



A WEBINAR ON LATEST TRENDS IN GREEN BUILDING DESIGN

Date of Event: September 14, 2022

Organizers: IGBC Student Chapter, JUIT

Introduction

Jaypee University of Information and Technology Student Chapter of Indian Green Building Council (IGBC) was inaugurated on May 13, 2021. On the occasion of Green Building Week 2022 (September 12–16, 2022), a Webinar on Latest Trends in Green Building Design was successfully organized on September 14, 2022, with a prime objective to create awareness about the journey of integrating IBM system technology in field of Green Buildings and Biophilic designs. The webinar witnessed registration of more than 550 participants. The Virtual Session was organized via Google Meet platform by JUIT Student Chapter. Invitations to the Session were emailed by the host, the JUIT IGBC Student Chapter Team, to their networks and students.

Latest Trends in Green Building Design

Green building design aspects refers to both a structure and the application of processes that are environmentally responsible and resource-efficient throughout a building's life-cycle: from planning to design, construction, operation, maintenance, renovation, and demolition. This requires close cooperation of the contractor, the architects, the engineers, and the client at all project stages. This program allows participants to know the importance of Green Building and how to use sustainable materials in old and new structures to make them effective.

Event Schedule

- **Mr. Jagjit Singh Majha**
Co-Chairman, IGBC Chandigarh Chapter -Welcome Remarks
- **Mr. Ashwini Bamba**
Director Accelerated Logic Control -Technical Session
- **Ar. Sukumar Jayarath**
Principal Architect, Studio by Design -Technical Session
- **Mr. Harshit Behl**
Director - Technical, Suntech AG
Principal Architect -Technical Session
- **Dr. (Prof.) Ashish Kumar**
Head of Department, Civil Engineering -Concluding Remarks
- **Dr. Tanmay Gupta**
Chairman, JUIT student Chapter of IGBC -Program Convener
- **Ajay Singh Thakur**
PhD Student -Student Coordinator

Overview and Topic of Discussion

- **Dr Tanmay Gupta** hosted the session on Google Meet and Live on JUIT YouTube Channel at 10:45 AM (IST). More than 300 participants on Google Meet and 200+ participants were connected through YouTube for this Virtual Session. **Dr. Tanmay Gupta- Chairman, JUIT student Chapter of IGBC** welcomed all speakers, dignitaries and participants in this session.
- **Mr. Jagjit Singh Majha**, Co-Chairman, IGBC Chandigarh Chapter was unavailable due to a meeting which was informed by Mr. Nilesh Kr. Rana – IGBC and the webinar was proceeded with 1st Session of **Mr Ashwini Bamba - Director Accelerated Logic Control**, He talked about the latest trends and technology in integral building management system. He shared in-depth process of monitoring, customize control and integrating all the building system on a single platform which gives suggest automatic remedial steps in case of any system failure. Towards the end Q & A session were conducted through Google Meet chat and YouTube Comment Section.
- **Ar. Sukumar Jayarath Principal Architect, Studio by Design** was the Second speaker of the event discussing his perspective on aspects and verticals to be taken care in green building on which green building is analyzed and evaluated on the basis of which accreditation are granted. He also shared various cases of rules and regulation which need to be followed by local authorities and submitted in IGBC office.
- **Mr. Harshit Behl: Director - Technical, Suntech AG** was the final speaker of the event sharing session on green walls and Biophilic design sharing the importance to reduce stress due to 90% of indoor time, work related ill health issue by using Biophilic technology to enhance their cognitive abilities, focus, increase physical activities, creativity etc. He also discussed the key constructs of Biophilic design which introduce contact with nature, natural analogues and human spatial response.
- At last Q&A Session were conducted with a little light moment between speakers, moderator and participants.

