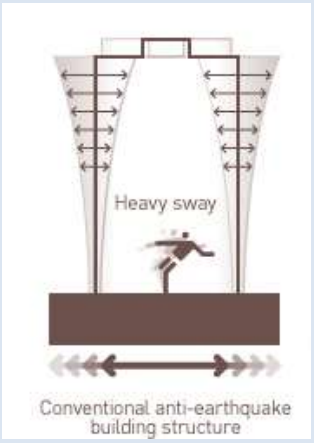
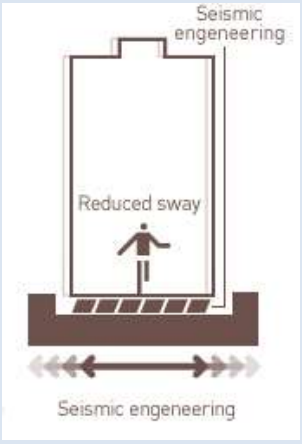
Training Programme Report
(One Week, Online)

STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY





November 24-28, 2020

Organised By:

National Institute of Disaster Management
Ministry of Home Affairs, Govt. of India
&
Department of Civil Engineering
Delhi Technological University

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

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Department of Civil Engineering, Delhi Technological University &
National Institute of Disaster Management, Ministry of Home Affairs, GOI

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"

November 24-28, 2020

INAUGURATION
01:00 PM – 01:30 PM

Programme Coordinators
Dr. Shilpa Pal (DTU)
Prof. Raju Sarkar (DTU)
Dr. Amir Ali Khan (NIDM)

SCHEDULE

Time (hrs) Day/Date	01:30 PM -02:30 PM	Break 02:30 – 02:45 PM	02:45-03:45 PM	Break 03:45 – 04: 00 PM	04:00 – 05:00 PM
Day 1 Tuesday (24.11.20)	Challenges of Seismic safety of built environment in Indian Scenario **Prof. Ravi Sinha**, IITB		Roles & Responsibilities of Structural Engineer **Sh. Alok Bhowmick** MD, BSECPL and President, IAStructE		Seismic Conceptual Design of Buildings **Dr. Shilpa Pal**, DTU
Day 2 Wednesday (25.11.20)	Geotechnical investigations **Prof. Raju Sarkar,** DTU		Rapid Visual Screening of Buildings **Prof. Pradeep K. Ramancharla**, IIITHYD		Retrofit Analysis & Design for Masonry Buildings – A Case Study **Dr. Ajay Chaurasia**, CSIR-CBRI
Day 3 Thursday (26.11.20)	Safety Evaluation of Critical Lifeline Infrastructure **Prof. C.V.R. Murthy**, IITM		Vulnerability Analysis and Design of Retrofit Strategy for RC buildings **Dr. Ajay Chaurasia**, CSIR-CBRI		Good Construction Practices **Prof Amit Srivastava**, DTU
Day 4 Friday (27.11.20)	Audit of Non-Structural Elements for Earthquake Safety **Prof. Chandan Ghosh**, IITJ		Seismic Evaluation of existing Building in Hilly areas **Dr. Girish Chandra Joshi**, USDMA		National Building Code-2016 provisions for Earthquake Risk Mitigation **Mr. Arun Kumar**, BIS
Day 5 Saturday (28.11.20)	Retrofitting Techniques for Seismic Safety **Mr. Sandeep Donald Shah**, Taylor Devices India		Fire Safety Considerations in Buildings **Sh. R. C. Sharma**, Chief Delhi Fire Services (formerly)		Valedictory and closing remarks

Dr. Shilpa Pal shilpapal@dtu.ac.in, 8800325860	**Prof. Raju Sarkar** rajusarkar@dce.ac.in, 7678120434	**Dr. Amir Ali Khan** amir.nidm@nic.in M-7840847473
Mr. Alok Bhowmick 9811175255, bsec.ab@gmail.com	**Dr. Girish C. Joshi** 9412379345, algirish@gmail.com	**Prof. C.V.R. Murthy** cvrm@iitm.ac.in
Prof Pradeep K. Ramancharla 9391131199; ramanchrla@iiit.ac.in	**Prof. Amit Srivastava** 8800667128, aksrivastava@dce.ac.in	**Mr. Arun Kumar** strucarun@gmail.com
Dr. Ajay Chaurasia 9897209050; ajaycbri@gmail.com	**Prof. Ravi Sinha** rsinha@civil.iitb.ac.in	**Dr. Sandeep Donald Shah** sandeep.shah@taylordevicesindia.com
Sh. R. C. Sharma rcsharmadfs@gmail.com	**Prof. Chandan Ghosh** 9968668503, cghosh24@gmail.com	

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

INTRODUCTION

A one week online short term training programme on "**STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY**" jointly organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India and Department of Civil Engineering, Delhi technological University from 24th Nov. 2020 to 28th Nov, 2020. The STTP aims to provide opportunities to Engineers, faculty members, research scholars and students, to enrich their teaching skill and research in the field of Earthquake Safety, Structural audit, retrofit analysis and design. The STTP was attended by 262 participants from different organization, industry, govt. organizations, faculty members, research scholars and students. The selected eminent speakers gave all the detailed insights of all their experiences in every sector where auditing of buildings is required for earthquake safety. The training programme generated a successful detailed discussion on seismic safety and construction practices, debate on retrofitting techniques, experiences gained for fire safety and also highlighted the initiatives needed to be taken by qualified structural engineer community and government.

SCOPE AND OBJECTIVE

The present Short Term Training Programme (STTP) on "Structural Audit for Earthquake Safety" intends to sensitize, institutionalize and promote information, knowledge, and innovation for seismic stability of the built environment comprising of residential and commercial buildings and critical infrastructure like hospitals and schools etc. The STTP is being organized with an aim to strengthen human capacity to reduce risks from impending earthquakes. Through this STTP efforts would be made to share and disseminate experiences, knowledge, information, innovations and ideas on seismic safety of structures as per the National Building Code and latest instructions issued by the Honbl'e High Court of Delhi to make the existing buildings seismic compliant.

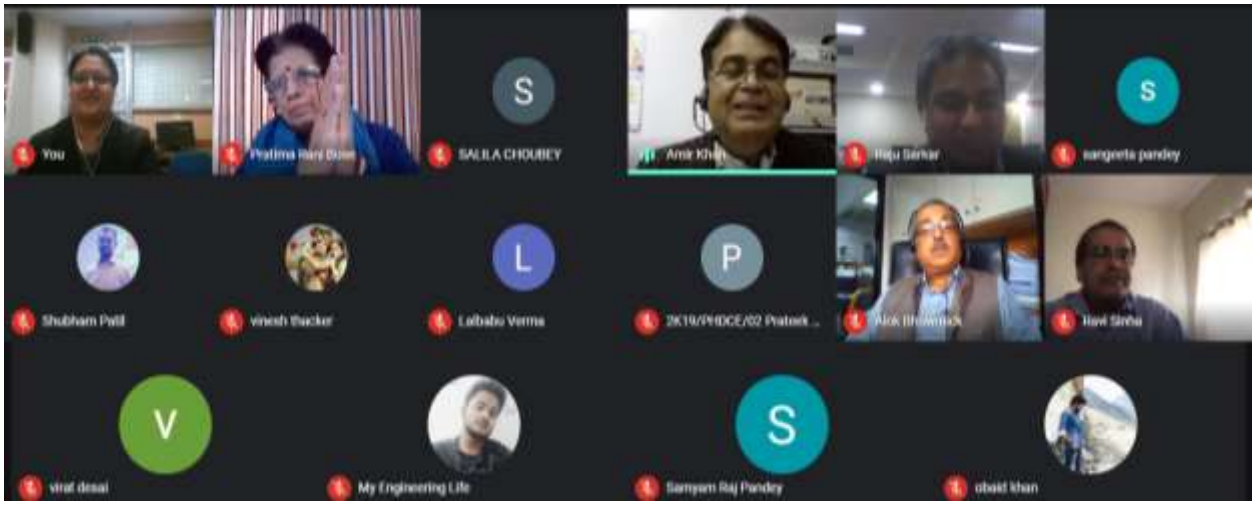
TARGET GROUP

This programme is primarily designed for people across the humanitarian to development spectrum, who may in some capacity be involved in construction activities at different levels. The programme will be useful for architects, engineers, planners, administrators, and teaching faculties involved in teaching and research related to built environment. The target group for this programme would be senior and middle level functionaries of the central/state governments, PSUs, Municipal Corporations involved in planning, design, construction and maintenance of buildings and representing various departments including CPWD, PWD, Rural Development, Municipalities, Town Planning, Faculties/ Researchers at Universities/IITs/NITs and Industries/R&D facilities dealing in upcoming innovation in sustainable constructions.

