

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur



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Report

on

Five-day Faculty Development Program

"Ecological and Eco-efficient Construction Practices"

held

on

17th - 21st January 2022

Organized by:

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

Brochure of the Event



RAJASTHAN TECHNICAL UNIVERSITY
Rajasthan Technical University (RTU) is located in Kota in
the state of Rajasthan. It was established in 2006 by the Government of Rajasthan to enhance technical education in the state. The university currently affiliates about 68 Engineering Colleges, 3 B.Arch., 16 MCA Colleges, 39 MBA Colleges, 31 M. Tech. Colleges and 01 Hotel Management and Catering Institutes. The University aims to provide quality technical education which may help Rajasthan in its technical development and will boost technical environment in the country.

ABOUT SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) is Ranked No.1 (Fifth consecutive year) Engineering College in Rajasthan declared by Rajasthan Technical University (ITU), Kota. SKIT is a selective comprehensive institution offering undergraduate and postgraduate programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a premier center of technical education not only in Rajasthan but also in northern India which has been realized through efficient and dedicated faculty members. Innovative teaching learning methods, state of the art infrastructures and core value of discipline. The various undergraduate programmes of the institute are acredited by the National Board of Accreditation (NBA).

DEPARTMENT OF CIVIL ENGINEERING

The Department offers UG program in Civil Engineering and PG program in Transportation Engineering. The Vision of the department is "to become a discipline of excellence that promotes higher learning and advanced tremendously over the years and has established all the laboratories providing necessary infrastructure various research projects. The department has active

student chapters of Indian Concrete Institute (ICI) and also provides consultancy services to the government and non-government agencies. Many alumni of the department are working at prestigious positions in various organizations of repute.

Department is also recognized as "Centre of Excellence" in "Transportation Research" by Rajasthan Technical University, Kota.

ABOUT THE FDP

The FDP is designed to bring researchers, academia and The FUP is designed to oring researchers, academia and technocrafs from different parts of the country to a common platform for exchanging and sharing the recent developments in construction industry. Experts from prestigious institutions, research agencies and industries will deliver sessions in this program. Experts will elaborate their knowledge by sharing their research work and case studies. Some of the topics to be covered in this

- Sustainable construction practices
- Reduce, recycle and reuse
- Sustainable construction products
- Application of drone technology in construction
- Carbonation curing and low-energy cement Construction project management practices

The FDP is interdisciplinary and is open for all faculty members from various institutions.

Prof. O P Chhangani, Vice Chancellor, Apex University

Prof. Sandeep Chaudhary, IIT Indore

Mr. Sandeep Narang, Senior Consultant- Sustainable Construction, New Delhi

Dr. Trilok Gupta, Associate Prof. CTAE, Udaipur

Er. Vinod Garg, Director, Promac Advisors Pvt. Ltd.

Dr. Raju Sharma, Post-doctoral researcher, Incheon National University, South Korea

Er. Sunil Nandipati, Asst. Prof, GITAM University, Visakhapatnam

Ms. Rekha Mavulati. Counsellor. IGBC

Dr. Vivek Gupta, Asst. Prof, Thapar University, Punjab

Er. Rohit, Director, Texel Consulting Engineers Pvt.

The final schedule of the FDP will be shared before

- Session I = 9:30 AM 11:00 AM
 Session II = 12:00 PM 1:30 PM

Schedule of the Event





SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN



Department of Civil Engineering

Organising 5 – Day Faculty Development Programme

"Ecological and Eco-efficient Construction Practices (EECP – 2022)"
In collaboration with IGBC and ICI

