Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

A

Report

on

Five-day Faculty Development Program

"Recent Trends in Sustainable Engineering Concepts"

held

on

6th – 10th April 2026

Organized by:

Department of Civil Engineering, SKIT M&G, Jaipur
In collaboration with
Indian Green Building Council (IGBC) & Indian Concrete Institute (ICI)

Index

1. Approval Letter

Department of Civil Engineering, SKIT, Jaipur

Ref: SKIT/CE/2025-26/ 195

Date: 18.04.2025

Sub: Proposed activities such as FDP/Seminar/Conference/Workshop/others for the FY 2025-26

S.No	Types of Event*	Title of Event	Mode of Conduction (Online/offline)	Proposed Date	Name of Coordinator (s)	Any Collaboration	Budget Required
1	Student Workshop (5 days) IV Sem	Hydraulic Workshop for students	Offline	April, 2025	Dr. Pooja Jain & Dr. J K Vyas	NA	7000
2	Expert Talks (08 Nos)	Expert talks by renowned academicians and industry experts	Offline	Round the year	Dr Nishant Sachdeva	NA	30000
3	Student Workshop (5 days)	Etabs: Building Analysis and Design	Offline	September 2025	Dr. Sunita Tolani & Ankur Mishra	NA	7000
4	Student Workshop (5 days)	Ms-Excel Workshop	Offline	September, 2025	Dr. Pooja Jain & Dr. J K Vyas	NA	7000
5	Student Workshop (5 days)	Advanced testing of construction products	Offline	October 2025	Dr. Abhishek Jain & Dr. Rakesh Choudhary	NA	10000
6	Survey camp	Survey camp at Chandwagi for 3rd semester students	Field activity (offline)	Oct/Nov 2025	Course faculties of Surveying	NA	5,000
7	Student Workshop (5 days)	Staad Pro: Design of Industrial Trusses	Offline	Jan 2026	Ankur Mishra & Dr. Sunita Tolani	NA	7000
8	FDP	Faculty Development Programme	Online	January 2026	Dr. Pooja Gupta & Dr. Bharthi M.	NA	30000
9	Student Workshop (5 days)	Advanced training in Geotechnical Engineering	Offline	March 2026	Dr. Pooja Gupta & Dr. Bharthi M.	NA	10000
10	Student Workshop (5 days)	Workshop on River Discharge for students	Offline	March, 2026	Dr. Pooja Jain & Dr. J K Vyas	NA	7000
11	International Conference	Research advancements in Sustainable Construction Materials	Hybrid	Mar-26	Dr Nishant Sachdeva/Dr KL Jain	NA	150000
						Total	270000

Recommended for kind approval
Nurkeeya.

Principal yes permitted

HoD-CE
18.04.2025

SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN, JAIPUR-302017
(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

DEPARTMENT OF CIVIL ENGINEERING

20.03.2026

The Principal

SKIT, M&G

Jaipur

Sub: To approve the remuneration for speakers of the FDP

Respected Sir,

With due regards, we wish to inform you that we want to conduct a FDP (online) on "Recent Trends in Sustainable Engineering Concepts" from 6th to 10th April, 2026. Already an amount of **Rs. 30,000/-** has been approved in the annual budget for the FDP (kindly find attached the budget approved). We kindly request you to grant permission for conducting the FDP and provide the remuneration amount of **Rs. 24,000/-** (Rs. 3000/- per person for 8 speakers).

Thanking You.

With best regards,

Dr. Pooja Gupta
Associate Professor
Co-ordinator

Dr. Bharathi M.
Associate Professor
Organizing Secretary

2. Brochure of the Event

FDP Committee

Patrons
Sh. Raja Ram Meel, Patron, SKIT
Sh. Surja Ram Meel, Chairman, SKIT

Advisory Committee
Shri Jaipal Meel, Director, SKIT M&G
Prof. S. L. Surana, Director (Academics),
Mrs. Rachna Meel, Registrar
Prof. Ramesh Kumar Pachar, Principal
Prof. R.K.Jain, Dean
Prof. B.L. Sharma, HoD (CE)
Prof. D.K. Sharma, CE
Prof. Virendra S. Sangtani, Head (OFA)
Prof. Neha Purohit, Head (OSA)
Dr. Ankush Tandon, HoD (EE)
Prof. Mehul Mahrishi, HoD (CSE)
Prof. Praveen K. Jain, HoD (ECE)
Dr. Vipin Jain, HoD (IT)
Prof. Dheeraj Joshi, HoD (ME)
Prof. Sangeeta Choudhary, I/c, I Year
Prof. Pramila Kumawat, HoD (Math.)
Dr. Swati Joshi, HoD (Chemistry)
Prof. Rishi Vyas, HoD (Physics)
Dr. Anupriya Singh, HoD (English)
Dr. Savita Choudhary, HoD (DMS)

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Contact No.: +91-9001802752

Organizing Committee
Dr. Kishan Lal Jain, Associate Professor
Mr. Akash Johari, Assistant Professor
Mr. Ankur Mishra, Assistant Professor

Registration

5 – Day Faculty Development Program
On

"Recent Trends in Sustainable Engineering Concepts"

6th April-10th April 2026

To join the FDP, you need to register by clicking on the registration link or scanning the QR Code:

https://erp.skit.ac.in/register/r/rtsec26

Registration Fee: ₹100

Note:

- The FDP will be conducted through online platform "Google Meet".
- Link to join the session will be provided on participant's registered e-mail id.
- Participants with at least 75% attendance and who have submitted their feedback will receive an e-certificate.

CONTACT US

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DEPARTMENT OF CIVIL ENGINEERING

SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN, JAIPUR
(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)
(www.skit.ac.in)
is organizing

5 – Day Faculty Development Program
on

"Recent Trends in Sustainable Engineering Concepts"

6th April-10th April 2026
(Online Mode)

In Collaboration with

Indian Green Building Council (IGBC)

Indian Concrete Institute (ICI)

About the Institute

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) inspired by the learning's of Swami Keshvanand ji, was established in the year 2000 by the Technocrats and Managers Society for Advanced Learning. Today the institute is recognized as one of the center of academic excellence in Northern India. The Institute is affiliated with Rajasthan Technical University, Kota and offers Doctorate, Postgraduate and Graduate Courses in Engineering and Management. The institute has been Ranked No. 1 Engineering College in Rajasthan for the consecutive seven times as declared by Rajasthan Technical University (RTU), Kota. Institute has accredited with NAAC A++ grade (3.65 CGPA/4.00). Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry–Institute Interface.

Department of Civil Engineering

The Department of Civil Engineering was established in 2011-2012 session. Civil Engineering Program is accredited by National Board of Accreditation (NBA). The Department of Civil Engineering offers B.Tech. program in Civil Engineering and M. Tech. program in Transportation Engineering and Structural Engineering. Civil Engineering Department provides consultancy services on various technical issues to government engineering departments, private organizations and society. A team of experienced faculty members having excellent research credentials as well as industrial experience supports the department. The Department is also running a Centre of Excellence (CoE) in Transportation Engineering recognised by our parent university (RTU) which provides training to government officials, professionals, research scholars and students. Department is having active student chapters of Indian Concrete Institute (ICI), Indian Green Building Council (IGBC) and Bureau of Indian Standards (Standards Club).

About the FDP

Sustainable engineering is increasingly centered around **net-zero and carbon-neutral design**, where industries aim to minimize greenhouse gas emissions throughout a product's lifecycle. **Green materials** such as bio-composites and recycled polymers are replacing traditional resources to reduce environmental impact. The growing adoption of **renewable energy integration**, especially solar and wind systems with smart grids, is redefining power engineering. Concepts like **circular economy** and **life-cycle assessment (LCA)** are now essential in design strategies to promote reuse and waste reduction. Additionally, **digital tools and AI-driven optimization** are being leveraged to enhance energy efficiency and resource management in infrastructures, making sustainability a core pillar of modern engineering practice.

Invited Speakers

- Dr. Nitin Goyal, Principal Scientist and Head, CSIR-NEERI, Mumbai Zonal Centre, Mumbai
- Dr. Parvathi G.S., Principal Scientist, Geotechnical Engineering, Central Road Research Institute (CRRI), New Delhi
- Dr. Sandeep Shrivastava, Associate Professor, Department of Civil Engineering, MNIT, Jaipur
- Dr. Meghna Sharma, Assistant Professor, Department of Civil Engineering, National Institute of Technology Hamirpur
- Dr. Meena Kumari Sharma, Professor, Department of Civil Engineering, Manipal University, Jaipur
- Dr. Adil Ahmad, Associate Professor, Department of Architecture, Jamia Millia Islamia, New Delhi
- Dr. Rupak Roy, Vice President (Research & Development) at SHRM Biotechnologies Pvt. Ltd.
- Dr. Avinash Ojha, Associate Professor, Civil Engineering, Sir Padampat Singhania University (SPSU), Udaipur
- Dr. Dinesh Kumar Sharma, Associate Professor, Department of Mechanical Engineering, SKIT M&G, Jaipur
- Dr. D.K. Sharma, Professor, Department of Civil Engineering, SKIT M&G, Jaipur

Target Audience

The FDP is interdisciplinary and is open for faculty members of all disciplines from various institutions, research scholars, practicing engineers and scientists.

3. Schedule of the Event

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

Department of Civil Engineering

5 Day Faculty Development Program
on
Recent Trends in Sustainable Engineering Concepts

Schedule

Date/ Timing	09:30 to 11:00	12:30 to 14:00
06-04-2026	**Inauguration** **Session 1** **Road construction with Geonaturals** **Dr. Parvathi G.S.** Principal Scientist, Geotechnical Engineering, Central Road Research Institute (CRRI),	**Session 2** **Circularity in Construction: Challenges and Opportunities** **Dr. Sandeep Shrivastava** Associate Professor, Department of Civil Engineering, MNIT Jaipur
07-04-2026	**Session 3** **Implementation of Nature-Based Solutions for Ground Improvement** **Dr. Meghna Sharma** Assistant Professor, Department of Civil Engineering, NIT Hamirpur	**Session 4** **AI-Driven Strength Prediction of Fly Ash Based Geopolymer Concrete** **Dr. Avinash Ojha** Associate Professor, Civil Engineering, Sir Padampat Singhania University (SPSU), Udaipur
08-04-2026	**Session 5** **Data Driven Experimental Design: Moving Beyond Trial and Error with RSM-BBD** **Dr. Rupak Roy** Vice President (Research & Development) at SHRM Biotechnologies Pvt. Ltd	**Session 6** **Sustainable Road Construction Practices** **Dr. D.K. Sharma** Professor, Department of Civil Engineering, SKIT M&G, Jaipur
09-04-2026	**Session 7** **Net Zero Buildings** **Dr. Dinesh Kumar Sharma** Associate Professor, Department of Mechanical Engineering, SKIT M&G, Jaipur	**Session 8** **Sustainable Cities: A perspective on Air Quality Management** **Dr. Nitin Goyal** Principal Scientist and Head, CSIR-NEERI, Mumbai Zonal Centre, Mumbai
10-04-2026	**Session 9** **Sustainable, Safe, Alternate and Innovative Construction Systems for Housing** **Dr. Adil Ahmad** Associate Professor, Department of Architecture, Jamia Millia Islamia, New Delhi	**Session 10** **Sustainable Water Supply and Wastewater Treatment Technologies** **Dr. Meena Kumari Sharma** Professor, Department of Civil Engineering, Manipal University, Jaipur Valedictory