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

INAUGURAL SESSION:

Assoc. Prof. (Dr.) Shilpa Pal, DTU Delhi and Course coordinator of FDP welcomed all the respected dignitaries and participants. Prof. (Dr.) Nirendra Dev, HOD of Civil Engg. Departent, DTU appreciated the program organized by Civil Dept in his speech. Prof. (Dr.) Raju Sarkar, Professor DTU, Delhi and Course coordinator also encouraged for such activities. (Dr.) Amir Ali Khan (NIDM) and Course Coordinator emphasized the benefits of such kind of resourceful activity.



Chief Guest, Prof. (Dr.) P.R Bose, Associate director, DDF consultants Pvt. Ltd., Delhi has delivered keynote address on "structure audit importance and its need in engineering field. As part of the earthquake prevention measure, the Delhi Development Authority (DDA) has issued a directive that all the buildings are to be audited which are constructed till the year 2001. As per the order, all the buildings with a height of 15 meters or above will be required to do a structural audit. It will apply to all the government and private buildings in the national capital.

Key Takeaways

- Structural Auditing is required when the condition of the building is terrible, change in usage/Addition/Alterations etc. also puts the existing structure and its occupants at risk, sometimes after earthquake event auditing is put into action.
- A wide range of existing structures requires seismic retrofitting because of the non-compliance of the seismic codes.
- EQ risk depends upon the vulnerability and natural hazard. Hazard cannot be changed hence we can ONLY reduce the vulnerability and structural safety audit has a big role.
- Challenges such as non- availability of architectural and structural drawings require NDT tests to be performed which involves a wide range of assumptions, sometimes semi-destructive tests are also to be carried if needed.
- Non-structural aspects are also to be covered while carrying out a structural audit for seismic safety.

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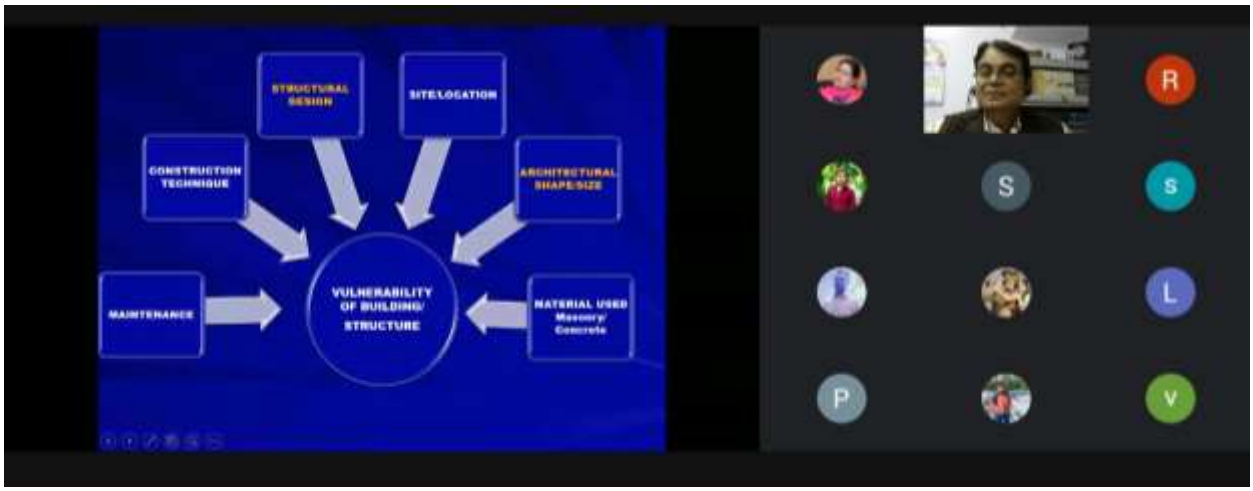
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020



TECHNICAL SESSIONS:

Day-I (24/11/20)

Session I:

Prof. Ravi Sinha, Professor, IIT Bombay, has delivered keynote address on "Challenges of Seismic safety of built environment in Indian Scenario". In this session participants were learned the different building by laws and importance of structural audit aspects for understand the structural vulnerability of our building.

Key Takeaways from the lecture

- Poor implementation of building bye-laws, a large proportion of non-engineered buildings, incremental development of coming up of buildings in cities, mixed-use of construction materials, low maintenance of older buildings, frequent use of inferior construction materials are some of the significant challenges of seismic safety.
- Improving the seismic safety of cities is critical for sustainable growth of the country. Safety audit of buildings is essential to assess the effect of vulnerability on risk accurately.
- An essential key to reducing seismic risk is by decreasing structural vulnerability. The structural audit is an essential first step to understand the structural vulnerability of our building stock.

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

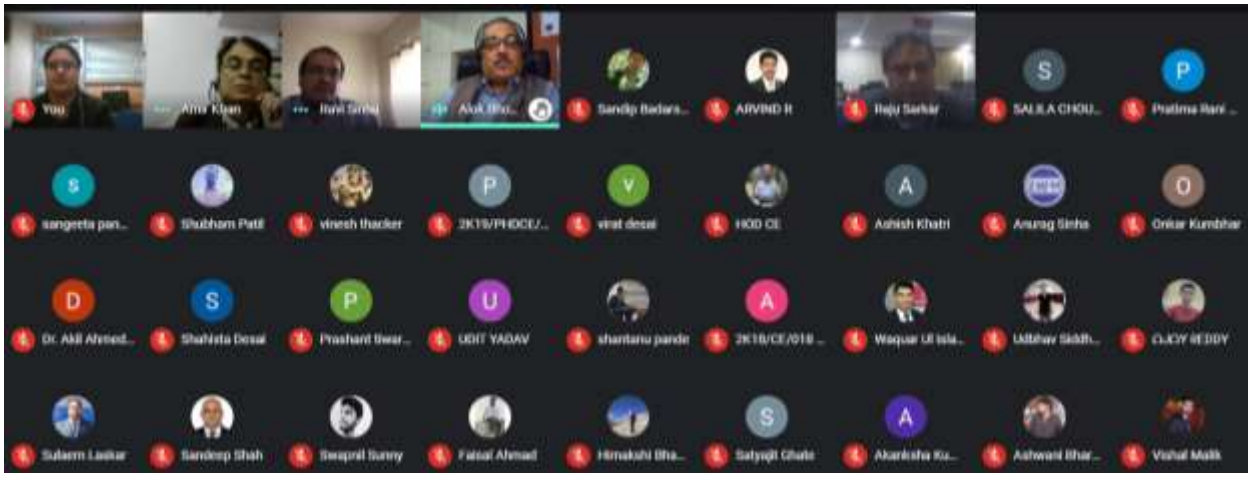
Session II:

Mr. Alok Bhowmick, President of Indian Association of Structural Engineers (IAStructE) have delivered an interactive lecture on "Roles & Responsibilities of Structural Engineer". In this session participants were learned the assessment and design consideration of retrofitting of the existing structures.

