Three Day Face to Face Training Program

on

# "Infrastructure Safety Auditing System"

**19th September- 21st September, 2023**


**Organized By**

National Institute of Disaster Management (NIDM)

(Ministry of Home Affairs, Govt. of India)

**In collaboration with**

Department of Civil Engineering, Z.H. College of Engineering & Technology,

Aligarh Muslim University (AMU), Aligarh

**TABLE OF CONTENT**

# Contents

# INTRODUCTION

In the modern world, the significance of infrastructure safety auditing systems cannot be emphasized. Infrastructure is essential to enable economic growth, public services, and societal well-being. To protect people, property, and the environment, it is essential to guarantee the safety and dependability of these vital assets. An infrastructure safety auditing system provides a planned and systematic method for assessing safety precautions, risk management techniques, and regulatory compliance across diverse infrastructure domains. Auditing systems enable proactive steps to be taken, lowering risks, boosting safety, and promoting the long-term sustainability of infrastructure by identifying potential vulnerabilities, weaknesses, and non-compliance issues. Such systems aid in the development of resilient infrastructure networks that can survive risks and disasters, aid in the allocation of resources in an efficient manner, and ultimately protect the health and life of people and communities.

Infrastructure safety auditing systems play a crucial role in ensuring the well-being of individuals, protecting assets, and maintaining the functionality of various structures. The relevance of infrastructure safety auditing systems can be understood from several perspectives:

**a. Human Safety and Well-being:**

- Occupant Safety: Infrastructure safety auditing systems help identify potential hazards that could pose risks to the occupants of a building or facility. This includes evaluating the structural integrity, fire safety measures, electrical systems, and other critical components.
- Public Safety: In public spaces such as transportation hubs, bridges, and recreational areas, safety audits are essential to prevent accidents, ensuring the safety of a broad spectrum of individuals who use or pass through these spaces.

**b. Asset Protection:**

- Preventing Damage and Loss: Safety audits assess the vulnerability of infrastructure to natural disasters, accidents, or malicious activities. By identifying and addressing potential risks, these audits contribute to the protection of valuable assets and the prevention of damage or loss.
- Long-Term Sustainability: Regular safety audits contribute to the longevity of infrastructure by identifying areas that may be prone to wear and tear. Addressing these issues proactively helps in extending the lifespan of the infrastructure.

c. **Regulatory Compliance:**

- Legal and Regulatory Requirements: Many regions have specific safety regulations and codes that buildings and infrastructure must adhere to. Safety auditing systems ensure compliance with these regulations, avoiding legal issues and potential fines.

d. **Operational Continuity:**

- Business Continuity: For businesses and organizations, infrastructure safety is directly tied to operational continuity. A well-audited and safe infrastructure reduces the risk of disruptions, ensuring that operations can continue even in challenging circumstances.

e. **Reputation and Stakeholder Confidence:**

- Public Trust: An infrastructure safety auditing system contributes to building public trust. Whether it's a public facility, private business, or government project, demonstrating a commitment to safety through regular audits enhances the reputation and confidence of stakeholders.

f. **Emergency Preparedness:**

- Response Planning: Safety audits often include an assessment of emergency response plans. This ensures that in the event of a disaster or crisis, there are effective measures in place to protect lives and minimize damage.

g. **Cost-Efficiency:**

- Preventing Future Costs: Addressing safety concerns during the auditing process may involve an initial investment, but it can prevent future costs associated with accidents, repairs, or legal consequences.

## AIM & 0BJECTIVES OF THE TRAINING PROGRAM

This program aims to provide a thorough grasp of infrastructure safety auditing systems and the importance of those systems in the modern world. Participants will examine the fundamental principles, approaches, and best practices used in evaluating the safety and compliance of several infrastructure domains throughout the program. By engaging in a combination of interactive lectures, hands-on exercises, and case studies, participants can acquire the knowledge and skills needed to identify potential risks, vulnerabilities, and non-compliance problems within infrastructure assets. Structural integrity, maintenance processes, regulatory compliance, and emergency preparedness can be assessed from the program.

## Target Audience

A large number of participants from various academic institutions, government and non-government organizations are likely to participate in this event. Additionally, participants can learn about the multidisciplinary nature of infrastructure safety audits in our training program, which brings specialists from the engineering, safety management, and auditing disciplines. The government is also promoting the education and research in these areas through organizing various online courses, workshops, short-term training program, seminars and conferences. In this context, to help our community during this critical time, and to minimize the impact on learners, the Department of Civil Engineering, Aligarh Muslim University, Aligarh is organizing a Three days short-term training program on “Infrastructure Safety Auditing System” under G20 sub-theme: Disaster Risk Reduction during 19th – 21st September, 2023.

## Session Summary

The three day face to face Training Programme was a well-organized event focusing on various aspects of civil engineering, particularly related to disaster risk reduction, structural health monitoring, and forensic investigation of structures. The event started with an inaugural function as follows:

### Inaugural Function:

**Chief Guest and Guest of Honors:**

- Prof. Mohammad Gulrez, Vice Chancellor, was the Chief Guest.
- Prof. M. Altamush Siddiqui and Prof. M M Sufyan Beg were the Guests of Honors.

**Inaugural Speech:**

**Prof. Mohammad Gulrez, Vice Chancellor, AMU:** In his inaugural address at the Training Programme, Professor Mohammad placed a significant emphasis on the pivotal role that civil engineers play in upholding the health safety standards of critical infrastructure. Addressing a diverse audience comprising students, faculty members, and engineers from various institutes, he underscored the urgency of assessing and ensuring the safety of existing building stocks. Professor Mohammad expressed concern about some structures within the AMU campus that have surpassed their intended lifespan, emphasizing the pressing need for evaluation and reassurance of their structural integrity. Grateful for the financial support extended by the National Institute of Disaster Management (NIDM) to AMU for organizing the program, he acknowledged the importance of such collaborative initiatives in advancing the understanding and application of crucial principles in civil engineering. The acknowledgment of NIDM's support highlights the collaborative efforts between academic institutions and governmental bodies, fostering a conducive environment for knowledge dissemination and practical insights in the realm of infrastructure safety.

**Prof. M. Altamush Siddiqui, Professor, Mechanical Engineering Department, AMU:** In his inaugural address Professor Siddiqui, underscored the indispensable role that civil engineers play as custodians of the health and safety of infrastructure. He articulated a pressing concern regarding the existing building stocks, emphasizing the urgent need for a comprehensive assessment and assurance of their safety. Professor Siddiqui's, insights extended beyond individual structures to encompass a broader perspective on infrastructure safety. He acknowledged the evolving challenges in maintaining and upgrading various components of infrastructure, including roads, bridges, and utility networks. The discourse revolved around the multifaceted responsibility of civil engineers in not only constructing robust structures but also in regularly evaluating and upgrading the overall infrastructure to meet contemporary safety standards. This encompassing vision aligns with the evolving nature of infrastructure demands, necessitating a proactive approach to ensure resilience against both natural disasters and human-induced risks. Professor Siddiqui's, address thus resonated with a holistic understanding of infrastructure safety, acknowledging the dynamic role that civil engineers play in shaping and sustaining the built environment.