TENTATIVE SCHEDULE AND TOPICS

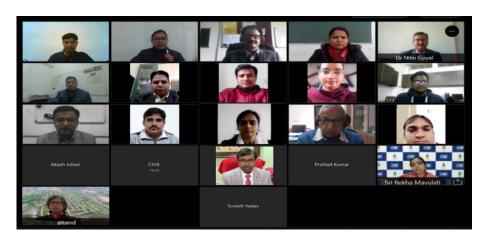
January 17th, 2022 (Monday)		
09:00 AM to 09:30 AM	Inaugural Session	
09:30 AM to 11:00 AM	<i>"Green Buildings – Benefits & Impacts"</i> Ms. Sri Rekha Mavulati, Counsellor, IGBC	
12:00 PM to 01:30 PM	"Sustainable construction practices for Repair and Rehabilitation" Er. Rohit, Director, Texel Consulting Engineers Pvt. Ltd.	
	January 18th, 2022 (Tuesday)	
09:30 AM to 11:00 AM	"Sustainable Bricks" Dr. Vivek Gupta, Assistant Professor, Thapar Institute, Patiala, Punjab	
12:00 PM to 01:30 PM	"IS Codes for Construction Project Management" Er. Vinod Garg, Director, Promac Advisors Pvt. Ltd.	
	January 19th, 2022 (Wednesday)	
09:30 AM to 11:00 AM	"Utilization of Plastic and Rubber Waste in Road Construction" Dr. Trilok Gupta, Associate Professor, CTAE, Udaipur	
12:00 PM to 01:30 PM	"Challenges in Civil Engineering Profession in Construction and Sustainable Development" Prof. O P Chhangani, Vice Chancellor, Apex University	
	January 20th, 2022 (Thursday)	
09:30 AM to 11:00 AM	"Sustainable Construction Practices" Mr. Sandeep Narang, Senior Consultant, New Delhi	
12:00 PM to 01:30 PM	"Applications of Drone Technology in Construction Industry" Er. Sunil Nandipati, Assistant Professor, GITAM University, Visakhapatnam	
January 21th, 2022 (Friday)		
09:30 AM to 11:00 AM	"Accelerated carbonation curing and low-energy cement" Dr. Raju Sharma, Post-Doctoral Researcher, Incheon National University, South Korea	
12:00 PM to 01:30 PM	"Sustainable Construction Products" Prof. Sandeep Chaudhary, IIT Indore	
01:30 PM to 01:45 PM	Valedictory Ceremony	

Regards, Organising Team (EECP-2022)

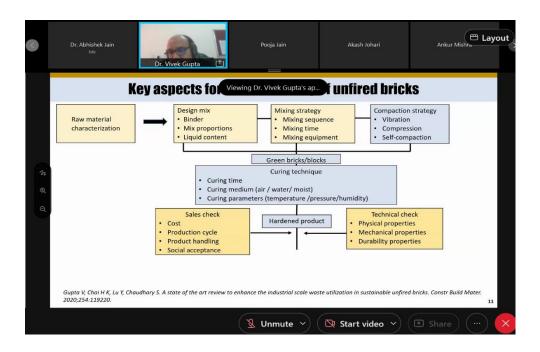
List of Invited Guests and Speakers

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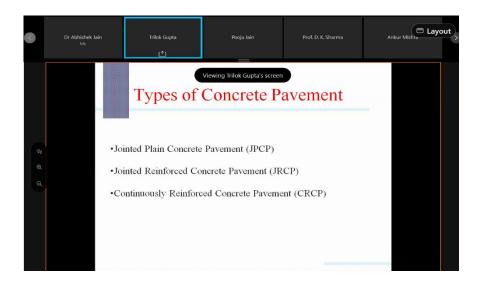
Photographs/Screenshots of the Event:

