



**ISTE STUDENT CHAPTER (TN 217)
ACADEMIC YEAR 2021-2022 (ODD SEMESTER)
ONLINE WEBINAR ON
“STRUCTURAL HEALTH MONITORING DURING CONSTRUCTION”**

11.10.2021

BACKGROUND & OBJECTIVE

The ISTE Student Chapter, Kings College of Engineering organized an online webinar on “**STRUCTURAL HEALTH MONITORING DURING CONSTRUCTION** “on **11.10.2021**. Structural Health Monitoring (SHM) involves the **observation and analysis of a system over time** using periodically sampled response measurements to monitor changes to the material and geometric properties of engineering structures such as bridges and buildings. This online webinar provides a platform for the civil engineering students and Faculty members to enhance themselves to monitor a building during construction. Due to the pandemic situation, the webinar was conducted through Google meet platform (<http://meet.google.com/rhe-fbxv-pjm>).

INAUGURAL SESSION

The webinar commenced online at 10:00 AM. Ms.D.Shrividhya, AP/civil, hosted the webinar. She briefed about the webinar theme and reason for choosing the topic. Mr.K.Arun, AP/Civil, delivered the welcome address. Ms.D.Shrividhya, AP/civil, introduced the resource person **Er.S.Vaithyanathan, Proprietor of Surya Builders, Thanjavur**. She elaborated the qualification and work experience of the resource person.

WEBINAR SESSION

The webinar was handled by **Er.S.Vaithyanathan, Proprietor of Surya Builders, Thanjavur**. He highlighted the aims to **drive action to educate people** about the observation and analysis of a system over time using periodically sampled response measurements to monitor changes to the material and geometric properties of engineering structures such as bridges and buildings.

He detailed the process of implementing a damage detection and characterization strategy for engineering structures. He also discussed the damage exits in a structure and quantified how severe the damage will be in the structure and also he estimated the remaining lifetime of a structure.

Structural Health Monitoring (SHM) aims to develop automated systems for the continuous monitoring, inspection, and damage detection of structures with minimum labour involvement before and after construction.



KINGS
COLLEGE OF ENGINEERING

NAAC Accredited & ISO Certified Institution
Recognised by UGC 2(F) & 12(B)
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Punakulam, Near Thanjavur, Pudukkottai Dt - 615505




ISTE STUDENT CHAPTER (TN 217)
PRESENTS WEBINAR ON
"STRUCTURAL HEALTH MONITORING DURING CONSTRUCTION"
BY
Er. S. VAITHYANATHAN
FORMER PRESIDENT, CEAAT
PROPRIETOR, SURYA BUILDERS
THANJAVUR



11.10.2021
10:00 AM - 11:00 AM




YouTube Live

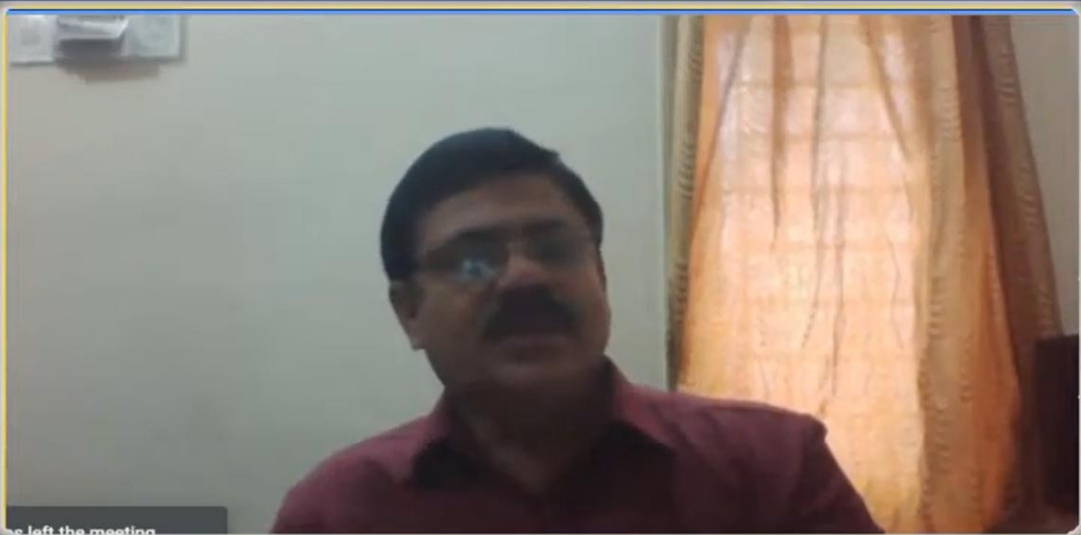


KINGS
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Structural Health Monitoring during Construction




