



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF CIVIL ENGINEERING

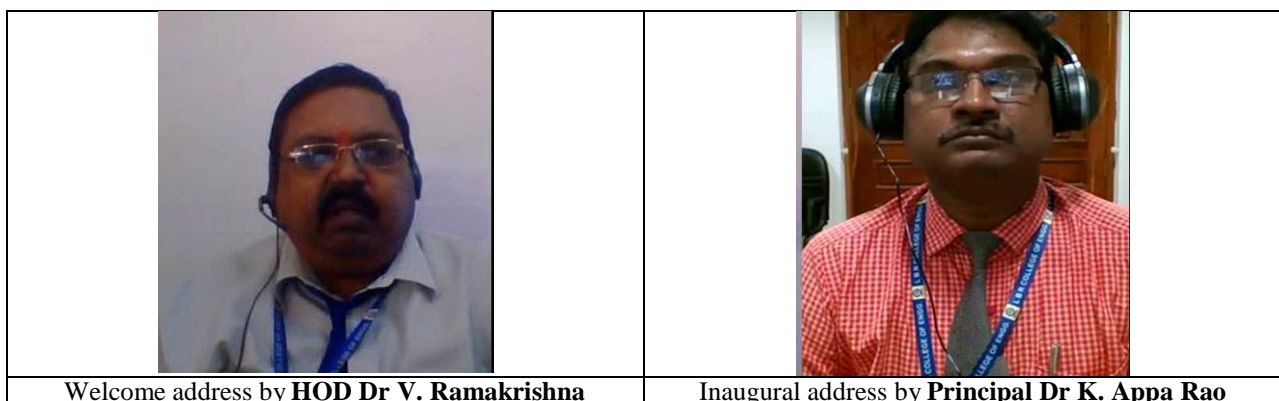
REPORT OF

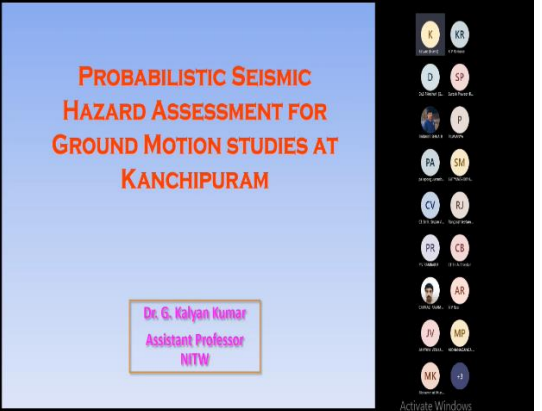
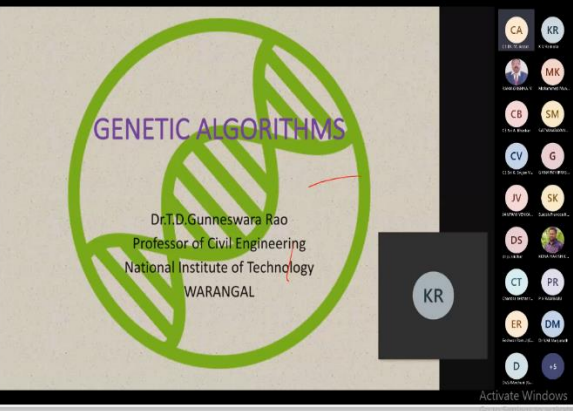
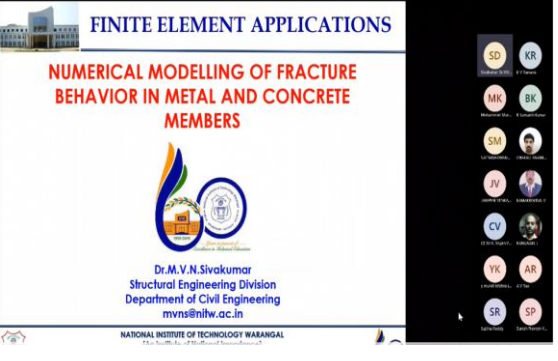

Online Three Day FDP On

Modelling Approaches in Structural Engineering

Event Type	Online Faculty Development Program
Date / Duration	30-06-2022 to 02-07-2022
Resource Team	1. Dr. T.D. Gunneswara Rao , Professor, Department of Civil Engineering, NITWarangal. 2. Dr. M.V.N. SivaKumar , Assistant Professor, Department of Civil Engineering, NITWarangal. 3. Dr. G. Kalyan Kumar , Assistant Professor, Department of Civil Engineering, NITWarangal.
Name of Coordinator	Dr. K.V.Ramana , Associate Professor.
Target Audience	Faculty members of Civil, Research scholars and M.Tech students
Total no of Participants	52 (Internal - 10, External – 42)
Objective of the event	<ul style="list-style-type: none">• Application of various modelling approaches/techniques in structural Engineering.• Fuzzy logic techniques for seismic hazard analysis• Genetic Algorithms in Structural Engineering• Finite Element approaches in modelling of various structural elements.
Outcome of event	<ul style="list-style-type: none">➤ Faculty can take up research in local regions & guide/ supervise students for dissertation or project work.➤ It enables the participants to appreciate the role of various numerical and mathematical approaches available in structural engineering.
Feedback / Suggestions	Faculty and research scholars gave positive feedback on the FDP and requested to conduct more webinars and FDPs in similar domain.

Photographs:



	
<p>Presentation by Dr. G. Kalyan Kumar, Assistant Professor, Dept. of Civil Engineering, NITW</p>	<p>Presentation by Dr. T.D. Gunneswara Rao, Professor, Dept. of Civil Engineering, NITW</p>
	
<p>Presentation by Dr. M.V.N. Sivakumar, Assistant Professor, Dept. of Civil Engineering, NITW</p>	<p>Copy of Participation certificate</p>

Press Clippings: Nil

REPORT

The Department of Civil Engineering, Lakireddy Bali Reddy College of Engineering (A), Mylavaram, organized a three day online Faculty Development Program during 30-06-2022 to 02-07-2022 on “**Modelling Approaches in Structural Engineering**” through Microsoft Teams. The FDP was inaugurated on 30-06-2022 by the Principal Dr Appa Rao garu. Three topics were delivered on this occasion.

Resource persons:

1. **Dr. T.D. Gunneswara Rao**, Professor, Department of Civil Engineering, NITWarangal.
2. **Dr. M.V.N. SivaKumar**, Assistant Professor, Department of Civil Engineering, NITWarangal.
3. **Dr. G. Kalyan Kumar**, Assistant Professor, Department of Civil Engineering, NITWarangal.

Topic-1: Fuzzy Probabilistic Seismic Hazard Analysis by Dr. G. Kalyan Kumar

Content:

- Earthquake Engineering
- Probabilistic
- Fuzzy
- Liquefaction

Outcome: Will be exposed to the basic concepts on Liquefaction analysis, PSHA, FSHA

Topic-2: Genetic Algorithms by Dr.T.D. Gunneswara Rao

Content:

- Introduction
- Concept
- Applications

Outcome: Faculty can take up research in local regions and are able to solve the both constrained and unconstrained problems.

Topic-3: Finite Element Approach by Dr. M.V.N. Siva Kumar

Content: Numerical Modelling of Fracture Behavior In Metal and Concrete Members

Outcome: Learn the fundamental Applications of Numerical modelling for different structural materials.
Finite element modelling of fracture behaviour of Metal and Concrete members