Key Takeaways from the lecture

- Structural Engineers have a responsibility to analyse, design, plan and research structural components and systems.

- The assessment of the residual capacity of the existing structures, retrofitting of the existing structures for catering to revised loadings or revised codes or changed functionality of the structure should involve structural engineers.
- Structural engineers in today's era also need to focus on human engineering skills. One should inculcate the essence of integrity, professional competence, punctuality and trust.



Session III:

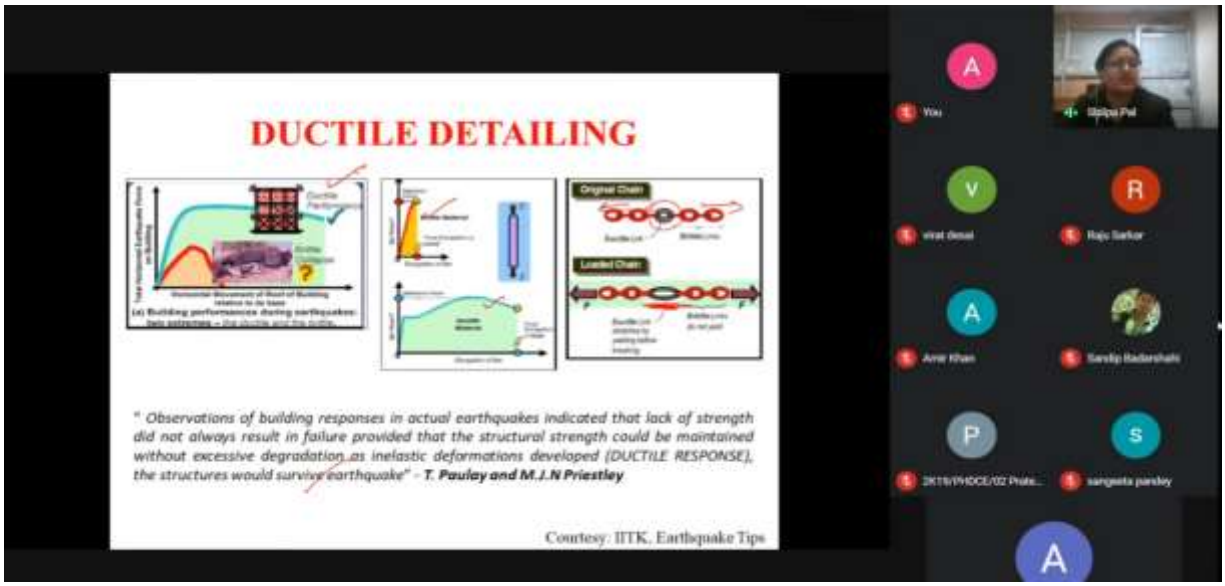
Dr. Shilpa Pal, Associate Professor Civil Engineering department, DTU Delhi, delivered an interactive lecture on "Seismic Conceptual Design of Buildings". In this session participants were learned the different economically acceptable design consideration under severe earthquake.

Key Takeaways from the lecture

- An economically acceptable design under severe EQ can be achieved by allowing the structure to undergo limited damage without collapse.
- The desirable attributes of an EQ resistant building are robust structural configuration, at least a minimum elastic lateral stiffness, a minimum lateral strength and adequate ductility.

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

- The strong column-weak beam design approach, continuous load transfer mechanism, simple and symmetric plan layout, ductile detailing for seismic considerations are some of the main and desirable attributes of an EQ resistant design.
- It is responsibility of every engineer to stop non-engineered construction, perform a proper structural audit, and bring the aware the public about the importance of EQ resistant design and related information.



One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

Day-II (25/11/20)

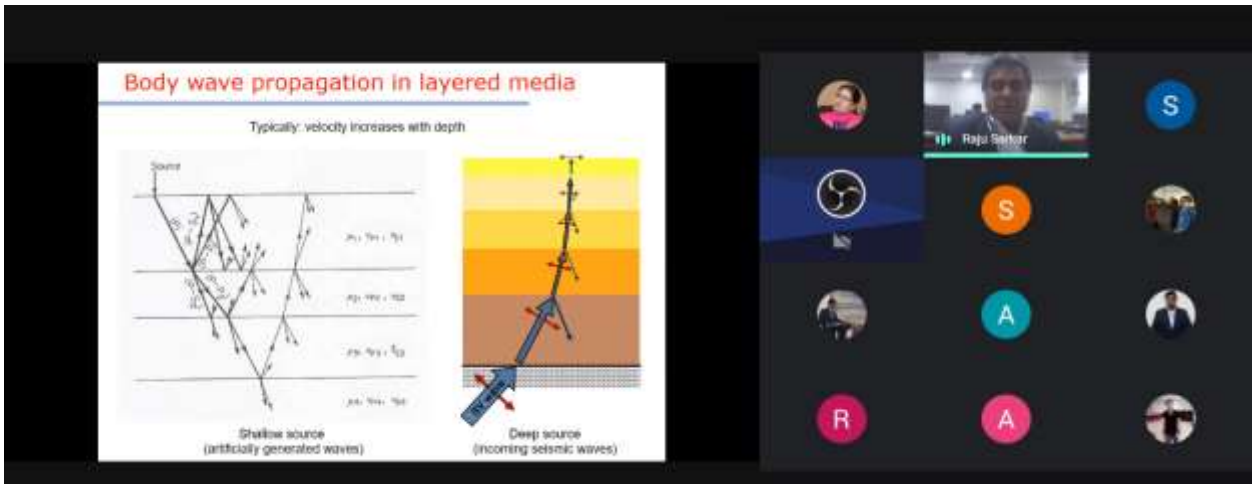
Session I:

Prof. Raju Sarkar, Professor Civil Engineering department, DTU Delhi shared an informative lecture on "Geotechnical investigations". In this session participants were learned about soil characteristic and the necessity of site investigation for new construction as well as retrofitting of older structure too.

Key Takeaways from the lecture

- Buildings can be damaged by the EQ itself or by the ground beneath them, settling to a different level than it was before EQ.
- During an earthquake the ground displacement could seriously damage or rip apart any structure (building, road etc.) when built across a fault.
- Determination of surface and sub-surface soil conditions, groundwater condition and features in an area of the proposed construction is a crucial step as it may influence the design and can also address the expected post-construction problems.
- Site investigation is a vital step not only for new construction but for retrofitting of older structure too. A good site investigation plan and execution can balance the total cost of a project.

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

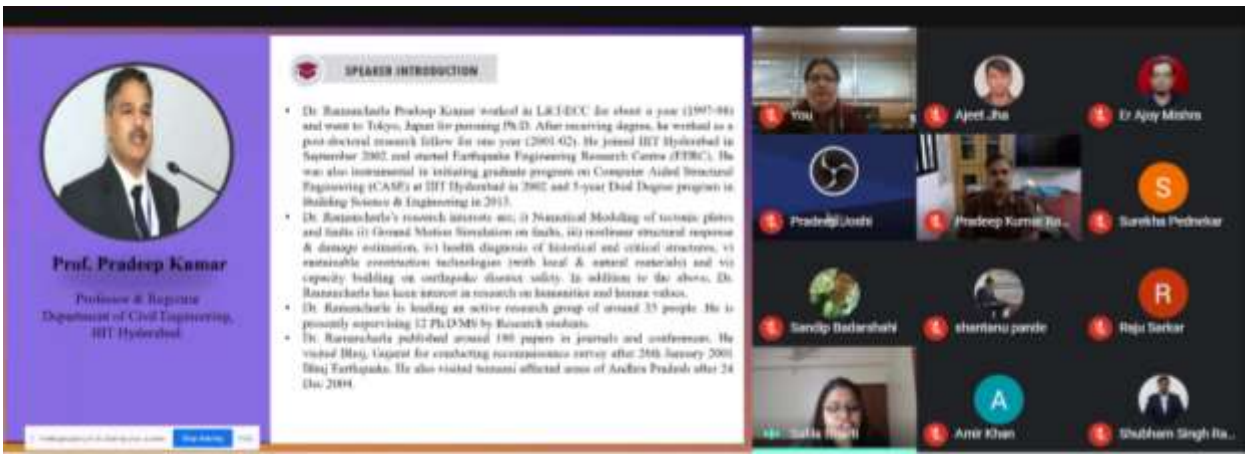


Session II:

Prof. Pradeep K. Ramancharla, Civil Engineering Department, IIIT Hyderabad has delivered an informative lecture on "Rapid Visual Screening of Buildings". In this session participants were learned the different types of Earthquake Safety Assessment and challenges involved in Earthquake Safety assessment.

