissioner in EPFO (UPSC)

Kanak Sharma (2020-2024)

Gate score 499. Got selected in Earthquake Department, IIT ROORKEE

CREATIVE CORNER

GIVE LIFE A CHANCE

And there I stood
And there I stood shattered near the cliff
A single step, and all would be clear,
No more pain, no more fear.
But as I leaned into the abyss(void)
A question rose—a moment of bliss.
What comes next, if I let go?

A world of silence, none would know.
My loved ones left in grief, in pain,
Their hearts would break, a lasting stain.
Can I not give life one more chance?
To break me again, to test the dance?

To stand once more upon this land,
To feel, to heal, to understand?
Perhaps, one day, I'll return to this place,
With joy in my heart, a smile on my face.
The choice to stay might someday shine,
As the best decision, wholly mine.

Oh God, I pray, please guide me through,
Give me strength, a path anew.
For now, I'll stand and face the fight,
And hold on tight to the flicker of light.

Or maybe one day again,
there I stood, shattered and torn,
By the cliff's edge, fragile, forlorn.
One step away from ending the fight,
but with feeling that I tried.

Kaynat Ansari
VI-A

बचपन के दिन

बचपन के दिन कितने अच्छे थे ,
जब हम छोटे बच्चे थे।
किसी चीज़ की चिंता नहीं थी ,
जो हम कह दे बस वही बात सही थी।
वह मिलकर हम सब दौड़ लगाते थे,
कभी एक, कभी दूसरे दोस्त को घर से बुलाते थे।
कभी डांट के डर से चोट छिपाते थे ,
कभी छुप छुपकर खेलने जाते थे।
पापा के आते ही किताब उठाते थे ,
मम्मी के बुलाते ही खाना खाने बैठ जाते थे।

अब तो वो खेल कहीं गुम हो गए ,
बस मोबाइल ही सब कुछ हो गए।
मोबाइल ने हर रिश्ते को दूर कर दिया,
मोबाइल के बिना हम कुछ नहीं इतना मजबूर कर दिया।

चलो फिर से एक बार वो बचपन जीते हैं,
मोबाइल के बिना ही खाते पीते हैं।
मोबाइल छोड़ेंगे तो फिर से एक बार वो बचपन लौट आएगा,
हर बच्चे का चेहरा फिर से खिलखिलाएगा।

Leena Narula
Technical Assistant



Department of Civil Engineering



SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN

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