**Prof. M M Sufyan Beg, Professor, Department of Computer Engineering, AMU:** During his inaugural address, Professor Beg expressed his gratitude to the organizers for extending a warm welcome as he assumed the role of the Guest of Honor. In a gracious gesture, he welcomed all the participants and esteemed resource persons present at the event. Professor Beg delved into the significant discourse surrounding infrastructural safety, shedding light on its paramount importance in contemporary society.

He expounded on the pivotal role that computer technology and modern tools play in enhancing the efficiency of infrastructure, underlining the need for a harmonious integration of technology in ensuring the robustness and resilience of our built environment. This acknowledgment underscores Professor Beg's keen awareness of the intersection between traditional engineering principles and the transformative potential of cutting-edge technologies in shaping the future of infrastructure safety.

## Keynote Speakers:

a. **Prof. Chandan Ghosh (Head, Resilient Infrastructure Division, NIDM):** Prof. Ghosh took the stage by introducing the overarching theme of the training program. His emphasis on infrastructure rating systems, drawing parallels with the USA's experiences, underscored the importance of robust evaluation frameworks. Additionally, he highlighted the indispensable role of civil engineering experts in not only assessing the health of built-up facilities but also in conducting thorough pre and post-disaster evaluations. This set a foundational understanding for the audience about the criticality of infrastructure resilience
b. **Dr. Amir Ali Khan (NIDM):** Dr. Khan delved into the integration of Disaster Risk Reduction (DRR) principles into building safety, a pivotal aspect in constructing resilient communities. His emphasis on collaboration between engineers, architects, and disaster management authorities underscored the interdisciplinary nature of ensuring safety. Dr. Khan stressed the significance of retrofitting existing buildings, pointing towards a proactive approach in fortifying structures against potential hazards.
c. **Prof. B.K Maheshwari (IIT-Roorkee):** Prof. Maheshwari's presentation focused on the diagnosis of structures, repair, and retrofitting techniques. By sharing site-specific case studies, he provided practical insights into the challenges faced by civil engineers. This approach not only enriched theoretical knowledge but also equipped participants with real-world applications
d. **Prof. Suresh Bhalla (IIT Delhi):** Prof. Bhalla's discussion centered on "smart sensors" for structural health monitoring, reflecting the integration of modern technology into traditional civil engineering practices. Additionally, his exploration of bamboo as a structural material showcased a forward-thinking approach towards sustainable building construction. The insights provided by Prof. Bhalla aimed to expand the participants' perspectives on innovative and eco-friendly solutions.
e. **Er. Manish Bharti (Cortex Solution, New Delhi):** Er. Bharti's presentation echoed Prof. Maheshwari's focus on the diagnosis of structures and repair/retrofitting techniques. By sharing site-specific case studies from a practical standpoint, he emphasized the importance of hands-on knowledge in dealing with the intricacies of civil engineering projects.
f. **Prof. Mohammed Arif and Prof. Mohd. Muzzammi (AMU, Aligarh):** Prof. Arif contributed insights into seismic retrofitting of reinforced concrete buildings, addressing a paramount concern in earthquake-prone regions. On the other hand, Prof. Muzzammil delved into the critical process of forensic investigation of structures, underlining its significance in understanding failure causes and ensuring future structural safety. Both presentations highlighted the proactive measures needed for sustainable urban development and the importance of safeguarding communities in seismic zones.

## Valedictory Ceremony

During the valedictory ceremony, Professor Rizwan A. Khan, who served as the convener of the training program from AMU, took the lead in orchestrating the conclusion of the event. As the convener, Professor Khan likely played a crucial role in summarizing the key takeaways of the program, expressing gratitude to the participants, resource persons, and organizers for their contributions, and providing closing remarks to formally conclude the proceedings.

Subsequently, Professor Chandan Ghosh from NIDM extended his appreciation by expressing gratitude to the chairman and faculty members of AMU's Department of Civil Engineering. This acknowledgment likely aimed to recognize and commend the concerted efforts of the academic leadership and faculty members who played instrumental roles in organizing and facilitating the training program. Their dedication, support, and collaborative spirit would have contributed significantly to the success and effectiveness of the program.

In essence, the valedictory ceremony served as a platform for expressing gratitude, recognizing the collaborative efforts that made the training program possible. It also provided an opportunity to reflect on the shared achievements and insights gained during the program, fostering a sense of appreciation for the collaborative spirit and commitment to advancing knowledge in the field of civil engineering.


## Closing Remarks

The Face to Face (F2F) Training Programme appears to have emerged as a comprehensive and enriching educational experience, serving as a dynamic platform that seamlessly brought together expertise from both academic and industrial realms within the field of civil engineering. The program's value is

particularly highlighted by its diverse curriculum, covering essential topics and incorporating perspectives from various facets of the discipline.

The integration of case studies and practical applications stands out as a notable feature of the F2F. By offering real-world examples and hands-on insights, participants likely gained practical knowledge that can be directly applied to their professional undertakings. This emphasis on practicality not only enhances the learning experience but also equips individuals with the tools needed to address real challenges in civil engineering projects.

The participation of distinguished figures such as Prof. Mohammad Gulrez and Prof. Chandan Ghosh adds a layer of credibility to the program. Their presence not only signifies the significance of the topics discussed but also provides attendees with the opportunity to learn from and interact with leading authorities in the field. This engagement with prominent figures likely contributed to the program's success by fostering an environment of expertise and knowledge sharing.

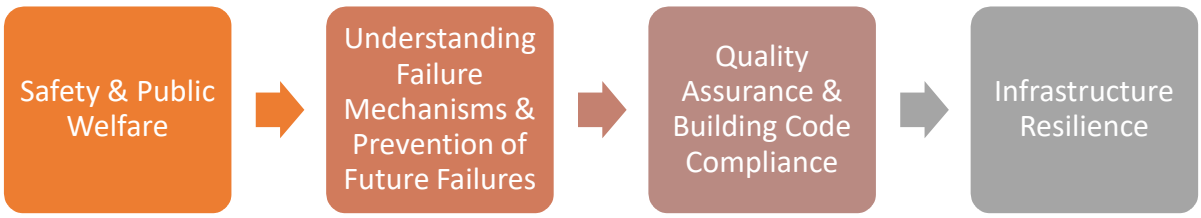
A noteworthy aspect of the Face to Face Training Program is its holistic approach to building safety and disaster resilience. The emphasis on collaboration among diverse stakeholders, including engineers, architects, and disaster management authorities, reflects an understanding of the interconnectedness of various disciplines in ensuring the safety and sustainability of structures. This collaborative approach aligns with contemporary trends in engineering, where multidisciplinary efforts are essential to address complex challenges.