Key Takeaways from the lecture

- The vulnerability associated with collapse and damage to buildings is unreasonably high in India compared to any other country for a similar level of ground shaking.
- There is an urgent need to understand the housing risk in India to minimize future losses of life and property.
- Two of the significant challenges involved in EQ Safety assessment studies are: (a) assessment of an existing building is much more difficult task than designing a new building (because there are deviations from specifications and drawings) (b) benchmarking of simplified assessment scores.



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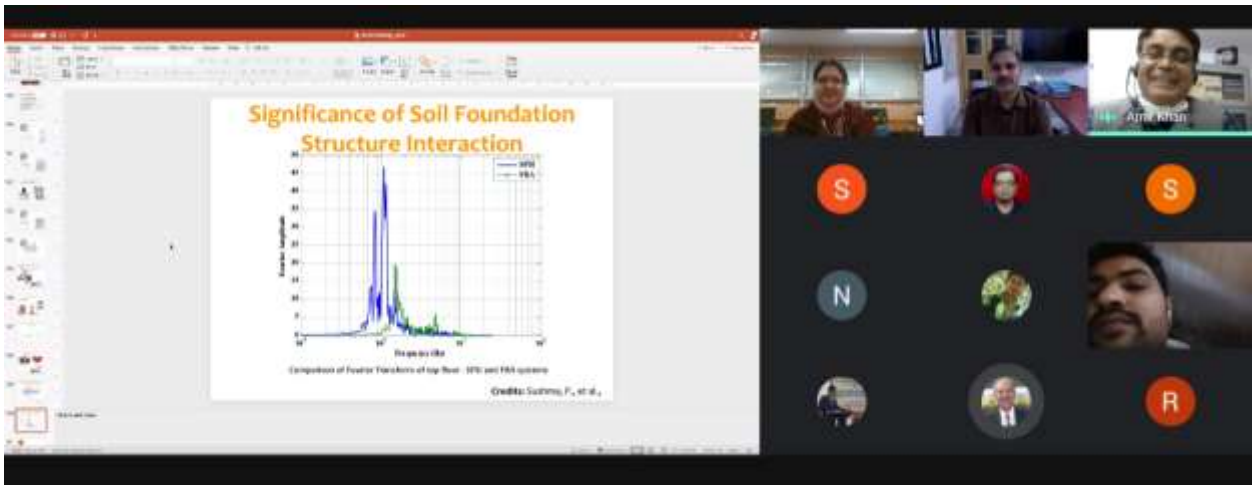


Session III:

Dr. Ajay Chourasia, Sr. Principle Scientist & Prof. (CSIR), has delivered a informative lecture on "Retrofit Analysis & Design for Masonry Buildings – A Case Study". In this session participants were learned about the damage patterns observed in masonry houses and also understand the behavior of masonry buildings under seismic action.

Key Takeaways from the lecture

- It is essential to understand the behavior of masonry buildings under seismic action to minimize the damage, to keep the required stability conditions and retrofit the weaker buildings and rehabilitate if needed.
- Some of the typical damage patterns observed in masonry houses such as out-of-plane failure of walls, inclined cracking above lintels, vertical crack at corner due to wall rocking, collapsed roof and parapet, inclined and vertical cracks in walls, dilation (of volume) within the wall, sliding of one part over another, shear cracking along the diagonal direction, etc. all should be studied properly.

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

- Principles of Masonry buildings under seismic action are integral box action, the integrity of corners, integrity of walls and limit of openings.
- Provisions of vertical bands and connections, steel mesh and mortar cover at corners and on both sides of walls, steel mesh anchorage to the foundation are some of the strengthening and retrofitting measures of masonry buildings.

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

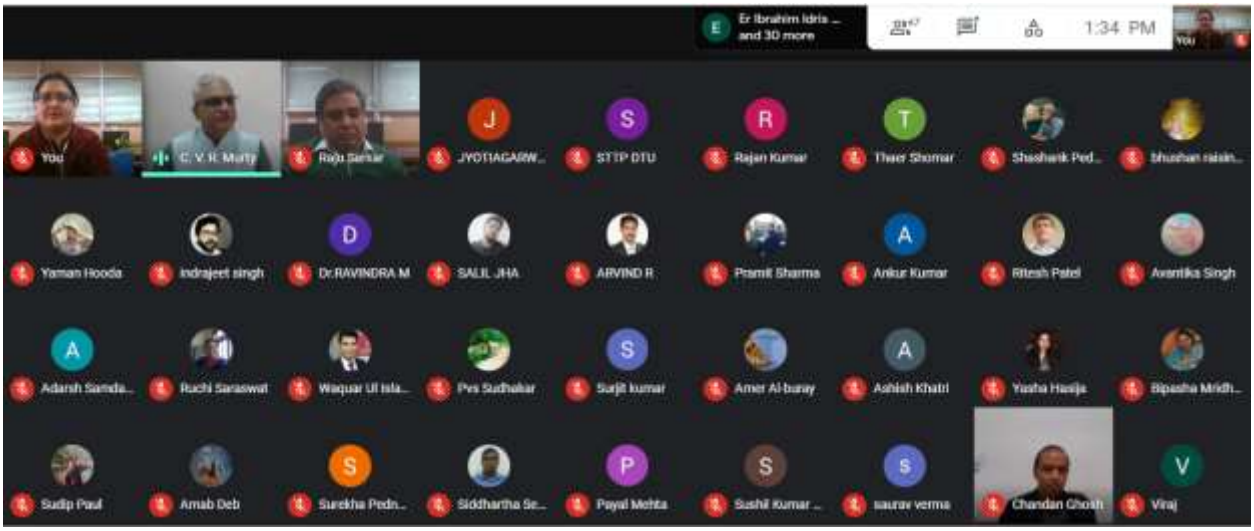
Day-III (26/11/20)

Session I:

Prof. C.V.R. Murthy, Professor Department of Civil Engineering, Indian Institute of Technology, Madras has illuminated on "Safety Evaluation of Critical Lifeline Infrastructure". In this session participants were gained with the knowledge of safety evaluation of critical lifeline infrastructure.

Key Takeaways from the lecture

- Industrial structures are very irregular. They have irregular mass and stiffness distribution across the length, height and width of the structure.
- The level of engineering that is used involves a large number of simplifications and it should be taken very seriously.
- No serious concern is given to connections of steel structures.
- The earthquake vulnerability of lifeline structures can be reduced to a considerable extent by adopting adequate retrofitting measures.