4. List of Participants (Outside SKIT)

S. No.	Name	Designation	Department	College/Institute/University	Email	Phone
1	Abdullah Aiman	Assistant Professor	Civil Engineering	University of Lucknow	ceabdullah2012@gmail.com	6394797422
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10	Dr. Ashish Solanki	Assistant Professor	Civil Engineering	Poornima University, Jaipur	ashish.solanki@poornima.edu.in	7737625225
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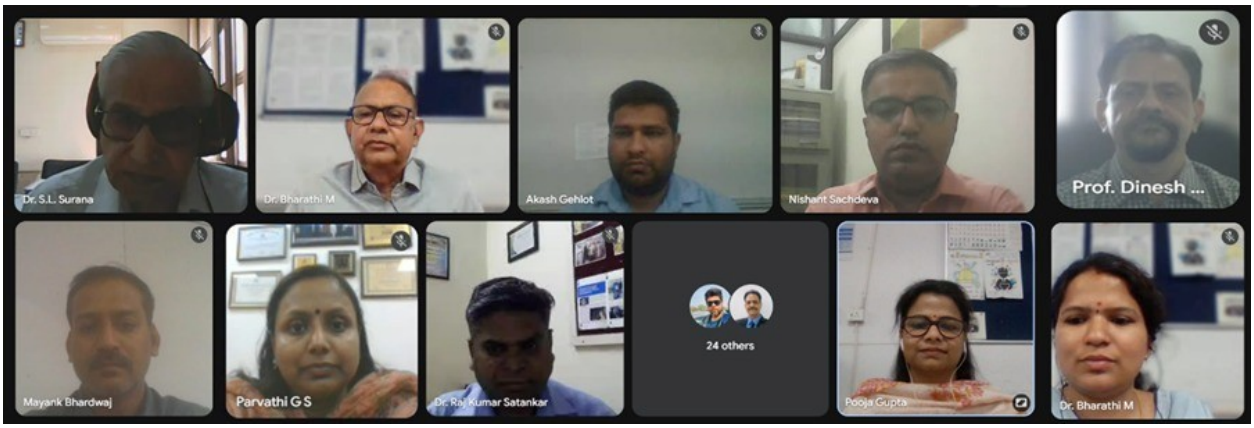
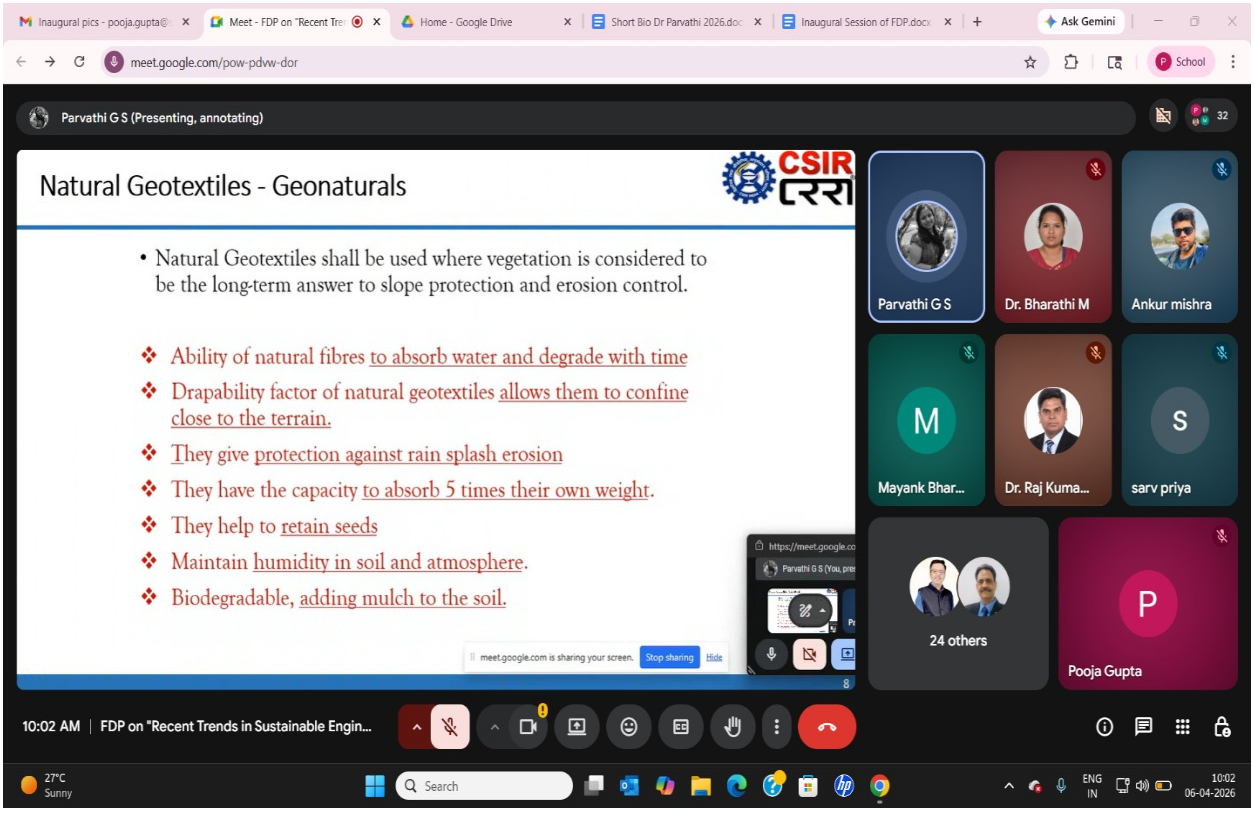
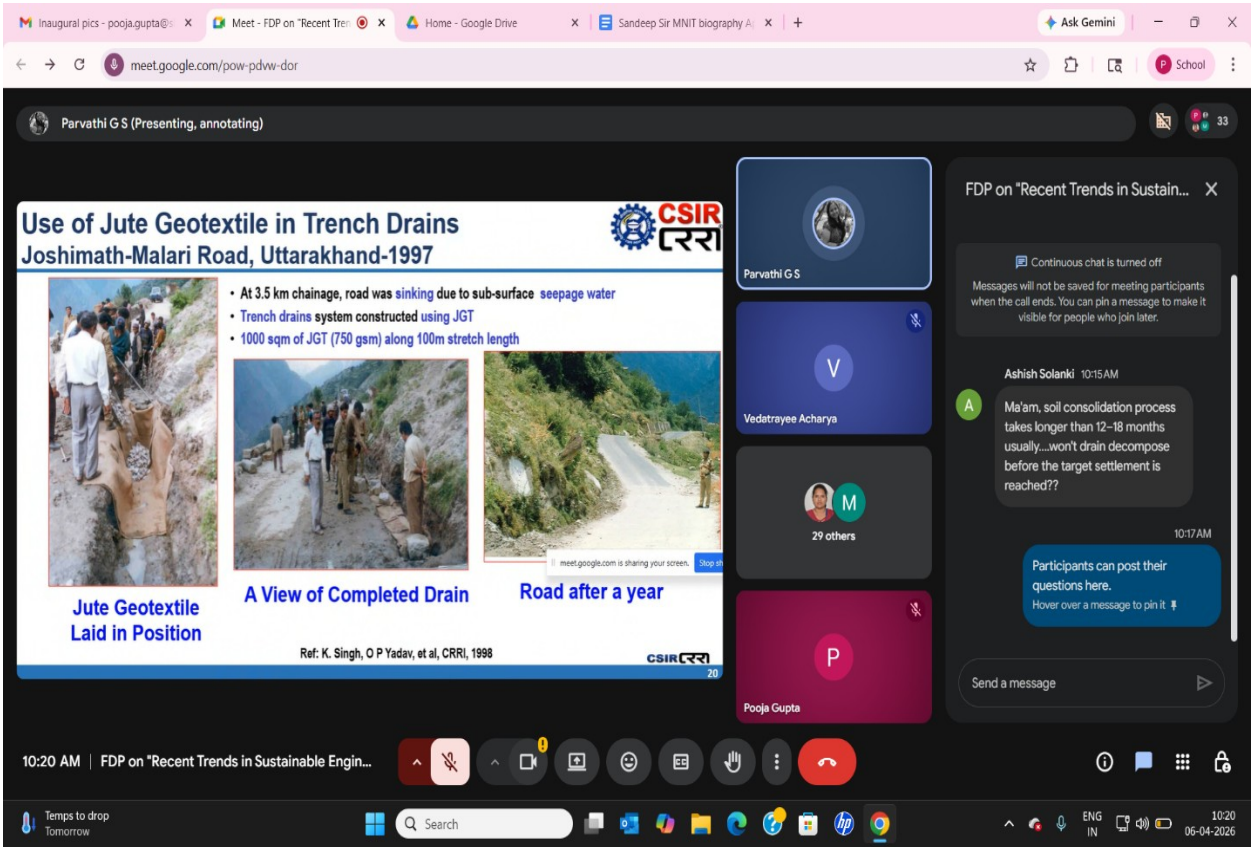
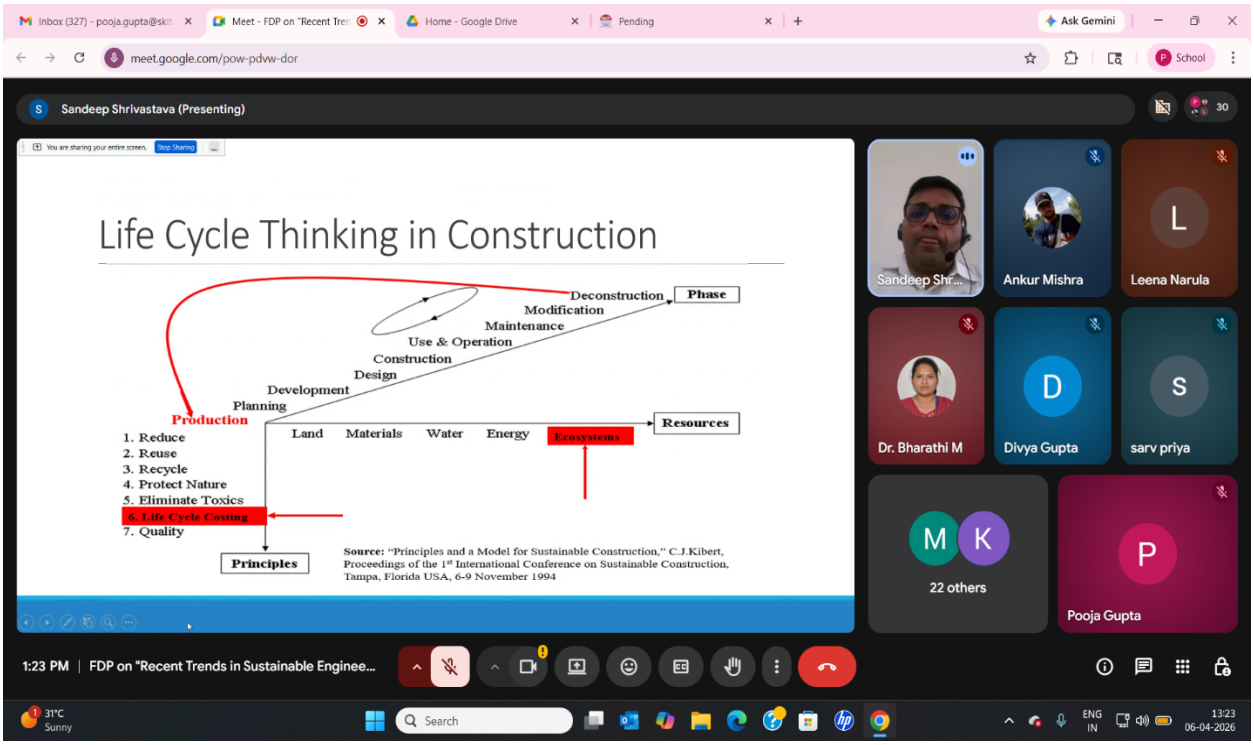
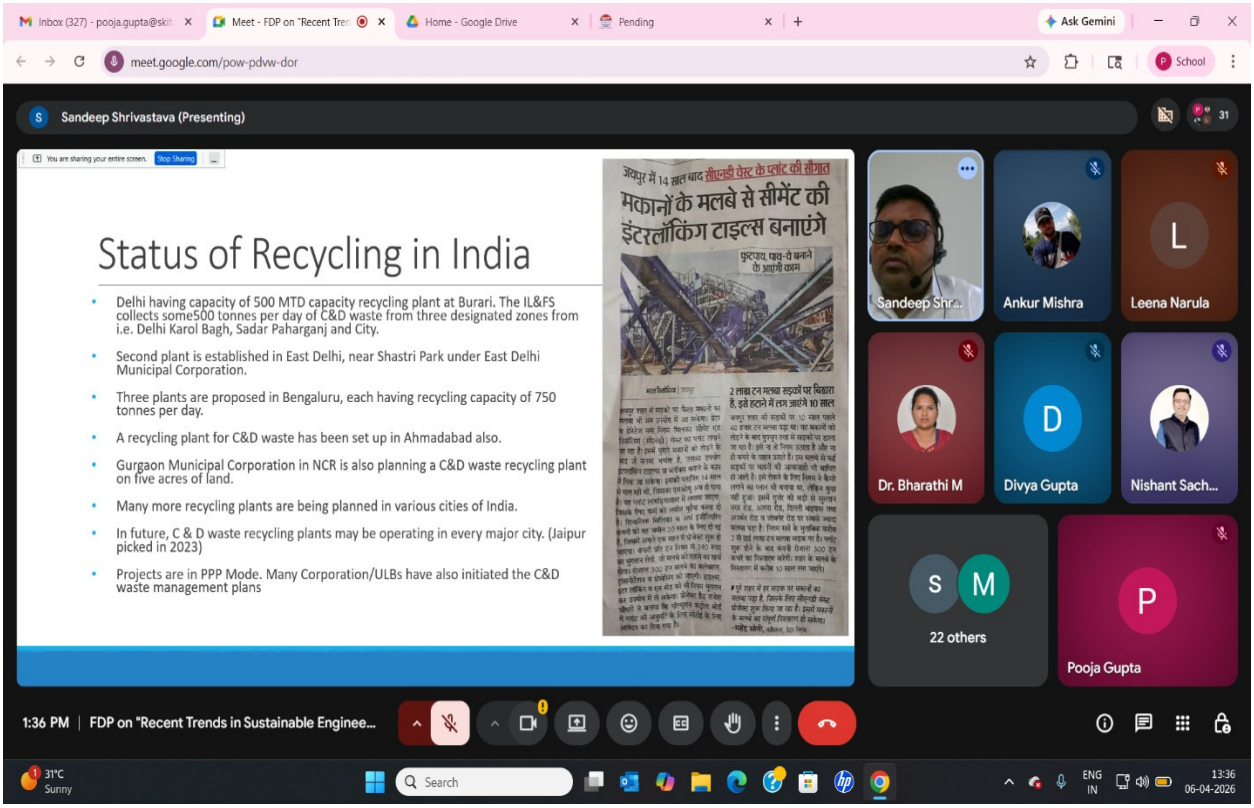
5. Photographs/Screenshots of the Event

