

Objective

- Use and practical application of NDT for structural condition assessment, modern analysis methods of existing Civil Engineering Structures.
- Actual Structural Audit, Repair & Rehabilitation and Quality Control of existing Civil Engineering Structures.
- Structural Health Monitoring.

General Information about Institute

The Institute, Shri Ramdeobaba College of Engineering and Management, (formerly Shri Ramdeobaba Kamala Nehru Engineering College) founded in 1984, by Shri Ramdeobaba Sarvajanic Samiti with a mission to provide high quality engineering education in central India. This Institute became the most sought after engineering college in central India for its commitment of imparting quality education. The institute is ISO-9001-2015 certified, A grade institute by DTE Maharashtra and awarded A grade by NAAC. The Department of **Civil Engineering** is one of the prime partners in success stories of the institute. The department has all the state of the art laboratories and faculties that provide excellent opportunities for students as well as researchers. The department is accredited by National Board of Accreditation four times and is a recognized research centre for Ph.D. of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. The department is apart from two UG shifts is running two PG courses

namely Structural (Full Time) and Geotechnical (Part Time) Engineering.

Who can participate?

The course will be of immense interest to the PG students, faculty from engineering institutes, practitioners, consulting engineers and engineers from government organizations. It will help in up-gradation of knowledge, information and skills to use and practical apply NDT for Structural Health Monitoring and retrofitting.

Participation Fee

Rs 1500/- Per Participant (For academic and practicing field professionals & Govt. Organization)

Rs 1000/- Per Participant (For students)

(Including course material and lunch)

Seats limited to 40 participants on first come first served basis

Payment

Fees are payable in advance by Cash / Demand Draft / Cheque in favour of *Shri Ramdeobaba College of Engineering and Management, Nagpur* (Payable at *Nagpur*).



Registration form

for

“ Hands-on workshop on Non-destructive Testing ”

28th March - 29th March 2019

Name.....

Designation.....

Organization.....

Address.....

Phone/Mobile No

E – Mail

Category (Please tick appropriate box)

Faculty

Industry /Govt. Professional

Students / Research Scholar

Details of Bank Draft/ Cheque No.....

Dated..... Drawn on.....

Date:..... Signature.....

Note Multiple Xerox copies may be used, if needed.

Patron

Hon'ble Chairman, RCOEM
Hon'ble General Secretary, RCOEM

Advisory Committee

Dr. R. S. Pande, Principal, RCOEM
Dr. P. D. Pachpor, H.O.D. Civil Engg, Dept.
Prof. M.S.Tiwari Incharge ED Cell , Civil Engg. Dept.

Workshop Steering Committee

Dr .M.S. Kadu , Prof. P.B. Kulkarni , Prof. T.K. Rao
Dr. S.V. Joshi, Dr. A.K. Sharma, Prof. E.M. Gonnade
Prof. H.D. Bhave .

Course Contents

Why and when, Data collection, Types of structures
Load assessment, Audit of Structural Steel structures &
RCC (old and new), Design assumptions & actual site
conditions, Addition alteration in Structures
Structural damages, Structural deficiencies and cracks
in structures, Settlement ,corrosion ,leakages and utility
services problems, Identification of other problems in
building, Wrong construction practices and
deficiencies in new construction, Case studies of
learning from failures.

Non Destructive tests covered in workshop including field practical tests

Basic theory ,Principle ,Advantages & Limitations of
each test comprising of Rebound hammer, Penetration
test, UPV ,Impact echo, Reinforcement detection and
cover meter, Half cell potential, Concrete resistivity,
Radar, Core test, Pullout test, pull-off test , break-off
test, Permeability test, Carbonation test, Pile
integration, Cracks scope, Bore scope, Radiographic,

Maturity test, Load test, Ultrasonic thickness gauge
test.

Resource person

Mr. Ravi Ranade (and his team)

Founder & Managing Director of
Construction Diagnostic Centre Pvt. Ltd, Pune.
Structural Auditor and a Professional Consultant
practicing since 1987, in the field of Structural Design,
Structural Audit, Non Destructive Testing, Material
testing, Concrete Technology, Earthquake Engineering,
Repair & Rehabilitation, Quality Control and Quality
Audit. He has designed, tested, audited and
rehabilitated more than 20,000 structures all over India
and outside India . A recipient of the prestigious ‘Sir
Visvesvaraya Centenary Award – 2000’, and ‘‘AES A
2017 Award’’.

Coordinators

Prof. H. P. Khungar

Prof. S.S. Geete

Dr.S.P. Siddh

Dr.T.B. Gupta

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Fax No. 0712- 2583237

A workshop organized under the banner of
Entrepreneurship Development Cell
of Civil Engineering Department

On

**“Hands-on workshop on
Non-destructive Testing”**

28th March - 29th March 2019

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(An Autonomous & ISO 9001-2015 Certified Institute)

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**Shri Ramdeobaba College of
Engineering and Management**

Nagpur – 440013

(<http://www.rknec.edu>)