The success of the event is further underscored by the acknowledgment and gratitude expressed by Prof. Chandan Ghosh during the valedictory proceedings. This acknowledgment suggests not only the seamless organization of the program but also the positive impact it had on participants. The gratitude expressed reflects a sense of appreciation for the collective efforts that went into making the training program a meaningful and enriching experience for all involved.


## Key Takeaways

The key takeaways of the training program are as follows:

- **Seismic Retrofitting of reinforced concrete buildings:** The seismic retrofitting of reinforced concrete buildings is essential for mitigating earthquake risks, ensuring public safety, and promoting sustainable and resilient communities. It reflects a proactive approach to addressing the challenges posed by seismic activity and contributes to the overall resilience of the built environment. By strengthening foundations, employing dampers, and enhancing lateral load resistance, we can mitigate structural vulnerabilities and ensure safety. Retrofitting is an investment in disaster resilience, protecting lives, and reducing post-earthquake reconstruction costs.
- **Mainstreaming DRR in Housing & Building Safety:** The training program discussed the importance of mainstreaming Disaster Risk Reduction (DRR) in housing and building safety. It involves integration of DRR principles and practices into the mainstream processes of planning, construction, and maintenance of structures. This approach ensures that resilience to disasters is a fundamental consideration in the development and management of housing and buildings.
- **Relevance of Forensic Investigation of Structures:** Forensic investigation of structures is highly relevant for various reasons, playing a crucial role in assessing and understanding the causes of structural failures, damages, or accidents. It includes the components of the following:




- **Implications of Sensor System for Monitoring of Structures:** The implications of sensor systems for monitoring structures are significant and have far-reaching benefits across various sectors. The key aspects highlighting the relevance and importance of employing sensor systems for structural

monitoring are early detection of structural issues, Structural Performance Optimization, Remote Monitoring and Accessibility.

- **Understanding the structural failures in hills and the scope of light weight structure:** Understanding structural failures in hilly regions is crucial due to the unique challenges posed by the terrain. Additionally, exploring the scope of lightweight structures in such areas becomes significant for ensuring safety, sustainability, and resilience. The key points related to these aspects are Geological Factors, Slope Stability, Material Selection, and Adaptation to Seismic activity, etc.

## About the Organizations

**About National Institute of Disaster Management (NIDM)**

The National Institute of Disaster Management (NIDM) was constituted under an Act of Parliament with a vision to play the role of a premier institute for capacity development in India and the region. The efforts in this direction that began with the formation of the National Centre for Disaster Management (NCDM) in 1995 gained impetus with its re-designation as the National Institute of Disaster Management (NIDM) for training and capacity development. Under the Disaster Management Act 2005, NIDM has been assigned nodal responsibilities for human resource development, capacity building, training, research, documentation, and policy advocacy in the field of disaster management. Both as a national Centre and then as the national Institute, NIDM has performed a crucial role in bringing disaster risk reduction to the forefront of the national agenda. The Institute believes that disaster risk reduction is possible only through promotion of a "Culture of Prevention" involving all stakeholders. The Institute works through strategic partnerships with various ministries and departments of the central, state, and local governments, academic, research and technical organizations in India and abroad and other bi-lateral and multi-lateral international agencies. NIDM is proud to have a multi-disciplinary core team of professionals working in various aspects of disaster management. The Institute provides training in face-to-face, on-line, and self-learning mode as well as satellite-based training. In-house and off-campus face-to-face training to the officials of the state governments is provided free of charge including modest boarding and lodging facilities. NIDM provides Capacity Building support to various National and State level agencies in the field of Disaster Management & Disaster Risk Reduction. The Institute's vision is to create a Disaster Resilient India by building the capacity at all levels for disaster prevention and preparedness.

**For more programs please visit: https://nidm.gov.in/**

**About Aligarh Muslim University, Aligarh**

The university grew out of the work of Sir Syed Ahmad Khan, the great Muslim reformer and statesman, who in the aftermath of the Indian War of Independence of 1857 felt that it was important for Muslims to gain education and become involved in the public life and government services in India. Raja Jai Kishan helped Sir Syed in establishing the university. On 7 January 1877, Sir Syed founded the Muhammadan Anglo-Oriental College in Aligarh and patterned the college after Oxford and Cambridge universities that he had visited on a trip to England. His objective was to build a college in tune with the British education system but without compromising its Islamic values. Sir Syed's son, Syed Mahmood, who was an alumnus of Cambridge prepared a proposal for an independent university to the Muhammadan Anglo-Oriental College Fund Committee upon his return from England in 1872. This proposal was adopted and subsequently modified. Syed Mahmood continued to work along with his father in founding the college. The Aligarh Muslim University (AMU) draws students from all corners of the country as well as foreign countries, especially Africa, West Asia and Southeast Asia. In some courses, seats are reserved for students from SAARC and Commonwealth Countries. The University has 13 Faculties viz. Agricultural Sciences, Arts, Commerce, Engineering & Technology, Law, Life Sciences, Medicine, Management Studies & Research, Science, Social Sciences, Theology, Unani Medicine, International Studies each comprising of several Departments of Studies. The University also maintains a number of Colleges, Institutes, Centres and Schools. Notably among them are Women's College, Centre of Professional Courses, Interdisciplinary Biotechnology Unit , Zakir Hussain College of Engineering & Technology, Ajmal Khan Tibbiya College, Jawaharlal Nehru Medical College, Dr. Ziauddin Ahmad Dental College, Institute of Ophthalmology, Centre for Advanced Studies in History, Centre for Women Studies, Centre for Nehru Studies, University Polytechnic University, Women's Polytechnic, K.A. Nizami Centre for Quranic Studies, Schools including one for the visually challenged.

**About Department of Civil Engineering**


The Department of Civil Engineering in the Faculty of Engineering and Technology, has been constantly contributing to the cause of engineering education and training right since its inception in the year 1942. There are currently 30 Professors, 4 Associate Professors and 5 Assistant Professors working in the department. The Department offers 13 state of art laboratories and computational facilities. The Department owns a rich library having over 8270 text books and reference materials. In total there are 265 students pursuing Bachelor's degree and 127 students pursuing Master's Degree in the department. There are 52 Ph. D. research scholars are currently working in the department on emerging research areas and 35 doctoral degrees have been awarded.

