

Five Day Faculty Development Program

On

“DETERIORATION, DIAGNOSIS AND REHABILITATION OF RC STRUCTURES”

(25th - 29th October, 2021)



Organized by



Civil Engineering Department
BIT Sindri Dhanbad-828123

ELIGIBILITY

This program is open to faculty members, research scholars, PG and UG students, and industrial personnel.

ONLINE REGISTRATION LINK

<https://forms.gle/VPeUD8zKS9Eezowf7>

Last Date of Registration: 20 - Oct. – 2021

Certification:

E-Certificate will be provided to all the registered participant having at least 80% attendance.

Contact:

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ABOUT THE INSTITUTE

BIT, Sindri was started in 1949. The institute is located at a distance of 28 kms from Dhanbad railway station linked by rail as well as road. It has a sprawling campus of about 400 acres of land near the eastern bank of river Damodar.

ABOUT THE DEPARTMENT

The Department of Civil Engineering was started in the year 1957. The department offers UG & PG courses with Soil mechanics, Foundation Engineering and Structural engineering as specialization. The department also offers adequate facilities for R&D work.

ORGANIZING COMMITTEE

PATRON

Prof. (Dr.) D. K. Singh Director, BIT Sindri

CONVENOR

Dr. Ran Vijay Singh, Professor and Head, CED, BIT Sindri

COORDINATORS

Dr. Jitu Kujur, Associate Professor, CED, BIT Sindri

Dr. Nishikant Kisku, Assistant Professor, CED, BIT Sindri

Ms. Sudha Das Khan, Assistant Professor, CED, BIT Sindri

Organizing Committee Members

1. Prof: Abhijeet Anand
2. Prof. Prasant Malvia
3. Prof. Iqbal Sheikh
4. Prof. Ravindra Kumar
5. Prof. Sudha das Khan
6. Prof. Saroj Meena
7. Prof. Maya Ray
8. Prof. B. D. Yadav

ABOUT THE COURSE

This FDP aims at creating a clear understanding among participants on the complete strategies of investigation; diagnosis, condition assessment and rehabilitation of reinforced concrete structures. This process covers understanding the root causes of distress in structures & assessment methods including repair & strengthening techniques covering materials, analysis & design guidelines including some case studies. All the important aspects related to successful implementation of appropriate rehabilitation scheme for strengthening of different types of structures will be discussed in detail. Issues pertaining to an appropriate method, its proper design, application and quality control according to available design guidelines will be deliberated in this training.

THEMES

- Advances in cement and concrete for industry
- Reasons for Distress in RC structures with focus on
 - Durability related issues
 - Condition Survey and Damage assessment through Non-Destructive Evaluation and Health Monitoring techniques
 - Seismic performance of structures
 - Selection of Repair materials
 - Rehabilitation methods and Retrofitting schemes
 - Case studies covering diagnosis, repair and rehabilitation of critical civil infrastructure