

STRENGTHENING OF CIVIL INFRASTRUCTURE USING ADVANCED TECHNOLOGIES CHALLENGES AND OPPORTUNITIES

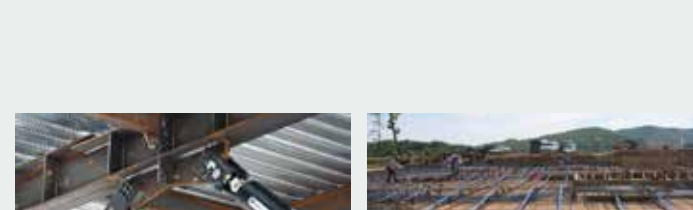
16-17 August 2019



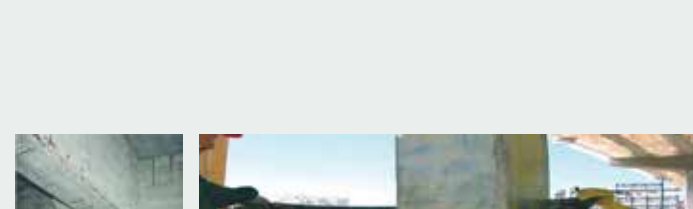
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Overview

A large volume of the existing building stock in the seismic zones around the world is in urgent need of structural strengthening. In addition, post-earthquake repair and retrofit interventions are of vital importance to return to normalcy soon after the damages from earthquakes. Industrial professionals face challenges for strengthening RC members, as there is no straightforward, single procedure available.



This workshop gives an overview of strengthening of civil infrastructure, the design of FRP strengthening under different loading conditions and case studies. This course will be taught by internationally acclaimed academics, researchers and industry specialists.



This workshop is for all the professionals from construction and infrastructure industry involved in destructive and non-destructive testing and evaluation of concrete; performing structural condition assessment, repair and strengthening of existing buildings/bridges. Engineers, architects, designers, contractors, developers and other building professionals in both private and public practice will benefit. Moreover, this course will provide an exposure to young scientists, research scholars and teachers at the universities and private engineering colleges. The workshop will be planned and offered as per the norms set by IIT Hyderabad.



Lecture 1

Seismic Behavior of Anchorage Systems with focus on Structural Strengthening - Dr. Akanshu Sharma

Lecture 2

Strengthening of Structures using Post-tensioning - Dr. S. Suriya Prakash

Lecture 3

Strengthening of Reinforced Concrete Members under earthquake loads - Dr. G. R. Reddy

Lecture 4

Condition assessment and Structural Audit of life line structures - Dr. Abhay Bambole

Lecture 5

Case Studies in Strengthening using FRP Composites - Dr. Gopal Rai

Lecture 6

Case Studies in Seismic Strengthening - Dr. Aman Deep Garg

Lecture 7

Supplemental damping & Energy dissipating devices for seismic strengthening - Dr. Oinam

Lecture 8

Post-fire assessment and strengthening of structures - Dr. Anil Agarwal

Lecture 9

Anchorage Design - Overview - Mr. Uday Shikare

Lecture 10

Role of Anchors in Strengthening - Dr. Prashant Sathe

Speaker Details

	Dr. Akanshu Sharma Junior Professor University of Stuttgart Germany		Dr. Anil Agarwal, Assistant Professor Indian Institute of Technology, Hyderabad India
	Dr. G.R. Reddy President Association of Structural Rehabilitation India		Dr. Amandeep Garg Managing Director Creative Design Consultants and Engineers Pvt. Ltd India
	Dr. S. Suriya Prakash Associate Professor Indian Institute of Technology, Hyderabad India		Mr. Uday Shikare Technical Manager Fisher India Limited Bangalore
	Dr. Gopal Rai General Secretary Association of Structural Rehabilitation India		Dr. Prashant Sathe Technical Expert Hilti India Pvt. Ltd India
	Dr. Roman Babu Oinam Assistant Professor Indian Institute of Technology, Tirupati India		Prof Abhay Bambole Professor VJTI, Mumbai India

You Should Attend If You Are

- Structural engineer
- Research scientist
- Contractor/builder
- Student or faculty

Participation Fee

- Abroad Participants: US \$500
- Industry/ Research Organizations: Rs. 5,000 (Including 18%GST)
- Academic Participants: Rs. 3000 (Including 18%GST)
- Graduate Students/ Research Scholars: Rs. 2000
- Students from India belonging to the reservation category (SC/ST): 1000 INR (Note: Please send soft copy of your community certificate)
- No fee for IITH students

Registration Form

Name:.....
 Designation:.....
 Organisation:.....
 Ph no:.....
 Email:.....
 Registration fee:.....
 Enclosed is a closed draft no.....
 dated.....for Rs.....
 In favour of "IIT Hyderabad" payable at
 State Bank of India, Hyderabad.
 IIT Kandi: (Branch code: 14182)
 Hyderabad, India
 SWIFT Code: SBIN0014182 (Within India),
 SWIFT code SBININBB762,(Abroad)
 IMCR CODE:502002528
 Account No.: 30859878032 (Current A/c)

An additional fee of Rs. 1500/- has to be paid for two days for food and hostel accommodation (sharing basis). Food will include Breakfast, Lunch, Dinner and Coffee/ Tea during the course fee. This payment has to be done in addition to the mandatory registration fee. Those who are staying outside the campus can pay Rs.600 for Lunch and Tea/snacks for the two days.

For complete details about the course, please visit:
<https://www.iith.ac.in/~strengthening/Speakers.html>

Please fill in the attached google form link for registration:
https://docs.google.com/forms/d/e/1FAIpQLSeaCRky3w-xRMVjWdQt6V-drsZPDw1J_wVb9s63Y5dg_WPQ/viewform

Course Coordinator

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