The Department has organized one international and one national conference in 2019. In the last five years 54 National Conferences/Workshops/Seminar/Training Programs have been successfully organized. Out of which four were conducted in Online Mode in 2020 and three in 2021. Many faculty members have chaired technical session of different National and International meets and have also been the members of various technical committees in the country.

The faculty members have also to their credit many awards such as Khosla Award, Suchit Kumar memorial Award, Institution of Engineers (India), Khosla Research Prize, ISET Best Prize award, Deshpande Award (FM &FP, India), Jai Krishna Award, Sir Arthur Cotton Memorial Gold Medal, Career Award for Young teachers, Best Paper Awards, John C Gammon Prize Gold Medal, Architectural Engineering Division Prize, Corps of Engineers Prize etc.

# ANNUEXURE I: PROGRAM BROCHURE

## INTRODUCTION

In the modern world, the significance of infrastructure safety auditing systems cannot be emphasized. Infrastructure is essential to enable economic growth, public services, and societal well-being. To protect people, property, and the environment, it is essential to guarantee the safety and dependability of these vital assets. An infrastructure safety auditing system provides a planned and systematic method for assessing safety precautions, risk management techniques, and regulatory compliance across diverse infrastructure domains. Auditing systems enable proactive steps to be taken, lowering risks, boosting safety, and promoting the long-term sustainability of infrastructure by identifying potential vulnerabilities, weaknesses, and non-compliance issues. Such systems aid in the development of resilient infrastructure networks that can survive risks and disasters, aid in the allocation of resources in an efficient manner, and ultimately protect the health and life of people and communities.

This program aims to provide a thorough grasp of infrastructure safety auditing systems and the importance of those systems in the modern world. Participants will examine the fundamental principles, approaches, and best practices used in evaluating the safety and compliance of several infrastructure domains throughout the program. By engaging in a combination of interactive lectures, hands-on exercises, and case studies, participants can acquire the knowledge and skills needed to identify potential risks, vulnerabilities, and non-compliance problems within infrastructure assets. Structural integrity, maintenance processes, regulatory compliance, and emergency preparedness can be assessed from the program.

A large number of participants from various academic institutions, government and non-government organizations are likely to participate in this event. Additionally, participants can learn about the multidisciplinary nature of infrastructure safety audits in our training program, which brings specialists from the engineering, safety management, and auditing disciplines. The government is also promoting the education and research in these areas through organizing various online courses, workshops, short-term training program, seminars and conferences. In this context, to help our community during this critical time, and to minimize the impact on learners, the Department of Civil Engineering, Aligarh Muslim University, Aligarh is organizing a Three days short-term training program on "**Infrastructure Safety Auditing System**" under G20 sub-theme: Disaster Risk Reduction during 19th – 21st September, 2023.

## THEMES

- Safeguarding Lives, Protecting Communities.
- Infrastructure Resilience.
- Monitoring of Regulatory Standards.
- Comprehensive Assessment.
- Multidisciplinary Interaction.
- Risk Minimization and Management.
- Innovation and Technology.
- Continuous Improvement.
- Professional Development.
- Proactive Risk Management for Business Continuity.
- Investing in a Sustainable Future.
- Trusted Auditing for Credibility and Reputation.
- Structural Health Monitoring.
- Reliability-Based Design and Regulations.

## RESOURCE PERSONS

- **Prof. T. K. Datta, (Emeritus Professor), IIT Delhi**
- **Prof. Yogendra Singh, IIT Roorkee**
- **Prof. Suresh Bhalla, IIT Delhi**
- **Prof. Chandan Ghosh, Head, RI Division, NIDM, Delhi**
- **Dr. Amir Ali Khan, Associate Professor, RI Division, NIDM, Delhi**
- **Prof. Veerendra Kumar, IIT BHU**
- **Prof. Mohammed Arif, AMU**
- **Prof. M. Muzzammil, AMU**
- **Prof. Izharul Haq Farooqi, AMU**
- **Prof. Amjad Masood, AMU**
- **Prof. Hassan Irtaza, AMU**

## REGISTRATION:

Certificate of course will be provided to all the registered participants on successful completion jointly by NIDM and AMU.

Three Days Short-Term Training Program (STTP)
on
**Infrastructure Safety Auditing System**
**Under G20 sub theme: Disaster Risk Reduction**

**(19th – 21st September, 2023)**

## WHO SHOULD ATTEND?

The training programme is aimed to cater persons from Academic institutes, Professionals from Industry, Government Organizations, Research Scholars and MTech students.

**A view of collapsed Reinforced Concrete Building during Bhuj Earthquake, Gujarat.**

**A view showing the corrosion of The Brooklyn Bridge, a National Historic Landmark, New York.**

## ORGANIZING COMMITTEE

**CHIEF PATRON**
Prof. Mohammad Gulrez
The Vice-Chancellor, AMU, Aligarh.

**PATRONS**
Prof. Mohammad Altamush Siddiqui
Dean, Faculty of Engineering & Technology, AMU.
Prof. M.M. Sufyan Beg
Principal, Z.H. College of Engineering & Technology, AMU.

**CHAIRPERSON**
Prof. Izharul Haq Farooqi
Chairperson, Department of Civil Engineering, AMU, Aligarh.

**NODAL OFFICER – NIDM**
Prof. Abdul Baqi
Department of Civil Engineering, AMU, Aligarh.

**COORDINATORS**
Prof. Shakeel Ahmad & Prof. Amjad Masood

**CONVENERS**
Prof. Chandan Ghosh, RI Division,
NIDM, Delhi.
Prof. Rizwan Ahmad Khan, AMU.
Dr. Amir Ali Khan, Associate Professor,
RI Division, NIDM, Delhi

**ORGANIZING SECRETARY**
Prof. Rehan Ahmad Khan

**CO-ORGANIZING SECRETARY**
Mr. Saad Shamim Ansari

**ADVISORY COMMITTEE**

| | |
|---|---|
| Prof. T.K. Datta, IIT-Delhi | Prof. Sabih Akhtar |
| Prof. Y. Singh, IIT- Roorkee | Prof. M. Shrikhande, IIT- Roorkee |
| Prof. Suhail Ahmad, IIT-Delhi | Prof. Mehtab Alam, NSIT, Delhi |
| Prof. Suresh Bhalla, IIT-Delhi | Prof. Sohail Ayub |
| Shri. Anand Sharma, IMD | Prof. Mehboob Anwer Khan |
| Prof. T.K. Datta, IIT-Delhi | Prof. Mujib Ahmad Ansari |
| Prof. Sarfaraz Ali Ansari | Prof. I. K. Khan |
| Prof. Mohammed Arif | Prof. Arshad Umar |
| Prof. Izharul Haq Farooqi | Prof. Malik Shoeb Ahmad |
| Prof. Tabassum Naqvi | Prof. Kausar Ali |
| Prof. Javed Alam | Prof. Tayzeen Ahmad |
| Prof. M. Masroor Alam | Prof. Asif Ali Siddiqui |
| Prof. Hasan Irtaza | Prof. Nadeem Khalil |
| Prof. Saif Said | Prof. Mohd Shamsuddin Jafri |