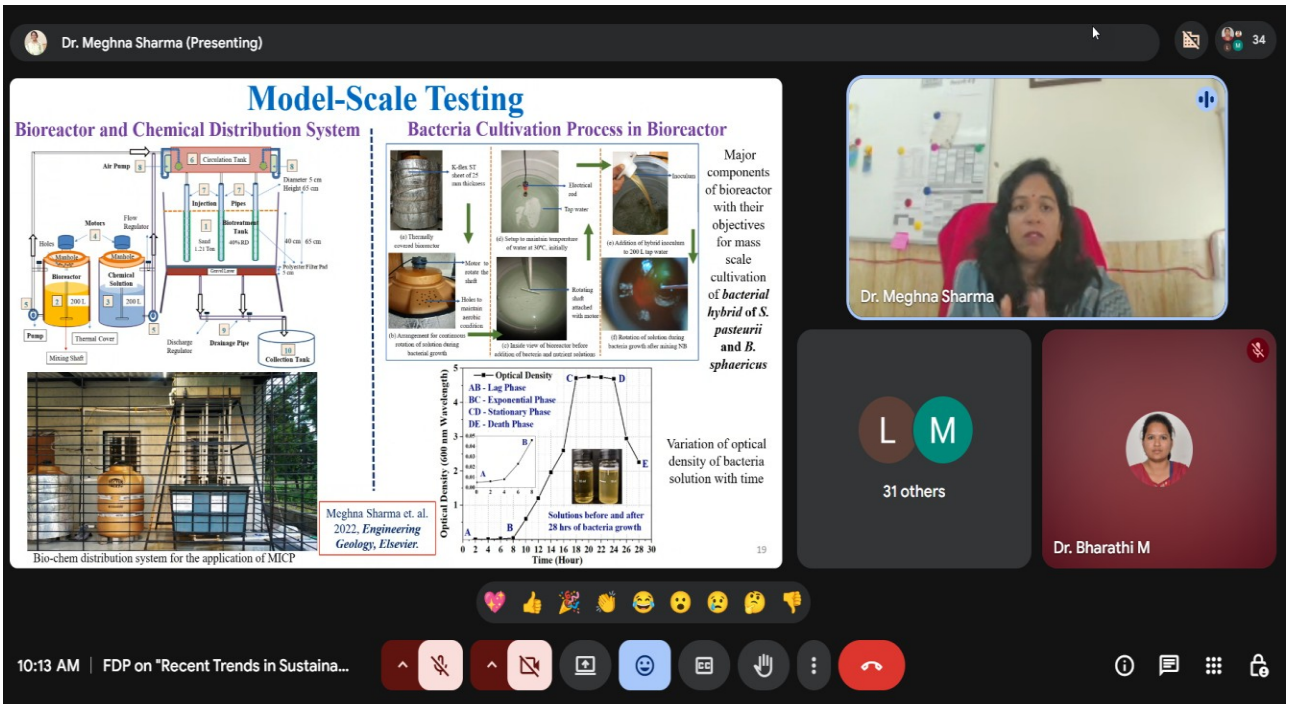


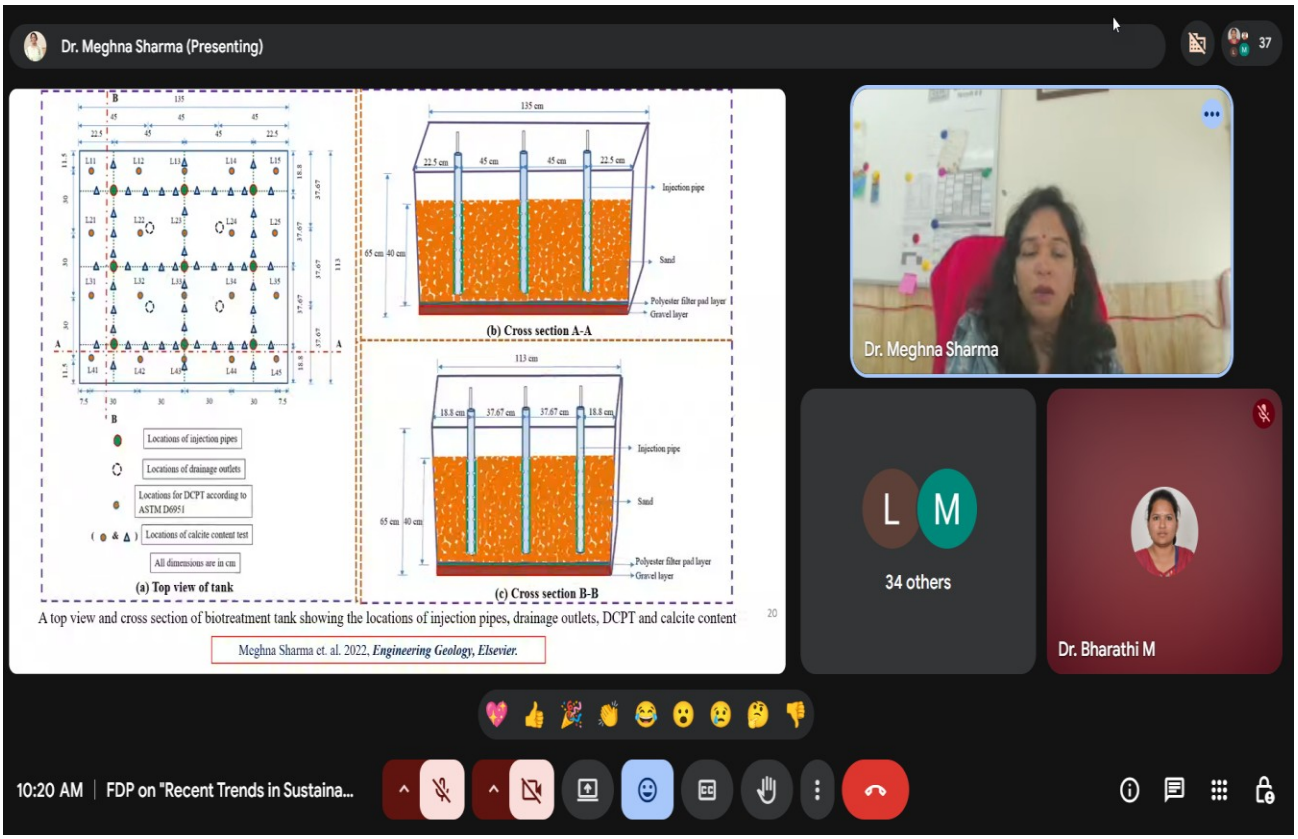


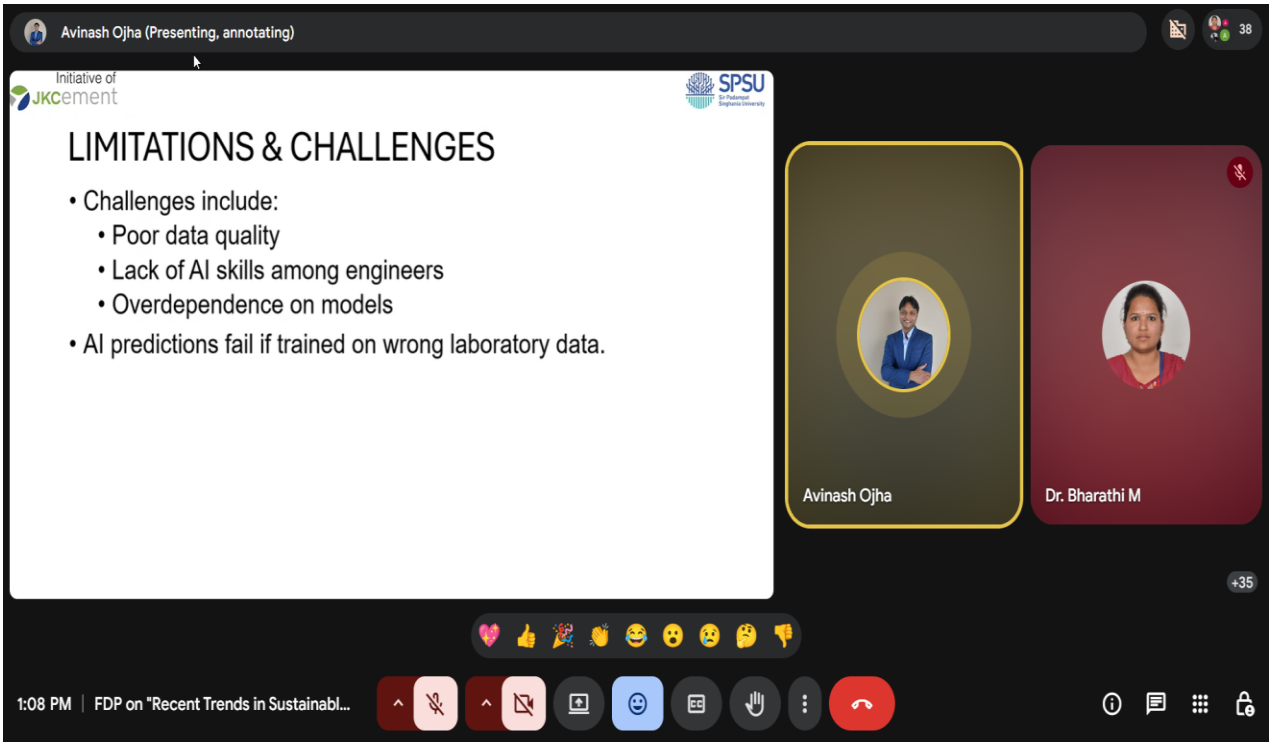

Parvathi G S (Presenting, annotating)
Use of Jute Geotextile in Trench Drains
Joshimath-Malari Road, Uttarakhand-1997
CSIR CRRI
• At 3.5 km chainage, road was sinking due to sub-surface seepage water
• Trench drains system constructed using JGT
• 1000 sqm of JGT (750 gsm) along 100m stretch length
Jute Geotextile Laid in Position
A View of Completed Drain
Road after a year
Ref: K. Singh, O P Yadav, et al, CRRI, 1998
Parvathi G S
Vedatrayee Acharya
29 others
Pooja Gupta
FDP on "Recent Trends in Sustain...
Continuous chat is turned off
Messages will not be saved for meeting participants when the call ends. You can pin a message to make it visible for people who join later.
Ashish Solanki 10:15AM
Ma'am, soil consolidation process takes longer than 12–18 months usually....won't drain decompose before the target settlement is reached??
10:17AM
Participants can post their questions here.
Hover over a message to pin it
Send a message
10:20 AM | FDP on "Recent Trends in Sustainable Engin...

