



2023 SEVENTH INTERNATIONAL CONFERENCE ON
IMAGE INFORMATION PROCESSING
November 22 – 24, 2023
Jaypee University of Information Technology
Waknaghat, District Solan, Near Shimla, Himachal Pradesh, INDIA



IEEE

2023 Seventh International Conference on Image Information Processing (ICIIP-2023)
IEEE Conference Record Number #61524

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2023 Seventh International Conference
on
Image Information Processing
(ICIIP-2023)
November 22 - 24, 2023
Jaypee University of Information Technology
Waknaghat, District Solan, Near Shimla, Himachal Pradesh, INDIA

[Conference Schedule](#)

[Conference Session Schedule](#)

Papers presented in the Conference (upon acceptance through the established review process), are eligible for submission for uploading to IEEE Xplore, subject to further scrutiny on quality and consequent clearance at that end

IEEE Conference Record number: #61524
IEEE Catalogue number: CFP2369N-ART ; ISBN: 979-8-3503-7140-6 (XPLORE COMPLIANT)
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SCOPUS Indexing of previous ICIIPs		
SJR H-Index=15	SJR H-Index=9	SJR H-Index=8
ICIIP 2011 - Proceedings: 2011 International Conference on...	2013 IEEE 2nd International Conference on Image...	Proceedings of 2015 3rd International Conference on...
Not yet assigned quartile	Not yet assigned quartile	Not yet assigned quartile
SJR 2023 0	SJR 2023 0	SJR 2023 0
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The ICIIP (International Conference on Image Information Processing) conference has been a biennial Conference at Jaypee University of Information Technology, Wanknaghat, Solan, H.P., India since 2011 with sponsorship of IEEE. The conference has become a platform for Computer Science researchers from India and abroad to exchange research results and ideas on the foundations and applications of Image Processing and related areas.

The area of Imaging Science and Image Computing has grown enormously in the past decade with wide ranging applications encompassing *multiple disciplines of Computer Science & Technology, Information Systems, Information Theory & Sciences, Artificial Intelligence, Cognition, Cybernetics, Medical Sciences, Mathematics, Physics and Psychology*. It is primarily concerned with the process of Image generation, Visualization, Structuring of large real life image data and Analysis for classification, prediction based on machine learning, behavioral analysis and virtualization. From the perspective of computer science and information technology, the subareas of Image Processing, Computer Vision, Image security & forensics, Pattern recognition and Computer Graphics form the core areas and the Seventh International Conference on Image Information Processing (ICIIP 2023) is being organized by and being held at JUIT Wanknaghat, Solan, H.P., India during November 2023, will cover all of these core areas. This time, theme of the conference is ‘**Image Processing for Urban Planning**’. However, ICIIP 2023 solicits original papers contributions in all of the related areas. The topics listed under each of these core areas is not meant to be exhaustive.

Conference proceedings that meet IEEE quality review standards may be eligible for inclusion in the IEEE Xplore Digital Library. IEEE reserves the right not to publish any proceedings that do not meet these standards. Conference related communications such as conference website, email, direct mail solicitation, etc. may not reference or guarantee inclusion in the IEEE Xplore Digital Library.

The objective of the conference is to bring together researchers in the academic institutions and R&D Research Labs, working in the related fields and to use this as a forum to exchange views and ideas in these topics of current research.

Technical Tracks :

1. Medical Image Data Analytics
2. Image Processing for Urban Planning
3. Computational Photography & Applications
4. Multimedia Systems & Applications
5. Digital Image Forensics & Security
6. Computer Vision
7. Pattern Recognition

Important Dates

Full paper Submission Deadline	November 05, 2023
Acceptance Notification Deadline	November 09, 2023
Camera Ready Manuscript Deadline	November 10, 2023



Conference registration Deadline	
Early Bird Registration	Upto November 03, 2023
Late Registration	Upto November 11, 2023
Conference Dates	November 22 - 24, 2023

Organized by

Jaypee University of Information Technology, Wahnaghat, District Solan, Near Shimla, Himachal Pradesh, INDIA
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**2nd International Conference
on
Biotechnology and Bioinformatics
(ICBAB-2023)**



11-13, July 2023

Organized by



**Department of Biotechnology and Bioinformatics,
Jaypee University of Information Technology Solan, Himachal Pradesh, INDIA**



**Venue: Department of Biotechnology and Bioinformatics
Jaypee University of Information Technology, Solan
Himachal Pradesh, INDIA**



Jaypee University of Information Technology Solan:

The JUIT was conceived by a joint vision of the Govt of Himachal Pradesh and the Founder Chairman of Jaypee Group Shri Jai Prakash Gaur in 2000. Land was provided on lease by the State Govt. and the university was established by Act No. 14 of 2002 vide Extraordinary Gazette Notification of the Govt. of Himachal Pradesh dated May 23, 2002. The University Grants Commission accorded its approval under Section 2(f) of the UGC Act vide their Letter No. F 9-10/2002(CPP-1) dated 09 Dec 2002. The JUIT is also a member of the Association of Indian Universities (AIU).

The academic activities of JUIT commenced from July 2002 and currently offering undergraduate B. Tech. degree programs in Bioinformatics, Biotechnology, Civil Engineering, Civil Engineering with Computer Application, Computer Science & Engineering, Electronics & Communication Engineering, Electronics & Computer Engineering and Information Technology.

Besides B. Tech. programs, the university is presently offering M.Tech. in Biotechnology, Civil Engineering with specialization in Structural Engineering, Construction Management and Environmental Engineering, Computer Science and Engineering, Computer Science and Engineering with specialization in Information Security and Data Science, Electronics and Communication Engineering, Electronics and Communication Engineering with specialization in Internet of Things, Electronics and Computer Engineering. BBA and B. Sc. Mathematics and M.Sc. Programs are also offered in Physics, Biotechnology, and Microbiology. Ph.D. programs are offered in Biotechnology, Bioinformatics, Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Humanities and Social Sciences, Mathematics, Physics and Material Science.

About Wagnaghat:

Wagnaghat is located in Solan district of Himachal Pradesh. Wagnaghat is located midway between Shimla and Solan; around 25 km each, at an altitude of 1,700 m (5,600 ft) on average. Wagnaghat has a cool climate. Wagnaghat is easily accessible by road. It is 93 km (58 miles) from Chandigarh.

About the Conference:

ICBAB-2 aims to bring together leading academicians, industry experts, research scientists and scholars to exchange and share their knowledge, experiences and findings across multiple aspects. The goal of the conference is to provide a potential platform for exchanging and updating knowledge in Biotechnology and Bioinformatics research and innovation. The conference has also been planned to include a discussion forum amongst the selected academicians and industry delegates, researchers, and other potential resource personnel to enable networking opportunities.

Theme of the conference:

Topics and Scopes ICBAB-2023 aims to provide an innovative and comprehensive overview of Biotechnology and Bioinformatics. A focus on recent research advances including:

- ❖ Biotechnology: Biomedicine, biopharmaceuticals, enzymology, and toxicology
- ❖ Bioinformatics: Biosimilar, NGS, drug discovery, systems biology
- ❖ Agricultural & food science and industrial biotechnology
- ❖ Microbiology, virology, cytology and immunology
- ❖ Biological macromolecules, proteins and nucleic acids
- ❖ Biomaterials, biopolymers and bioenergy
- ❖ Applications in bioengineering, biomedical engineering & technology; and other related fields



Call for Abstract:

Participants are invited to submit abstract on their research work, hypothesis (max. 300 words and 6 key word) that should be written in times new roman with 12 font size using microsoft word with 1.5 spacing. Corresponding author must be highilhted by asterisk (*) with complete mailing address and affiliation.

Conference Sessions:

The conference sessions covering all the themes and subthemes will be supported by the plenary talk, invited talk, oral presentation and poster presentation by eminent scientists and academicians from india and abroad on the relevant topics.

Poster presentation:

All the participant are requested to prepare their poster that should not exceed the dimension 1.2×1.0 m and furnished with title, author name, affiliation, introduction, methods and materials, results and discussion, conclusion. Clear picture, diagram, graph, and short table are highly encouraged to use in posters to win the best poster prize.

Conference Fee and Registration

Categories	Indian (INR)	
	Before the due date	On spot Registration
Students (UG/PG)	2000	2500
Ph.D. Scholar, JRF, SRF & Post-doctoral fellow	2500	3000
Delegates, Scientists and Professionals	3000	3500
Industries and other organization	5000	6000

Conference registration fee is non refundable and non transferable. Registration fee will cover only hospitality and kit; it does not include accomondation charges. For further queries and assistance, please contact to organizing commette members.

Accomondation:

Accomondation for all the participant will be arranged at the university campus and Waknaghat near the conference venue on prior request and pre payment basis or participant arrange their own accomondation themselves. For further queries and assistance, please contact to organizing commette members.

Accomondation categories	Pay/Day (Individuals non sharing)	Pay/Day (Individuals sharing)
University Hostel	500	300
Near by Hotels	2000-2500	1000-1500



Mode of Payment and Account detail	
Name of the Bank:	Punjab National Bank The Mall Shimla
Beneficiary Name :	Jaypee University of Information Technology
Account No.:	0427002100682105
IFSC/RTGS/NEFT Code:	PUNB0042700
A/c type:	Current

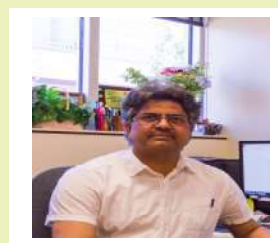
Important Dates	
Last date of Abstract submission	5 July 2023
Last date of Accommodation request	5 July 2023
Registration via online mode	https://forms.gle/wg5jw73CCeGhudKP9



Prof. Vladimír Havlicek
Institute of Microbiology
Academy of Sciences of the
Czech Republic



Dr. Jessie Uehling
Mycological research lab
Oregon State University
USA



Prof. Rajesh K. Sani
South Dakota School of
Mines and Technology
(SDSMT)-USA



**Dr. Pradeep Kumar
Shukla**
College of Medicine
Memphis-USA



Professor Rup Lal
Department of Zoology
University of Delhi



Dr. Taruna Madan Gupta
Scientist-F
NIRRH-Mumbai



Dr. Priyanka Priyadarsini
Head of R& D Biologicals,
Panacea Biotech-Delhi



Dr. Sandeep K Sharma
Senior Scientist
CSIR-IITR Lucknow



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Conveners

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**2nd International Conference on Biotechnology and Bioinformatics
ICBAB-2**

July 11-13, 2023

Venue: Department of Biotechnology and Bioinformatics, Jaypee University of Information
Technology Solan, Himachal Pradesh, INDIA

Registration Form

Name of the applicant: Mr./ Ms./ Dr./ Prof. (In block letters):

Designation:

Organization/University/Institute:

Mailing address with pin code:

Email address:

Mobile number:

Gender:

Title of the abstract/paper (oral/poster):

Name of accompanying persons (if any):

Accommodation required (Yes/No):

Mode of Payment and Account detail

Name of the Bank:	Punjab National Bank The Mall, Shimla
Beneficiary Name:	Jaypee University of Information Technology
Account No.:	0427002100682105
IFSC /RTGS/NEFT Code:	PUNB0042700
A/c (Type):	Current

**Complete your registration and or submit via online mode using the link; <https://forms.gle/wg5jw73CCeGhudKP9>
or kindly send the scanned copy of duly filled application form along with fee detail to icbab2@juitsolan.in**

Fee details

Receipt number (IFSC/NEFT/RTGS):

Date of payment:

Amount:

Date of arrival (for accommodation purpose):

Date of departure:

Date/Place

Signature of the applicant
Name:





3rd National Science Day Symposium
(NSDS) - 2024
Date: 28-Feb-2024
Department of Physics and Materials Science
Department of Biotechnology & Bioinformatics



Last date of registration: 22-Feb-2024

- [Home Brochure NSDS 2024](#)
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Latest News

- 3rd National Science Day Symposium (NSDS) - 2024:
28-Feb-2024

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3rd National Science Day Symposium
(NSDS) - 2024
February 28, 2024
Jaypee University of Information Technology
Waknaghat, District Solan, Near Shimla, Himachal Pradesh, INDIA



HOME

[National Science Day \(NSD\) and Purpose of the Celebration](#)

National Science Day (NSD) is celebrated every year on February 28. On this day in 1928, Dr. C. V. Raman discovered a phenomenon of scattering of photons later known as the '**Raman Effect**' after his name. After two years, in 1930, he got the **Nobel Prize** for this remarkable discovery, the first Nobel Prize for India in Science. National Science Day is celebrated in India yearly to mark the discovery of his famous phenomenon. Govt. of India declared the day as National Science Day in 1986. The first National Science Day was celebrated on February 28, 1987. The fundamental Objective of the NSD is to propagate the message of the importance of Science and its application among the people and to promote the spirit of curiosity, creativity and scientific temperament in the young generation of India. Other than these primary objectives, NSD is celebrated as one of the leading science festivals in India every year to display all the activities, efforts and achievements in the field of Science for the welfare of human beings, to discuss the issues and to implement new technologies for the development of the Science, to provide an opportunity to the scientific minded citizens in the country, to encourage the people for Science as well as popularize the Science and Technology.