One Week Online Short Term Training Programme
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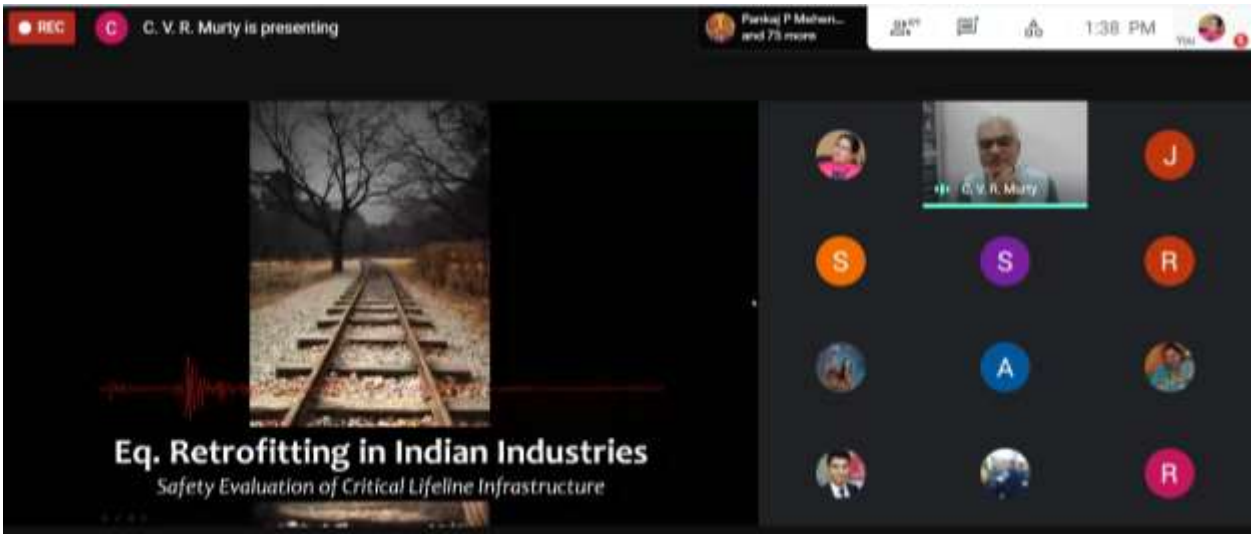


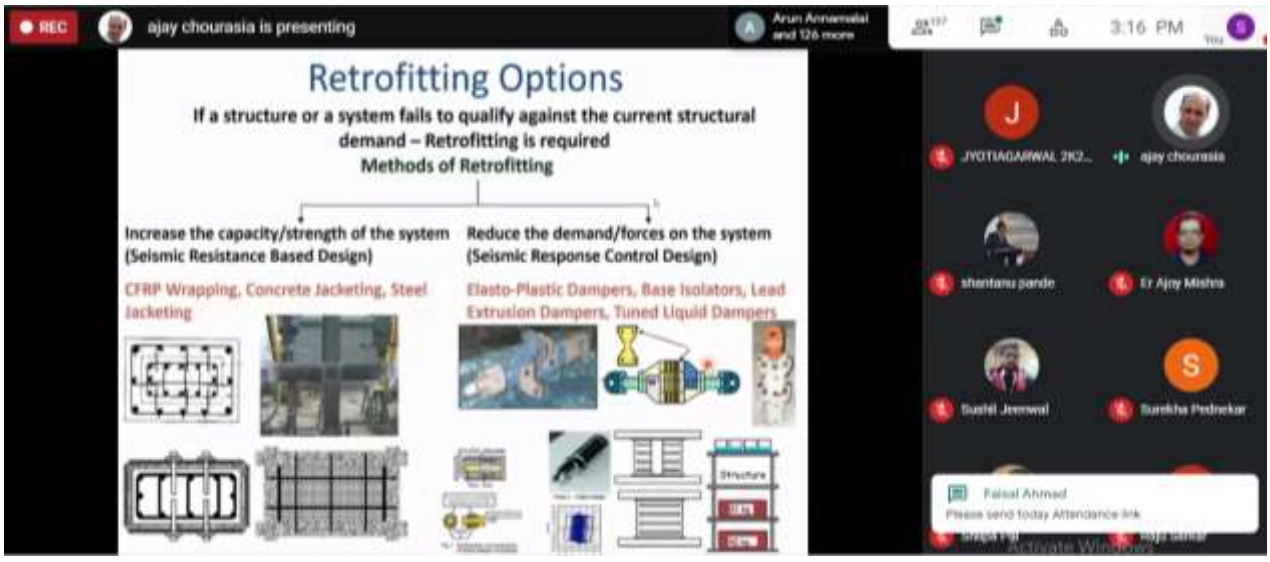
Session II:

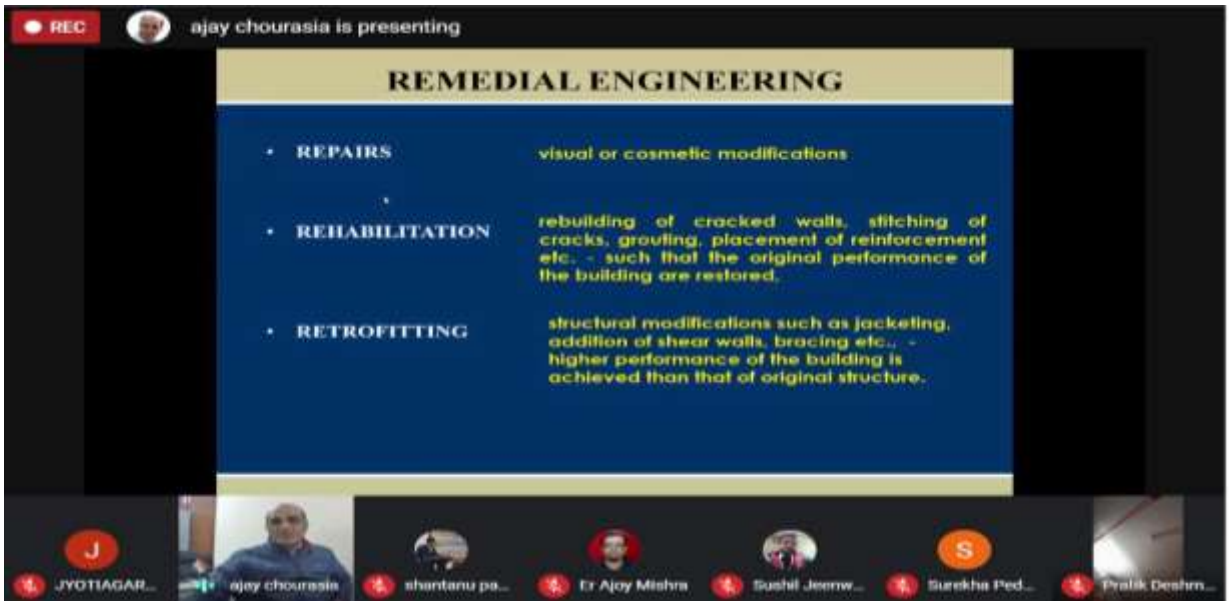
Dr. Ajay Chourasia, Sr. Principle Scientist & Prof.(CSIR), has illuminated on "Vulnerability Analysis and Design of Retrofit Strategy for RC buildings". In this session participants were gained with the knowledge of Basic concept of retrofit, methods of retrofitting, remedial engineering etc.

Key Takeaways from the lecture

- The steps in retrofit strategy involve: setting of goals, performance levels and seismic hazard→ visual inspection and study of available documents→preparation of as-built drawings and in-situ testing→ modelling and analysis→ retrofit design.
- Evaluation of existing structures should include all past modifications, actual size of elements, actual material properties, location, size and cause of cracks, spalling, location and extent of corrosion, quantity and location of rebar.
- Basic concept of retrofit should increase the ultimate strength of the overall structure and improve the deformation capacity, i.e., ductility, jacketing with steel section or the combination of these two.
- Any structure or a system which fails to qualify against the current structural demand and building by laws should undergo retrofitting.