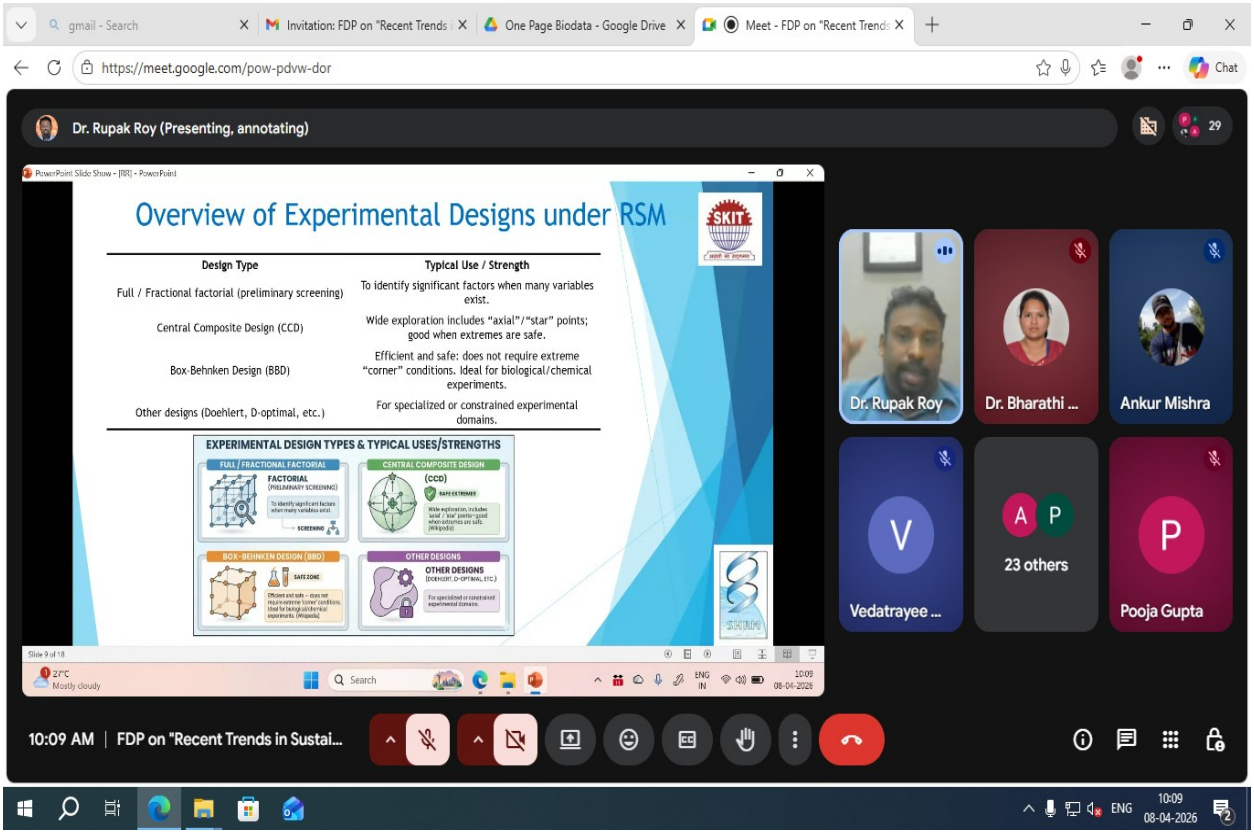

Sandeep Shrivastava (Presenting)
Life Cycle Thinking in Construction
Deconstruction
Modification
Maintenance
Use & Operation
Construction
Design
Development
Planning
Production
Phase
Land
Materials
Water
Energy
Ecosystems
Resources
1. Reduce
2. Reuse
3. Recycle
4. Protect Nature
5. Eliminate Toxics
6. Life Cycle Costing
7. Quality
Principles
Source: "Principles and a Model for Sustainable Construction," C.J.Kibert, Proceedings of the 1st International Conference on Sustainable Construction, Tampa, Florida USA, 6-9 November 1994
Sandeep Shr...
Ankur Mishra
Leena Narula
Dr. Bharathi M
Divya Gupta
sarv priya
22 others
Pooja Gupta
1:23 PM | FDP on "Recent Trends in Sustainable Enginee...

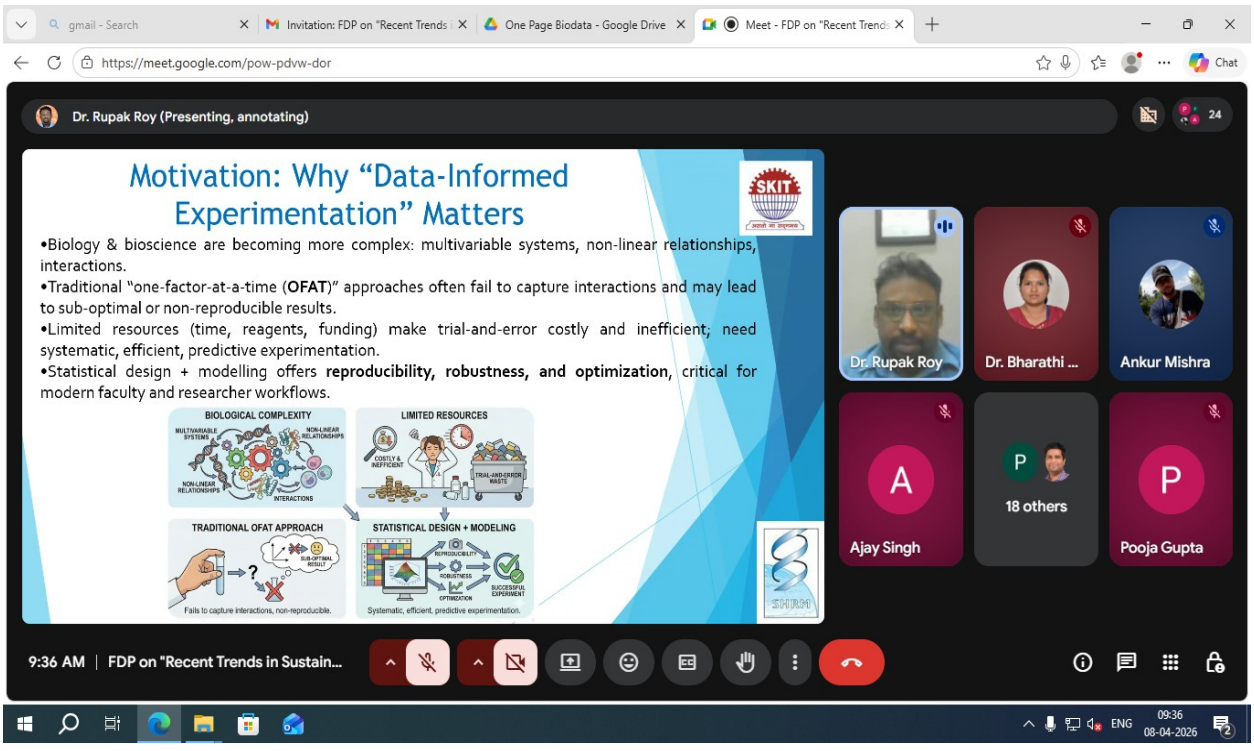

Sandeep Shrivastava (Presenting)
Status of Recycling in India
Delhi having capacity of 500 MTD capacity recycling plant at Burari. The IL&FS collects some500 tonnes per day of C&D waste from three designated zones from i.e. Delhi Karol Bagh, Sadar Paharganj and City.
Second plant is established in East Delhi, near Shastri Park under East Delhi Municipal Corporation.
Three plants are proposed in Bengaluru, each having recycling capacity of 750 tonnes per day.
A recycling plant for C&D waste has been set up in Ahmadabad also.
Gurgaon Municipal Corporation in NCR is also planning a C&D waste recycling plant on five acres of land.
Many more recycling plants are being planned in various cities of India.
In future, C & D waste recycling plants may be operating in every major city. (Jaipur picked in 2023)
Projects are in PPP Mode. Many Corporation/ULBs have also initiated the C&D waste management plans
मकानों के मलबे से सीमेंट की इंटरलॉकिंग टाइल्स बनाएंगे
Sandeep Shr...
Ankur Mishra
Leena Narula
Dr. Bharathi M
Divya Gupta
Nishant Sach...
22 others
Pooja Gupta
1:36 PM | FDP on "Recent Trends in Sustainable Enginee...

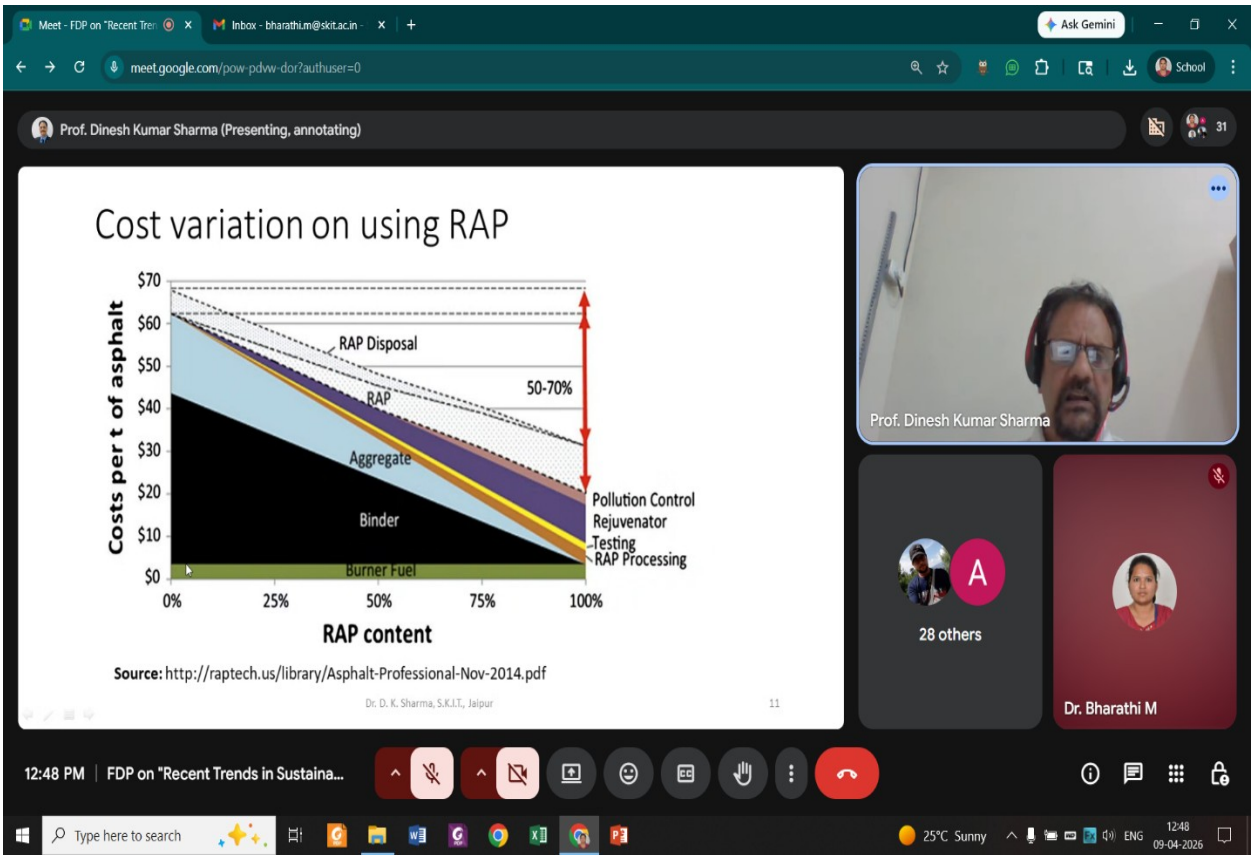

Dr. Meghna Sharma (Presenting)
Model-Scale Testing
Bioreactor and Chemical Distribution System
Bacteria Cultivation Process in Bioreactor
Major components of bioreactor with their objectives for mass scale cultivation of bacterial hybrid of S. pasteurii and B. sphaericus
Variation of optical density of bacteria solution with time
Meghna Sharma et. al. 2022, Engineering Geology, Elsevier.
Bio-chem distribution system for the application of MICP
Dr. Meghna Sharma
31 others
Dr. Bharathi M
10:13 AM | FDP on "Recent Trends in Sustaina...