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Three Days Short-Term Training Program (STTP)
on
**Infrastructure Safety Auditing System**
**Under G20 sub-theme: Disaster Risk Reduction**

**(19th – 21st September, 2023)**

Organized by

**DEPARTMENT OF CIVIL ENGINEERING**
**Z.H. COLLEGE OF ENGINEERING AND TECHNOLOGY**
**ALIGARH MUSLIM UNIVERSITY, ALIGARH**

In Collaboration with

**NATIONAL INSTITUTE OF DISASTER MANAGEMENT**
**(MINISTRY OF HOME AFFAIRS, GOVERNMENT OF INDIA)**
**NEW DELHI**

# ANNUEXURE II: PROGRAM SCHEDULE

**Department of Civil Engineering, Z. H. College of Engineering & Technology,**
**Aligarh Muslim University (AMU), Aligarh**

**Three days Short-Term Training Program (STTP) on**

**Infrastructure Safety Auditing System: Under G20 sub theme: Disaster Risk Reduction**
**From 19th to 21st September 2023**
**Topics & Schedule**

| | | | | | | |
|---|---|---|---|---|---|---|
| **DAY I**<br>19-09-2023<br>(Tuesday) | **Inauguration**<br>(10:00 AM to 11:00 AM) | **Tea Break**<br>11:00 AM -11:15 AM | **Lecture 1**<br>(11:15 AM to 12:45 PM)<br>Mainstreaming DRR in Building Safety<br>**(AAK)** | **Lecture 2**<br>(12:45 PM to 2:15 PM)<br>Infrastructure Ratings System<br>**(CG)** | **Lunch Break**<br>**2:15 PM-3:15 PM** | **Lecture 3**<br>(3:15 PM to 5:00 PM)<br>Repair Techniques for Resilient Building Capacity<br>**(M B, Cortex Solutions)** |
| **DAY II**<br>20-09-2023<br>(Wednesday) | **Lecture 1**<br>(10:00 AM to 11:30 AM)<br>Disaster Resilient Indexing<br>**(CG)** | | **Lecture 2**<br>(11:45 AM to 1:15 PM)<br>Geotechnical Aspect of Earthquake Engineering<br>**(BKM)** | **Lecture 3**<br>(1:15 PM to 2:15 PM)<br>Seismic Retrofitting of Reinforced Concrete Buildings<br>**(MA)** | | **Lecture 4**<br>(3:15 PM to 5:00 PM)<br>Instrumentation and Diagnostic System for Resilient Infrastructure **(M B, Cortex Solutions)** |
| **DAY III**<br>21-09-2023<br>(Thursday) | **Lecture 1**<br>(10:00 AM to 11:30 AM)<br>Structural Failures in the Hills - Scope of Light Weight Structure<br>**(CG)** | **Tea Break**<br>11:30 AM -11:45 AM | **Lecture 2**<br>(11:45 AM to 1:15 PM)<br>Sensor System for Monitoring of Structures<br>**(SB)** | **Lecture 3**<br>(1:15 PM to 2:15 PM)<br>School Building Safety Perspectives<br>**(AAK)** | | **Lecture 4**<br>(3:15 PM to 4:15 PM)<br>Forensic Investigation of Structures<br>**(MM)**<br>**Valedictory Function**<br>(4:15 PM to 5:00 PM)<br>NIDM & AMU |

CG- Prof. Chandan Ghosh (NIDM), SB- Prof. Suresh Bhalla (IITD), MA- Prof. M. Arif (AMU), MM-Prof. M. Muzzammil (AMU), AAK- Dr. Amir Ali Khan (NIDM), M B- Er Manish Bharti (Cortex Solutions, New Delhi), BKM – Prof. B.K. Maheshwari (IIT-Roorkee).