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020





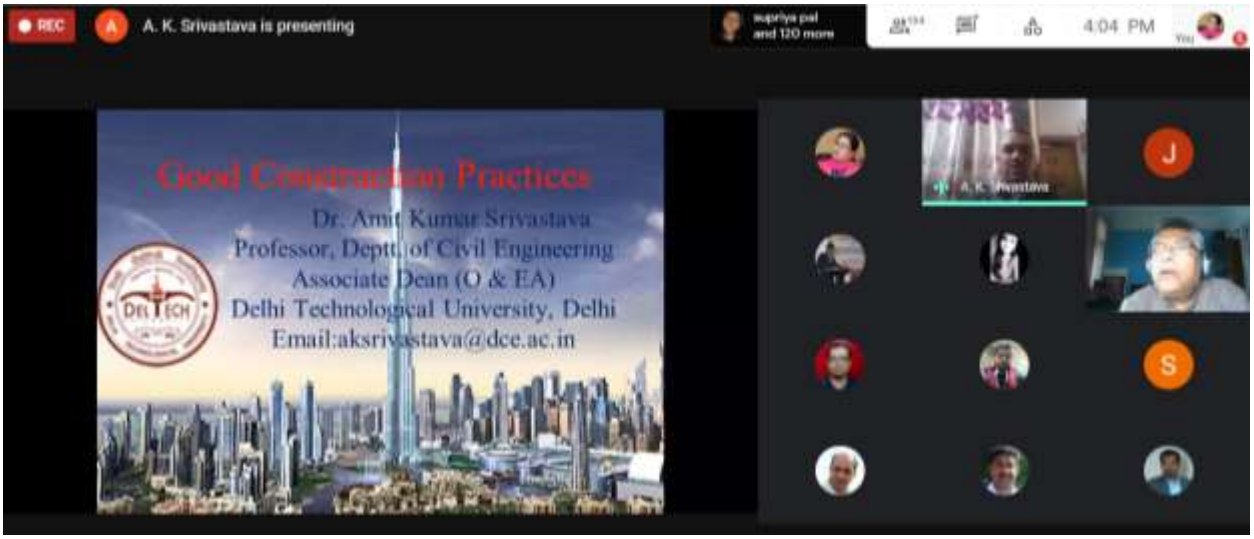
Session III:

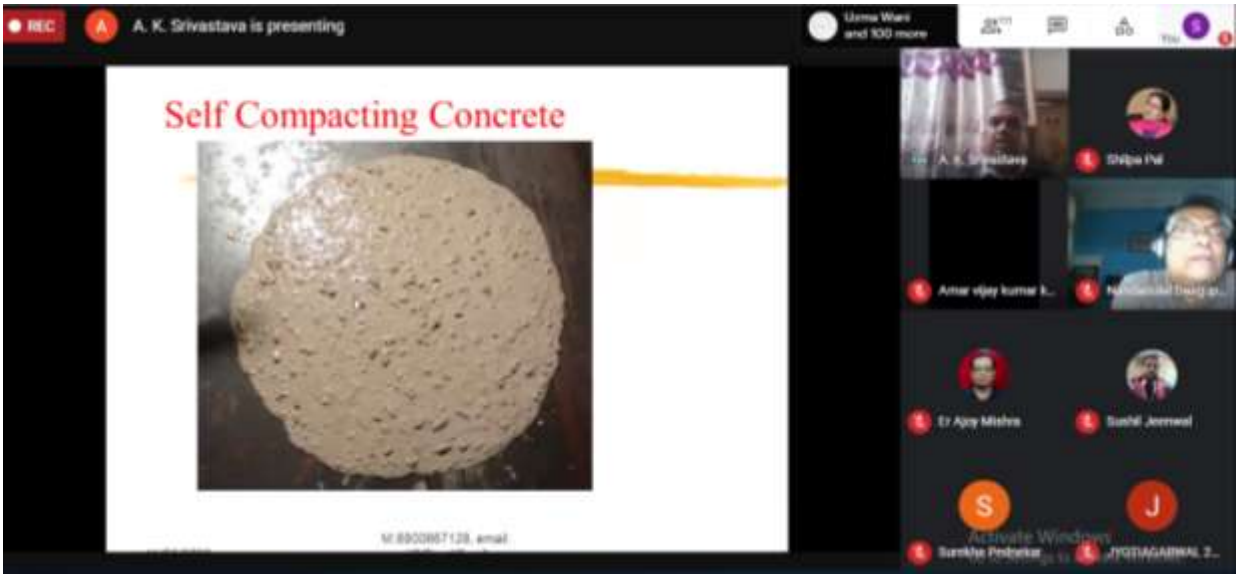
Prof. Amit Kumar Srivastava, Professor Civil Engineering Department, DTU Delhi has delivered a informative lecture on "Good Construction Practices". In this session participants were learned about different necessary steps of good construction practices.

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

Key Takeaways from the lecture

- For RC construction acceptable construction practices involve proper care and consideration for shuttering and formwork, placement of reinforcement, concreting and post-casting operations.
- The necessary steps of good construction practice include: define and share the acceptance criteria, create an inspection plan, use checklists to conduct inspections, correct deficiencies and verify acceptance criteria, prevent future imperfections.
- Locate construction joints in walls and columns on the underside of floor slabs, beams and at the top of footings.
- Pouring point selection and avoiding entrapped air while concrete pumping is vital.





One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

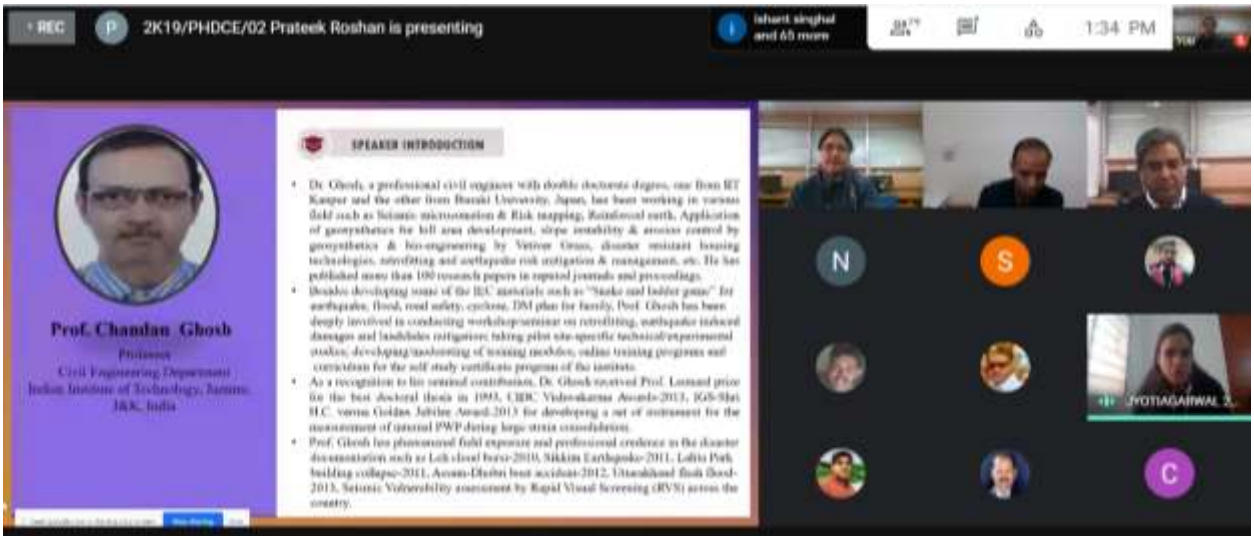
Day- IV (27/11/20)

Session I:

Prof. Chandan Ghosh, Professor Civil Engineering Department Indian Institute of Technology, Jammu, J&K, India illuminated on the topic of "Audit of Non-Structural Elements for Earthquake Safety". In this session participants were gained with the knowledge of risk assessment using Seismic hazard and risk models and application of these models for accurate assessment of risks.