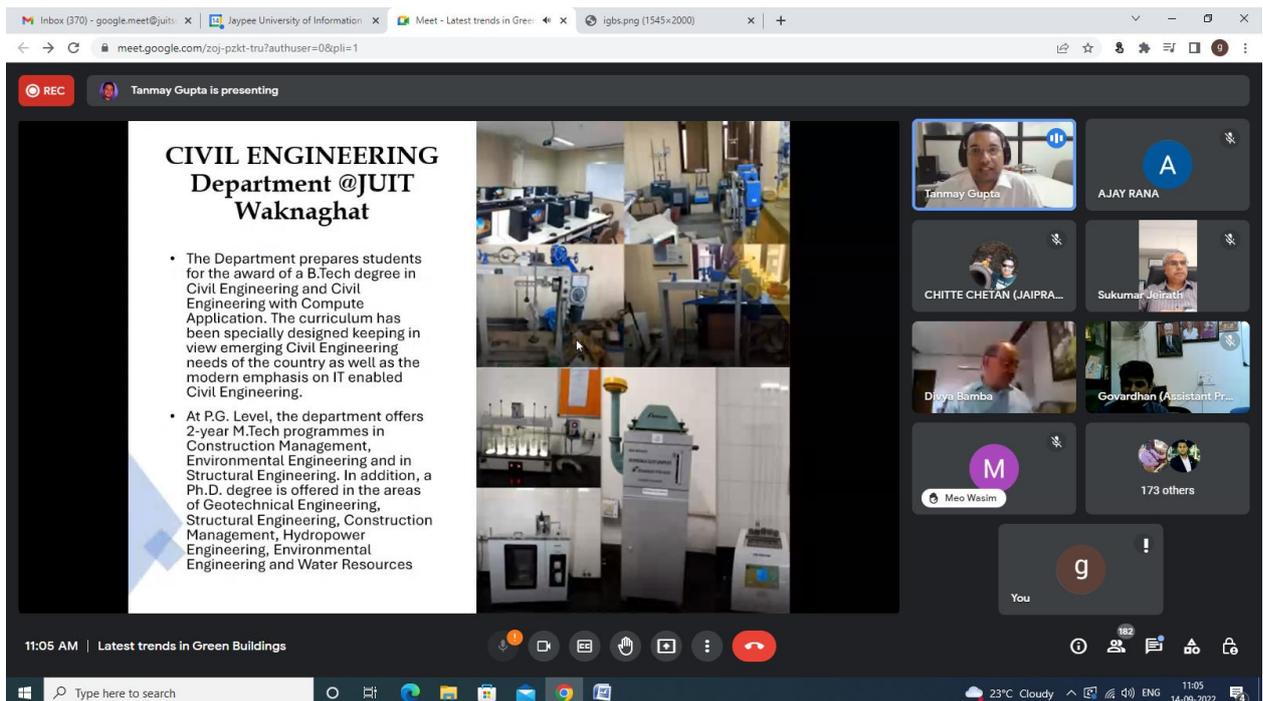
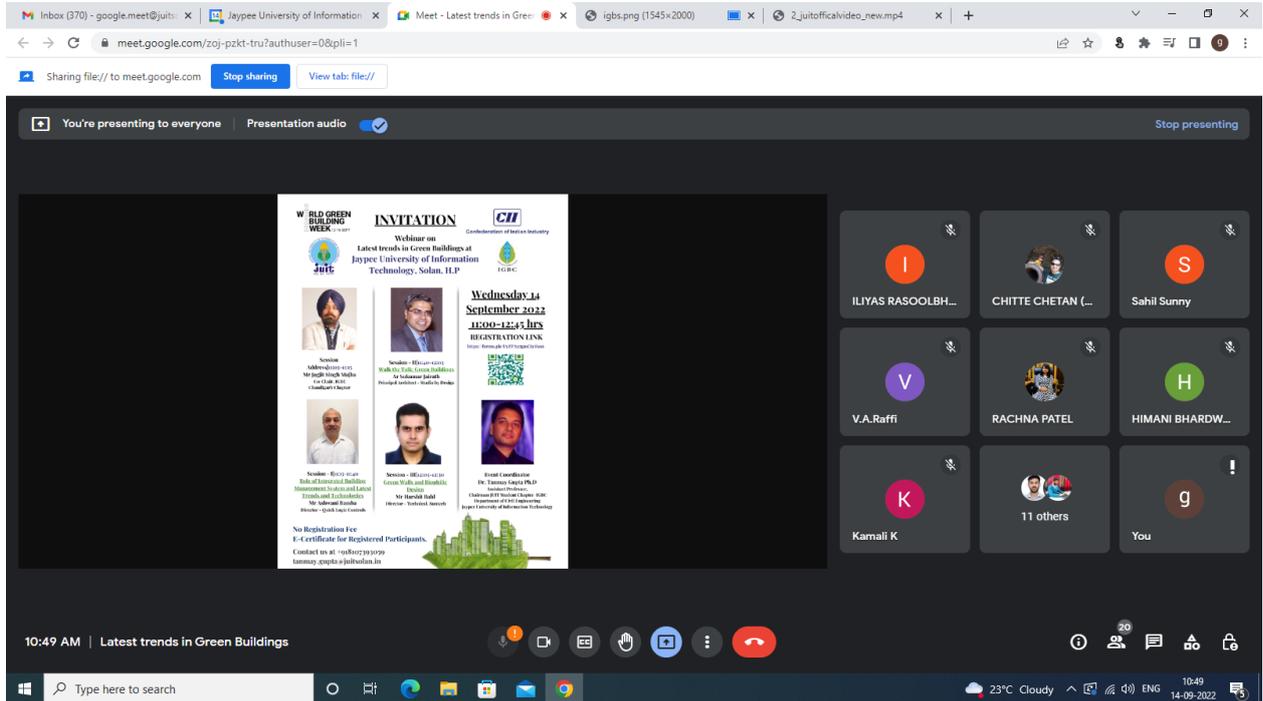
Feedback from Students: The feedback was conducted through a form circulated among the participants and the webinar was ranked Excellent.