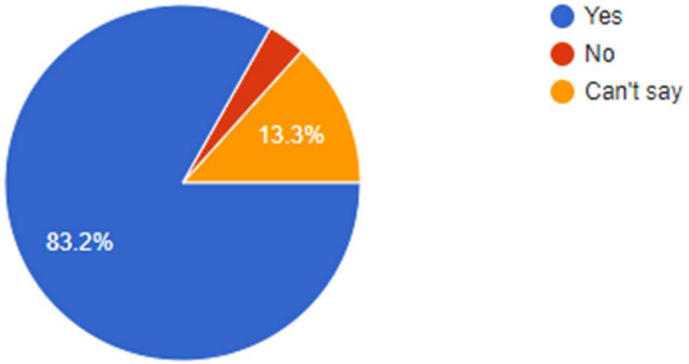
## ANNUEXURE III: FEEDBACK

| Feedback | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY 1 | | | | | | | | | | | | | | | | | | | |
| S. N. | Subject | Name of Faculty | Criteria's for Scoring | | | | | | | | | | | | | | | | |
| | | | Delivery Mechanism | Eye Contact | Query Satisfaction | Engagement of Participants | Clarity of Presentation | Clarity of Topic | Coverage of Topic | Examples | 5 | 4 | 3 | 2 | 1 | Total 1 | Total 2 | Avg. |
| 1 | Session 1: Mainstreaming DRR in Building Safety | Prof. Chandan Ghosh | 5 (11) | 4(8) | 5 (13) | 4(12) | 5(13) | 5 (15) | 5 (13) | 4(13) | 65 | 33 | | | | 98 | 457 | **4.66** |
| 2 | Session 2: Infrastructure Ratings Systems | Prof. Chandan Ghosh | 5 (13) | 4(6) | 5 (13) | 4(12) | 5(13) | 5 (15) | 5 (13) | 4(13) | 67 | 31 | | | | 98 | 459 | **4.68** |
| 3 | Session 3: Repair Techniques for Resilient Building Capacity | Er. Manish Bharti | 5(12) | 5 (11) | 5 (13) | 3 (12) | 5 (11) | 4 (16) | 4 (11) | 4 (12) | 47 | 39 | 12 | | | 98 | 427 | **4.36** |
| Day 2 | | | | | | | | | | | | | | | | | | | |
| 4 | Session 1: Disaster Resilient Indexing | Prof. Chandan Ghosh | 5 (11) | 4(8) | 5 (13) | 4(12) | 5(13) | 5 (15) | 5 (13) | 4(13) | 65 | 33 | | | | 98 | 457 | **4.66** |
| 5 | Session 2: Geo-technical Aspect of Earthquake Engineering | Prof. B.K. Maheswari | 5(12) | 5 (11) | 4 (14) | 3 (10) | 4 (12) | 4 (16) | 4 (11) | 4 (12) | 47 | 41 | 10 | | | 98 | 429 | **4.38** |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | Session 3: Seismic Retrofitting of Reinforced Concrete Building | Prof. M. Arif | 5(12) | 5 (11) | 4 (13) | 3 (12) | 4 (11) | 4 (16) | 4 (11) | 4 (12) | 47 | 39 | 12 | | | 98 | 427 | **4.36** |
| 7 | Session 4: Instrumentation and Diagnostic System for Resilient Infrastructure | Er. Manish Bharti | 5 (9) | 4(7) | 5 (14) | 4(13) | 5(14) | 5 (15) | 5 (13) | 4(13) | 65 | 33 | | | | 98 | 457 | **4.66** |
| **Day 3** | | | | | | | | | | | | | | | | | | |
| 8 | Session 1: Structural Failures in the Hills- Scope of Light Weight Structures | Prof. Chandan Ghosh | 5 (17) | 4(5) | 5 (11) | 4(11) | 5(12) | 5 (14) | 5 (15) | 4(13) | 69 | 29 | | | | 98 | 461 | **4.7** |
| 9 | Session 2: Sensor System for Monitoring of Structures | Prof. Suresh Bhalla | 5 (11) | 4(8) | 5 (13) | 4(12) | 5(13) | 5 (15) | 5 (13) | 4(13) | 65 | 33 | | | | 98 | 457 | **4.66** |
| 10 | Session 3: School Building Safety Perspectives | Dr. Amir Ali Khan | 5 (13) | 4(6) | 5 (13) | 4(12) | 5(13) | 5 (15) | 5 (13) | 4(13) | 67 | 31 | | | | 98 | 459 | **4.68** |
| 11 | Session 4: Forensic Investigation of Structures | Prof. M. Muzzammil | 5 (11) | 4(8) | 5 (13) | 4(12) | 5(13) | 5 (15) | 5 (13) | 4(13) | 65 | 33 | | | | 98 | 457 | **4.66** |
| **Overall 3 day Training Program Feedback** | | | | | | | | | | | | | | | | | | **4.62** |

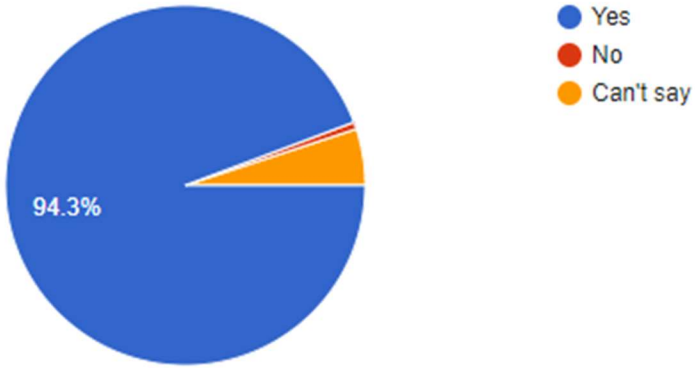
**Programme would be useful to me immediately in my job**

316 responses




**Programme will help me in my future job related to Disaster Management**

316 responses



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# ANNUEXURE V: PHOTO GALLERY


# ANNUEXURE VI: MEDIA COVERAGE

दैनिक अमर प्रकाश अलीगढ

## इंजीनियरिंग एण्ड टेक्नालोजी में तीन दिवसीय अल्पकालिक प्रशिक्षण कार्यक्रम आरंभ

अलीगढ़ 19 सितम्बर 23(अमर प्रकाश)। अलीगढ़ मुस्लिम विश्वविद्यालय के जेडएच कालिज आफ इंजीनियरिंग एण्ड टेक्नालोजी के सिविल इंजीनियरिंग विभाग द्वारा भारत के राष्ट्रीय आपदा प्रबंधन संस्थान नई दिल्ली के सहयोग से जी20 कार्यक्रमों की श्रृंखला के तहत आयोजित तीन दिवसीय अल्पकालिक प्रशिक्षण कार्यक्रम के उद्घाटन समारोह को संबोधित करते हुए मुख्य अतिथि कुलपति प्रोफेसर मोहम्मद गुलरेज ने कहा कि बढ़ते शहरीकरण व औद्योगिकरण के चलते आपदा के खतरे भी बढ़े हैं। ऐसे में भवनों व अन्य संसाधनों की सुरक्षा के लिए प्रभावी आपदा प्रबंधन बहुत आवश्यक हो गया है।

उन्होंने बुनियादी ढांचा सुरक्षा आडिटिंग प्रणाली पर आयोजित होने वाले इस अल्पकालिक प्रशिक्षण कार्यक्रम को संबोधित करते हुए कहा कि पर्यावरण असंतुलन के कारण उत्तराखंड क्षेत्र में भूसखलन के कारण काफी तबहीपैदा हुई। ऐसे में इंजीनियरों के समक्ष एक बड़ी चुनौती है और उनकी भूमिका भी बहुत बढ़ गई है। आपदा के दौरान होने वाले नुकसान को कम से कम कैसे किया जाए और लोगों के जीवन को सुरक्षित बनाया जाए। कुलपति ने कहा कि हांलांकि संसाधनों का आडिटिंग एक चुनौती भरा कार्य है लेकिन विशेषज्ञों के साथ सार्थक चर्चा से इस कार्यक्रम के सकारात्मक परिणाम सामने आएंगे।

राष्ट्रीय आपदा प्रबंधन संस्थान से जुड़े कार्यक्रम के समन्वयक प्रोफेसर चंदन घोष ने इस कार्यक्रम की रूपरेखा के बारे बताया। उन्होंने कहा कि अमेरिका में भी अमेरिक सोसाइटी आफ इंजीनियर्स द्वारा 1988 से इंफ्रास्ट्रक्चर रीटिंग प्रणाली का पालन किया जा रहा है। उन्होंने बताया कि इस प्रशिक्षण कार्यक्रम में बुनियादी ढांचा सुरक्षा प्रणाली के दौरा पेश आने वाली समस्याओं पर भी बात होगी। प्रो. शोध ने कहा कि भवनों की भूकम्प से सुरक्षा पर भी प्रतिभागियों को प्रशिक्षित किया जाएगा। उन्होंने डिजिटल निर्माण तकनीक पर भी चर्चा की।