Proposed Activities on National Science Day (February 28, 2024)

Organization of Third National Science Day Symposium (NSDS):

The third edition of NSDS - 2024 will be organized on February 28, 2024, with collective participation from schools, colleges, Institutions, Universities and JUIT students and faculty members. It will mainly include the following components:

(a) Expert, Plenary and Popular lectures for school and college students:

Public and popular lectures have been effective methods of addressing people in general. Therefore, at the commencement of National Science Day, popular lectures on a topic in coordination with this year's theme or any topic of current interest will be imperative to demonstrate the importance of Science given by a distinguished senior scientist/professor. Faculty from JUIT will be delivering talks on recent trends and developments in Science and Technology. Students from Himachal Pradesh schools/colleges and other parts of country will be invited to attend this event.

(b) Children's Science Congress and Science exhibition based on themes and concepts, including oral, posters and models:

Children's Science Congress will be the major attraction this year. National Science Day is celebrated to realize and appreciate the accomplishments and participation of individuals in Science and Technology. Therefore, National Science Day would be the finest day to promote aspiring innovators and young minds to demonstrate their talent through science projects in various forms. Students can fabricate innovative models and demonstrate them. Science exhibitions can reveal various science projects from multiple academic institutes in one place and help make students aware of the importance of Science and Technology. Topics of Science for the exhibition will be but not limited to (1) Scientists in action, (2) Biology and Biotechnology; (3) Bioinformatics (4) Chemistry; (5) Earth and Space; (6) Physics and Astronomy, (7) Engineering or any other theme of interest. Abstracts for oral presentations will also be invited from College/University UG, PG and PhD students. Oral presentations and poster-making competitions will be a mode to extend awareness about Science and Technology. Digital abstract book will be prepared for all the accepted abstracts. A soft copy of the book will be disseminated to all the registered participants. School students will make posters on the themes and concepts. This presentation will exhibit the creativity and knowledge of the students about the subject and enhance their presentation skills. Attractive prizes will be awarded for the poster and model-making competition to motivate the participating students and to ignite young minds of India for a better and sustainable future.

(c) Quiz and debates:

Quizzes are a great way to increase students' knowledge through competition. The quiz competition will consist of multiple-choice questions (MCQs). The quiz will have the inclusion of questions from different topics of Science. Some quizzes will be organized in various schools during February, where a team of JUIT faculty members will visit to organize the quizzes on Science. In the debates, students' knowledge can be enhanced on a particular topic by direct communication between two teams or two individuals. Furthermore, each group or individual has to prove why they are correct by proposing logical arguments based on facts and statistics. For example, a topic can be: *Is AI a boon or curse? Or Is [research on new viruses](#) a blessing or a curse? Or Is [social media](#) a blessing or a curse? Role of Science in India's overall Growth and Development/ Role of Bioinformatics in Biomedical and healthcare Technologies etc.*

(d) Workshop for Teachers

A special one-day workshop for the school teachers will be another special feature of this year's NSDS-2024 event. The main purpose is to sensitize science teachers to various engineering domains and their applications in real-life situations. This workshop is with an expectation that if teachers are aware of it, they can communicate a similar message to their respective students. Recent advancements in Physics including Nanotechnology and Materials Science, Artificial Intelligence, Data Science and Machine Learning along with Biotechnology and Bioinformatics will be the major highlights of the workshop.

JUIT Campus Visit

All the external participants which include school/college students and teachers joining the events, will be given a full campus tour, including departmental course labs, research labs, library, classrooms and other existing facilities of JUIT.



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**Center of Healthcare Technologies and Informatics (CEHTI),
Department of Biotechnology and Bioinformatics, and Department
of Mathematics, Jaypee University of Information Technology
(JUIT) Organized
4th National Workshop on Statistical Techniques in Biological,
Computational and Medical Sciences (STBMS)**

Jaypee University of Information Technology (JUIT) has stepped up again with the successful inauguration of effectual fourth one-week national workshop entitled “Statistical Techniques in Biological, Computational and Medical Sciences (STBMS-2024) version 4.0. STBMS workshop is conducted biannually by the Centre of Healthcare Technologies and Informatics (CEHTI), Department of Biotechnology & Bioinformatics jointly with Department of Mathematics since 2016.

STBMS-4.0 has been scheduled from 10 June to 15 June 2024 giving the opportunity to enhance collaborative knowledge in Biological, computational and Medical sciences with the help of statistical techniques. Undergraduate students, Ph.D. Scholars and faculty members (37 participants) from different regions of India which includes Jammu, Gujarat, Haryana, Chhattisgarh and Himachal Pradesh, have joined with workshop showed the versatility of the program.

Inaugural program held on 10 June 2024 (Monday) started with the Saraswati Vandana in the esteemed presence of Chief Guest & Session speaker “Prof. Suresh Kumar Sharma” along with Vice-Chancellor of JUIT Prof. Rajendra Kumar Sharma, Dean A&R, Prof Ashok Kumar Gupta and Registrar & Dean of students, Maj Gen Rakesh Bassi (Retd.). Workshop Convener Prof Tiratha Raj Singh along with the Coordinators Dr. Neel Kanth and Dr. Ragini Raj Singh welcomed all with the projection of STBMS and its beneficial activities covering lectures and





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Hands-on-Sessions. Head of the department of Mathematics Prof Rakesh Kumar Bajaj and Head of the department of Biotechnology and Bioinformatics, Prof Sudhir Syal also welcomed the participants. Prof Tiratha Raj Singh also enlightens the progressive knowledge being covered in the workshop during last decade. First two days were based upon the foundation of statistics followed by advanced level to analyze the data of myriad nature. Prof Suresh Kumar Sharma delivered talks on the basics of statistics, answering the question “Why statistics in Biosciences?”, Correlation, regression Parametric and Non-Parametric test and hands on sessions using SPSS. Prof Tiratha Raj Singh explained about Bioinformatics: A tool and its application in Biomedical and Healthcare. Next three days sessions were on Machine learning and Deep learning techniques, PCA, LDA and factor analysis. Last part of the day was conducted by Prof. Tiratha Raj Singh with a session on Bioinformatics and Healthcare Technologies. A hands on exercise was also conducted on the same topic.

Third day started with a special session on Machine Learning and Deep learning. First half was covered by the dynamic lectures by Dr. Nishant Jain, Department of ECE, JUIT followed by a demonstration cum hands on sessions by Dr. Vipul Kumar, Department of CSE, JUIT. Participants got a special flavor for ML-DL approaches and their applications. Fourth day was a complete excursion tour to Shimla where participants visited Advanced Studies, Jakhu Temple and Mall Road along with Ridge etc. and enjoyed the whole day under the guidance of Dr. Rahul Singh and his team.

Fifth day started with an interactive session by Dr. BK Pathak on Probability. Dr. Saurabh Srivastava then introduced R to the participants with lots of hands-on exercises through R and probability. All enjoyed these sessions. In the afternoon Prof. Amar Nath Gill joined the STBMS-2024 speakers’ team and took four sessions in Friday afternoon and Saturday morning. He explained about multiple regression, PCA, factor analysis and multiple comparison procedures. His extensive experience gave a different level of satisfaction about statistics to the participants.

Valedictory session was organized on Saturday where all the participants received their certificates from VC sir. Four faculty members who joined from Jammu, Surat and Haryana,





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were also felicitated. Feedback was also taken from the participants. STBMS was concluded on Saturday, 15th June, 2024 with a positive note and lots of learning of the participants who joined from JUIT as well as other parts of India. It is anticipated that this series of workshop is fruitful for the analysis of myriad of data types through statistical techniques. Participants were very happy with the quality of speakers, contents coverage and the hospitality provided to them by JUIT. It was another successful STBMS conducted with the efforts of team STBMS. Technical and hospitality supports were provided by Mr. Ismail, Mrs. Somlata Sharma, Mr Baleshwar Shukla, Mrs Sonika Gupta, Mrs Mamta Mishra, Mr. Rohit Sharma and Dr. Rahul Shrivastava along with Dr. Rahul Singh as student coordinator and his team of PhD students. Prof. Tiratha Raj Singh served as convener and Dr. Neel Kanth and Dr. Ragini Raj Singh as coordinators for STBMS-2024. No need to mention that CEHTI is continuously organizing such events for the benefit of students, academicians and researchers.

Glimpse of STBMS-2024





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STBMS-2024 PRESS RELEASE: Print and Digital Media

For more details regarding this national workshop, please find appended newspapers clippings and links published in various media channels:

[JUIT Hosts 4th National Workshop on Statistical Techniques in Biosciences-HT](#)

[JUIT organizes 4th National Workshop on STBMS-CNI](#)

[JUIT Organizing 4th National Workshop on STBMS-SN](#)

[JUIT organizes 4th National Workshop on STBMS-ET](#)



एसटीबीएमएस में सांख्यिकीय तकनीकों पर चौथी राष्ट्रीय कार्यशाला का आयोजन कर रहा जेयूआईटी

एजेंसी ■ नई दिल्ली

जेपी सूचना प्रौद्योगिकी विवि (जेयूआईटी) ने जैविक, कंप्यूटेशनल और चिकित्सा विज्ञान में सांख्यिकीय तकनीक (एसटीबीएमएस-2024) संस्करण 4.0 नामक प्रभावशाली चौथी एक सप्ताह की राष्ट्रीय कार्यशाला के सफल उद्घाटन के साथ फिर से कदम बढ़ाया है। एसटीबीएमएस कार्यशाला 2016 से सेंट ऑफ हेल्थकेयर टेक्नोलॉजीज एंड इंफॉर्मेटिक्स (सोईएचटीआई), जैव प्रौद्योगिकी और जैव सूचना विज्ञान विभाग और गणित विभाग द्वारा संयुक्त रूप से साल में दो बार आयोजित की जाती है। सांख्यिकीय तकनीकों की मदद से जैविक, कंप्यूटेशनल और चिकित्सा विज्ञान में सहयोगात्मक ज्ञान को बढ़ाने का अवसर देते हुए एसटीबीएमएस 4.0 को 10 जून को आयोजित उद्घाटन कार्यक्रम मुख्य अतिथि एवं सत्र वक्ता प्रोफेसर की गरिमामयी



उपस्थिति में सरस्वती वंदना के साथ शुरू हुआ। सुरेश कुमार शर्मा के साथ जेयूआईटी के कुलपति प्रोफेसर राजेंद्र कुमार शर्मा, डीन ए एंड आर प्रोफेसर अशोक कुमार गुप्ता और रजिस्ट्रार एवं डीन ऑफ स्टूडेंट्स मेजर जनरल राकेश बस्ती (सेवानिवृत्त) शामिल

हुए। कार्यशाला के संयोजक प्रोफेसर तीर्थ राज सिंह ने समन्वयक डॉ. नील कंठ और डॉ. रागिनी राज सिंह के साथ एसटीबीएमएस के प्रक्षेपण और व्याख्यान और व्यावहारिक सत्रों को कवर करने वाली इसकी लाभकारी गतिविधियों के साथ सभी

का स्वागत किया। गणित विभाग के प्रमुख प्रोफेसर राकेश कुमार बजाज और जैव प्रौद्योगिकी और जैव सूचना विज्ञान विभाग के प्रमुख प्रोफेसर सुधीर स्थाल ने भी प्रतिभागियों का स्वागत किया। प्रोफेसर तीर्थ राज सिंह पिछले दशक के दौरान कार्यशाला में शामिल किए जा रहे प्रगतिशील ज्ञान पर भी प्रकाश डालते हैं। पहले दो दिन आंकड़ों की नींव पर आधारित थे और उसके बाद असंख्य प्रकृति के डेटा का उन्नत स्तर पर विश्लेषण किया गया। प्रोफेसर सुरेश कुमार शर्मा ने सांख्यिकी की मूल बातों पर बातचीत की, बायोसाइंसेज में सांख्यिकी क्यों? सहसंबंध, प्रतिगमन पैरामीट्रिक और गैर-पैरामीट्रिक परीक्षण और एसपीएसएस का उपयोग करके व्यावहारिक सत्रों का उत्तर दिया। प्रोफेसर तीर्थ राज सिंह ने जैव सूचना विज्ञान : एक उपकरण और बायोमैडिकल और हेल्थकेयर में इसके अनुप्रयोग के बारे में बताया।

हिमाचल दस्तक

शिमला, शनिवार 15 जून, 2024

नई-नई तकनीक सीखने जेपी में जुटे देशभर के छात्र

जेयूआईटी में कार्यशाला का शुभारंभ, एक-दूसरे के विचारों का किया आदान-प्रदान, 37 प्रतिभागियों ने लिया भाग

दिव्य हिमाचल व्यूरो –सोलन

जेपी सूचना प्रौद्योगिकी विश्वविद्यालय जैविक कंप्यूटेशनल और चिकित्सा विज्ञान में सांख्यिकीय तकनीकों पर चौथी राष्ट्रीय कार्यशाला का आयोजन कर रहा है। जेयूआईटी ने एसटीबीएमएस संस्करण 4.0 नामक प्रभावशाली चौथी एक सप्ताह की राष्ट्रीय कार्यशाला के सफल उद्घाटन के साथ फिर से कदम बढ़ाया है। खातक छात्र, पीएचडी, भारत के विभिन्न क्षेत्रों जिनमें जम्मू, गुजरात, हरियाणा,