Thank You Remarks: Dr. Tanmay Gupta concluded the Virtual Session by thanking all the Speakers, HOD and faculties of Civil Engineering Department, IGBC Members and Participants for making this event a memorable one.

Key Points from Registration View

- A total of 550+ registrations were received for this event.
- More than 500+ feedbacks were given by the participants.
- National as well as International Doctorate participant were present during the Virtual Session contributing 30% of the participation count.
- All the queries regarding meeting, forms, and certificate were successfully handled and resolved by Dr. Tanmay Gupta and Mr. Ajay Singh Thakur.

SCREENSHOTS OF THE SESSION



meet.google.com/zoj-pzkt-tru?authuser=0&pli=1

REC

Divya Bamba

Meo Wasim

Tanmay Gupta

Nilesh Kumar Rana

Govardhan (Assistant Professor)

AJAY RANA

SUNIL YADAV

178 others

You

Meo Wasim has raised a hand Open queue

11:07 AM | Latest trends in Green Buildings

Type here to search

23°C Cloudy 11:07 14-09-2022

meet.google.com/zoj-pzkt-tru?authuser=0&pli=1

REC

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11:07 AM | Latest trends in Green Buildings

Type here to search

23°C Cloudy 11:07 14-09-2022

REC | Divya Bamba is presenting

11:10 AM | Latest trends in Green Buildings

Participants: Tanmay Gupta, Meo Wasim, Divya Bamba, AJAY RANA, CHITTE CHETAN (JAIPRA...), Sukumar-shirath, Muthuraman P, 185 others, You

Windows taskbar: Type here to search, 23°C Cloudy, 11:10 14-09-2022

REC | Divya Bamba is presenting

11:13 AM | Latest trends in Green Buildings

Participants: Tanmay Gupta, Ashish Thakur, Divya Bamba, AJAY RANA, CHITTE CHETAN ..., S.SOWMIA, Muthuraman P, 193 others, You

People list: Add people, mayursinh mahida, meenakshisudarvishi NPR..., Meenakumari M, Mihir Balwani, Mohammad Asim, MOHAN KUMAR R, Mohd. Bilal Khan, Monika Chauhan, Mr. P. Muthu Pandian, Mrs.Hemalatha 1625, Ms. Shikhti Verma

Windows taskbar: Type here to search, AQI 49, 11:13 14-09-2022

REC | Divya Bamba is presenting

TYPICAL APPROACH FOLLOWED
- DESIGN - COMMISSIONING OF IBMS

A. PROJECT / OPPORTUNITY IS IDENTIFIED -
---Stake Holders , Consultants , BMS Products OEMs & Contractors

B. DETAILS OF THE TENDERS WORKED OUT , TENDERING & VENDOR SELECTION
--- Scope of work, Equipment List (I/O Summary), Budgeting, Schedule of implementation

C. IMPLEMENTATION
--- Detailed drawings / Shop drawings, c
---Coordination with third party vendors for coordination and provisioning
--- Conduit & Cable laying, sensors installation, BMS Panel installation & terminations
--- Programming, Integration

11:19 AM | Latest trends in Green Buildings

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OBSERVATIONS & CHALLENGES

AVERAGE TIME FRAME FOR THE WHOLE PROCESS - 2 - 4 Years

- Stably managing the process for this duration itself is a big challenge.