सिविल इंजीनियरिंग विभाग के अध्यक्ष प्रोफेसर आईएच फारूकी ने स्वागत भाषण में विभाग का परिचय दिया। उन्होंने विभाग में चल रहे एमटेक पाठक्रयक्रमों व कंसलटेंसी के बारे में भी बताया।

कार्यक्रम को इंजीनियरिंग एण्ड प्रौद्योगिकी संकाय के डीन प्रोफेसर एम अल्तमश सिद्दीकी, इंजीनियरिंग कालिज के प्रिन्सिपल प्रोफेसर एमएम सुफियान बेग, कोरटेक्स सोल्यूशन के इंजीनियर मनीश भारतीय ने भी संबोधित किया। उपस्थितजनों का आभार कार्यक्रम के आयोजन सचिव प्रोफेसर रेहान ए खान ने जताया। कार्यक्रम का संचालन साद शमीम अंसारी ने किया।

## सर सैयद दिवस समारोह के लिए एएमयू में तैयारी शुरू

अलीगढ़ 19 सितम्बर 23(अमर प्रकाश)। अलीगढ़ मुस्लिम विश्वविद्यालय के संस्थापक सर सैयद अहमद खान की जयंती के उपलक्ष में 17 अक्टूबर को मनाये जाने वाले समारोह की तैयारी की रूप रेखा पर विचार विमर्श के लिए आज कुलपति प्रोफेसर मोहमद गुलरेज की अध्यक्षता में एक बैठक का आयोजन किया गया। प्रोफेसर गुलरेज ने विश्वविद्यालय की परंपराओं को ध्यान में रखते हुए सर सैयद दिवस मनाने के लिए विश्वविद्यालय की प्रतिबद्धता पर जोर दिया। उन्होंने कहा कि हम यह सुनिश्चित करें कि सर सैयद दिवस बड़े पैमाने पर मनाया जाए और इस उत्सव को परिभाषित करने वाले रीति–रिवाजों को संरक्षित किया जाए।

चर्चा के बाद, प्रतिभागियों और शुभचिंतकों की समारोह में सहभागिता को सुनिश्चित करने के लिए लाइव वेबकास्टिंग के साथ सुरम्य गुलिस्तान–ए–सैयद में मुख्य कार्यक्रम आयोजित करने का निर्णय लिया गया।

उत्सव की एक उल्लेखनीय विशेषता सर सैयद हाउस में प्रदर्शनी होगी, जिसमें सर सैयद के लेखन, किताबें, चित्र, व्यक्तिगत सामान और सुलेख की एक श्रृंखला प्रदर्शित की जाएगी। सर सैयद हाउस और सेंटेनरी गेट सहित कई प्रतिष्ठित विश्वविद्यालय स्थलों पर प्रकाश व्यवस्था की जाएगी। इसके अतिरिक्त, छात्रों के लिए उनके संबंधित हॉल ऑफ रेजिडेंस में एक पारंपरिक रात्रिभोज का आयोजन किया जाएगा, जिससे विश्वविद्यालय समुदाय के बीच एकजुटता की भावना को बढ़ावा मिलेगा। बैठक में विश्वविद्यालय के अधिकारियों और शिक्षकों ने भाग लिया, जिनमें रजिस्ट्रार, श्री मोहम्मद इमरान (आईपीएस), और वित्त अधिकारी, प्रोफेसर मोहसिन खान शामिल थे।

### कार्यालय अधिशासी बल्क वि

पत्रांक–3653 / 13ए दिनांक 14.09.2023

1.महामहिम राज्यपाल उ0प्र0 की ओर से अधिशासी अभि निविदायें निम्नलिखित विवरण के अनुसार अर्ह ठ्ठान्यपोर्ट

| क्र स | जि ला | कार्य का नाम | अनु |
|---|---|---|---|
| 1. | [illegible] | मथुरा रिफाइनरी से प्रान्तीय खण्ड, लो0नि0वि0,अलीगढ के केन्दीय भण्डार/जनपद अलीगढ में 40कि0मी0 परिधि में बिदुमिन की धुलाई का कार्य। | 8. |

3.कार्य को पूर्ण करने की समयावधि शीत ऋतु को शामि
5.बिड अभिलेख (Document) के कॉलम 8,9,10,11 अपरान्ह तक कॉलम 6 मे अंकित धनराशि का भुगतान अलीगढ़ के पक्ष मे तथा अलीगढ, मे पेबिल (Payable)

# अमुवि के जेडएच कालिज आफ इंजीनियरिंग एण्ड टेक्नालोजी में तीन दिवसीय अल्पकालिक प्रशिक्षण कार्यक्रम आरंभ

अलीगढ़, 19 सितंबरः अलीगढ़ मुस्लिम विश्वविद्यालय के जेडएच कालिज आफ इंजीनियरिंग एण्ड टेक्नालोजी के सिविल इंजीनियरिंग विभाग द्वारा भारत के राष्ट्रीय आपदा प्रबंधन संस्थान नई दिल्ली के सहयोग से जी20 कार्यक्रमों की श्रृंखला के तहत आयोजित तीन दिवसीय अल्पकालिक प्रशिक्षण कार्यक्रम के उद्घाटन समारोह को संबोधित करते हुए मुख्य अतिथि कुलपति प्रोफेसर मोहम्मद गुलरेज ने कहा कि बढ़ते शहरीकरण व औद्योगिकरण के चलते आपदा के खतरे भी बढ़े हैं। ऐसे में भवनों व अन्य संसाधनों की सुरक्षा के लिए प्रभावी आपदा प्रबंधन बहुत आवश्यक हो गया है।

उन्होंने बुनियादी ढांचा सुरक्षा आडिटिंग प्रणाली पर आयोजित होने वाले इस अल्पकालिक प्रशिक्षण कार्यक्रम को संबोधित करते हुए कहा कि पर्यावरण असंतुलन के कारण उत्तराखंड क्षेत्र में भूसखलन के कारण काफी तबहीपैदा हुई। ऐसे में इंजीनियरों के समक्ष एक बड़ी चुनौती है और उनकी भूमिका भी बहुत बढ़ गई है। आपदा के दौरान होने वाले नुकसान को कम से कम कैसे किया जाए और लोगों के जीवन को सुरक्षित बनाया जाए। कुलपति ने कहा कि हांलांकि संसाधनों का आडिटिंग एक चुनौती भरा कार्य है लेकिन विशेषज्ञों के साथ सार्थक चर्चा से इस कार्यक्रम के सकारात्मक परिणाम सामने आएंगे।