छत्तीसगढ़ और हिमाचल प्रदेश शामिल हैं, से विद्वानों और संकाय सदस्यों (37 प्रतिभागियों) ने कार्यशाला में भाग लिया और कार्यक्रम की बहुमुखी प्रतिभा को दर्शाया। उद्घाटन कार्यक्रम मुख्य अतिथि एवं सत्र वक्ता प्रोफेसर की उपस्थिति में सरस्वती वंदना के साथ शुरू हुआ। सुरेश कुमार शर्मा के साथ जेयूआईटी के कुलपति प्रोफेसर राजेंद्र कुमार शर्मा, डीन एंड आर प्रोफेसर अशोक कुमार गुप्ता और रजिस्ट्रार एवं डीन ऑफ स्टूडेंट्स मेजर जनरल राकेश बस्ती (सेवानिवृत्त) शामिल हुए।



कार्यशाला के संयोजक प्रोफेसर तीर्थ राज सिंह ने समन्वयक डॉ. नील कंठ और डॉ. रागिनी राज सिंह के साथ एसटीबीएमएस के प्रक्षेपण और व्याख्यान और व्यावहारिक

सत्रों को कवर करने वाली इसकी लाभकारी गतिविधियों के साथ आभार व्यक्त किया। गणित विभाग के प्रमुख प्रोफेसर राकेश कुमार बजाज और जैव प्रौद्योगिकी और

जैव सूचना विज्ञान विभाग के प्रमुख प्रोफेसर सुधीर स्थाल ने भी प्रतिभागियों का स्वागत किया। प्रोफेसर तीर्थ राज सिंह पिछले दशक के दौरान कार्यशाला में शामिल किए जा रहे प्रगतिशील ज्ञान पर भी प्रकाश डालते हैं। पहले दो दिन आंकड़ों की नींव पर आधारित थे और उसके बाद असंख्य प्रकृति के डेटा का उन्नत स्तर पर विश्लेषण किया गया। प्रोफेसर सुरेश कुमार

शर्मा ने सांख्यिकी की मूल बातों पर बातचीत की, बायोसाइंसेज में सांख्यिकी क्यों, सहसंबंध, प्रतिगमन पैरामीट्रिक और गैर-पैरामीट्रिक परीक्षण और एसपीएसएस का उपयोग करके व्यावहारिक सत्रों का उत्तर दिया। प्रोफेसर तीर्थ राज सिंह ने जैव सूचना विज्ञान एक उपकरण और बायोमैडिकल और हेल्थकेयर में इसके अनुप्रयोग के बारे में बताया। अगले तीन दिन के सत्र मशीन लर्निंग और डीप लर्निंग तकनीक, पीसीए, एलडीए और कारक विश्लेषण पर होंगे।



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जेयूआईटी जैविक, कम्प्यूटेशनल और चिकित्सा में सांख्यिकीय तकनीकों पर राष्ट्रीय कार्यशाला का आयोजन

सर्वेरा न्यूज, कास.

नई दिल्ली, 12 जून : जेपी सूचना प्रौद्योगिकी विश्वविद्यालय (जेयूआईटी) ने जैविक, कम्प्यूटेशनल और चिकित्सा विज्ञान में सांख्यिकीय तकनीक (एसटीबीएमएस-2024) संस्करण 4.0 नामक प्रभावशाली चौथी एक सप्ताह की राष्ट्रीय कार्यशाला के सफल उद्घाटन के साथ फिर से कदम बढ़ाया है। एसटीबीएमएस कार्यशाला 2016 से सेंटर ऑफ हेल्थकेयर टेक्नोलॉजीज एंड इंफॉर्मेटिक्स (सीईएचटीआई), जैव प्रौद्योगिकी और जैव सूचना विज्ञान विभाग और गणित विभाग द्वारा संयुक्त रूप से साल में दो बार आयोजित की जाती है। सांख्यिकीय तकनीकों की मदद से जैविक, कम्प्यूटेशनल और चिकित्सा विज्ञान में सहयोगात्मक

ज्ञान को बढ़ाने का अवसर देते हुए एसटीबीएमएस -40 को 10 जून से 15 जून 2024 तक निर्धारित किया गया है। स्नातक छात्र, पीएच.डी. भारत के विभिन्न क्षेत्रों जिनमें जम्मू, गुजरात, हरियाणा, छत्तीसगढ़ और हिमाचल प्रदेश शामिल हैं, से विद्वानों और संकाय सदस्यों (37 प्रतिभागियों) ने कार्यशाला में भाग लिया और कार्यक्रम की बहुमुखी प्रतिभा को दर्शाया। 10 जून को आयोजित उद्घाटन कार्यक्रम मुख्य अतिथि एवं सत्र वक्ता प्रोफेसर की गरिमामयी उपस्थिति में सरस्वती चंदना के साथ शुरू हुआ। सुरेश कुमार शर्मा के साथ जेयूआईटी के कुलपति प्रोफेसर राजेंद्र कुमार शर्मा, डीन ए. एंड. आर. प्रोफेसर अशोक कुमार गुप्ता और रजिस्ट्रार एवं डीन ऑफ स्टूडेंट्स मेजर जनरल राकेश बस्सी (संवर्धित) शामिल हुए।



JUIT organizes 4th National Workshop on Statistical Techniques in Biological, Computational, and Medical Sciences

AGENCIES

SOLAN, June 13: Jaypee University of Information Technology (JUIT) has successfully inaugurated the 4th edition of the National Workshop on Statistical Techniques in Biological, Computational, and Medical Sciences (STBMS-2024). This one-week workshop, running from June 10 to June 15, 2024, aims to enhance collaborative knowledge across these fields using statistical techniques.

Organized by the Centre of Healthcare Technologies and Informatics (CEHTI), along with the Departments of Biotechnology & Bioinformatics and Mathematics, the STBMS workshop has been a biennial event since its inception in 2016. This year's workshop has attracted 37 participants, including undergraduate students, Ph.D. scholars, and faculty members from various regions of India, such as



Participants during a workshop organized by JUIT at Solan.

Jammu, Gujarat, Haryana, Chhattisgarh, and Himachal Pradesh.

The inaugural ceremony, held on June 10, 2024, commenced with the Saraswati Vandana and featured the esteemed presence of Chief Guest and session speaker, Prof. Suresh Kumar Sharma. The event was also graced by JUIT Vice-Chancellor Prof. Rajendra Kumar Sharma, Dean A&R Prof. Ashok Kumar Gupta, and Registrar & Dean of Students Maj. Gen. Rakesh Bassi (Retd.).

Workshop Convener Prof. Tiratha Raj Singh, along with Coordinators Dr. Neel Kanth and Dr. Ragini Raj Singh, welcomed the participants and highlighted the workshop's objectives and activities, which include lectures and hands-on sessions.

Prof. Rakesh Kumar Bajaj, Head of the Department of Mathematics, and Prof. Sudhir Syal, Head of the Department of Biotechnology and Bioinformatics, also addressed the participants. Prof. Tiratha Raj

Singh provided insights into the progressive knowledge covered in the workshop over the past decade.

The first two days of the workshop focused on the foundational aspects of statistics, advancing to higher-level data analysis techniques. Prof. Suresh Kumar Sharma delivered talks on the basics of statistics, the importance of statistics in biosciences, correlation and regression, parametric and non-parametric tests, and hands-on sessions using SPSS. Prof. Tiratha Raj Singh discussed the application of bioinformatics in biomedical and healthcare fields.

The subsequent three days of the workshop will cover machine learning and deep learning techniques, Principal Component Analysis (PCA), Linear Discriminant Analysis (LDA), and factor analysis. The workshop will conclude on Saturday, June 15, 2024.

EARLY TIMES, JAMMU FRIDAY, JUNE 14, 2024



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Webinar

On

“Green & Resilient Eco-sensitive Approach for Hill Ecosystem”

Introduction

The Civil Engineering Department of Jaypee University of Information Technology, Wagnaghat, in collaboration with Indian Green Building Council, organized a webinar on "Green & Resilient Eco-sensitive Approach for Hill Ecosystem," as part of work green building week initiative. The two-day event took place on September 12–13, 2023, between 11:00 AM and 1:00 PM. The event aimed to bring together various stakeholders of the Hill Eco System, including government officials, architects, developers, academia, industry experts, environmentalists, and local communities. The focus was on sharing insights, experiences, and ideas for building a more resilient Himachal Pradesh.

The webinar series on Green Hill Habitat delved into the critical topic of sustainable development in hill areas. The webinar emphasized the importance of a Green Hill Habitat rating system, which aims to guide sustainable construction and development practices in hilly regions. Speakers discussed various aspects such as disaster risk governance, community involvement in disaster management, and the need for holistic land management. They also highlighted the importance of preserving natural resources and implementing green building practices to improve both tangible and intangible aspects of life in hill areas.

One significant point made during the webinar was the role of community capacity in disaster management. The speakers stressed that communities need to be well-informed and prepared to effectively cope with disaster situations. They also emphasized the importance of scientific studies on landslides and the need for the involvement of various stakeholders, including government bodies, local organizations, and communities, in disaster management decisions. The use of technology for enhanced communication and preparedness was also discussed.

The webinar also touched upon the importance of planned and sustainable development, especially in the context of industrial growth and tourism in hill areas. Speakers warned against the negative impacts of unplanned development, such as pollution, water scarcity, and destruction of natural habitats. They emphasized the need for a balanced approach that considers both the needs of the nation and the local community. Overall, the webinar made a strong case for the urgent need for sustainable and strategic approaches to managing and developing hill areas in India.



Key Highlights



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- **Keynote Address by Recognized Experts:** Experts from various fields shared their knowledge on regional planning, benchmarking tools, and resilient construction practices in hilly areas.
- **Regional Planning in Hilly Context:** Discussions were held on the unique challenges and opportunities in planning for hilly regions.
- **Benchmarking Tool for Greening of Hill Towns:** Tools and metrics for assessing and improving the sustainability of hill towns were presented.
- **Successful Hill Area Practices and Resilient Construction:** Case studies and best practices were shared to inspire future projects.
- **Hill Architecture Practices in Indian Context:** The webinar explored traditional and modern architectural practices suitable for hilly regions.

Day 1: Mountain Livelihood and Disaster Risk Reduction

Topics Covered:

- City Resilience and Urban Services
- Indigenous Architecture & Craftsmanship of Hills
- Discussions on Developmental Regulations
- Community Involvement in Disaster Preparedness
- Innovative Construction Materials

Key Speakers:

- Prof. Chandan Ghosh
- Mr. Jit Kumar Gupta
- Mr. Saurav Choudhury
- Ar Prashant Pradhan

The first day provided our students and faculty with a deep understanding of the importance of community involvement in disaster preparedness and innovative construction materials suitable for hilly regions.

Day 2: Moderated by Dr. Tanmay Gupta

Topics Covered:

- Green & Resilient Eco-sensitive Approach for Hill Ecosystem
- Regional Planning in Hilly Context
- Benchmarking Tool for Greening of Hill Towns





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- Successful Hill Area Practices and Resilient Construction
- Hill Architecture Practices in Indian Context

Key Speakers:

- Prof. Inderpal Singh
- Prof. Devesh Walia
- Prof. Jay Thakkar
- Dr. Ashwani Kumar

Dr. Tanmay Gupta's moderation on the second day was particularly enlightening. Our students and faculty were motivated to think about sustainable and resilient development in hilly regions, especially in the context of architecture and civil engineering.

More than 700 registrations were obtained for the event, with video recordings to be made online. The outcomes of the webinar will be documented and presented as recommendations to the Government of Himachal Pradesh. These recommendations aim to guide green policies for hill-centric development, thereby enhancing the quality of life in hill stations.