Expected issues

- Coordination with various agencies
- Cost and time overruns and cash flow issues.
- Some hardware / software may become obsolete / require up gradation
- Manpower changes at site and at the BMS vendor end.

ALL THESE LEAD TO COMPROMISED COMMISSIONING & HANDING OVER OF

11:21 AM | Latest trends in Green Buildings

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OTHER ISSUES LIMITING PROMOTION OF IBMS

- Barring exceptions, IBMS is always considered for **New & Large buildings**.
 - Existing Building (retrofit cases) practically do not come in the picture.
 - No proposals for smaller building considered
- Almost every detail needs to be planned at the initial design stage.
 - Changes at later stage are difficult to incorporate
 - Limited scope for technological up gradation (Implementation / Post phase)
- Almost the entire budgetary provision needs to be done at the initial stage.
 - Mostly dropped or limited owing to the high one time investment

ALL THESE LIMIT THE REALIZATION OF THE POTENTIAL BENEFITS.

BIGYANDA KUMAR has left the meeting

11:24 AM | Latest trends in Green Buildings

People: Jikku K Kurian, JITENDER VERMA 201612, Jyoti Biddu, K.Bhavya 122, Kalepu Divya, Kamali K, Kamesh Abimannan, Kameshwari Balachandar, Kamlesh Damdo, Kanav Sharma 201638, 247 others

REC | Divya Bamba is presenting

New Trends & Technologies

SCHEMATIC OF THE SYSTEM

11:32 AM | Latest trends in Green Buildings

People: Dr.Kannan V, Dr.P.Arulmathi, Dr.RAJESHKANNA B., Durka Janani, Er. DEEPAK TIWARI, Er.B.Jeyaprakash ME., Er.Ravinder Kumar, ES21CE02Gokul Sarathi C..., ES21CE07 RAGUL R, Eswaran.M_005, 287 others

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REC Divya Bamba is presenting

New Trends & Technologies

SCHEMATIC OF THE SYSTEM

11:33 AM | Latest trends in Green Buildings

People

- Add people
- Dr.Kannan V
- Dr.P.Arulmathi
- Dr.RAJESHKANNA B.
- Durka Janani
- Er. DEEPAKIWARI
- Er.B.Jeyaprakash ME.
- Er.Ravinder Kumar
- ES21CE02Gokul Sarathi C...
- ES21CE07 RAGUL R
- Eswaran.M_005

11:33 AM 22°C Cloudy 14-09-2022

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REC Tanmay Gupta is presenting

Ar. Sukumar Jairath

Principal Architect,
Studio by Design

WALK THE TALK: GREEN BUILDINGS

YOGESWARAN M has left the meeting

11:45 AM | Latest trends in Green Buildings

In-call messages

Let everyone send messages

Messages are being recorded with the call

6030 VASANTHAKUMAR V 11:41 AM
காலை வணக்கம்

Abdul Raffi 11:41 AM
Sir, to what extent in % India is implementing IBMS compare with other developed countries.?

6026 SABARI R 11:42 AM
காலை வணக்கம் 🙏

6002 Aheleswaran.E 11:43 AM
எதை பற்றி பேசுவோர்கள் என்று சொல்லுங்கள்

MVMPSR PRANAV 11:44 AM
Sir/madam , can you or could you please send or share ppt or pdf in the groups

Send a message to everyone. Messages are also recorded.

11:45 AM 22°C Cloudy 14-09-2022



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REC | studiomworkshare 66 is presenting

6010 Krishna.M has left the meeting

Jyoti Biddu has raised a hand

11:51 AM | Latest trends in Green Buildings

System tray: 22°C Cloudy, 14-09-2022

In-call messages

Let everyone send messages

Messages are being recorded with the call

Ql#n6@gujuits.ir

MVMPSR PRANAV 11:44 AM
Sir/madam, can you or could you please send or share ppt or pdf in the groups

CHITTE CHETAN (JAIPRAKASH) 11:49 AM
Very very informative session

Piyush Wade 11:49 AM
Thanks you sir

RACHNA PATEL 11:50 AM
Excellent session. Thank you very much Sir

Saurabh Mittal 11:50 AM
Excellent session ..thanks sir

Send a message to everyone. Messages are also recorded.

