

KPR Institute of Engineering and Technology

(Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

Phone: 0422-2635600 Web: kpriet.ac.in Social: kpriet.ac.in/social ME032

NBA Accredited (CSE, ECE, EEE, MECH, CIVIL)

Fracture Analysis using XFEM

Event No	ME032	
Organizing Department	Mechanical Engineering	
Associate Dept.   NSC	Centre of Excellence	
Date	05/09/2022	
Event Type	Webinar	
Event Level	International	
Venue	-	
Details Link	https://meet.google.com/nzh-qeru-tvr	
Total Participants	81	
Faculty - Internal	3	
Students - Internal	78	

## **Related SDG**



## Outcome

To study the XFM analysis using Abaqus software Lean how to write subroutine material model code To determine the effect of process parameter on fracture analysis Understand the bone mechanics principles and modelling methods

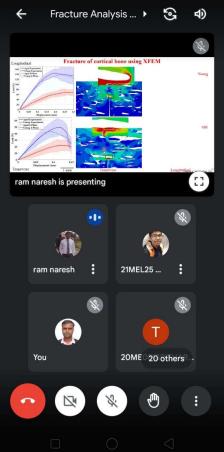
## **Event Summary**

The Department of Mechanical Engineering in association with Centre for Machining and Material Testing (CMT) organized a webinar on 'Introduction to XFEM. The programme began with the inaugural function, where guest enlightened the participants about the concepts of fracture analysis. He explained research on bone Mechanics and fracture analysis and the major causes of failure in bones.





16:03 Jul III 🔶			
÷	Fracture Analysis 🕨 🤤	4)	
		У,	
$u(x) = \sum_{i=1}^{\infty} N_i(x) \left[ u_i + \widehat{f(x)} u_i \right] \sum_{a=1}^{\infty} \widehat{f_i(x)} u_i^{balaa}$			
Split node Top node H(x) is a Hearvilde function of disordiment metrics, across the crack method $F_{2}(x)$ is the associated elastic asymptotic crack-tep functions.			
Typical il		I Nadan n Nivêle 	
	n naresh is presenting	*	
	21MEL25 : 20ME081 :		
	You You		
Click to View			
16:08	a an s	VO LTER 39	
÷	Fracture Analysis 🕨 🕄	4)	





Click to View

\*\*\* END \*\*\*