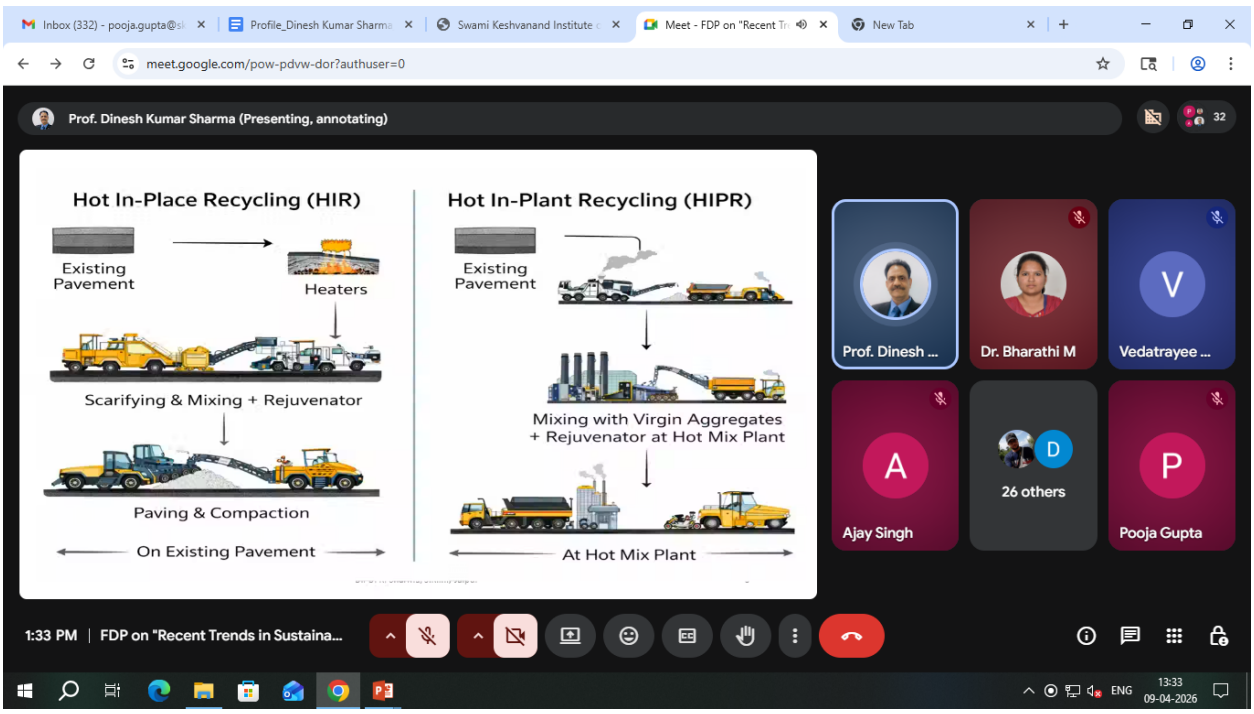

Dr. Meghna Sharma (Presenting)
37
Locations of injection pipes
Locations of drainage outlets
Locations for DCPT according to ASTM D6951
Locations of calcite content test
All dimensions are in cm
(a) Top view of tank
(b) Cross section A-A
(c) Cross section B-B
Injection pipe
Sand
Polyester filter pad layer
Gravel layer
A top view and cross section of biotreatment tank showing the locations of injection pipes, drainage outlets, DCPT and calcite content
Meghna Sharma et. al. 2022, Engineering Geology, Elsevier.
Dr. Meghna Sharma
L
M
34 others
Dr. Bharathi M
10:20 AM | FDP on "Recent Trends in Sustaina...


Avinash Ojha (Presenting, annotating)
38
Initiative of JKCement
SPSU
LIMITATIONS & CHALLENGES
• Challenges include:
• Poor data quality
• Lack of AI skills among engineers
• Overdependence on models
• AI predictions fail if trained on wrong laboratory data.
Avinash Ojha
Dr. Bharathi M
+35
1:08 PM | FDP on "Recent Trends in Sustainabl...

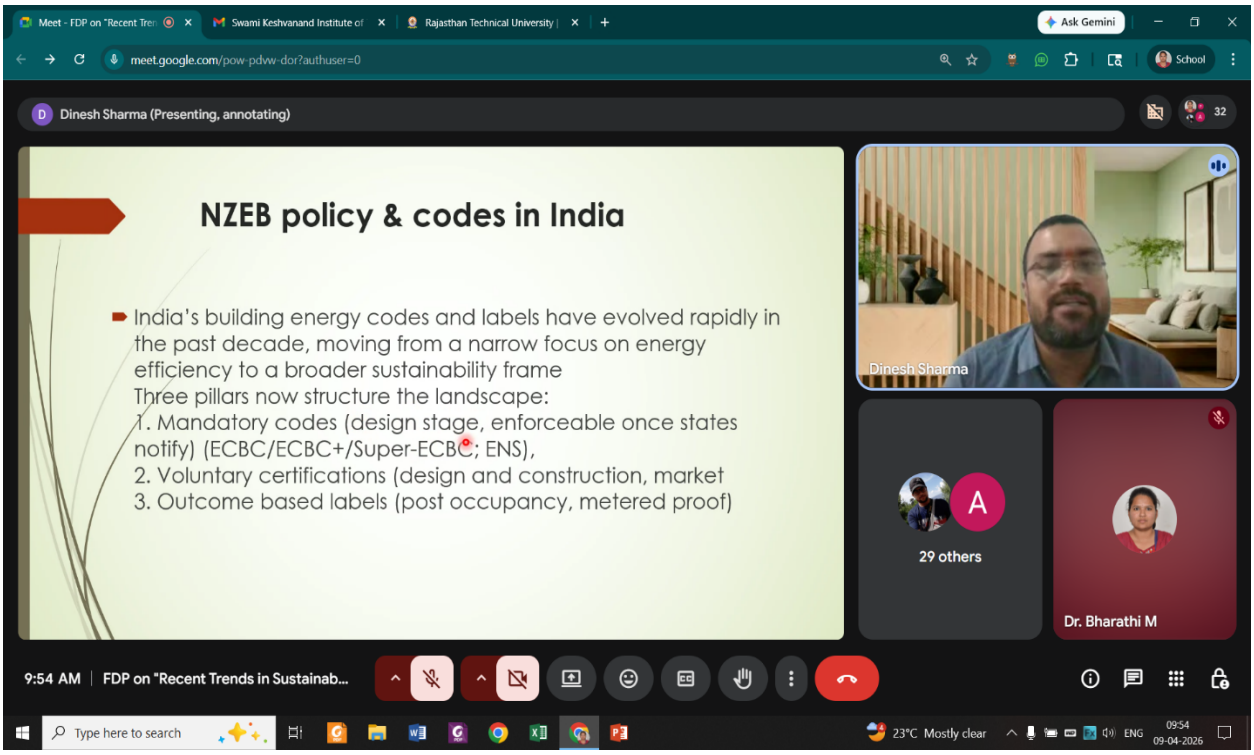

Dr. Rupak Roy (Presenting, annotating)
Overview of Experimental Designs under RSM
Design Type
Typical Use / Strength
Full / Fractional factorial (preliminary screening)
To identify significant factors when many variables exist.
Central Composite Design (CCD)
Wide exploration includes "axial"/"star" points; good when extremes are safe.
Box-Behnken Design (BBD)
Efficient and safe: does not require extreme "corner" conditions. Ideal for biological/chemical experiments.
Other designs (Doehlert, D-optimal, etc.)
For specialized or constrained experimental domains.
EXPERIMENTAL DESIGN TYPES & TYPICAL USES/STRENGTHS
FULL / FRACTIONAL FACTORIAL
CENTRAL COMPOSITE DESIGN
BOX-BEHNKEN DESIGN (BBD)
OTHER DESIGNS
Dr. Rupak Roy
Dr. Bharathi ...
Ankur Mishra
Vedatrayee ...
23 others
Pooja Gupta
10:09 AM | FDP on "Recent Trends in Sustai...


Dr. Rupak Roy (Presenting, annotating)
Motivation: Why "Data-Informed Experimentation" Matters
•Biology & bioscience are becoming more complex: multivariable systems, non-linear relationships, interactions.
•Traditional "one-factor-at-a-time (OFAT)" approaches often fail to capture interactions and may lead to sub-optimal or non-reproducible results.
•Limited resources (time, reagents, funding) make trial-and-error costly and inefficient; need systematic, efficient, predictive experimentation.
•Statistical design + modelling offers reproducibility, robustness, and optimization, critical for modern faculty and researcher workflows.
BIOLOGICAL COMPLEXITY
LIMITED RESOURCES
TRADITIONAL OFAT APPROACH
STATISTICAL DESIGN + MODELING
Dr. Rupak Roy
Dr. Bharathi ...
Ankur Mishra
Ajay Singh
18 others
Pooja Gupta
9:36 AM | FDP on "Recent Trends in Sustain...


Prof. Dinesh Kumar Sharma (Presenting, annotating)
Cost variation on using RAP
Costs per t of asphalt
$70
$60
$50
$40
$30
$20
$10
$0
RAP Disposal
RAP
50-70%
Aggregate
Binder
Burner Fuel
Pollution Control
Rejuvenator
Testing
RAP Processing
0%
25%
50%
75%
100%
RAP content
Source: http://raptech.us/library/Asphalt-Professional-Nov-2014.pdf
Prof. Dinesh Kumar Sharma
28 others
Dr. Bharathi M
12:48 PM | FDP on "Recent Trends in Sustaina...


Prof. Dinesh Kumar Sharma (Presenting, annotating)
Hot In-Place Recycling (HIR)
Existing Pavement
Heaters
Scarifying & Mixing + Rejuvenator
Paving & Compaction
On Existing Pavement
Hot In-Plant Recycling (HIPR)
Existing Pavement
Mixing with Virgin Aggregates + Rejuvenator at Hot Mix Plant
At Hot Mix Plant
Prof. Dinesh ...
Dr. Bharathi M
Vedatrayee ...
Ajay Singh
26 others
Pooja Gupta
1:33 PM | FDP on "Recent Trends in Sustaina...


Meet - FDP on "Recent Tren
Swami Keshvanand Institute of
Ask Gemini
meet.google.com/pow-pdvw-dor?authuser=0
School
Dinesh Sharma (Presenting, annotating)
30
Building energy efficiency
NZEB designs
Option 0
Building energy efficiency
Design of building
Efficient behavior
NZEB
Efficient control
Efficient HVAC
Efficient appliance
Option 1
Generation on building energy efficiency
Renewable energy
Utility grids
NZEB
Option 2
On-site generation from on-site renewables (eg: sun, wind)
Renewable energy
Utility grids
NZEB
Option 3
On-site generation from off-site renewables
Landfill gas
Garbage
Micro generation
Biomass
Utility grids
Option 4
Off-site supply (eg: Investment or purchasing renewable electricity)
Green power
Renewable energy
Are you talking? Your mic is off.
Pause this notification
Dinesh Sharma
A
27 others
Dr. Bharathi M
9:51 AM | FDP on "Recent Trends in Sustainabl...
Type here to search
23°C Mostly clear
ENG
09:51
09-04-2026