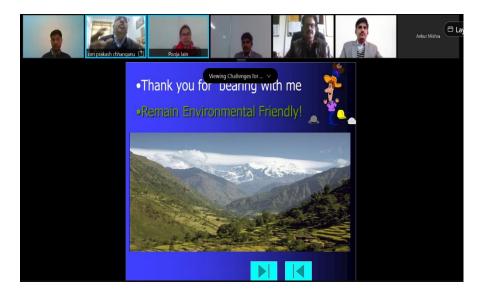


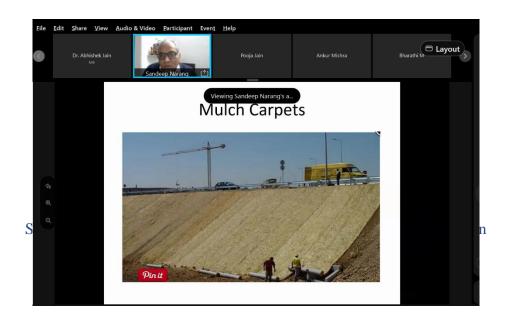












Media Coverage

एस.के.आई.टी. में पांच दिवसीय फैकल्टी डेवलपमेंट प्रोग्राम का उद्घाटन



बढता राजस्थान

जयपुर।एसके आईटी जयपुर के डिपार्टमेंट ऑफ सिविल इंजीनियरिंग ने आईजीबीसी और आईसीआई के सहयोग से आयोजित इकोलॉजिकल एंड इको-एफिसिएंट कंस्टक्शन प्रैक्टिसेज पर पांच दिवसीय फैकल्टी डेवलपमेंट प्रोग्राम का सोमवार, दिनांक 17 जनवरी 2022 को उद्घाटन हुआ। डॉ नितिन गोयल (प्रिंसिपल . साईटिस्ट एंड इंचार्ज, सीएसआईआर-नीरी, मुंबई) कार्यक्रम के मुख्य अथिति होंने सस्टेनेबल प्रैक्टिसेज की उपयोगिता के बारे मैं जानकरी दी। डी. के. शर्मा (प्रमुख-सिविल

आनंद मिश्रा (को-चेयर, आईजीबीसी जयपुर और मैनेजिंग डायरेक्टर, त्रिमूर्ति कोलोनिजेर्स प्राइवेट लिमिटेंड) आईजीबीसी द्वारा की जा रही सस्टेनेबल कंस्ट्रक्शन योजनाओं के बारे मैं जानकरी दी। महेश सिंघल (चेयरमैन, आईसीआई-आरएससी) ने आईसीआई द्वारा की जा रही सस्टेनेबल प्रैक्टिसेज योजनाओं के बारे मैं जानकरी दी। प्रो. एस. एल. सुराणा (डायरेक्टर-एकेडेमिक्स) ने अथितियों और प्रतिभागियों का स्वागत किया और एसकेआईटी की उपलब्दियों के बारे में बताया। प्रो.

इंजीनियरिंग) ने प्रतिभागियों को प्रोग्राम के बारे मैं जानकारी दी।

डॉ. भारती एम. ने धन्यवाद प्रस्ताव दिया। इस अवसर पर कार्यक्रम के सयोजक डॉ अभिषेक जैन, पूजा जैन, राकेश चौधरी और विभाग के अन्य फैकल्टी सदस्य भी उपस्थित थे। इस कार्यक्रम के आगामी दिनों मैं उद्योग, शिक्षाविदों और अनुसन्धान संस्थानों के 10 प्रख्यात वक्ता अपने ज्ञान और अनुभवों को साझा करेंगे। इस कार्यक्रम के लिए भारत भर के विभिन्न शैक्षणिक संस्थानों के 300 से अधिक फैकल्टी सदस्यों ने पंजीकरण कराया।





एस.के.आई.टी. में पांच दिवसीय फैकल्टी डेवलपमेंट प्रोग्राम का समापन

P3 Police Public Politics जयपुर ! एसकेआईटी जयपुर के डिपार्टमेंट ऑफ सिविल इंजीनियरिंग ने आईजीबीसी और आईसीआई के सहयोग से आयोजित इकोलॉजिकल एंड इको-

एफिसिएंट कंस्ट्रक्शन प्रैक्टिसेज पर पांच दिवसीय फैकल्टी डेवलपमेंट पोगाम का शक्रवार, दिनांक 21 जनवरी 2022 को समापन हुआ। श्री जैमनी उबेरॉय (अध्यक्ष, आईजीबीसी जयपुर चैप्टर) ने इस आयोजन के समापन समारोह में

अपने बहुमूल्य विचार अभिव्यक्त किये। उन्होंने आयोजन के विषय की सराहना की और सस्टेनेबल प्रैक्टिसेज के महत्व के बारे में चर्चा की।

कार्यक्रम का संचालन पूजा जैन एवं राकेश चौधरी ने किया। कार्यक्रम की तकनीकी रिपोर्ट डॉ. अभिषेक जैन ने प्रस्तुत की। प्रो. डी. के. शर्मा (प्रमुख -सिविल इंजीनियरिंग) ने सभी प्रतिभागियों को धन्यवाद ज्ञापित किया और सभी समन्वयकों और संकाय सदस्यों को इस

