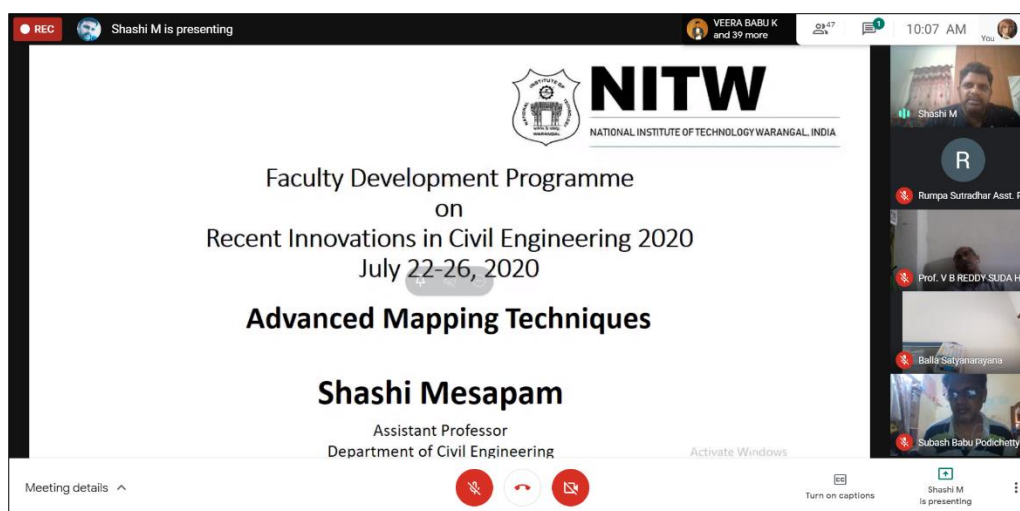


Faculty Development Program on Recent Innovations in Civil Engineering

The Faculty Development Program on Recent innovations in civil Engineering was held from 22/07/2020 to 26/07/2020. There were around 90 participants participated in this program. The program was in online mode through Google meet app.

On 22/07/2020, the session was begun at 09:00 am with Speech of Convener of FDP Dr. T.L. Ramadasu and followed by Head of the Department Dr. S. Vijaya Bhaskar Reddy. After that key note lecture was delivered from 10:00am to 11:25 am. The session was handled by **Dr. N. Darga Kumar**, Associate Professor & HEAD, JNTUHM on Recent Innovations in Civil Engineering

On 23/07/2020, the session was stated with speaker introduction by Ms. Rumpa Sutradhar. After that key note lecture was delivered from 10:30am to 11:25 am. The session was handled **Dr. M. Sashi**, Assistant Professor, NITW on Advanced Mapping Techniques.



On 24/07/2020, the session was stated with speaker introduction by Ms.B.Sai Priya. After that key note lecture was delivered from 10:30am to 11:25 am. The session was handled **Dr. M.V.N. Siva Kumar** Assistant Professor, NITW Fracture Mechanics Applications to Nuclear Structures- A Strain based Approach.

On 25/07/2020, the session was stated with speaker introduction by Mrs.N.Neena. After that key note lecture was delivered from 10:30am to 11:25 am. The session was handled **Sri. T.P. Palaniappan** Senior Engineering Manager– Civil & Structural (Design), L&T Construction

On 26/07/2020, the session was stated with speaker introduction by Ms. Rumpa Sutradhar. After that key note lecture was delivered from 10:30am to 11:25 am. The session was handled **Dr. G. Kalyan Kumar**, Assistant Professor, NITW, Fundamentals in Earthquake Engineering.

The last session was stated at 11:30 pm and Prof.S.Vijaya Bhaskar Reddy, Head- Civil Engg. Department was given the concluding remarks. After that, Dr. A. Raji Reddy, Director of CMRTC addressed about the FDP.

REC palaniappan thiru is presenting Dr.Ch.Srinivasa ... and 52 more 10:55 AM 10:55 AM You

Tekla Structures

Building & Construction

- Tekla Structures
- Steel
- Concrete
- Engineering

Energy & Utilities

- Xpower
- Enfo products

Common Tekla Technology

Public Infra

- Xcity
- Xpipe
- Enfo products

Defense

Meeting details ^ Turn on captions palaniappan thiru is presenting

REC Siva Kumar MVN is presenting Dr. Sivasankar ... and 45 more 10:59 AM 10:59 AM You

Material Modeling

Material description

■ The material behavior is assumed to obey isotropic power-law hardening :

$$\sigma_i = \sigma_o \left(1 + \frac{\epsilon_p}{\epsilon_o} \right)^n \quad \text{for } \sigma > \sigma_o$$

σ_f is the flow stress
 σ_o is the yield stress
 ϵ_p is the plastic strain
 n is the strain hardening exponent
 $\epsilon_o = \frac{\sigma_o}{E}$ is the yield strain

Elastic and plastic properties
 Elastic modulus (E): 200 Gpa
 Poisson's ratio (v): 0.3
 Reference stress (σ_o): 460 Mpa
 Hardening exponent (n): 0.05, 0.10, 0.15

Material input to the G-T Model
 Initial void volume fraction (f_0): 0.0002
 Final void volume fraction (f_f): 0.1504
 Critical void volume fraction (f_c): 0.0713
 Constants $q_1=1.5, q_2=1.0, q_3=2.25$

$\sigma < \sigma_o$ the material behavior is linear elastic

Sandeep et al, 2008

Siva Kumar MVN

Balla Satyanarayana

Dr.T.L.Ramadasu TL

saipriya Asst prof civilcmrc

MD Ibrahim

REC Kalyan Kumar G G is presenting jaskdharanikola 9:52 and 45 more 10:30 AM 10:30 AM You



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meet.google.com is sharing your screen. Stop sharing Hide

Kalyan Kumar G G

Prof. V B REDDY SUDA HO...

Dr.T.L.Ramadasu TL

Chintala Siddhartha Asst. P...

Rumpa Sutradhar Asst. Pr...