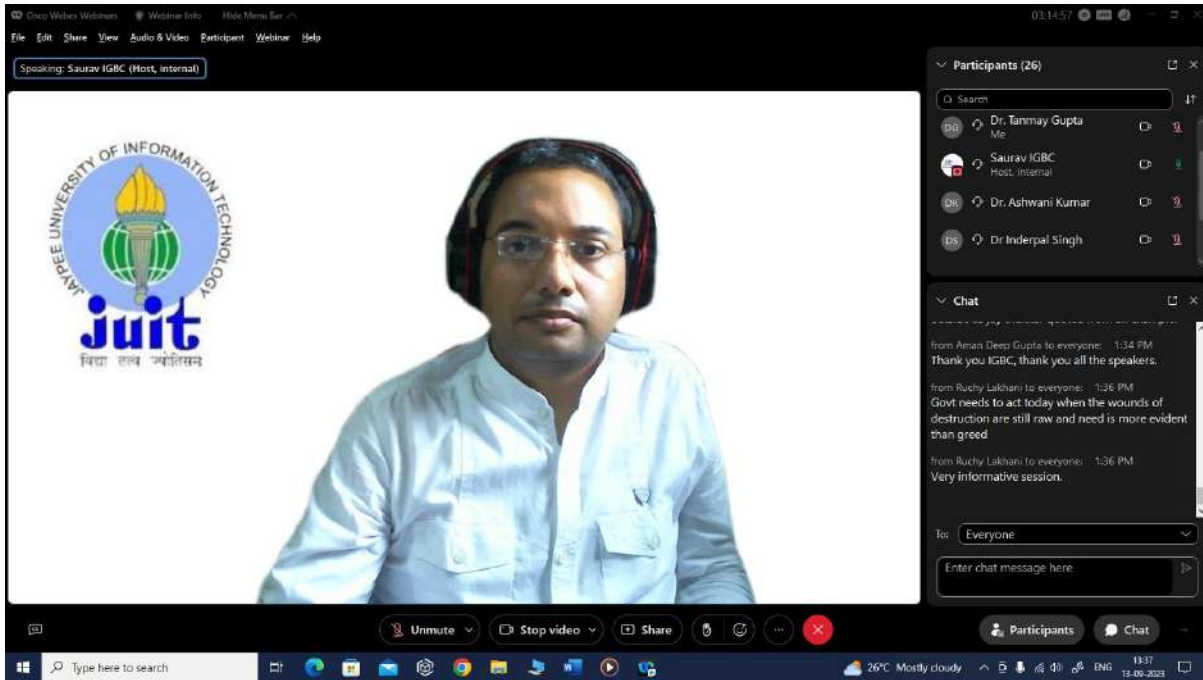
Benefits to Jaypee University Students and Faculty

- **Knowledge Gain:** The rich content and expert talks provided our students and faculty with deep insights into sustainable and resilient development in hilly regions.
 - **Networking:** The event offered an excellent platform for our students and faculty to interact with experts and like-minded individuals.
 - **Inspiration:** The success stories and case studies presented motivated our students and faculty to think innovatively about green building and sustainable development.
 - **Future Collaborations:** The event opened doors for potential research and development collaborations with experts and organizations.
 - **Holistic Understanding:** The multi-disciplinary approach of the webinar gave our community a well-rounded understanding of the complexities involved in hill-centric development.
-





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IGBC Webinar Series
Green Hill Habitat

12th & 13th Sep 2023
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Tourism Activity

Demand (Tourism Movement: Motivation and Needs) ↔ **LINKAGE** (Distribution Management Planning, Displacement to/from Destination) ↔ **Supply** (Attractions, Resources, Hospitality, Support services and Facilities, Transport within Destination)





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Participants (26)

- Dr. Tanmay Gupta (Me)
- Saurav IGBC (Host, Internal)
- Dr. Ashwani Kumar
- Dr. Inderpal Singh

Chat

resilient rather than imposing experts from outside as Jay Thakkar quoted from an example.

from Aman Deep Gupta to everyone: 1:34 PM
Thank you IGBC, thank you all the speakers.

from Ruchy Lakhani to everyone: 1:36 PM
Govt needs to act today when the wounds of destruction are still raw and need is more evident than greed

from Ruchy Lakhani to everyone: 1:36 PM
Very Informative session.

To: Everyone

Enter chat message here

Unmute Stop video Share

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26°C Mostly cloudy 13:38 13-10-2023





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Col Shailesh Pathak

Chairman, Chandigarh Chapter of Indian Green Building Council, CEO, Art-N-Glass Inc.



Maj Gen. Manoj Kumar Bindal, VSM

Former Executive Director - National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Govt. of India | Director - CUNPK | GOC | Secretary of IAPTC | Air Defence Operations | Administration & HRM | PMO | Training & Development

THE SPEAKER LINEUP



SPEAKER 1

Prof. Chandan Ghosh

Professor, National Institute of Disaster Management (NIDM), Head - Resilient Infrastructure Division, NIDM, Ministry of Home Affairs, Government of India
Designing resilient infrastructure in hilly regions - Case studies of Northern Himalayas



SPEAKER 2

Mr Jit Kumar Gupta

Advisor Town Planning & Planning Head - Punjab Urban Planning and Development Authority (PUDA)
Planning for Hill Ecosystem



SPEAKER 3

Mr Saurav Choudhury

Counsellor - Green Hill Habitat, IIGBC-Indian Green Building Council, Architect & City Planner
Guidance framework for Green & Resilient Hill-centric development



SPEAKER 4

Dr. Inderpal Singh

Associate Professor, Department of Architecture, National Institute of Technology Hamirpur
Exploring Ecotourism in Himachal Pradesh



SPEAKER 5

Prof. Devesh Walia

Professor of Environmental Studies Department, North Eastern Hill University (NEHU)
Climate Resilient Infrastructure and Nature Based Solutions



SPEAKER 6

Prof. Jay Thakkar

Senior Associate Professor, Faculty of Design and Co-Founder, Design Innovation and Craft Resource Centre (DICRC), CEPT University
Kath-Kuni Architecture of Himachal Pradesh



SPEAKER 7

Ar Prashant Pradhan

Principal Architect, PPA Architects, Visiting Faculty, Faculty of Design, CEPT University
The Practice of Building in Hills



SPEAKER 8

Dr. Ashwani Kumar

Associate Professor, Department of Architecture, NIT Hamirpur
Developmental Regulations for Hill Towns

For more details on IGBC Green Hill Habitat framework

www.igbc.in





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As part of World Green Building Week Initiative

IGBC Green Hill Habitat Webinar Series | Tue-Wed | 12th - 13th Sep, 2023 | 11:00 AM - 1:00 PM

SUSTAINABLE & RESILIENT HIMACHAL PRADESH

Hill-centric Development is the Key

It's evident that Himachal Pradesh requires a concerted effort in Disaster Risk Reduction to not only recover from the recent calamities but also to prepare for future challenges. In light of this, we in IGBC propose this collaboration with 'Partners in Hill Ecosystem' on knowledge dissemination and capacity building of stakeholders on Hill-centric green development.

Green & Resilient Eco-sensitive Approach for Hill Ecosystem

- Keynote address by recognized experts
- Regional Planning in Hilly context
- Benchmarking tool for greening of Hill towns
- Successful hill area practices and resilient construction
- Hill architecture practices in Indian Context

Mountain Livelihood and Disaster Risk Reduction

- City Resilience and Urban services
- Indigenous Architecture & Craftsmanship of Hills
- Discussions on Developmental Regulations and innovative construction materials.
- Community involvement in disaster preparedness

The Webinar aims at bringing on one platform, all stakeholders of Hill Eco System (including government, architects, developers, academia, industry, environmentalists, and local communities) with common objective to share their insights, experiences, and ideas for building a more resilient Himachal Pradesh.

The outcome of the webinar would be documented and presented as recommendations to the Government of Himachal Pradesh to drive green policies towards hill-centric development, ultimately resulting in enhanced quality of life for citizens in Hill stations and development of model Green Hill Cities in India.

Day
01

Day
02



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Innovative Construction Techniques Showcase at Arki Sayar Mela

On September 19, 2023, the Civil Engineering Department of Jaypee University of Information Technology (JUIT) organized a one-day workshop cum presentation at the Arki Sayar Mela, held at Chaugan Maidan, Arki. This event was a significant part of the state-level Sayar Mela, spanning from September 17–19, 2023. It provided an invaluable platform to exhibit innovative construction techniques and foster community awareness regarding disaster resilience, particularly in earthquake-prone areas.

Objective

The primary objective of the workshop was to educate the local community on effective construction methods and the importance of using hazard-resistant techniques considering recent natural disasters in Himachal Pradesh. The focus was on demonstrating practical applications of modern construction techniques that could be readily adopted for rebuilding efforts.

Activities and Demonstrations

- ***Exhibition of Construction Techniques:*** The event featured a comprehensive presentation on earthquake-resistant building techniques and sustainable materials. Various brick patterns were demonstrated, with a particular emphasis on various masonry bond technique.
- ***Live Demonstrations:*** Faculty conducted live demonstrations, showcasing the construction of walls using earthquake-resistant methods and emphasizing ductile detailing. This included guidance on correct bricklaying and maintaining structural integrity.
- ***Informative Posters and Flex Displays:*** Informative posters and flex displays were set up, highlighting different aspects of construction safety and resilience. These materials effectively communicated the benefits of modern construction techniques to attendees.

Participation and Support

The workshop saw an impressive footfall of over 300 attendees, including local community members and dignitaries. The Governor of Himachal Pradesh graced the event as the Chief Guest, bringing additional attention and prestige to the workshop.

The Sub-Divisional Magistrate (SDM) of Arki extended an invitation to JUIT to participate in the Sayar Mela, recognizing the importance of disseminating knowledge about disaster preparedness. The SDM appreciated the efforts and models presented, particularly the earthquake-resistant building techniques and various brick patterns demonstrated.





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The team from JUIT included:

- Dr. Tanmay Gupta
- Dr. Saurav
- Mr. Jaswinder
- Mr. Shiva

The faculty and staff members were instrumental in facilitating demonstrations and engaging with attendees, ensuring a successful event.

Impact and Conclusion

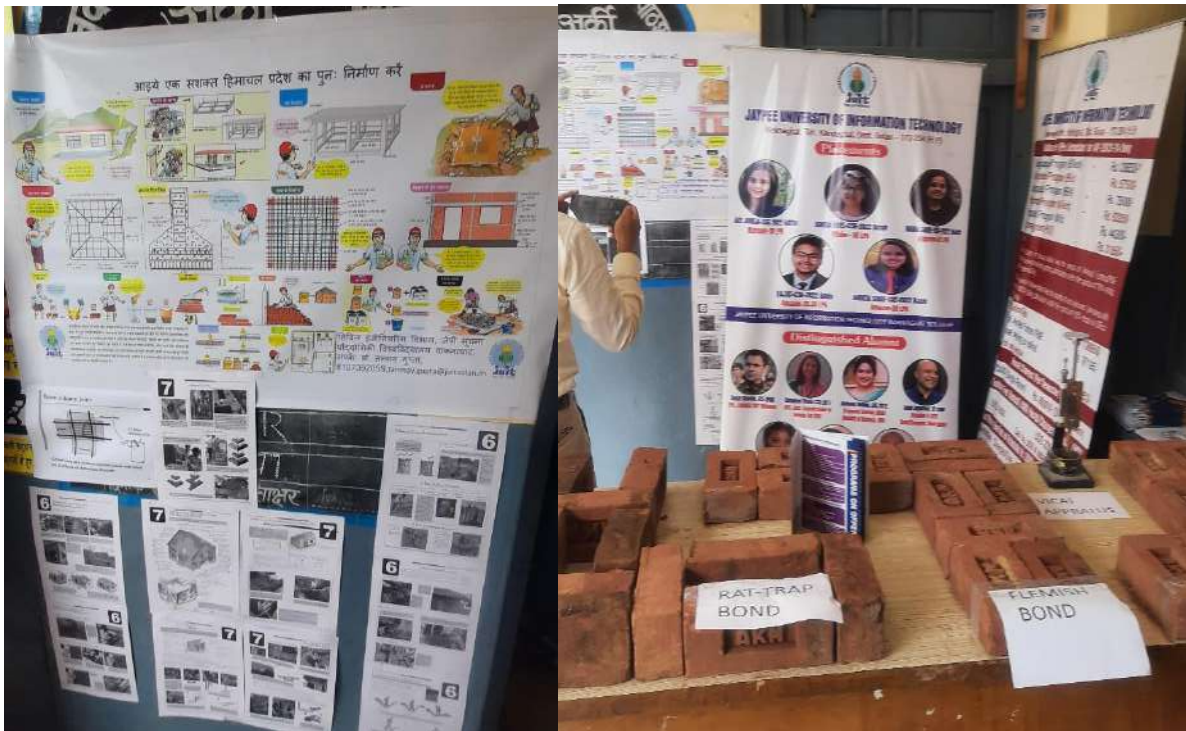
The workshop was highly successful, attracting significant attention from the local populace and dignitaries. The event not only enhanced the visibility of JUIT's Civil Engineering Department but also reinforced the university's commitment to community engagement and disaster resilience education.

The participation in the Sayar Mela underscored the importance of collaborative efforts in rebuilding and emphasized the role of educational institutions in driving societal change through knowledge and innovation. The SDM's appreciation of the efforts and models demonstrated, particularly for earthquake-resistant buildings, highlighted the workshop's impact and success.





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**An Expert Lecture
On
“Innovation, Entrepreneurship & Sustainability”**

It is the immense pleasure to inform you that an expert lecture titled as “Innovation, Entrepreneurship & Sustainability” was delivered by Dr. Gyanendra Kumar, Founder Director & CEO of SustianAble Solutions Noida, India on Decemehr 9, 2023 in the Department of Civil Engineering. A total of 40 no. of students and the faculty members of the Department of Civil Engineering joined this expert lecture. The main aim of the lecture was to explore the new sustainable materials for the construction process which may help us out to preserve the natural resources as well as in reducing the carbon footprinting. Dr. Gyanendra Kumar also discussed the possible number of alternatives of cement and the fuels used in the same process. He was also very interested to do work with the Department of Civil Engineering of JUIT Wajnaghat in the field of sustainable construction. Besides this, a Q&A session was also organized to address the query of the students related to innovation and how to become an entrepreneur.







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Webinar on “Decarbonising Cities”

On January 31, 2024, the Department of Civil Engineering at Jaypee University of Information Technology (JUIT) organized an insightful webinar on "Decarbonising Cities." The event was conducted online via the Google Meet platform, attracting a significant number of participants keen to explore sustainable urban development strategies.