Key Takeaways from the lecture

- Seismic hazard and risk models are needed for accurate assessment of risks to promote risk reduction and mitigating actions.
- Improvement of building codes and construction practices, sustainable land use, emergency response and protection of critical lifeline structures as well as risk transfer through insurance are some of the important actions needed to be strengthened.
- The assessment and subsequent mitigation of EQ risks are among the ultimate goals of both seismology and EQ engineering.



One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

Session II:

Sh. R.C. Sharma, Former Director, Delhi Fire Services & DIG (Fire) CISF, MHA, Govt. of India gave an informative lecture on "Fire Safety Considerations in Buildings". In this session participants were learned about the Right fire prevention measures, Built-In fire alarm/fire suppression facilities and smoke-free means of escape etc.

Key Takeaways from the lecture

- Right fire prevention measures, awareness and training to the occupants can reduce the chances of fire and help timely action to control the spread of fire.
- Built-In fire alarm/fire suppression facilities and smoke-free means of escape can considerably help in saving the life of occupants in the event of a fire.
- The structural audit has always been a desirable requirement for the buildings, which have been constructed before enforcement of mandatory seismic guidelines and bye-laws prescribed by the government.
- The buildings having unapproved addition of upper floors as well as unauthorized buildings certainly need a structural audit.

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
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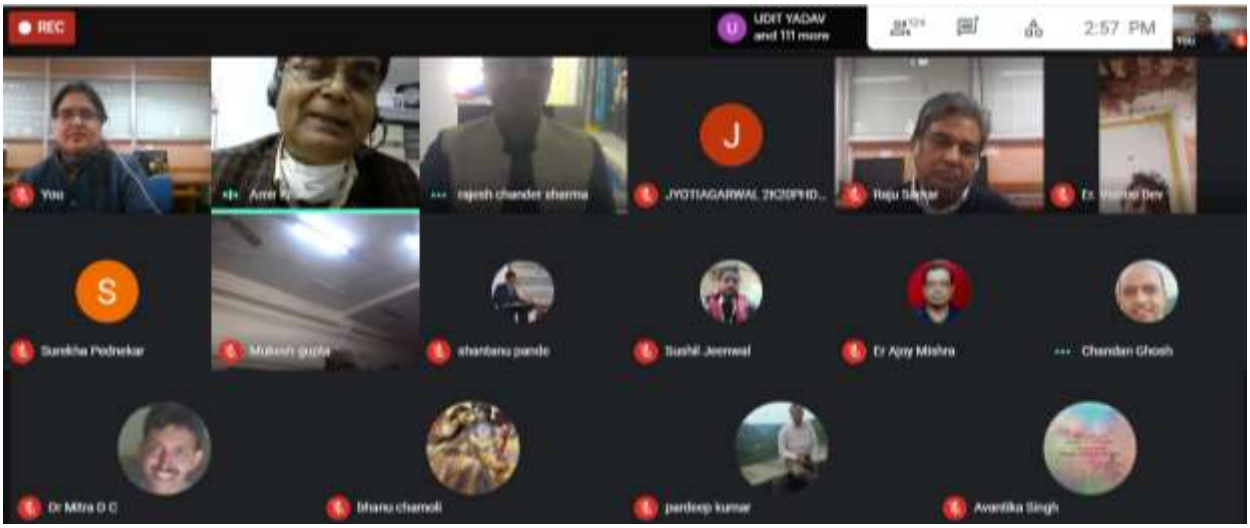


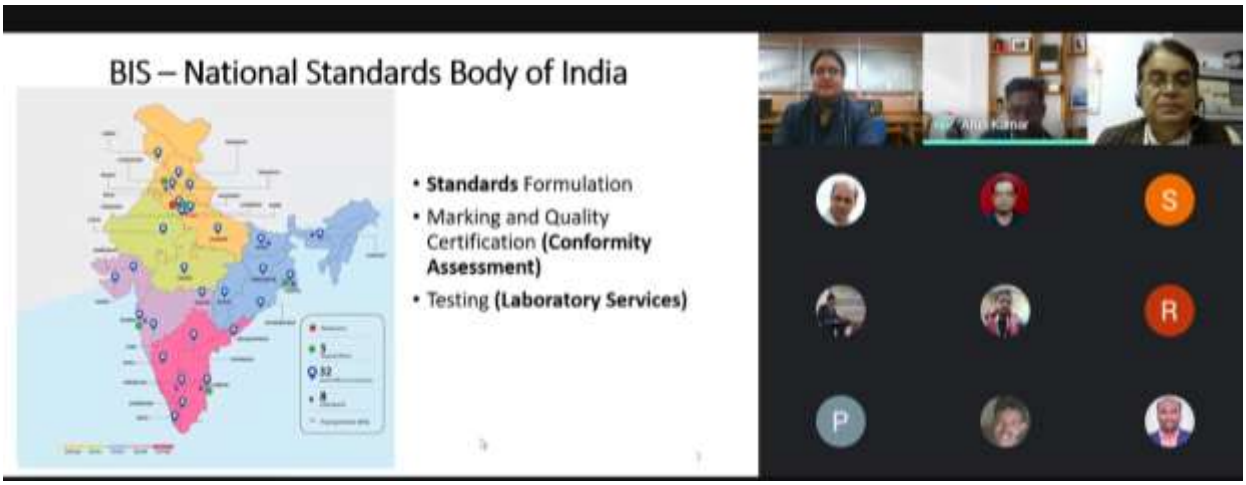
Session III:

Mr. Arun Kumar, Scientist 'D', Civil Engineering, Bureau of Indian Standards, New Delhi, has illuminated on "National Building Code-2016 provisions for Earthquake Risk Mitigation". In this session participants were gained the knowledge of new provisions added in national building code -2016 like Design spectra up to 6 sec fundamental time period, the inclusion of temporary structures, flat slab structures, intermediate importance category based on occupant density, all buildings to be designed for minimum lateral force, the inclusion of effects of masonry infill wall in structural analysis, procedure for evaluating liquefaction potential, etc. are some of the newly added provisions in IS 1893 (Part 1):2016

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

Key Takeaways from the lecture

- National Building Code-2016 provisions is expected to be extensively used by local bodies for framing and revamping existing building bye-laws, govt. and other private construction agencies, building professionals like architects, engineers, town planners, building material suppliers and technology providers, research institutions, etc.
- Design spectra up to 6 sec fundamental time period, the inclusion of temporary structures, flat slab structures, intermediate importance category based on occupant density, all buildings to be designed for minimum lateral force, the inclusion of effects of masonry infill wall in structural analysis, procedure for evaluating liquefaction potential, etc. are some of the newly added provisions in IS 1893 (Part 1):2016.