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REC | studiomworkshare 66 is presenting

Abdul Raffi means.....minimum points

12:05 PM | Latest trends in Green Buildings

System tray: 23°C Cloudy, 14-09-2022

People

- Add people
- ES2ICE07 RAGUL R
- G chandana Gowdu
- GODUGU NAGARAJA
- Gopal Dhanjode
- gopalakrishnan r
- Gopinath V
- Govardhan (Assistant Pro...
- gowthamipriya gandam
- Hardik Chauhan
- Haris Haneef
- Harsha vardhan Nallamilli

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REC | Tanmay Gupta is presenting



Mr. Harshit Bahl
Director – Technical,
Suntech AG

GREEN WALLS AND BIOPHILIC DESIGN

Tanmay Gupta

Abbasi Moha...

harshit bahl

Karthikeyan Mur...

AJAY RANA

CHITTE CHETAN...

studioworkshare...

215 others

You

People

Add people

- GODUGU NAGARAJA
- Gopal Dhanjode
- Gopinath V
- Govind Goutham R
- Hardik Chauhan
- Hari Balaji M 3302
- Haris Haneef
- Harsh Anand Yadav
- Harsha vardhan Nallamilli
- harshit bahl
- HIMANSHU ARORA

12:19 PM | Latest trends in Green Buildings

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REC | harshit bahl is presenting



BIOPHILIC DESIGN

SUNTECH AG

Tanmay Gupta

Abbasi Moha...

harshit bahl

Karthikeyan Mur...

AJAY RANA

CHITTE CHETAN...

3017 Naveen ...

213 others

You

In-call messages

Let everyone send messages

Messages are being recorded with the call

VIJAY SANKAR K sriet.ac.in 12:19 PM
Sir,

ILIYAS RASOOLBHAI 12:19 PM
Excellent session & informative....

VIJAY SANKAR K sriet.ac.in 12:20 PM
Sir, the session is very informative and excellent presentation sir. can you please send the attendance link.

NANDHINI sriet.ac.in 12:20 PM
very informative session sir

PREAM KUMAR S sriet.ac.in 12:21 PM
Excellent session sir. Thank you sir

Send a message to everyone. Messages are also recorded.

12:22 PM | Latest trends in Green Buildings

meet.google.com/zoj-pzkt-tru?authuser=0&pli=1

REC | harshit bahl is presenting

Typical business operating costs¹

A 10% variation applied equally to each cost has a far from equal impact

Cost Category	Percentage	Impact
Energy costs	1%	+/- 0.1%
Rental costs	9%	+/- 0.9%
Staff costs in salaries and benefits	90%	+/- 9.0%

Tanmay Gupta

Abbasi Moha...

harshit bahl

Karthikeyan Mur...

AJAY RANA

CHITTE CHETAN...

3017 Naveen ...

213 others

In-call messages

Let everyone send messages

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VIJAY SANKAR K sriet.ac.in 12:20 PM
Sir, the session is very informative and excellent presentation sir. can you please send the attendance link.

NANDHINI sriet.ac.in 12:20 PM
very informative session sir

PREAM KUMAR S sriet.ac.in 12:21 PM
Excellent session sir. Thank you sir

Rakesh Pandey 12:23 PM
Excellent session

Pranab Sharma 12:24 PM
Excellent session

Send a message to everyone. Messages are also recorded.

Abbasi Mohammed Shoab and 3017 Naveen Murali 19 MSEC have raised hands

12:24 PM | Latest trends in Green Buildings

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REC | harshit bahl is presenting

airGROW NAAS- NATURE AS A SERVICE

Air handling

Free Standing

Hybrid

Fully Integrated

CHITTE CHETAN (JAIPRA...

harshit bahl

Tanmay Gupta

Muthuraman P

Karthikeyan Murugan

Abbasi Mohammed Sh...

3017 Naveen Murali 19 ...

194 others

You

12:35 PM | Latest trends in Green Buildings