बधाई दी। इस आयोजन में भारत भर के विभिन्न शैक्षणिक संस्थानों के 150 से अधिक संकाय सदस्यों ने सिक्रय रूप से भाग लिया। उद्योग, शिक्षाविदों और अनसंधान संस्थानों के प्रख्यात वक्ताओं ने आयोजन के दौरान अपने ज्ञान और अनुभवों को साझा किया। सभी वक्ताओं ने प्रतिभागियों को टिकाऊ निर्माण उत्पादों के उत्पादन के लिए विभिन्न तकनीकों के बारे में बताया।

Technical Report

5-day Faculty Development Programme on "Ecological and Eco-efficient Construction Practices (EECP- 2022)" organized by Department of Civil Engineering, SKIT M&G, Jaipur in collaboration with Indian Green Building Council (IGBC) and Indian Concrete Institute (ICI) from 17th to 21st January 2021. Dr. Nitin Goyal (Principal Scientist and In-charge, CSIR-NEERI, Mumbai) was the chief guest of the inaugural session of this event. He explained about the importance of sustainable practices. Mr. Anand Mishra (Co-Chair, IGBC Jaipur & Managing Director, Trimurti Colonizers Pvt. Ltd.) informed about the various initiatives of IGBC for sustainable construction. Mr. Mahesh Singhal (Chairman, ICI-RSC) informed about the various initiatives of ICI for sustainable practices. Prof. S. L. Surana (Director – Academics) welcomed the guests and participants. Prof. D. K. Sharma (Head – Civil Engineering) briefed the audience about the FDP. Dr. Bharathi M. delivered a vote of thanks. Ten eminent speakers from industry, academics and research institutions shared their knowledge and experiences during the course of event. I would like to thank all the experts for accepting out invitation and delivering wonderful session. More than 350 faculty members from various educational institutes across India have registered for the event.

On Day 1, first session was delivered by Ms. Sri Rekha Mavulati (Counsellor, IGBC). she discussed the benefits of green building construction and their impacts on environments. Second session of the day was taken up by Er. Rohit (Director-TeXel Consulting Engineers Pvt. Ltd.). He explained the various techniques for the repair and rehabilitation of construction activities.

On Day 2, first session was delivered by Dr. Vivek Gupta (Assistant Professor- Thapar University, Patiala, Punjab). He enlightened the participants about the development of sustainable bricks. Characterization methods for various industrial ashes were also explained. Second session of the day was taken up by Er. Vinod Garg (Director, Promac Advisors Pvt. Ltd.). He explained about IS codes 15883 guidelines and their various parts for the construction project management.

On Day 3, In session 1, Dr. Trilok Gupta (Associate Professor, CTAE, Udaipur) discussed in detail about the utilization of plastic and rubber waste in road construction. Second session of the

day was conducted by Prof. O P Chhangani (Vice Chancellor, Apex University). He discussed the challenges in civil engineering profession in construction and sustainable development.

Day 4 started with session of Mr. Sandeep Narang (Senior Consultant, New Delhi). He briefed the participants about the various sustainable construction practices in civil engineering and impact of construction activity on the surrounding climate. He also told the audience about that this is one of the emerging topics and more research is required in this sector. In second session Er. Sunil Nandipati (Assistant Professor, GITAM University, Vishakhapatnam) delivered a session on the applications of drone technology in construction industry.

First session of Day 5 was delivered by Dr. Raju Sharma (Post-Doctoral Researcher, Incheon National University, South Korea). He briefed the participants about accelerated carbonation curing & low-energy cement and also discussed various schemes and criteria to achieve sustainable development goals. Last session of the FDP was delivered by Prof. Sandeep Chaudhary (IIT Indore) on "sustainable construction products". He discussed the various techniques to produce sustainable building products.

The discussed areas are of great benefit for the participants as they are enlightened with the most widely used techniques to produce sustainable building products.

13. Objective and Outcome of the event

Objectives

- > To disseminate knowledge on sustainable construction practices.
- ➤ To encourage faculty members and scholars to go for ecological and ecoefficient construction practices.

Outcomes

The participants of the FDP will be able to understand the various techniques to produce sustainable construction products. This FDP will bring a positive transformation in the faculty member's attitude in their project and research works and get them more focused on the sustainable development of construction products.

---Thank You----