One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

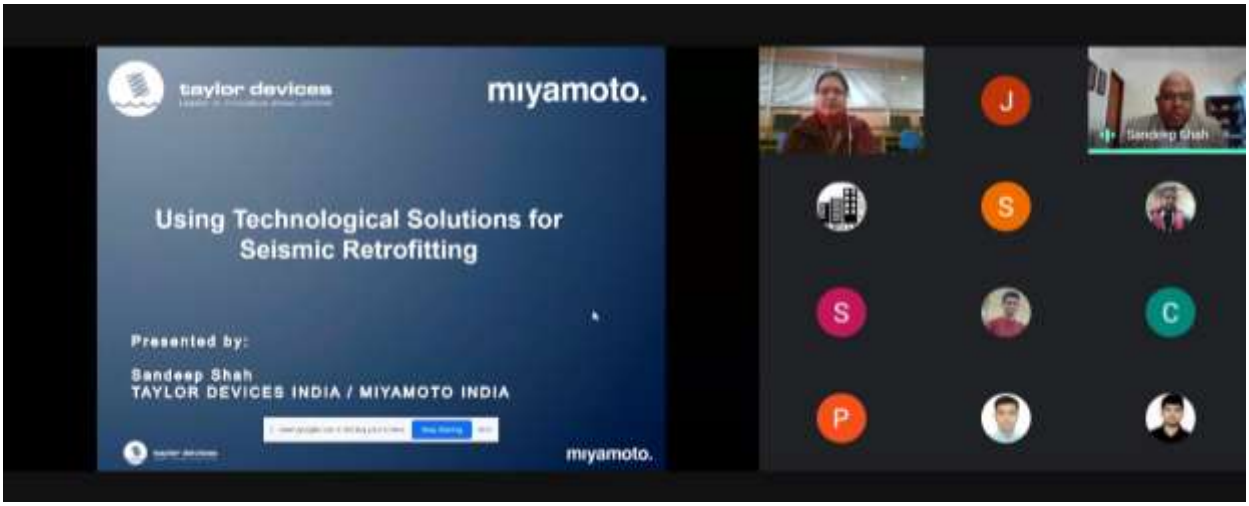
Day-V (27/11/20)

Session I:

Mr. Sandeep Donald Shah, MD - Miyamoto International India & Taylor Devices India, Guragon had delivered his lecture on "Retrofitting Techniques for Seismic Safety". In this session participants were learned a retrofitting techniques and suitable retrofit measures for the deficient buildings.

Key Takeaways from the lecture

- Existing non-code compliant buildings are commonly the ones which perform very poorly during earthquakes causing massive loss of life and property.
- Retrofitting measures are always performance-based. Retrofitting with new shear walls and jacketing the columns are a few conventional techniques.
- Seismic isolation concept shifts the period, adds damping, decouple building from the ground. Thereby it reduces the forces coming upon the structure and imparts better chances of survival during earthquakes.
- High-rise structures can be effectively retrofitted using fluid viscous dampers to improve its seismic performance.
- Modern equipment like dampers can be very well used as an effective energy dissipation device in various structures in the form of mega brace, shear wall dampers, diagonal brace, inverted brace, toggle brace, etc.



One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

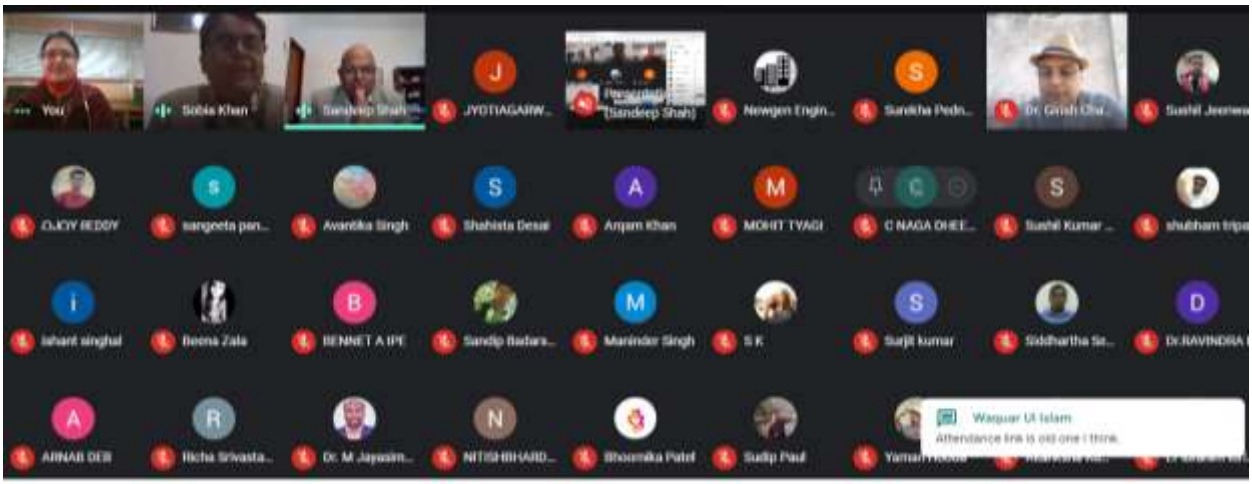
Session II:

Dr. Girish Chandra Joshi, Senior Consultant Uttarakhand State Disaster Management Authority, Government of Uttarakhand gave his informative lecture on "Seismic Evaluation of existing Building in Hilly areas". In this session participants were learned about the different types of Vulnerability and its assessment for the structural and non-structural system.

Key Takeaways from the lecture

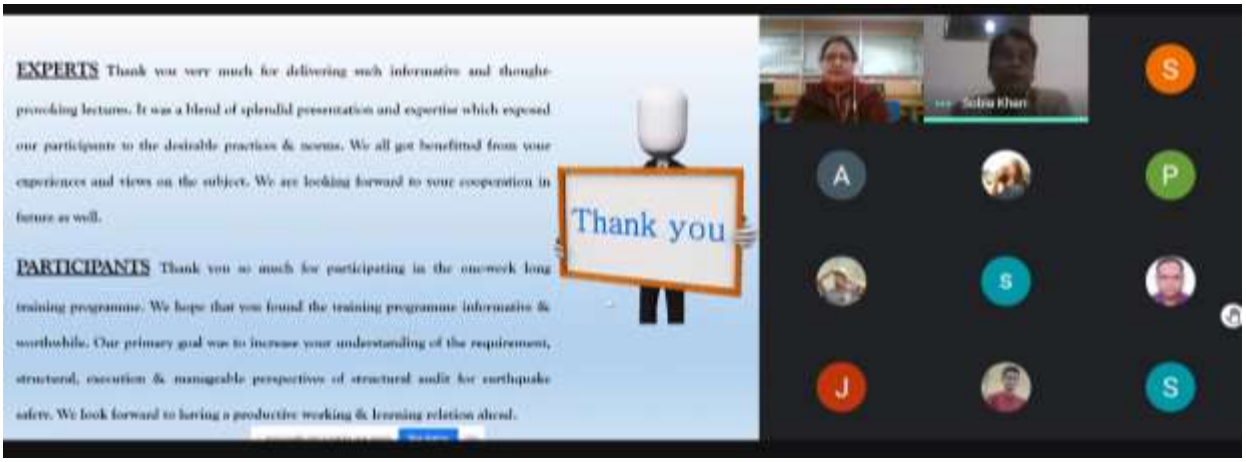
- Observations of major losses in past moderate magnitude earthquakes signals to very high risk of our built environment.
- Buildings in hilly areas are in a very fragile state where survival of these in a future earthquake is a serious concern.
- Different communities have different exposure to vulnerability. Vulnerability is multi-dimensional, dynamic, scale-dependent and site-specific. Different types of vulnerability are physical, economic, social and environmental. Vulnerability assessment for the non-structural system is as vital as for structural components of a structure.Rapid Visual Screening (RVS), simplified vulnerability assessment (SVA) and detailed vulnerability assessment (SVA) comprise the typical set of procedure to follow to calculate seismic vulnerability.

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020



Valedictory and closing Session:

The program was ended with vote of thanks by Dr. Amir Ali Khan, NIDM, Coordinator of the FDP. He Summed up the 5 days programme and thanked all the participants who took great effort in attending all the sessions and making the programme a grand success.



One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

All the sessions were much informative. The discussed areas were of great benefit for the participants as the topics fulfilled the current working domain. Participants were enlightened with the most widely used advance technologies in this field.

BROCHURE OF THE PROGRAM

PARTICIPANTS: The STTP was attended by **262 participants** from different organization, industry, govt. organisation, faculty members, research scholars and students.

One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

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One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

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One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

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One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

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One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

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One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

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One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

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One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

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One Week Online Short Term Training Programme
"STRUCTURAL AUDIT FOR EARTHQUAKE SAFETY"
November 24-28, 2020

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