Keynote Speaker:

- **Ar. Jit Kumar Gupta, Chair, IGBC Chandigarh Chapter:** Ar. Gupta shared his extensive knowledge on the pressing need for decarbonizing urban environments. His keynote address covered various innovative strategies and best practices for reducing carbon footprints in cities. He emphasized the role of green building practices, sustainable urban planning, and the integration of renewable energy sources in creating eco-friendly urban spaces.

Moderator:

- **Dr. Tanmay Gupta, Chairman, Student Chapter IGBC-JUIT**

Event Highlights:

- **Participation:** The webinar witnessed active participation from students, faculty members, and industry professionals. The virtual format allowed for a wide reach, facilitating an engaging and informative session for all attendees.
- **Interactive Q&A Session:** Following the keynote address, participants engaged in a lively Q&A session. Attendees posed questions about practical implementation challenges, potential policy frameworks, and the role of various stakeholders in achieving decarbonization goals. This interactive segment provided deeper insights and practical perspectives on the subject matter.
- **E-Certificates:** To recognize and appreciate the participation, e-certificates were distributed to all attendees. This initiative was well-received, adding value to the participants' professional development.
- **No Registration Fee:** The webinar was accessible to all interested individuals without any registration fee, ensuring wide participation and inclusivity.

Conclusion:

The webinar on "Decarbonising Cities" was a significant step towards promoting sustainable urban development. The expert insights shared by Ar. Jit Kumar Gupta and the active engagement from the participants made the event a resounding success. The Department of Civil Engineering at JUIT remains committed to organizing such informative sessions to foster knowledge sharing and professional growth in the field of sustainable development.





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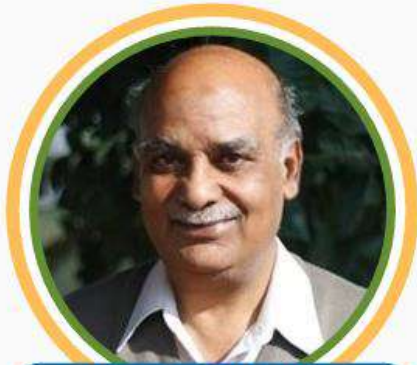
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EDUSPHERE
IGNITED MINDS
INSPIRED SOULS



Webinar On

DECARBONISING CITIES

KEYNOTE SPEAKER



AR. JIT KUMAR GUPTA
CHAIR, IGBC CHANDIGARH CHAPTER

MODERATOR



DR. TANMAY GUPTA
CHAIRMAN - STUDENT CHAPTER IGBC-JUIT





One Week Short Term Course on “Sustainable Construction Practices for Sustainable Environment”

A one-week short term course (in hybrid mode) on ‘*Sustainable Construction Practices for Sustainable Environment*,’ was organized by the Department of Civil Engineering, Jaypee University of Information Technology (JUIT), Wagnaghat from April 22–27, 2024. The program was successfully completed under the auspices of:

- **Prof. Rajendra Kumar Sharma:** Vice Chancellor, JUIT, Wagnaghat, and Patron of the organized short-term course by Civil Engineering Department.
- **Prof. Ashok Kumar Gupta:** Dean (Academics & Research), JUIT, Wagnaghat, and Patron of the organized short-term course by Civil Engineering Department.
- **Prof. Ashish Kumar:** Head, Civil Engineering Department, JUIT, Wagnaghat, and Program Chair of the organized short-term course by Civil Engineering Department.
- **Dr. Amardeep:** Assistant Professor, Civil Engineering Department, JUIT, Wagnaghat, and Program Convener of organized short-term course by Civil Engineering Department.
- **Dr. Rishi Rana:** Assistant Professor, Civil Engineering Department, JUIT, Wagnaghat, and Program Convener of organized short-term course by Civil Engineering Department.
- **Mr. Akash Bhardwaj:** Assistant Professor, Civil Engineering Department, JUIT, Wagnaghat, and Program Coordinator of organized short-term course by Civil Engineering Department.

The short-term course (STC) on ‘**Sustainable Construction Practices for Sustainable Environment**’ hosted various invited and guest lecturers from renowned institutes covering multifaceted aspects on progress, developments, legislations, and existing trends in sustainable construction practices with applications of software and models. The course was specifically designed for the HPPWD engineers from various regions of Himachal Pradesh. STC provided a comprehensive overview of the principles, techniques, and strategies essential for fostering environmentally responsible construction practices. Throughout the duration of the course, participants were immersed in a dynamic learning environment that combined theoretical knowledge with practical applications, equipping them with the necessary skills and insights to





contribute to sustainable development in the construction industry. The course emphasized the importance of adopting a holistic approach to sustainable construction, encompassing various aspects such as energy efficiency, resource conservation, waste management, and green building design. Participants gained a deeper understanding of the interconnectedness between construction activities and environmental impacts, as well as the potential of sustainable practices to mitigate these impacts and promote resilience in the face of climate change. Through engaging lectures, interactive discussions, hands-on activities, and insightful guest presentations, participants were exposed to a diverse range of perspectives and best practices from leading experts and practitioners in the field. Case studies showcased innovative sustainable construction projects from around the world, inspiring participants to think creatively and apply sustainable principles in their own professional endeavors.

Table-1 highlights the program schedule of the conducted STC including the names and organizations of the speakers along with the title of lectures (talks) delivered by them.

Table 1: Schedule for One-Week STC on *"Sustainable Construction Practices for Sustainable Environment"*, April 22-27, 2024 (in hybrid mode)

Date	Time	Events
22-04-2024	09:30 AM	Inaugural speech by Prof. (Dr.) Rajendra Kumar Sharma, Vice-Chancellor, JUIT
	09:45 AM	Inaugural speech by Prof. (Dr.) Ashok Kumar Gupta, Dean (Academics and Research), JUIT
	10: 00 AM	Motivational Lecture by Prof. (Dr.) Ashish Kumar, HCED, JUIT
	10:15 AM	Expert Talk by Dr. Amardeep, Assistant Professor, CED JUIT
	11:30 AM	High Tea
	12:00 PM	Expert Talk by Dr. Ran Bir Singh, Assistant Professor, CED CUH
	2:30 PM	Expert Talk by Dr. Rishi Rana, Assistant Professor, CED JUIT
	3:30 PM	High Tea





	4:00 PM	Expert Talk by Dr. Senthil Kasilingam, Assistant Professor, CED, NIT Jalandhar
23-04-2024	10:15 AM	Expert Talk by Dr. Tanmay Gupta, Assistant Professor, CED JUIT
	11:30 AM	High Tea
	12:00 PM	Expert Talk by Dr. Ran Bir Singh, Assistant Professor, CED CUH
	2:30 PM	Expert Talk by Dr. Saurabh Rawat, Associate Professor, CED JUIT
	3:30 PM	High Tea
	4:00 PM	Expert Talk by Dr. Dr. Senthil Kasilingam, Assistant Professor, CED, NIT Jalandhar
24-04-2024	10:15 AM	Prof. (Ar.) Jit Kumar Gupta- Former Director, College of Architecture IET Bhaddal, Punjab
	11:30 AM	High Tea
	12:00 PM	Prof. (Ar.) Jit Kumar Gupta- Former Director, College of Architecture IET Bhaddal, Punjab
	2:30 PM	Expert Talk by Dr. Bhupendera, Assistant Professor, CED IIT Jodhpur
	3:30 PM	High Tea
	4:00 PM	Expert Talk by Dr. Niraj Parihar, Assistant Professor, CED, JUIT
25-04-2024	10:15 AM	Expert Talk by Dr. Saurav, Assistant Professor, CED JUIT
	11:30 AM	High Tea
	12:00 PM	Expert Talk by Ar. Vaibhav Gupta-Partner and Principal Architect Lucknow, UP
	2:30 PM	Expert Talk by Dr. Sugandha Singh, Assistant Professor, CED JUIT





	3:30 PM	High Tea
	4:00 PM	Expert Talk by Dr. Bhupendra, Assistant Professor, CED IIT Jodhpur
26-04-2024	10:15 AM	Expert Talk by Dr. Ankit Kathuria, Assistant Professor, CED IIT Jammu
	11:30 AM	High Tea
	12:00 PM	Expert Talk by Dr. Nikhil Saboo, Assistant Professor, CED IIT Roorkee
	2:30 PM	Expert Talk by Ar. Vaibhav Gupta - Partner and Principal Architect Lucknow, UP
	3:30 PM	High Tea
	4:00 PM	Enjoy JUIT festival
27-04-2024	10:15 AM	Expert Talk by Dr. Ankit Kathuria, Assistant Professor, CED IIT Jammu
	11:30 AM	High Tea
	12:00 PM	Expert Talk by Dr. Nikhil Saboo, Assistant Professor, CED IIT Roorkee
	12:30 PM	Closing Ceremony

Feedback from participants has been overwhelmingly positive, with many expressing appreciations for the practical relevance of the course content, the expertise of the instructors, and the opportunity to network with peers who share a common commitment to sustainability. As we reflect on the achievements of this course, it is evident that education and training play a crucial role in driving positive change within the construction industry and advancing towards a more sustainable future.





Table 2: Summary of participation Details in the STC 2024

Total Number of Registered participants	20
Total Number of external participants	12

Other Salient Features

- Video Recording of all lectures by the speakers for the STC available with the organizing committee.
- Presentation slides of all lectures by the speakers for the STC available with the organizing committee and has been distributed to participants.
- Certificates of participation are issued to all registered participants.
- Certificates of resource persons issued to all the listed speakers.
- Feedback collected from participants for further improvement in conducting such future Courses.
- Feedback collected from speakers for their input in conducting such future courses.

Summary Statistics of Feedback received from Participants and Speakers are summarized below in Tables 3 and 4 respectively.

Table 3: Participant feedback details of the STC, 2024

Total number of participants feedback	20
Overall average feedback score	Excellent (75%); Very Good (22%); Good (3%) Based on a 5-point scale rating system (1–5: poor to excellent)



Table 4: Speaker feedback details of the STC, 2024

Total number of Speaker feedback	10
Overall average feedback score	Excellent (71%). Very Good (29%). Based on a 5-point scale rating system (1–5: poor to excellent)

Photos



Dr. Ashish Kumar Facilitating to Dr. Bhupendra (IIT Jodhpur)



Dr. Ashish Kumar Facilitating to Ar. Vaibhav Gupta (Lucknow)



Dr. Bhupendra (IIT Jodhpur)



Dr. Ankit (IIT Jammu)



Hands on Training to HPPWD officials



Hands on Training to HPPWD officials



A Group Photograph of HPPWD officials with Prof. Jit Kumar Gupta



Dr. Ashish Kumar Facilitating to Dr. Ran Bir Singh (CUH)



Dr. Ashish Kumar Facilitating to Dr. Ankit (IIT Jammu)



Group photograph with HPPWD officials

Webinar Series on Advances in Geotechnical Engineering

A one-week webinar series starting from April 30, 2024, to May 4, 2024, was organized by the Civil Engineering Department, JUIT Waknaghat, in association with IGS Shimla chapter with the view of educating the civil engineering community, particularly field practitioners and researchers about the modern trends and challenges in the field of geotechnical engineering. The event was inaugurated through the outlook speeches from Dr. Anil Joseph, President-IGS, Dr. A.P. Singh, Secretary-IGS, Dr. N K Samadhiya, Ex-President IGS, Dr. Rajendra Kumar Sharma, Vice-Chancellor, JUIT, Dr. Ashok Kumar Gupta, Dean (Academics and Research), JUIT and Chairman, IGS Shimla chapter and Dr. Ashish Kumar, HOD-CED, JUIT.