Meet - FDP on "Recent Tren
Swami Keshvanand Institute of
Rajasthan Technical University
Ask Gemini
meet.google.com/pow-pdvw-dor?authuser=0
School
Dinesh Sharma (Presenting, annotating)
32
NZEB policy & codes in India
India's building energy codes and labels have evolved rapidly in the past decade, moving from a narrow focus on energy efficiency to a broader sustainability frame
Three pillars now structure the landscape:
1. Mandatory codes (design stage, enforceable once states notify) (ECBC/ECBC+/Super-ECBC; ENS),
2. Voluntary certifications (design and construction, market
3. Outcome based labels (post occupancy, metered proof)
Dinesh Sharma
A
29 others
Dr. Bharathi M
9:54 AM | FDP on "Recent Trends in Sustainab...
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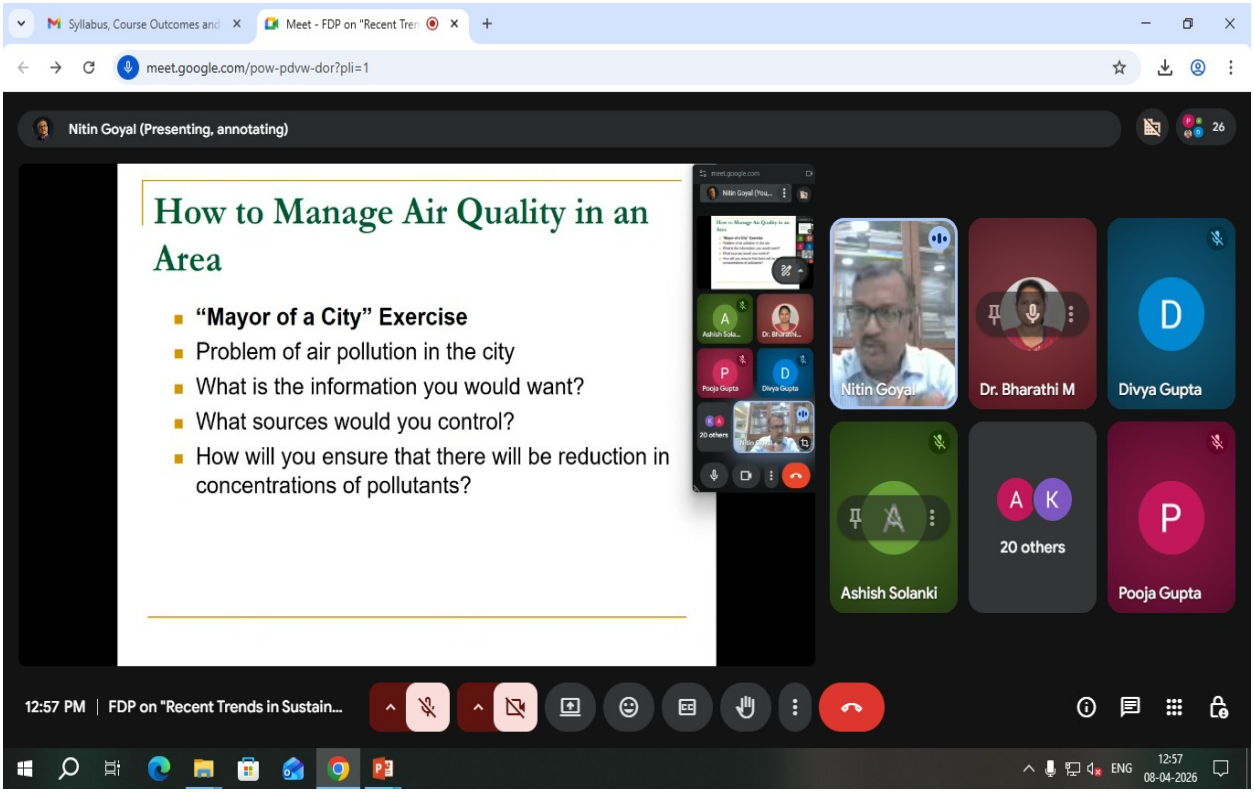
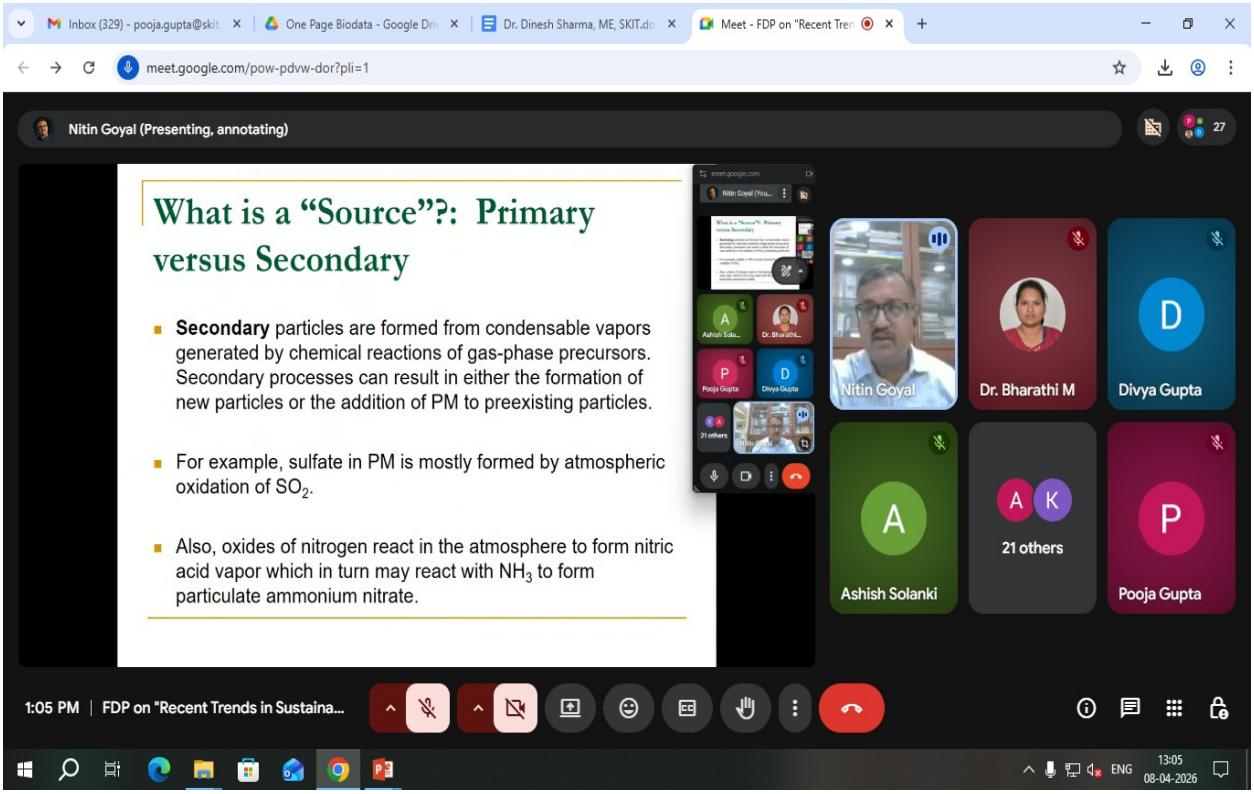
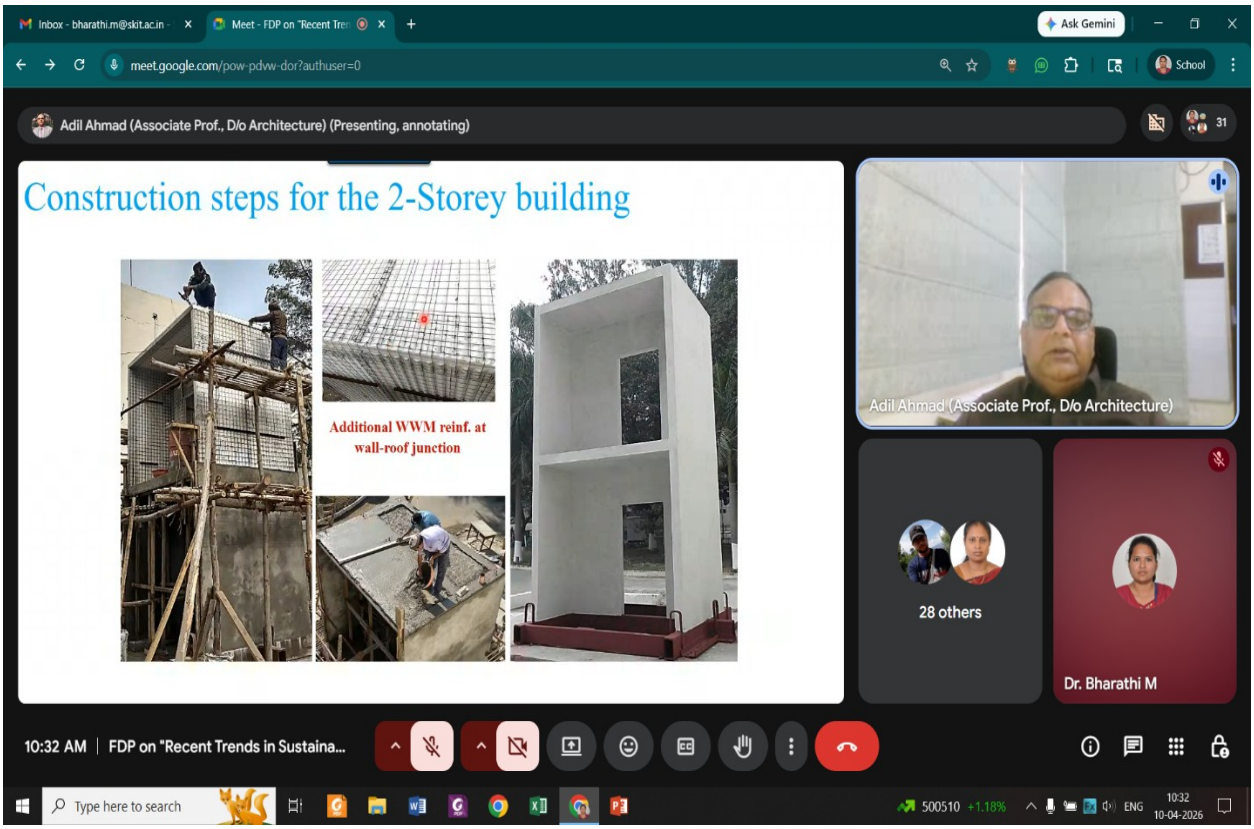
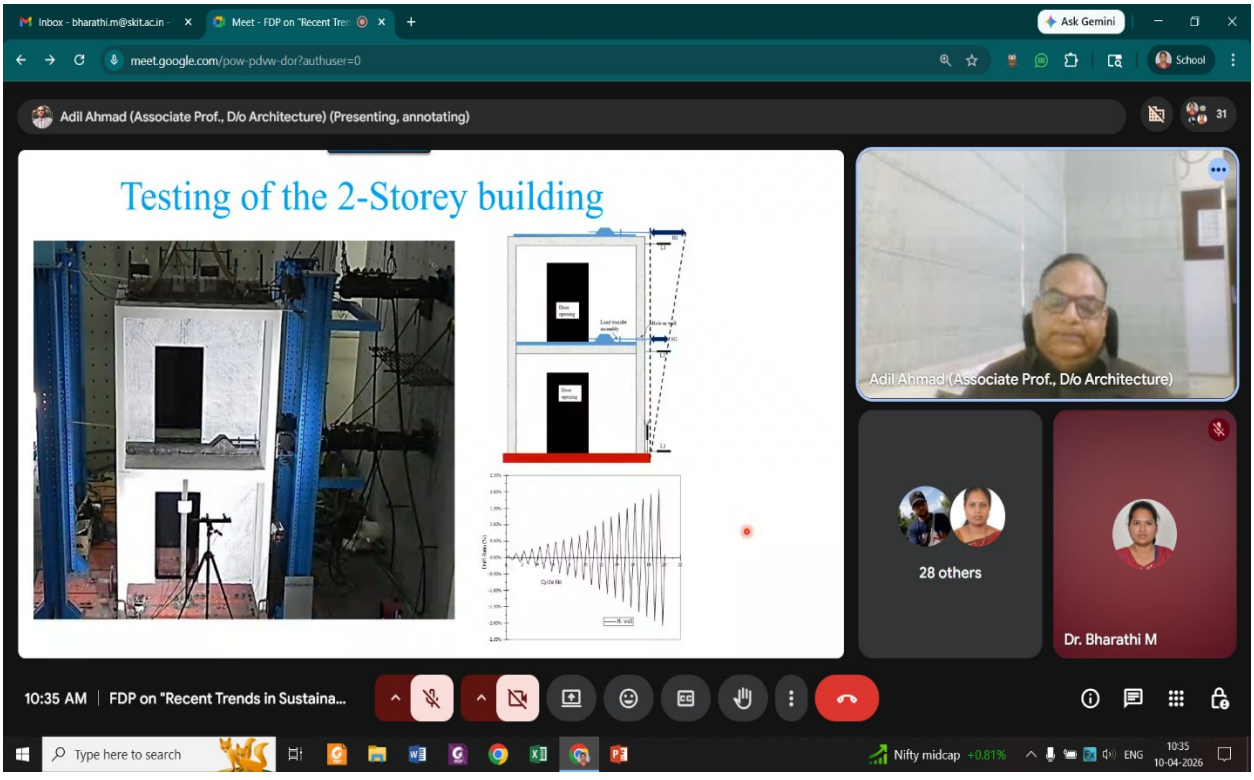
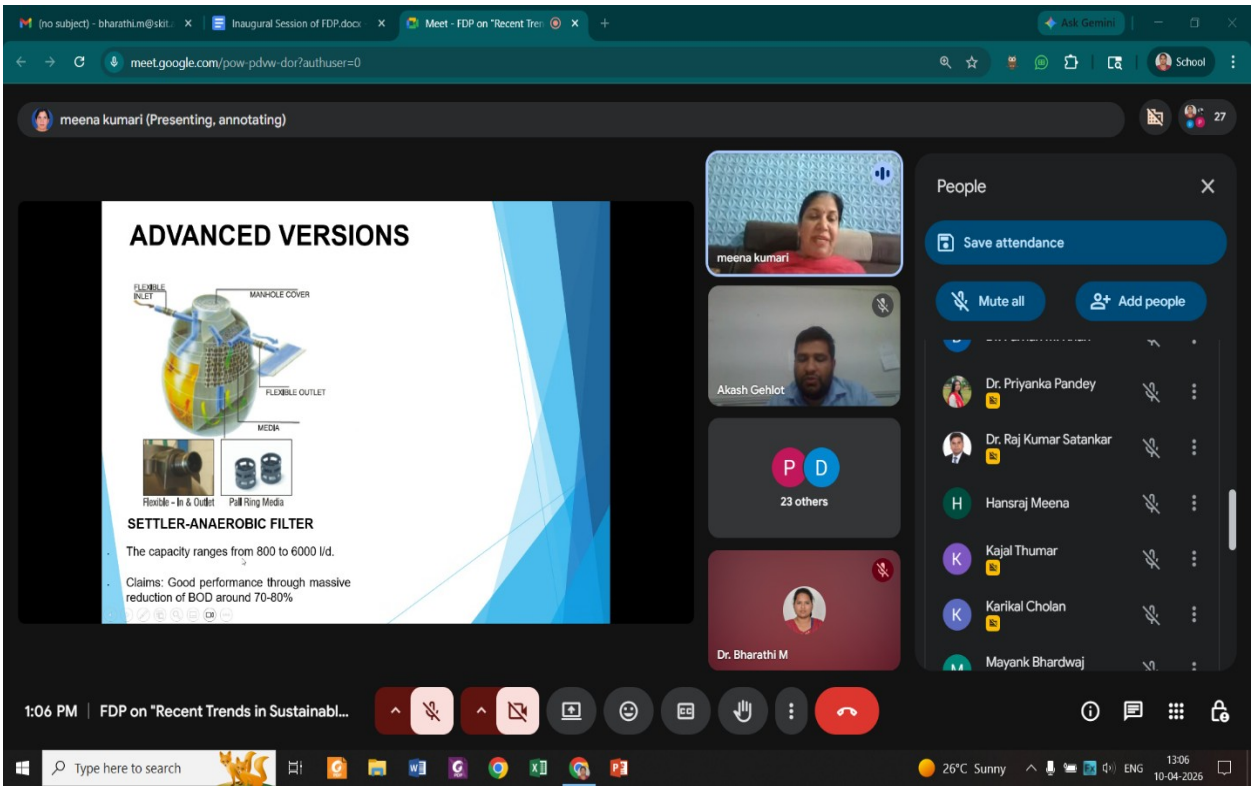
ENG
09:54
09-04-2026