राष्ट्रीय आपदा प्रबंधन संस्थान से जुड़े कार्यक्रम के समन्वयक प्रोफेसर चंदन घोष ने इस कार्यक्रम की रूपरेखा के बारे बताया। उन्होंने कहा कि अमेरिका में भी अमेरिक सोसाइटी आफ इंजीनियर्स द्वारा 1988 से इंफ्रास्ट्रक्चर रीटिंग प्रणाली का पालन किया जा रहा है। उन्होंने बताया कि इस प्रशिक्षण कार्यक्रम में बुनियादी ढांचा सुरक्षा प्रणाली के दौरा पेश आने वाली समस्याओं पर भी बात होगी। प्रो. शोध ने कहा कि भवनों की भूकम्प से सुरक्षा पर भी प्रतिभागियों को प्रशिक्षित किया जाएगा। उन्होंने डिजिटल निर्माण तकनीक पर भी चर्चा की।

सिविल इंजीनियरिंग विभाग के अध्यक्ष प्रोफेसर आईएच फारूकी ने स्वागत भाषण में विभाग का परिचय दिया। उन्होंने विभाग में चल रहे एमटेक पाठक्रयक्रमों व कंसलटेंसी के बारे में भी बताया।

कार्यक्रम को इंजीनियरिंग एण्ड प्रौद्योगिकी संकाय के डीन प्रोफेसर एम अल्तमश सिद्दीकी, इंजीनियरिंग कालिज के प्रिन्सिपल प्रोफेसर एमएम सुफियान बेग, कोरटेक्स सोल्यूशन के इंजीनियर मनीश भारतीय ने भी संबोधित किया।

## 23 सितंबर को कैनेडी ऑडिटोरियम में मुशायरा

अलीगढ़ 19 सितंबरः अलीगढ़ मुस्लिम विश्वविद्यालय के कैनेडी ऑडिटोरियम में एएमयू की पूर्व छात्र मामलों की समिति और वर्टेक्स इवेंट्स दुबई के संयुक्त तत्वाधान में 23 सितंबर, 2023 को शाम 7 बजे एक मुशायरे का आयोजन किया जा रहा है जिसमें उर्दू और हिंदी के लोकप्रिय कवि भाग लेंगे।मुशायरे के संयोजक, प्रोफेसर एम.एम. सुफियान बेग ने बताया कि एएमयू के कुलपति प्रोफेसर मोहम्मद गुलरेज मुख्य अतिथि होंगे, जबकि प्रसिद्ध लेखक और फिल्म निमार्ता पद्मश्री मुजफ्फर अली मुशायरे की अध्यक्षता करेंगे। श्री पुश्किन आगा सह-संयोजक हैं। प्रोफेसर बेग ने बताया कि जिन शायरों ने इस कार्यक्रम में भाग लेने के लिए अपनी सहमति दी है, उनमें अजहर इनायती, इकबाल अशहर, महशर आफरीदी, शकील आजमी, पप्लू लखनवी, अम तुराज और खुशबू शर्मा शामिल हैं।

# एएमयू में शुरू हुआ तीन दिवसीय अल्पकालिक प्रशिक्षण कार्यक्रम

❖ जनभावना टाइम्स

**अलीगढ़।** एएमयू के जेडएच कालिज आफ इंजीनियरिंग एण्ड टेक्नालोजी के सिविल इंजीनियरिंग विभाग द्वारा भारत के राष्ट्रीय आपदा प्रबंधन संस्थान नई दिल्ली के सहयोग से तीन दिवसीय अल्पकालिक प्रशिक्षण कार्यक्रम के उद्घाटन समारोह को संबोधित करते हुए मुख्य अतिथि कुलपति प्रोफेसर मोहम्मद गुलरेज ने कहा कि बढ़ते शहरीकरण व औद्योगिकरण के चलते आपदा के खतरे भी बढ़े हैं। ऐसे में भवनों व अन्य संसाधनों की सुरक्षा के लिए प्रभावी आपदा प्रबंधन बहुत आवश्यक हो गया है।

उन्होंने बुनियादी ढांचा सुरक्षा आडिटिंग प्रणाली पर आयोजित होने वाले इस अल्पकालिक प्रशिक्षण कार्यक्रम को संबोधित करते हुए कहा कि पर्यावरण असंतुलन के कारण उत्तराखंड क्षेत्र में भूसखलन के कारण काफी तबाही पैदा हुई। ऐसे में इंजीनियरों के समक्ष एक बड़ी चुनौती है और उनकी भूमिका भी बहुत बढ़ गई है। आपदा के दौरान होने वाले नुकसान को कम से कम कैसे किया जाए और लोगों के जीवन को सुरक्षित बनाया जाए। कुलपति ने कहा कि हांलांकि संसाधनों का आडिटिंग एक चुनौती भरा कार्य है लेकिन विशेषज्ञों के साथ सार्थक चर्चा से इस कार्यक्रम के सकारात्मक परिणाम सामने आएंगे।राष्ट्रीय आपदा प्रबंधन संस्थान से जुड़े कार्यक्रम के समन्वयक प्रोफेसर चंदन घोष ने इस कार्यक्रम की रूपरेखा के बारे बताया। उन्होंने कहा कि अमेरिका में भी अमेरिक सोसाइटी आफ इंजीनियर्स द्वारा 1988 से इंफ्रास्ट्रक्चर रीटिंग प्रणाली का पालन किया जा रहा है। उन्होंने बताया कि इस प्रशिक्षण कार्यक्रम में बुनियादी ढांचा सुरक्षा प्रणाली के दौरा पेश आने वाली समस्याओं पर भी बात होगी। प्रो. शोध ने कहा कि भवनों की भूकम्प से सुरक्षा पर भी प्रतिभागियों को प्रशिक्षित किया जाएगा। उन्होंने डिजिटल निर्माण तकनीक पर भी चर्चा की।

सिविल इंजीनियरिंग विभाग के अध्यक्ष प्रोफेसर आईएच फारूकी ने स्वागत भाषण में विभाग का परिचय दिया। उन्होंने विभाग में चल रहे एमटेक पाठक्रयक्रमों व कंसलटेंसी के बारे में भी बताया। कार्यक्रम को इंजीनियरिंग एण्ड प्रौद्योगिकी संकाय के डीन प्रोफेसर एम अल्तमश सिद्दीकी, इंजीनियरिंग कालिज के प्रिन्सिपल प्रोफेसर एमएम सुफियान बेग, कोरटेक्स सोल्यूशन के इंजीनियर मनीश भारतीय ने भी संबोधित किया। उपस्थितजनों का आभार कार्यक्रम के आयोजन सचिव प्रोफेसर रेहान ए खान ने जताया। कार्यक्रम का संचालन साद शमीम अंसारी ने किया।

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# अमुवि के जेड़एच कालिज आफ इंजीनियरिंग एण्ड टेक्नालोजी में तीन दिवसीय अल्पकालिक प्रशिक्षण कार्यक्रम आरंभ

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