The event witnessed renowned speakers from both academia and industry with a outstanding participation from faculty, engineers, research scholars and students from various parts of the country who shared their research and field experiences on various state-of-the-art topics in geotechnical engineering and civil engineering such as forensic studies in foundation failure and construction vibrations, influence of seepage forces, bearing capacity of soil on slopes, slope stability analysis using numerical modeling, landslide hazards in Himalayan region etc. All the events followed with a query session with considerable communication between the geotechnical engineering community.



google meet (Presenting)

Inaugural Session
Webinar Series "Advances in Geotechnical Engineering"

April, 30th 2024, 10:30 AM IST

Dr. Anil Joseph
MD, Geotechnicals Pvt. Ltd.,
President-IGS
Topic: Forensic Studies of Foundation Failures and Monitoring Vibration in the Construction Industry

Live Streaming <https://www.youtube.com/watch?v=qNlIdnYs4t>

ashok gupta

google meet

Riddhi Jain

ASHOK DUVVURU

Ashish Kumar

Anil Joseph

Niraj Singh Parthar

ASHISH VERMA

Ashish Kumar has joined

10:26 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

21°C Sunny 10:26 30-04-2024

google meet (Presenting)

Inaugural Session
Webinar Series "Advances in Geotechnical Engineering"

April, 30th 2024, 10:30 AM IST

Dr. Anil Joseph
MD, Geotechnicals Pvt. Ltd.,
President-IGS
Topic: Forensic Studies of Foundation Failures and Monitoring Vibration in the Construction Industry

Live Streaming <https://www.youtube.com/watch?v=qNlIdnYs4t>

Ashish Kumar

google meet

Riddhi Jain

Manas Kalyan Das

Sufi Md Gulzar

Anil Joseph

Niraj Singh Parthar

ASHISH VERMA

Sufi Md Gulzar has joined

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21°C Sunny 10:26 30-04-2024



google meet (Presenting)

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Live Streaming <https://www.youtube.com/watch?v=qNlIdnYsI4>

Achish Kumar

google meet

Riddhi Jain

Dr. Rewa Bochara

Sufi Md Guddar

Anil Joseph

Niraj Singh Parihar

ASHISH VERMA

21 others

Rajesh Sahu

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Inaugural Session
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Live Streaming <https://www.youtube.com/watch?v=qNlIdnYsI4>

Dr. A P Singh

google meet

Kaushal Kumar

Badavath Naveen

Achish Kumar

Anil Joseph

Niraj Singh Parihar

Riddhi Jain

34 others

Rajesh Sahu

10:29 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
 Solan Himachal Pradesh
 in Association with
Indian Geotechnical Society (IGS) Shimla Chapter

Inaugural Session
 Webinar Series "Advances in Geotechnical Engineering"

April, 30th 2024, 10:30 AM IST

Live Streaming <https://www.youtube.com/watch?v=qNlIdnYs4t>

Dr. Anil Joseph
 MD, Geotechnicals Pvt. Ltd.,
 President-IGS
 Topic: Forensic Studies of Foundation Failures and Monitoring Vibration in the Construction Industry

Niraj Singh Parihar

Dr. A. P. Singh

Badavath Naveen

Anil Joseph

Riddhi Jain

Kaushal Kumar

Rajesh Sahu

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Inaugural Session
 Webinar Series "Advances in Geotechnical Engineering"

April, 30th 2024, 10:30 AM IST

Live Streaming <https://www.youtube.com/watch?v=qNlIdnYs4t>

Dr. Anil Joseph
 MD, Geotechnicals Pvt. Ltd.,
 President-IGS
 Topic: Forensic Studies of Foundation Failures and Monitoring Vibration in the Construction Industry

Narendra Somadhiya

Anil Joseph

Dr. A. P. Singh

Niraj Singh Parihar

Kaushal Kumar

Badavath Naveen

Pranjali Srivastava ...

Rajesh Sahu

10:38 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

Nifty bank +0.22% 10:38 30-04-2024



google meet (Presenting)

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JAYPEE UNIVERSITY OF
INFORMATION TECHNOLOGY
Solon Himachal Pradesh
in Association with
Indian Geotechnical Society (IGS) Shimla Chapter

Inaugural Session
Webinar Series "Advances in
Geotechnical Engineering"

April, 30th 2024, 10:30 AM IST

Dr. Anil Joseph
MD, Geostructurals Pvt. Ltd.,
President-IGS
Topic : Forensic Studies of Foundation
Failures and Monitoring Vibration in the
Construction Industry

Live Streaming <https://www.youtube.com/watch?v=qNNldnYsIA>

Anil Joseph | Dr. A. P. Singh | Anil Singh P... | R.K. SHARMA | Badavath Naveen | anok gupta | 78 others | Rajesh Sahu

10:40 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

Type here to search | Nifty bank +0.22% | 10:40 30-04-2024



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google meet (Presenting)

Prof. (Dr.) Ashok Kumar Gupta
DEAN (ACADEMICS & RESEARCH)

Anil Joseph, Dr. A P Singh, Niraj Singh Parihar, Ashish Kumar, Badavath Naveen, ashok gupta, Alexandra Saravathi, 80 others, Rakesh Sahu

10:44 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

Speakers / Headphones (Realtek Audio)

10:44 30-04-2024

https://meet.google.com/tft-cqkn-bve?authuser=0

google meet (Presenting)

MAJ. GEN. Rakesh Bassi
REGD. REGISTRAR & DEAN OF STUDENTS

Anil Joseph, Dr. A P Singh, Niraj Singh Parihar, Ashish Kumar, Badavath Naveen, ashok gupta, Alexandra Saravathi, 78 others, Rakesh Sahu


10:45 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

10:45 30-04-2024



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google meet (Presenting)




Anil Joseph | Dr A P Singh | Niraj Singh Parihar | Ashish Kumar | Badavath Naveen | ashok gupta | 82 others | Rajesh Sahu

10:48 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

Air: Moderate | ENG | 10:48 | 30-04-2024

https://meet.google.com/fff-cqin-bve?authuser=0



Anil Joseph | Dr A P Singh | Niraj Singh Parihar | Ashish Kumar | Badavath Naveen | ashok gupta | 87 others | Rajesh Sahu

10:51 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

21°C Sunny | ENG | 10:51 | 30-04-2024



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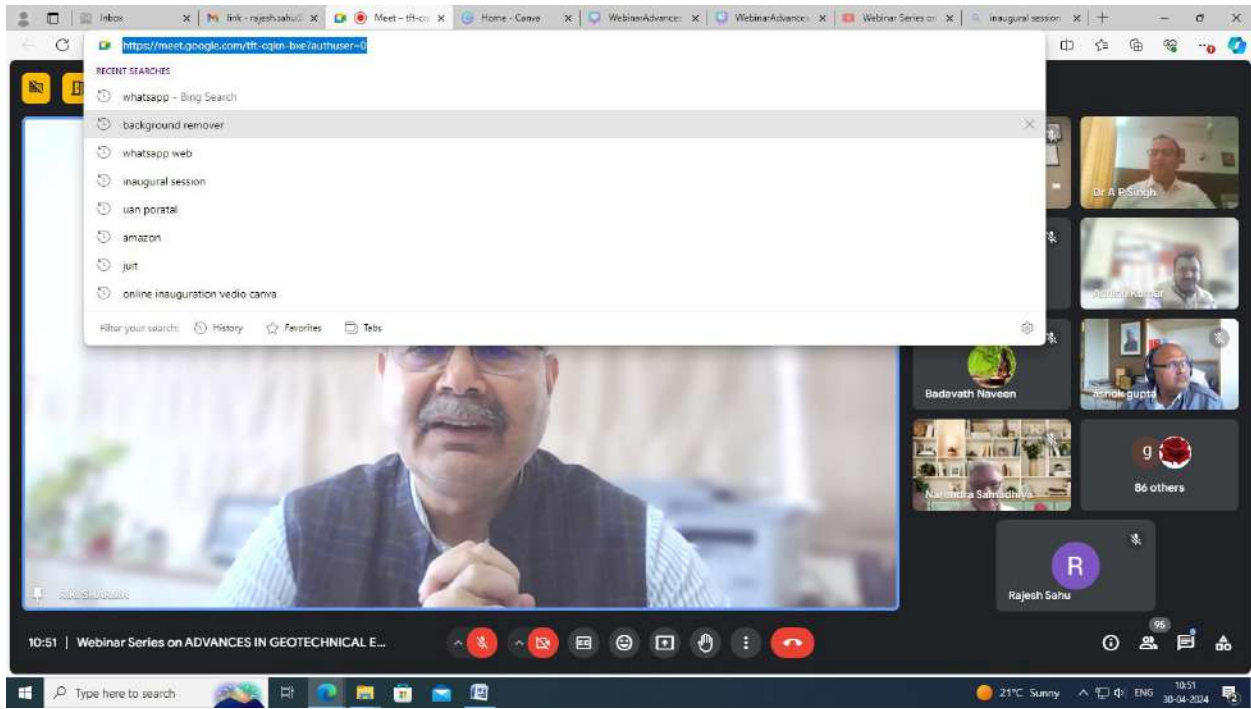
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Webinar Series on ADVANCES IN GEOTECHNICAL E...

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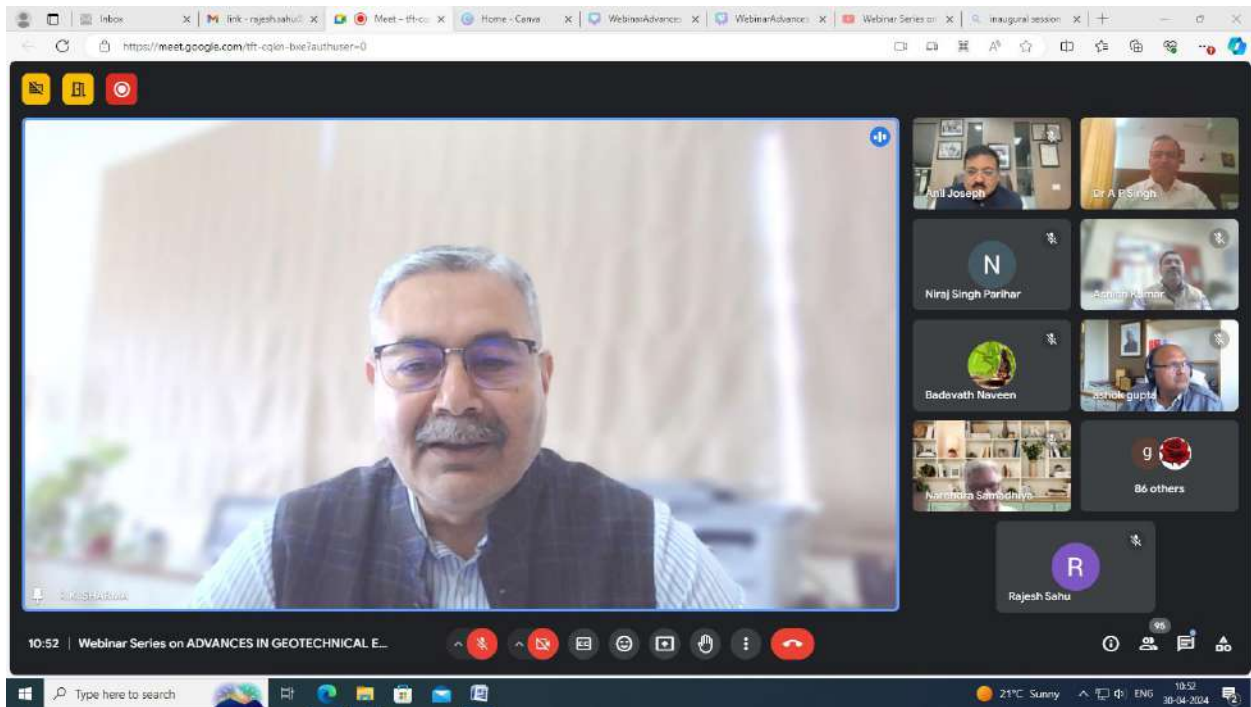


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Webinar Series on ADVANCES IN GEOTECHNICAL E...

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Browser tabs: Inbox, link - rajeshsahu, Meet - Ifsc, Home - Canva, WebinarsAdvance, WebinarAdvance, Webinar Series, inaugural session

URL: <https://meet.google.com/tff-cqin-bve?authuser=0>

11:08 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

System tray: 21°C Sunny, 11:48, 30-04-2024

Browser tabs: Inbox, link - rajeshsahu, Meet - Ifsc, Home - Canva, WebinarsAdvance, WebinarAdvance, Webinar Series, inaugural session

URL: <https://meet.google.com/tff-cqin-bve?authuser=0>

11:10 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

System tray: 21°C Sunny, 11:10, 30-04-2024



https://meet.google.com/tff-cqin-bve?authuser=0

11:12 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

21°C Sunny 11:12 30-04-2024

This screenshot shows a Google Meet interface. The main video window displays Anil Joseph, a man with glasses and a mustache, wearing a dark blue vest over a white shirt. He is in an office setting with framed certificates on the wall. To the right is a grid of smaller video thumbnails for other participants, including Niraj Singh Parthar, Anil Kumar, Pranjal Srivastava 201627, Anshok gupta, Dr. A P Singh, and Nandhika Samadhya. A '110 others' indicator is also present. The bottom of the screen shows a Windows taskbar with the search bar and system tray.