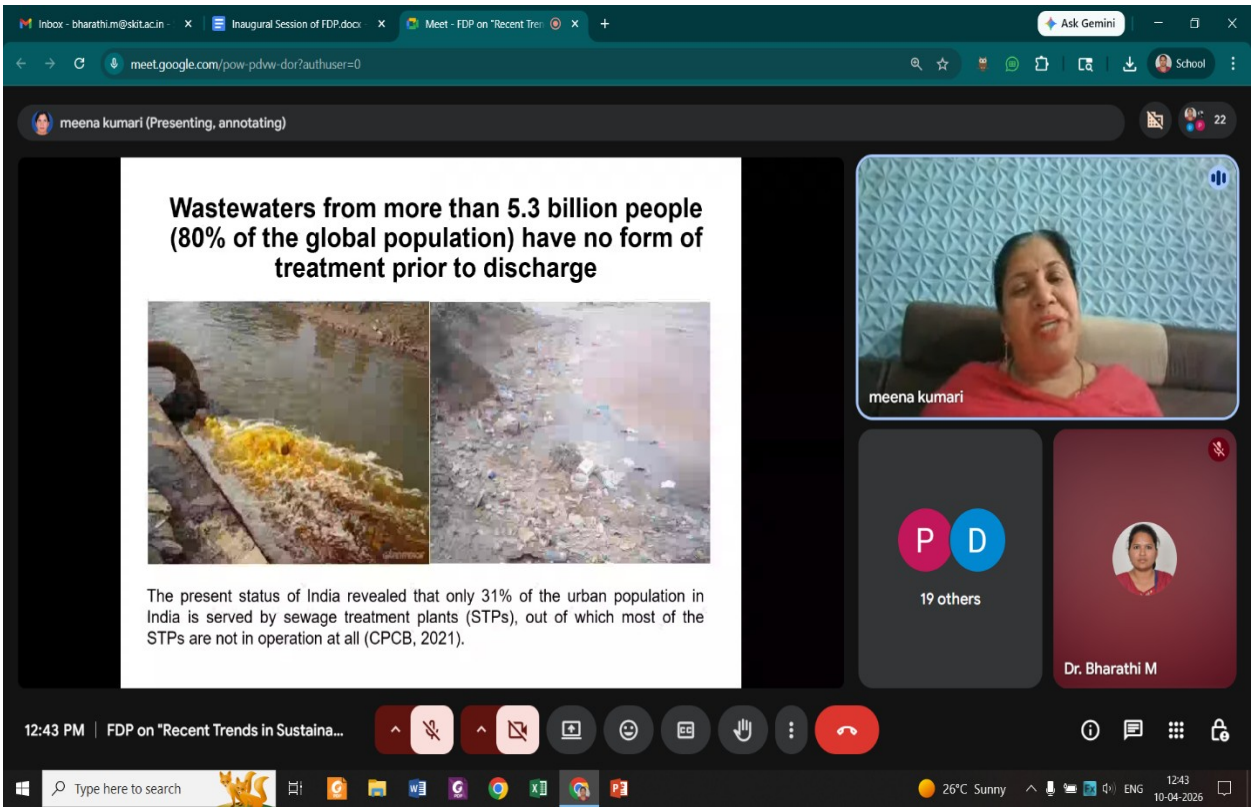

Syllabus, Course Outcomes and
Meet - FDP on "Recent Tren
meet.google.com/pow-pdvw-dor?pli=1
Nitin Goyal (Presenting, annotating)
26
How to Manage Air Quality in an Area
"Mayor of a City" Exercise
Problem of air pollution in the city
What is the information you would want?
What sources would you control?
How will you ensure that there will be reduction in concentrations of pollutants?
Nitin Goyal
Dr. Bharathi M
Divya Gupta
Ashish Solanki
20 others
Pooja Gupta
12:57 PM | FDP on "Recent Trends in Sustain...
ENG
12:57
08-04-2026


Inbox (329) - pooja.gupta@skit
One Page Biodata - Google Dri
Dr. Dinesh Sharma, ME, SKIT.dc
Meet - FDP on "Recent Tren
meet.google.com/pow-pdvw-dor?pli=1
Nitin Goyal (Presenting, annotating)
27
What is a "Source"?: Primary versus Secondary
Secondary particles are formed from condensable vapors generated by chemical reactions of gas-phase precursors. Secondary processes can result in either the formation of new particles or the addition of PM to preexisting particles.
For example, sulfate in PM is mostly formed by atmospheric oxidation of SO_2.
Also, oxides of nitrogen react in the atmosphere to form nitric acid vapor which in turn may react with NH_3 to form particulate ammonium nitrate.
Nitin Goyal
Dr. Bharathi M
Divya Gupta
Ashish Solanki
21 others
Pooja Gupta
1:05 PM | FDP on "Recent Trends in Sustaina...
ENG
13:05
08-04-2026


Inbox - bharathi.m@skit.ac.in -
Meet - FDP on "Recent Tren
Ask Gemini
meet.google.com/pow-pdvw-dor?authuser=0
School
Adil Ahmad (Associate Prof., D/o Architecture) (Presenting, annotating)
31
Construction steps for the 2-Storey building
Additional WWM reinf. at wall-roof junction
Adil Ahmad (Associate Prof., D/o Architecture)
28 others
Dr. Bharathi M
10:32 AM | FDP on "Recent Trends in Sustaina...
Type here to search
500510 +1.18%
ENG
10:32
10-04-2026


Inbox - bharathi.m@skit.ac.in -
Meet - FDP on "Recent Tren
Ask Gemini
meet.google.com/pow-pdvw-dor?authuser=0
School
Adil Ahmad (Associate Prof., D/o Architecture) (Presenting, annotating)
31
Testing of the 2-Storey building
Adil Ahmad (Associate Prof., D/o Architecture)
28 others
Dr. Bharathi M
10:35 AM | FDP on "Recent Trends in Sustaina...
Type here to search
Nifty midcap +0.81%
ENG
10:35
10-04-2026


meena kumari (Presenting, annotating)
ADVANCED VERSIONS
MANHOLE COVER
FLEXIBLE INLET
FLEXIBLE OUTLET
MEDIA
Flexible - In & Outlet
Pall Ring Media
SETTLER-ANAEROBIC FILTER
The capacity ranges from 800 to 6000 l/d.
Claims: Good performance through massive reduction of BOD around 70-80%
meena kumari
Akash Gehlot
23 others
Dr. Bharathi M
People
Save attendance
Mute all
Add people
Dr. Priyanka Pandey
Dr. Raj Kumar Satankar
Hansraj Meena
Kajal Thumar
Karikal Cholan
Mayank Bhardwaj
1:06 PM | FDP on "Recent Trends in Sustainabl...


meena kumari (Presenting, annotating)
Wastewaters from more than 5.3 billion people (80% of the global population) have no form of treatment prior to discharge
The present status of India revealed that only 31% of the urban population in India is served by sewage treatment plants (STPs), out of which most of the STPs are not in operation at all (CPCB, 2021).
meena kumari
19 others
Dr. Bharathi M
12:43 PM | FDP on "Recent Trends in Sustaina...

6. Sample Copy of Certificate

SKIT

असतो मा सद्गमय

CERTIFICATE

OF ACHIEVEMENT

THIS CERTIFICATE IS AWARDED TO

Dr. Parvathi G.S.

Principal Scientist, Geotechnical Engineering, Central Road Research Institute (CRRI)

for sharing her expertise a **Resource Person** in the Faculty Development Program titled "**Recent Trends in Sustainable Engineering Concepts**", organized by the Department of Civil Engineering, **Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**, held from **6–10 April 2026**.

Prof. B.L. Sharma
HoD CE

Dr. Pooja Gupta
Coordinator

Dr. Bharathi M
Organizing Secretary

CERTIFICATE

OF PARTICIPATION

Akhil Maheshwari

Assistant Professor, Sangam University, Bhilwara

has successfully participated in the Faculty Development Program (FDP) on "**Recent Trends in Sustainable Engineering Concepts**" organized by the Department of Civil Engineering, **Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**, held from **6th April to 10th April 2026**

Prof. B.L. Sharma
HoD CE

Dr. Pooja Gupta
Coordinator

Dr. Bharathi M
Organizing Secretary

CERTIFICATE

OF PARTICIPATION

Dnyaneshwar D. More

Assistant Professor, Sanjivani College of Engineering, Kopargaon

has successfully participated in the Faculty Development Program (FDP) on "**Recent Trends in Sustainable Engineering Concepts**" organized by the Department of Civil Engineering, **Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**, held from **6th April to 10th April 2026**

Prof. B.L. Sharma
HoD CE

Dr. Pooja Gupta
Coordinator

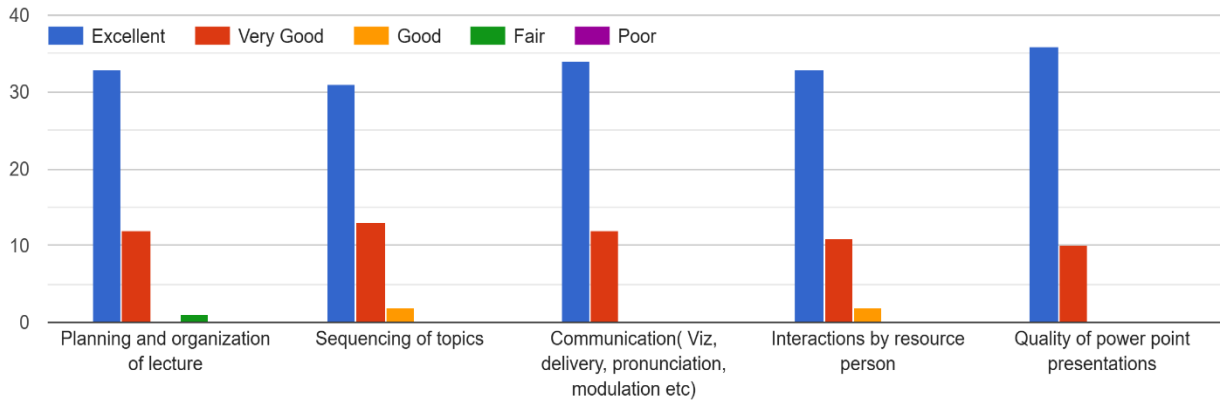
Dr. Bharathi M
Organizing Secretary


SKIT
CERTIFICATE
OF APPRECIATION
This certificate is presented to:
Dr. Bharathi M.
Associate Professor, Department of Civil Engineering
for her contributions as the Organizing Secretary of the 5-day Faculty development Program on "Recent Trends in Sustainable Engineering Concepts" held from April 6-10, 2026 organized by Department of Civil Engineering.
Prof. B.L. Sharma
HOD CE

