



B.M.S COLLEGE OF ENGINEERING

Autonomous Institute, Affiliated to VTU
Accredited by NAAC with A++

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DEPARTMENT OF CIVIL ENGINEERING

In Association with

Indian Society for Technical Education



One - Week Online FDP on

Structural Health Monitoring and its Implications

15th - 19th June 2020

ABOUT THE PROGRAMME

All structures, including critical civil infrastructure facilities like buildings, bridges and highways, deteriorate with time due to various reasons including fatigue failure caused by repetitive loads, effects of environmental conditions, and extreme events such as earthquake. This requires not just routine or critical-event based inspections (such as an earthquake), but rather a means of continuous monitoring of a structure to provide an assessment of changes as a function of time and an early warning of an unsafe condition using real-time data. Thus, the health monitoring of structures has been a hot research topic of structural engineering in recent years. The SHM process involves the observation of a system over a time period, the extraction of damage-sensitive features, and the statistical analysis of these features to determine the current state of system health. After subjected to extreme loadings, SHM is used for rapid condition screening and aims to provide, in near real time, reliable information regarding the integrity of the structure. This programme gives the basic concepts of damage detection and structural health monitoring systems including remedial measures adopted for different case studies.

Objectives and Outcomes of the Programme

- To introduce the participants with the concepts of Structural Health monitoring and its applications.
- Overview of the methods involved in detection, identification, assessment and monitoring of damages in structure.
- Learn about evaluation and failure prediction of structure.
- Learn about the remedial measures adopted towards the rehabilitation of structure.
- The current developments in structural health monitoring technologies of civil engineering structures.

Target Group

This programme is designed for practicing Engineers, Faculty members, Research scholars and Students of Engineering / Polytechnic colleges.



SPEAKERS



Dr. B.K Raghu Prasad

Former Professor,
IISc Bangalore



Dr. S.V Chandramouli

Professor, Civil Engineering Department
PES University



Dr. S.C Mohan

BITS Pilani, Hyderabad



Dr. Subhajit Mondal

NIT Rourkela



Dr. S Raghunath

Professor, Civil Engineering Department
B.M.S. College of Engineering



Dr. A. Ramachandra Murthy

Senior Principal Scientist
SERC, Chennai



Dr. S Muralidhara

Professor & Vice Principal,
B.M.S. College of Engineering



Dr. P Prasanna Kumar

Professor & Head, Civil Engineering Department
B.M.S. College of Engineering



Dr. M.N Hegde

Dr. Ambedkar Institute of Technology



Dr. Krishnan Kumar

Ex Scientist CSIR-CECRI
Dean R&D, NCET

PATRONS

Dr. B. V. Ravishankar,
Principal, BMSCE

Dr. S Muralidhara,
Vice Principal, BMSCE

ORGANIZING COMMITTEE

Dr. P Prasanna Kumar,
Professor & Head, Dept. of Civil Engg., BMSCE

Dr. Rudra Naik
Professor, Dept. of Mechanical Engg., and President, ISTE-Chapter, BMSCE

Dr. C Lakshmi Narayana,
Professor, Dept. of Electricals and Electronics Engg., and Secretary, ISTE-Chapter, BMSCE

PROGRAMME SCHEDULE

DATE	MORNING SESSION 11:00 am - 12:30 pm	AFTERNOON SESSION 2:00 pm - 3:30 pm
15-06-2020	Topic : An Overview of Structural health monitoring Speaker: Dr. B.K Raghu prasad	Topic : Structural Monitoring of Civil infrastructure –Introduction and concept Speaker: Dr. S.V Chandramouli
16-06-2020	Topic : Structural health monitoring under extreme loading Speaker: Dr. S.C Mohan	Topic : Structural Health Monitoring Speaker: Dr. Subhajit Mondal
17-06-2020	Topic : Repair and Rehabilitation of Masonry Building – A case study Speaker : Dr. S Raghunath -BMSCE	Topic : Structural Behaviour of Retrofitted RC beams Speaker : Dr. A Ramachandra Murthy
18-06-2020	Topic : Acoustic Emission Technique Speaker : Dr. S Muralidhara -BMSCE	Topic : Study on Behavior & Life cycle of Earthen Structures Speaker: Dr. P. Prasanna Kumar
19-06-2020	Topic : Understanding the importance of performing structural damage assessment Speaker: Dr. M.N Hegde –Dr AIT	Topic : Online health monitoring of cable-stayed bridge Speaker: Dr. Krishnan Kumar

PROGRAMME COORDINATORS

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Registration Link:

https://docs.google.com/forms/d/e/1FAIpQLSdNTM_cJEOXKt0jEDjZWyyw66atzUnZ-nSlrYfRSm0E9m5r0A/viewform?usp=sf_link

You are required to upload the screenshot of payment in the **Google Form** while registering.

Joining link:

shall be provided before each session



Scan the QR Code for Registration

Bank Details:

Account Number: 20274181427
Account Name: HOD CIVIL ENGG
ALLAHABAD BANK
Hanumanth Nagar, Bangalore
IFSC: ALLA0212011

Mode :
Cisco Webex



Registration Fee :

ISTE Members	Rs. 400/-
NON ISTE Members	Rs. 500/-

E-CERTIFICATE WILL BE PROVIDED TO ALL THE PARTICIPANTS ATTENDING THE PROGRAMME.