21
YEARS OF ACADEMIC
EXCELLENCE




Organized by Department of Civil Engineering







Structural Health Monitoring during Construction



1.Reconnaissance Survey

- Study of surroundings in site
- Canals, rivers, ponds, lakes, etc..,
- Roads, railways, airport etc..,
- Ground water
- Type of land
- Topography of land

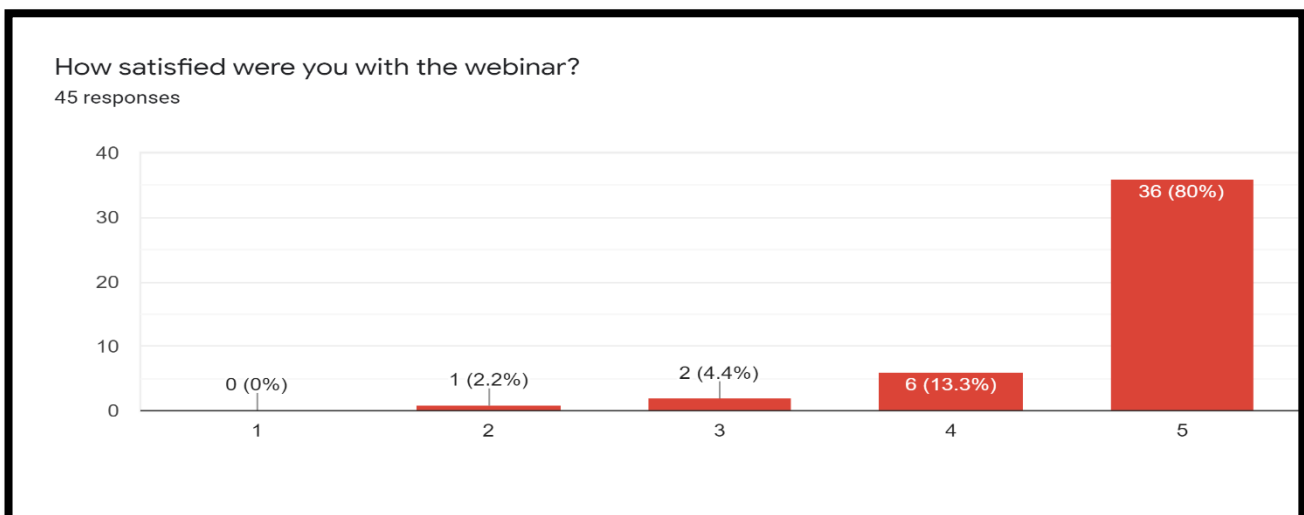
Organized by Department of Civil Engineering

WEBINAR SESSION

VALEDICTORY SESSION

At the end of the webinar, the session was concluded with vote of thanks. Ms.V.Ishwarya, AP/civil, delivered the vote of thanks. She expressed her sincere thanks to the participants for their interest. She heartily expressed her sincere gratitude to the Management, Principal, Vice Principal, Staff members and the students for their extended support. Finally, she concluded by appreciating the organizers for their passionate efforts with which they carried out the difficult task of making the webinar a grand success.

FEEDBACK FROM THE PARTICIPANTS



OUTCOME

Participants gained knowledge about the continuous monitoring, inspection, and damage detection of structures with minimum labour involvement before and after construction and also gave very good feedback at the end of the webinar. All the Participants showed interest to attend our future webinars too. The recorded version of the webinar was streamed in our college YouTube channel, as per the request of the participants to share the contents (<https://youtu.be/RhbBdPsvQGY>).

Department ISTE Coordinator

Coordinator/ISTE Chapter

PRINCIPAL