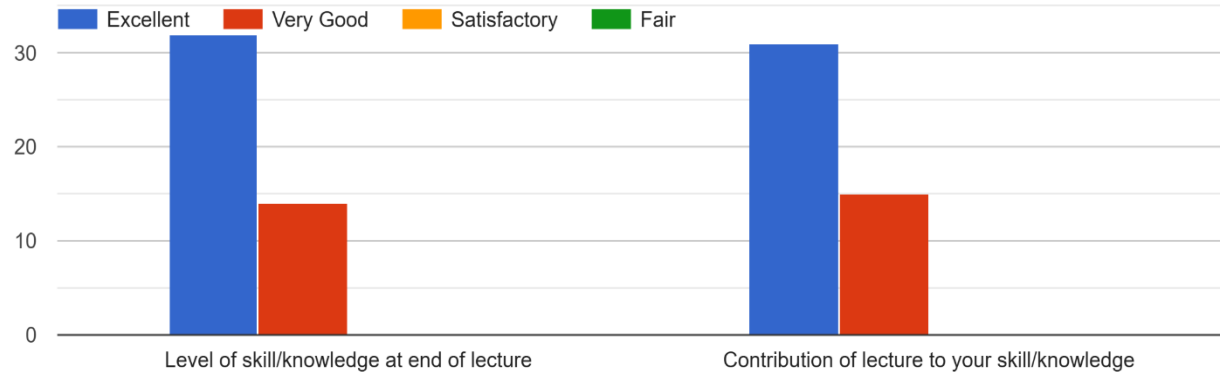
7. Feedback Report

Overall rating

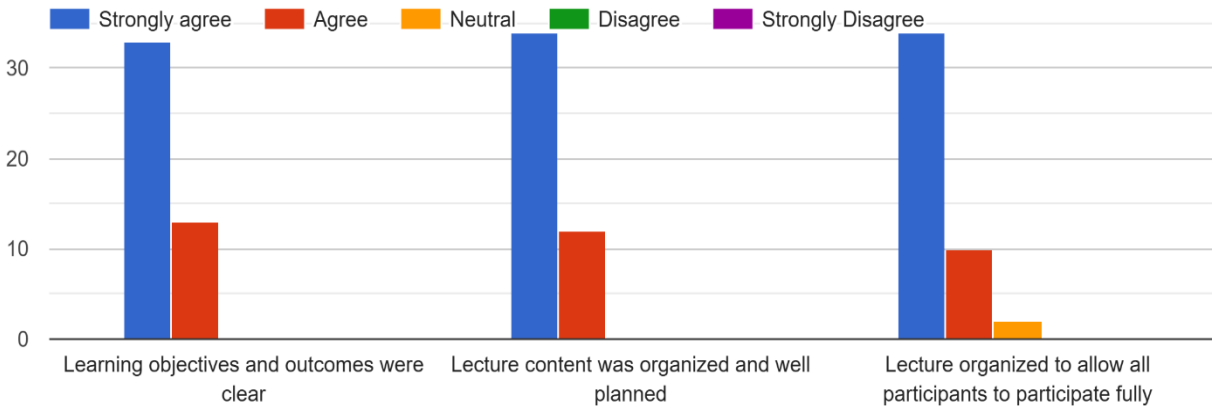
Presentation by resource persons



Contribution to learning



Lecture content



8. Media Coverage

सतत अभियांत्रिकी अवधारणाओं में नवीनतम रुझानों पर संकाय विकास कार्यक्रम

(आयुष-अन्तिमा नेटवर्क)

जयपुर (श्रीराम इंदौरिया): स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान (SKIT), जयपुर के सिविल अभियांत्रिकी विभाग ने 6 अप्रैल, 2026 को 'सतत अभियांत्रिकी अवधारणाओं में नवीनतम रुझान' विषय पर पांच दिवसीय ऑनलाइन संकाय विकास कार्यक्रम का उद्घाटन किया। डॉ.पूजा गुप्ता और डॉ.भारती एम. के समन्वय से संचालित इस कार्यक्रम में संकाय सदस्यों, शोधार्थियों, कार्यरत अभियांत्रिकी और वैज्ञानिकों सहित 100 से अधिक पंजीकरण प्राप्त हुए। इस कार्यक्रम का उद्देश्य नवीकरणीय ऊर्जा, सतत सामग्री और ऊर्जा-कुशल प्रणालियों जैसे उभरते क्षेत्रों में प्रतिभागियों की समझ को बढ़ाना, नवाचार को बढ़ावा देना और पर्यावरण के अनुकूल प्रथाओं को प्रोत्साहित करना है। तकनीकी सत्र देश भर के शैक्षणिक संस्थानों, अनुसंधान संस्थानों और उद्योग जगत के प्रतिष्ठित वक्ताओं द्वारा संचालित किए जाएंगे। इस कार्यक्रम में प्रतिदिन दो तकनीकी सत्रों के साथ कुल दस तकनीकी सत्र होंगे।

उद्घाटन समारोह में प्रो.एसएल सुराना ने प्रतिभागियों को संबोधित किया और सतत विकास लक्ष्यों (एसडीजी) पर अपने बहुमूल्य विचार साझा किए और बताया कि एसडीजी में योगदान हमारे राष्ट्र को वैश्विक स्तर पर विकसित होने में कैसे मदद करेगा। प्रो.बीएल शर्मा ने हाल के वर्षों में कम कार्बन उत्सर्जन वाली प्रौद्योगिकियों, डिजिटल नवाचार और संसाधन-कुशल प्रणालियों की ओर हुए बदलाव पर प्रकाश डाला। उन्होंने यह भी बताया कि इंजीनियरिंग का भविष्य तकनीकी प्रगति और पर्यावरणीय जिम्मेदारी के बीच संतुलन बनाने में निहित है, जिससे समाज के लिए दीर्घकालिक स्थिरता और लचीलापन सुनिश्चित हो सके।

पहले दिन के पूर्वाह्न सत्र में, केंद्रीय सड़क अनुसंधान संस्थान (सीआरआरआई) के भू-तकनीकी इंजीनियरिंग विभाग की प्रधान वैज्ञानिक डॉ.पार्वती जीएस ने बताया कि सड़क निर्माण में भू-प्राकृतिक संसाधनों का कुशलतापूर्वक उपयोग कैसे किया जा सकता है। दोपहर के सत्र में, एमएनआईटी जयपुर के सिविल इंजीनियरिंग विभाग के एसोसिएट प्रोफेसर डॉ.संदीप श्रीवास्तव ने निर्माण उद्योग की चक्रीयता में आने वाली विभिन्न चुनौतियों और अवसरों पर व्याख्यान दिया।

भविष्य की तकनीक: सतत अभियांत्रिकी के नवीनतम रुझानों पर संकाय विकास कार्यक्रम का सफल आयोजन

■ आस-पास ब्यूरो

जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोथन (एसकेआईटी), जयपुर के सिविल अभियांत्रिकी विभाग ने सतत अभियांत्रिकी अवधारणाओं में नवीनतम रुझान विषय पर पांच दिवसीय ऑनलाइन संकाय विकास कार्यक्रम का उद्घाटन किया। डॉ. पूजा गुप्ता और डॉ. भारती एम. के समन्वय से संचालित इस कार्यक्रम में संकाय सदस्यों, शोधार्थियों, कार्यरत अभियांत्रिकी और वैज्ञानिकों सहित 100 से अधिक पंजीकरण प्राप्त हुए। इस कार्यक्रम का उद्देश्य नवीकरणीय ऊर्जा, सतत सामग्री और ऊर्जा-कुशल प्रणालियों जैसे उभरते क्षेत्रों में प्रतिभागियों की समझ को बढ़ाना, नवाचार को बढ़ावा देना और पर्यावरण के अनुकूल प्रथाओं को प्रोत्साहित करना है। तकनीकी सत्र देश भर के शैक्षणिक संस्थानों, अनुसंधान संस्थानों और उद्योग जगत के प्रतिष्ठित वक्ताओं द्वारा संचालित किए जाएंगे। इस कार्यक्रम में प्रतिदिन दो तकनीकी सत्रों के साथ कुल दस तकनीकी सत्र होंगे।

उद्घाटन समारोह में प्रो. एस.एल. सुराना ने प्रतिभागियों को संबोधित किया और सतत विकास लक्ष्यों (एसडीजी) पर अपने बहुमूल्य विचार साझा किए और बताया कि एसडीजी में योगदान हमारे राष्ट्र को वैश्विक स्तर पर विकसित होने में कैसे मदद करेगा। प्रो. बी.एल. शर्मा ने हाल के वर्षों में कम कार्बन उत्सर्जन वाली प्रौद्योगिकियों, डिजिटल नवाचार और संसाधन-कुशल प्रणालियों की ओर हुए बदलाव पर प्रकाश डाला। उन्होंने यह भी बताया कि इंजीनियरिंग का भविष्य तकनीकी प्रगति और पर्यावरणीय जिम्मेदारी के बीच संतुलन बनाने में निहित है, जिससे समाज के लिए दीर्घकालिक स्थिरता और लचीलापन सुनिश्चित हो सके।

पहले दिन के पूर्वाह्न सत्र में, केंद्रीय सड़क अनुसंधान संस्थान (सीआरआरआई) के भू-तकनीकी इंजीनियरिंग विभाग की प्रधान वैज्ञानिक डॉ. पार्वती जी.एस. ने बताया कि सड़क निर्माण में भू-प्राकृतिक संसाधनों का कुशलतापूर्वक उपयोग कैसे किया जा सकता है। दोपहर के सत्र में, एमएनआईटी जयपुर के सिविल इंजीनियरिंग विभाग के एसोसिएट प्रोफेसर डॉ. संदीप श्रीवास्तव ने निर्माण उद्योग की चक्रीयता में आने वाली विभिन्न चुनौतियों और अवसरों पर व्याख्यान दिया।

9. Technical Report

On the first technical session, Dr. Parvathi G.S. Principal Scientist, Geotechnical Engineering, Central Road Research Institute (CRRI), delivered lecture on Road construction with Geonaturals. In the afternoon session of day 1, Dr. Sandeep Shrivastava Associate Professor, Department of Civil Engineering, MNIT Jaipur discussed about Circularity in Construction: Challenges and Opportunities.

Day 2 started with lecture by Dr. Meghna Sharma, Assistant Professor, Department of Civil Engineering, NIT Hamirpur enlightened us about Implementation of Nature-Based Solutions for Ground Improvement.

Dr. Avinash Ojha, Associate Professor, Civil Engineering, Sir Padampat Singhania University (SPSU), Udaipur delivered the lecture on day 2 session 2. He covered AI-Driven Strength Prediction of Fly Ash-Based Geopolymer Concrete.

The forenoon session of day 3 started with a lecture by Dr. Rupak Roy Vice President (Research & Development) at SHRM Biotechnologies Pvt. Ltd., where he discussed about Data Driven Experimental Design: Moving Beyond Trial and Error with RSM-BBD.

The afternoon session on day 3 was delivered by Dr. D.K. Sharma, Professor, Department of Civil Engineering, SKIT M&G, Jaipur where he shared about Sustainable Road Construction Practices.

On day 4 the forenoon session was delivered by Dr. Dinesh Kumar Sharma, Associate Professor, Department of Mechanical Engineering, SKIT M&G, Jaipur where he focused on Net Zero Buildings

The afternoon session on day 4 was delivered by Dr. Nitin Goyal, Principal Scientist and Head, CSIR-NEERI, Mumbai Zonal Centre, Mumbai He discussed about the Sustainable Cities: A perspective on Air Quality Management

On day 5, the forenoon session was delivered by Dr. Adil Ahmad, Associate Professor, Department of Architecture, Jamia Millia Islamia, New Delhi he had shared about the Sustainable, Safe, Alternate and Innovative Construction Systems for Housing.

The last session of the FDP was delivered by Dr. Meena Kumari Sharma, Professor, Department of Civil Engineering, Manipal University, Jaipur She focused on the Sustainable Water Supply and Wastewater Treatment Technologies.

This online FDP received about100 registrations and successfully completed the programme.

10. Objective and Outcome of the event

Objectives

1. To develop understanding of net-zero and carbon-neutral design
   Enable participants to comprehend principles and strategies for minimizing greenhouse gas emissions across the entire lifecycle of engineering systems and products.
2. To familiarize participants with sustainable and green materials
   Introduce emerging materials such as bio-composites and recycled polymers, and highlight their role in reducing environmental impact in construction and manufacturing.
3. To explore renewable energy integration and smart systems
   Provide insights into the integration of solar, wind energy, and smart grids, and their significance in modern power engineering and sustainable infrastructure.
4. To promote the concept of circular economy in engineering design and Life Cycle Assessment (LCA)
   Encourage adoption of reuse, recycling, and waste minimization strategies through circular economy principles in engineering practices.
5. To introduce digital tools and AI in sustainable engineering and encourage interdisciplinary approach towards sustainability
   Demonstrate how artificial intelligence and advanced digital technologies can optimize energy efficiency, resource utilization, and infrastructure performance.
6. To enhance capability for sustainable infrastructure planning
   Equip participants with knowledge to design and manage infrastructure systems that are environmentally responsible and resource-efficient.
7. To build awareness of current global trends and policies
   Update participants on international sustainability goals, climate action frameworks, and engineering practices aligned with sustainable development.
8. To promote research and innovation in sustainable engineering
   Motivate faculty to engage in research, curriculum development, and innovation aligned with emerging sustainable technologies and practices.

Outcomes

1. Participants will gain a deeper understanding of the latest advancements and emerging solutions in sustainable engineering.
2. Faculty members and young researchers will develop advanced research and analytical skills specific to sustainability.
3. Attendees can evaluate and incorporate green materials such as bio-composites and recycled polymers in engineering applications.
4. Participants will have the chance to connect with experts, practitioners, and peers in the field, fostering collaborations and partnerships.
5. The FDP will help participants to develop solutions that emphasize reuse, recycling, and waste minimization in engineering projects.
6. Attendees will be able to interpret global sustainability frameworks and integrate them into teaching, research, and engineering practices.
7. Participants will be able to develop research ideas and academic content focused on emerging trends in sustainable engineering.

-----Thank You-----