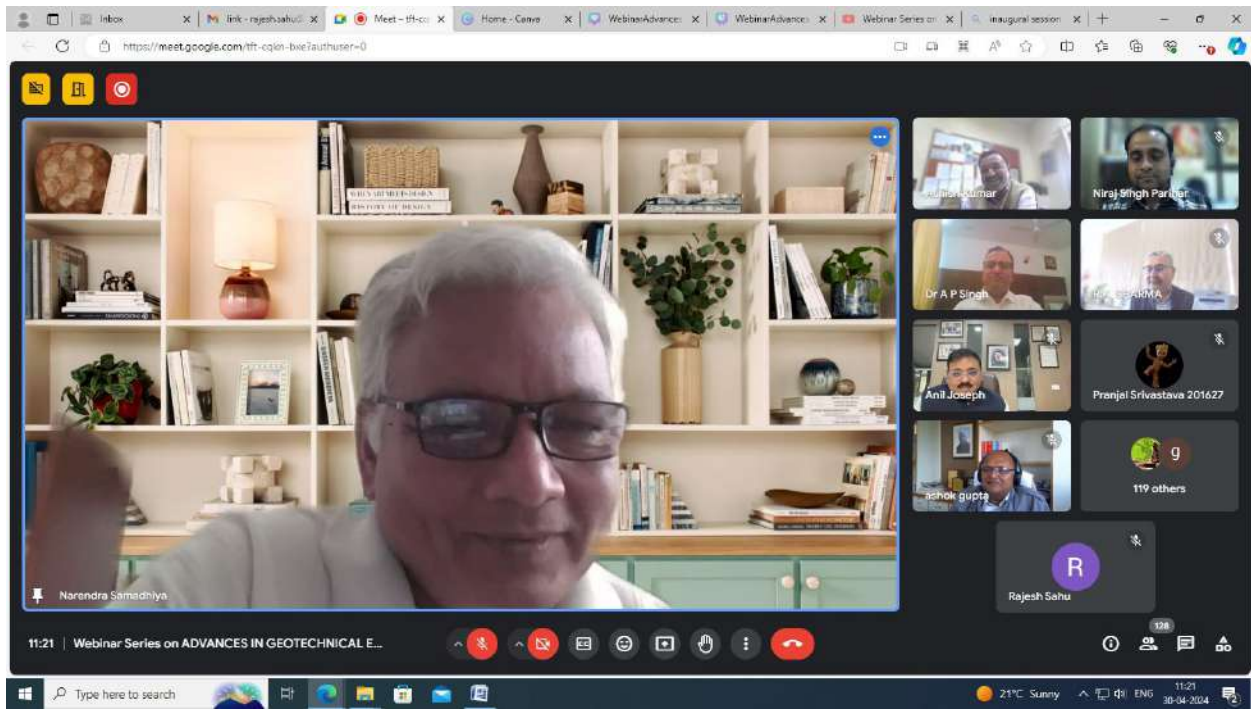
https://meet.google.com/tff-cqin-bve?authuser=0

11:17 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

21°C Sunny 11:17 30-04-2024

This screenshot shows the same Google Meet session. The main video window now displays Dr. A P Singh, a man with glasses wearing a white shirt. The grid of thumbnails on the right has updated, showing participants like Niraj Singh Parthar, Anil Kumar, Anil Joseph, Pranjal Srivastava 201627, Anshok gupta, and Nandhika Samadhya. The '112 others' indicator is now visible. The Windows taskbar at the bottom shows the time as 11:17.





https://meet.google.com/tft-cqin-bve?authuser=0

Anil Joseph (Presenting)

Foundation Failures and Monitoring Vibration Impacts during Demolition of Structures- Case Studies

Dr. Anil Joseph
President – Indian Geotechnical Society
Managing Director, Geotechnical Engineering

Badavath Naveen | Niraj Singh Parihar | R.K. SHARMA | Narendra Samadh... | Ashish Kumar | Pranjal Srivastava... | ashok gupta | 122 others | Rajesh Sahu

11:29 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

21°C Sunny 30-04-2024

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Anil Joseph (Presenting)

Badavath Naveen | Niraj Singh Parihar | R.K. SHARMA | Narendra Samadh... | Ashish Kumar | Pranjal Srivastava... | ashok gupta | 124 others | Rajesh Sahu

11:33 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

21°C Sunny 30-04-2024



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google meet (Presenting)



CIVIL ENGINEERING DEPARTMENT
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 Solan Himachal Pradesh
 in Association with
Indian Geotechnical Society (IGS) Shimla Chapter

Session IV

Webinar Series "Advances in Geotechnical Engineering"

May, 3rd 2024, 11:00 Hours IST



Prof. Neelima Satyam
 Professor, Civil Engineering, IIT Indore


Topic : Combined landslide hazard in western himalayas




Rajesh Sahu

10:43 | Webinar Series on ADVANCES IN GEOTECHNICAL E...


https://meet.google.com/tft-cqkn-bve?authuser=0



Niraj Singh Pathak



Dr. Neelima Satyam



Dr. Rahul Kumar | homit pal | gaurav shrivastava | Harpal Bhoday | Yash Pal Sharda | Anvi YaDaV

SATISH

Dr. Rahul Kumar has raised a hand **Open queue**

11:17 | Webinar Series on ADVANCES IN GEOTECHNICAL E...



https://meet.google.com/tft-cqin-bve?authuser=0

11:20 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

17°C Sunny 11:20 03-05-2024

https://meet.google.com/tft-cqin-bve?authuser=0



11:20 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

17°C Sunny 11:20 03-05-2024




https://meet.google.com/htf-cqkn-bve?authuser=0

Dr. Neelima Satyam (Presenting)

Combined Landslide Hazards in Western Himalayas

Dr. Neelima Satyam D.
Professor
Department of Civil Engineering
IIT Indore

Financially Supported by:

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 DEPARTMENT OF
SCIENCE & TECHNOLOGY

Website: <http://people.iiti.ac.in/~neelima.satyam/index.php>




11:20 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

17°C Sunny 11:30 03-05-2024

https://meet.google.com/htf-cqkn-bve?authuser=0

Dr. Neelima Satyam (Presenting)



Landslides and Land Subsidence in Joshimath Region, Uttarakhand

3 May 2024

- Over 1100 landslide incidents were reported in 2023 in Uttarakhand.
- Every year hundreds of small to large landslides are reported in Joshimath region.
- The Joshimath region has about 15 active landslide zones.
- In 2023, a total of 309 landslides, causing either complete or partial road blockages, were identified along the 247 km stretch between Rishikesh and Joshimath.


11:27 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

SENSEX -0.38% 11:27 03-05-2024



Dr. Neelima Satyam (Presenting)

Land Subsidence in Joshimath

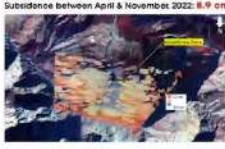


- Ground subsidence in Joshimath areas is a problem identified over four decades ago.
- Persistent sinking and subsidence in Joshimath areas underscore the ongoing nature of the concern. (GSI).

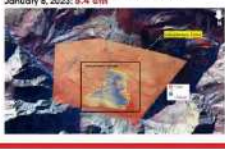
3 May 2024

RAPID SUBSIDENCE IN 12 DAYS

Subsidence between April & November 2022: 8.9 cm



Subsidence between December 27, 2022 & January 8, 2023: 5.4 cm



Source: Subsidence in Joshimath (CSZINDIA Down To Earth)

11:28 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

Dr. Neelima Satyam (Presenting)

SIGMA Model application for Chamoli

Objective 3

Table 9: Sigma values defining the optimized threshold for each reference region.

Reference region	Former 1.5	Former 1.75	Former 2.0	N
R1	1.65	1.75	2.2	5
R2	1.7	1.9	2.25	7
R3	1.65	1.85	2.15	5
R4	1.72	1.9	2.15	5
R5	1.7	1.9	2.05	10
R6	1.65	1.85	2.25	-
R7	1.6	1.8	2.15	6

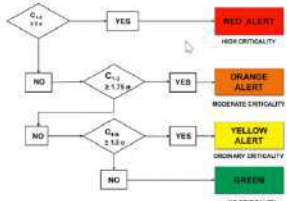


Figure 96. Algorithm developed for calibration of SIGMA 5/3/2024 Model for Chamoli region.

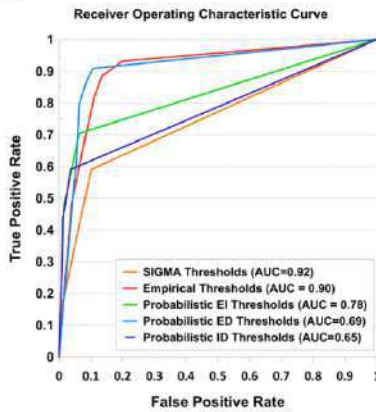


Figure 97. AUC analysis of different rainfall thresholds

11:40 | Webinar Series on ADVANCES IN GEOTECHNICAL E...



Soil Thickness Mapping Of Joshimath And Surrounding Region

Fig.29 Geographical Location of the Study Area in India; (A) India, (B) Chamosli (Titarakhand), (C) Study Area

Fig.30 Partition Of The Study Area Based On The Geologic Formations

Geologic Formation No.	Main Geological Formation	Lithology
1	Tanoreti (T418)	Gneiss, Kyanite Schist, Quartzite, Gk. Shale
2	Phalgaonk (Phalgaonk)	Limestone, Dolomite, Marble, Calc. Phylloclastic, Phyllite with Shale, Gneiss & Carbonaceous Sandstone, Amphibolite and Mass Shale, Quartzite
3	Besong - Chandi Vaghatk	Basic Mass Schistose, Quartzite and Slate with basic Metachertose, Amphibolite.
4	Maas - The	Quartzite, Gneiss/Mylonite, Schist and Amphibolite, Serpentine schists with Marble beds, Amphibolite, Phyllite with Shale, Gneiss & Carbonaceous Sandstone, Amphibolite and Mass Shale, Quartzite
5	Wing - The	Quartzite and Quartzite Mass Shale, Schist, Gneiss, Marble and basic schistose, Calc. Schistose, Quartzite, Marble, Marble bed

11:41 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

Methodology

GIST Model - Geomorphologically Indexed Soil Thickness Model

11:42 | Webinar Series on ADVANCES IN GEOTECHNICAL E...



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Validation

Fig.38 Pictures of The MASW Test Conducted at The Lambhad Landslide Zone: (A) Lambhad Landslide Zone, (B) Geographical Location Of The Test Site, (C) MASW Testing

Fig.39 Shear Wave Velocity (V_s) Profile At Different Sections of The Test Site: (A) section A-A, (B) section B-B

11:45 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

https://meet.google.com/rft-cqkn-bxe?authuser=0

Results

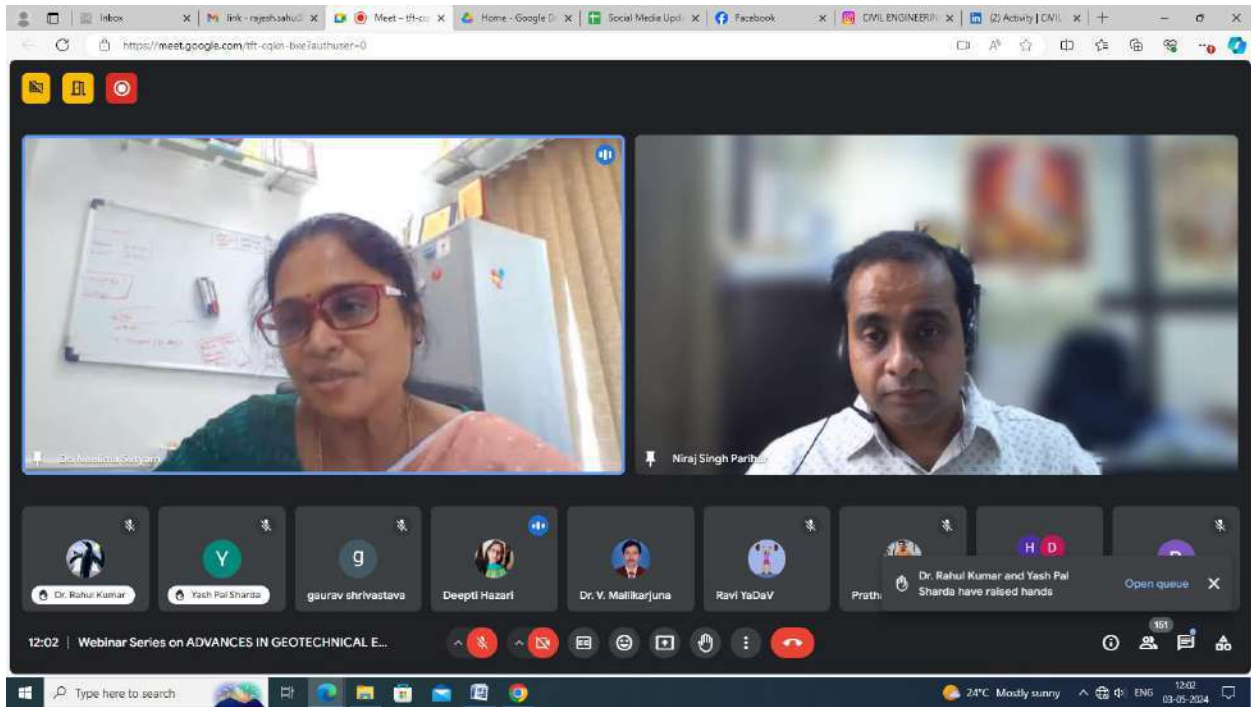
Fig.51 Factor of Safety (Fos)

Fig.52 Pressure Head

Fig.53 Depth At Which The Fos Is Computed

11:47 | Webinar Series on ADVANCES IN GEOTECHNICAL E...






