



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY
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A.P Shah Institute of Technology

Department of Civil Engineering

Expert Lecture on

“Disaster Management in Mumbai - Role of Engineers in DM”

D a t e : 20th September, 2021

Time:3.00 pm-5.00pm

The lecture began with the warm welcome of Resource Person – Mr. Mahesh Narvekar, faculty members and students present for the program. Mr. Omier Sarkare final year student of Civil department introduced the speaker.

Disaster are unpredictable events, but the impact appears to be very drastic and intense over the society in various ways. It is needed to create awareness about disaster management and tricks to tackle disastrous situations, among the students in their early age of the journey towards being a responsible citizen. Main objective of this lecture was to sensitize with regard to role of disaster resilient infrastructure in DRR measures and role of civil engineers, to inculcate the idea of safety measures for infrastructure built, following codal norms in this regard.

Hence, Civil Engineering Department of A.P. Shah Institute of technology organized expert lecture on “Disaster Management in Mumbai - Role of Engineers in DM” for final year Civil and Mechanical Engineering students, since this subject is an Institute level elective. The expert talk was delivered by Mr. Mahesh Narvekar, Director, Disaster Management Department, MCGM, Mumbai.

Mr. Narvekar, discussed about the vulnerability of natural disasters to Mumbai city. He said, we should prepare for the disasters before it happens and we can give 100% in the time of need. The things that we learn today help us in future, so learn today. Readiness in advance and mental Preparedness is necessary to reduce the damage costs.

He mentioned that DRM and DRR are very important with respect to present times of multi hazard and increasing trend of disasters. He spoke about Clean Coal Carbon Technology, Tsunami Warning Centres, Latest communication methods, New Geo Spatial Technologies which provides nice lead time for disaster management.

He mentioned about challenges for civil engineers with respect to finding a suitable land for building construction, administrative issues, safe structure; green building and finding enough funds for the projects etc. Civil Engineering is related to infrastructure sustainable development, public health management, green technology, reducing carbon foot print, geo and biological material for slope protection, design of shelter belts, engineering with eco based solutions. Civil Engineering is also improving the environment and sustainability of mankind.

Earthquake risk reduction and retrofitting of structures, what could happen in an Earthquake situation and what needs to be done, structural (Retrofitting) and Non Structural Measures. He mentioned that by ignoring the existing guidelines, we are paying the price. He briefed about the continuance of life system in a post disaster scenario, Build Back Better concept, Indian Vulnerability to Earthquakes, Primary and secondary Hazards associated with it. He mentioned that not only building infra is under threat but also associated other infrastructure inside a building and they need to be saved. Eventually we have to reduce the earthquake risk by all possible means of earthquake risk mitigation and management through experienced retrofitting engineers.

An engineer's job is to calculate the risk and to reduce the gap. Natural hazards cannot be controlled by humans but we can control it to become disasters, by taking appropriate measures to reduce the risk. Early warning systems for earthquake hazards are being developed. There is a need for development of technologies for enhancement of infrastructure. He emphasized on Disaster resilient infrastructure & discussed the salient features and role of NBCI in details for example its importance in developing resilient infrastructure in India. He mentioned that codal provisions need to be implemented honestly at ground levels.

A total of 102 students along with the faculty members of Civil and Mechanical department, APSIT attended the guest lecture. The session was interactive and informative.

Ms. Sristi Jainapur, Final year student of Civil Department gave Vote of thanks in the end of the program. She thanked the patrons, eminent speakers, Students & faculty for being attended this wonderful expert lecture.