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Session V
 Webinar Series "Advances in Geotechnical Engineering"


May, 4th 2024, 11:00 Hours IST




Dr. Rohan Deshmukh
 Geotechnical Solution Engineer,
 Bentley Systems India
 Topic: Slope Stability Analysis using numerical modeling




Niraj Singh Parihar



Ashok kumar


Rohan Deshmukh



Manish Kumar



RAJESH PATHAK


vijay rajoria


kiran vaghela


hari hari prasad


42 others


Rajesh Sahu

10:58 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

24°C Mostly sunny 10:58 04-05-2024

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google meet (Presenting)



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Session V
 Webinar Series "Advances in Geotechnical Engineering"

May, 4th 2024, 11:00 Hours IST





Dr. Rohan Deshmukh
 Geotechnical Solution Engineer,
 Bentley Systems India
 Topic: Slope Stability Analysis using numerical modeling



Rohan Deshmukh



Ashok kumar


Niraj Singh Parihar


Manish Kumar


RAJESH PATHAK


vijay rajoria


kiran vaghela


hari hari prasad


45 others


Rajesh Sahu

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Rohan Deshmukh

Niraj Singh Panhar

Ashok kumar

Surath Samanta

Manish Kumar

RAJESH PATHAK

vijay rajoria

kiran vaghela

hari hari prasad

45 others

Rajesh Sahu

10:58 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

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ENG 10:58 04-05-2024

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Rohan Deshmukh (Presenting)

Slope Stability Using Numerical Modelling

Dr. Rohan Deshmukh
PSE-Geotechnical

Jait

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY

Bentley

Rohan Deshmukh

Surath Samanta

Niraj Singh Panhar

vijay rajoria

Ashok kumar

hari hari prasad

kiran vaghela

Manish Kumar

71 others

Rajesh Sahu

11:02 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

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ENG 11:02 04-05-2024



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Rohan Deshmukh (Presenting)

Introduction



Translational landslide in Japan

- Slopes are typically categorized in two types: natural and artificially-made slopes. Natural slopes are formed due to physical processes that include plate tectonics and weathering/erosion of rock masses that result in material deposition. Artificially-made slopes are established to facilitate infrastructure projects, ex., embankments, earth dams, road cuttings etc.
- The **stability of a slope** is of critical importance in Geotechnical Engineering applications. A slope movement (also referred as a landslide) can lead to severe issues including infrastructure damage or/and casualties.
- Slope stability depends on the capability of the soil mass to withstand its gravitational forces, the additional loads acting on the slope, as well as potential dynamic loads (such as that of an earthquake).

Bentley

Rohan Deshmukh

Manish Kumar, Niraj Singh Parthar, vijay rajoria, Ashok kumar, hari hari prasad, Surath Samanta, kiran vaghela, 89 others, Rajesh Sahu


11:05 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

24°C Mostly sunny 11:05 04-05-2024

https://meet.google.com/tft-cqkn-bxe

Rohan Deshmukh (Presenting)

Introduction



Translational landslide in Japan

- Slopes are typically categorized in two types: natural and artificially-made slopes. Natural slopes are formed due to physical processes that include plate tectonics and weathering/erosion of rock masses that result in material deposition. Artificially-made slopes are established to facilitate infrastructure projects, ex., embankments, earth dams, road cuttings etc.
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Bentley

Manish Kumar, Niraj Singh Parthar, vijay rajoria, Ashok kumar, hari hari prasad, Rohan Deshmukh, kiran vaghela, 89 others, Rajesh Sahu

11:05 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

24°C Mostly sunny 11:05 04-05-2024



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https://meet.google.com/ft-cqkn-bxc

Rohan Deshmukh (Presenting)

FLAS 2D Ultimate: Slope stability v23.0.0b*

File Edit Phases Options Expert Help

Phase explorer

- Initial phase (InitialPhase)
- Deformation (Phase_1)
- Factor of safety (FoS)

Selection explorer (Phase_2)

- Attributes library
- Geometry
- Groundwater flow BCs
- Soils
- Model conditions

Model explorer (Phase_2)

- Attributes library
- Geometry
- Groundwater flow BCs
- Soils
- Model conditions

Coordinates: (0.5200 14.30) m

Command line

11:35 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

24°C Mostly sunny

11:35 04-05-2024

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Rohan Deshmukh (Presenting)

FLAS 2D Ultimate: Slope stability v23.0.0b* -- SERVER ACTIVE on port 10000 (SECURED)

File Edit Phases Options Expert Help

Phase explorer

- Initial phase (InitialPhase)
- Deformation (Phase_1)
- Factor of safety (FoS)

Selection explorer (Phase_2)

- Attributes library
- Geometry
- Groundwater flow BCs
- Soils
- Model conditions

Model explorer (Phase_2)

- Attributes library
- Geometry
- Groundwater flow BCs
- Soils
- Model conditions

Coordinates: (-3.000 2.500) m

Command line

11:40 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

24°C Mostly sunny

11:40 04-05-2024



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Rohan Deshmukh (Presenting)

FLAAS 2D Ultimate Output - SERVER ACTIVE on port 10001 SECURED - [Slope stability_123 - Calculation results: factor of safety [Phase_2] (2/13/25) final.0]

Factor of safety [Phase_2] (Step 137)

11:40 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

24°C Mostly sunny

Invitation: Webinar Series on ADVANCES IN GEOTECHNICAL E... Meet - ft-cqkn-bxe

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Rohan Deshmukh (Presenting)

FLAAS 2D Ultimate: Soil Nailing for Road Embankment Stability.pptx

Phases explorer

11:43 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

Result



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Rohan Deshmukh (Presenting)

FLAAS 2D Ultimate Output: Soil Modeling for Axial Embankment Stability - Calculation results: Factor of safety of the road in summer conditions (Phase_2) [10]

Factor of safety of the road in summer conditions (Phase_2)

Total displacements [m] (scaled up 0.500 times)
Maximum value = 3.192 m (Element 478 at Node 1947)

Command line
Screen Model/History
Commands can be called as follows:
Command:

70-938 12.800 Plane strain Soil 222 (element 2) [Safe 2.1]

11:45 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

26°C Mostly cloudy 11:45 04-05-2024

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Rohan Deshmukh

Niraj Singh Parihar

Amrendra Roy
Send feedback link please

PANKAJ GUPTA and Nimavat Ekte have raised hands

11:54 | Webinar Series on ADVANCES IN GEOTECHNICAL E...

Air: Moderate 11:54 04-05-2024



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Rohan Deshmukh Niraj Singh Parihar

PANKAJ GUPTA Nimavat Bitta Mahaa Lakshmi N.K. sufyan mirza sofiane bekakra SAFEENA NAZEE... Sheri

PANKAJ GUPTA and Nimavat Ekta have raised hands Open queue X

11:54 | Webinar Series on ADVANCES IN GEOTECHNICAL E... Air: Moderate ENG 04-05-2024

Invitation: Webinar Series on ADVANCES IN GEOTECHNICAL E... Meet - H-cqjln-bxc lebox

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Rohan Deshmukh Niraj Singh Parihar


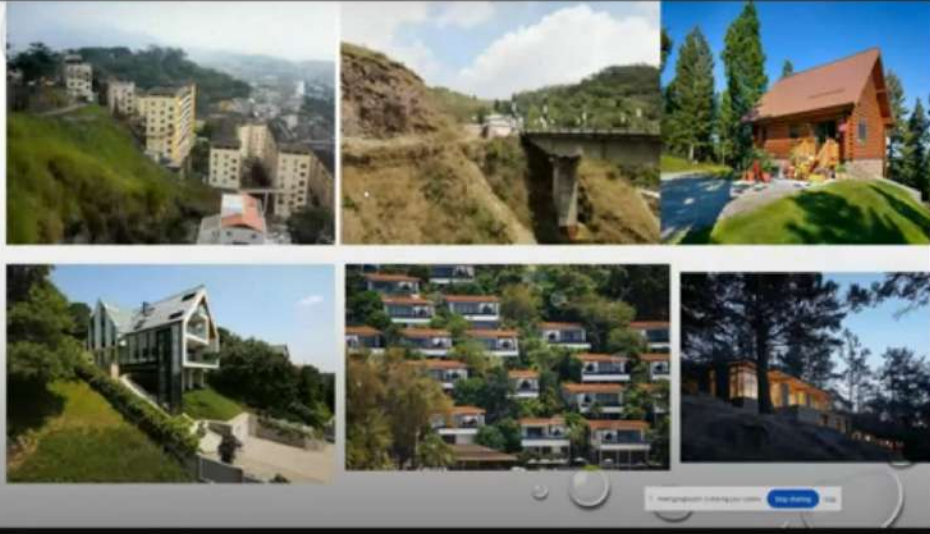
hari hari prasad Nimavat Bitta Ashok kumar sufyan mirza sofiane bekakra SAFEENA NAZEE... Sheri

Nimavat Ekta has raised a hand Open queue X

11:59 | Webinar Series on ADVANCES IN GEOTECHNICAL E... 26°C Mostly cloudy ENG 04-05-2024



Webinar Series on ADVANCES IN GEOTECHNICAL ENGINEERING Session 3: 2nd May 2024 11:00 Hrs. (IST) 



28:46 / 1:33:50

Webinar Series on ADVANCES IN GEOTECHNICAL ENGINEERING Session 2: 1st May 2024 12:00 Hrs. (IST) 

To exit full screen, press **Esc**



INFLUENCE OF SEEPAGE FORCE ON ACTIVE AND PASSIVE THRUST FOR DESIGN OF A RIGID CUT-OFF WALL



Dr. N. K. Samadhiya
Professor
Department of Civil Engineering
IIT Roorkee

Dr. A. K. Singh
Associate Professor
Department of Civil Engineering
NIT Jamshedpur



21:37 / 1:23:19



- It could be seen that for a cut-off wall of 4 m length, for small angle of wall friction ($\delta < \phi_v/3$), the passive earth pressure increases by 9 % whereas for $\delta > \phi_v/3$, the passive earth pressure increases by 26 %.

Table 7. Passive Earth Pressure and Seepage Force For Different Angle of Wall Friction

Angle of Wall Friction (δ) (Degree)	Angle α with Horizontal (Degree)	Seepage Force (F_s) (kN/m)	Angle α with Vertical – Clockwise (Degree)	Passive earth pressure (p_p) (kN/m)
0	34	58.75	5.42	143.59
5	31	64.55	5.69	167.06
10	28	71.14	5.95	196.51



Narendra Samadhya



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(Established by H.P. State Legislature vide Act No. 14 of 2002)



Seminar

On

“Cement Manufacturing Process & Vastu”

On May 16, 2024, the Civil Engineering Department of Jaypee University of Information Technology (JUIT) hosted a seminar on "Cement Manufacturing Process & Vastu" in collaboration with Ultratech Cement Ltd. The seminar aimed to provide an in-depth knowledge about cement manufacturing processes and the integration of Vastu principles in construction.

Speakers:

- **Mr. Mukesh Jha**, Area Head – Technical, Customer Solution North Zone: Mr. Jha delivered an insightful talk on the principles of Vastu and their practical application in modern construction. His presentation highlighted how Vastu can enhance the design and functionality of buildings, ensuring harmony and positive energy in constructed spaces.
- **Mr. Abhay Tomar**, Regional Head, Technical Customer Solution, Himachal Pradesh: Mr. Tomar focused on the intricacies of the cement manufacturing process. He detailed the various stages of production, the latest technological advancements in the industry, and the importance of quality control in ensuring durable and sustainable construction materials.

Moderator:

- **Dr. Tanmay Gupta**, Assistant Professor, Civil Engineering, JUIT

Event Highlights:

- **Student Participation:** Approximately 60 students from the Civil Engineering Department attended the seminar, benefiting greatly from the insights shared by the esteemed speakers. The interactive session allowed students to deepen their understanding of cement manufacturing and the practical application of Vastu in construction projects.
- **Interactive Session:** JUIT students were highly engaged throughout the seminar, posing thoughtful questions on various topics, including placement opportunities, research collaborations, and practical aspects of Vastu in construction. The dynamic interaction between the students and speakers fostered a rich learning environment.
- **Token of Appreciation:** As a token of appreciation, Ultratech Cement Ltd. distributed keychains to all participating students. This gesture was well-received and added a personal touch to the event.
- **Speaker Recognition:** The Head of the Department, Dr. Ashish, presented mementos to the speakers as a sign of gratitude for their valuable contributions. This acknowledgment highlighted the department's appreciation for the expertise and time shared by the speakers.



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- **Hosting:** The seminar was adeptly hosted by Dr. Tanmay Gupta, whose excellent moderation ensured the smooth flow of the event. His engaging style facilitated an open dialogue and kept the participants actively involved.

Conclusion:

The seminar on "Cement Manufacturing Process & Vastu" was a resounding success, providing students with crucial knowledge and practical insights. The collaboration with Ultratech Cement Ltd. added significant value, making it a memorable and impactful event for all attendees. The Civil Engineering Department of JUIT looks forward to organizing more such enriching sessions in the future to continue fostering academic and professional growth among its students.

CIVIL ENGINEERING DEPARTMENT
 Jaypee University of Information Technology
 Waknaghat, Solan, Himachal Pradesh
 In association with
Ultratech Cement Ltd.
 Presents a Seminar on
Cement Manufacturing Process & Vastu

Speakers



MR. MUKESH JHA
 Area Head – Technical
 Customer Solution North Zone



MR. ABHAY TOMAR
 Regional Head – Technical
 Customer Solution Himachal Pradesh

THURS DAY | MAY 16 | 11 AM

[Contact for More Details](#)

JAYPEE EDUSPHERE
 @cedjuit
 MODERATOR
 Dr. Tanmay Gupta,
 Assistant Professor, Civil Engineering, JUIT
 CONTACT: +91-7976801207





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WAKNAGHAT, P.O. – WAKNAGHAT,
TEHSIL – KANDAGHAT, DISTRICT – SOLAN (H.P.)
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(Established by H.P. State Legislature vide Act No. 14 of 2002)

