



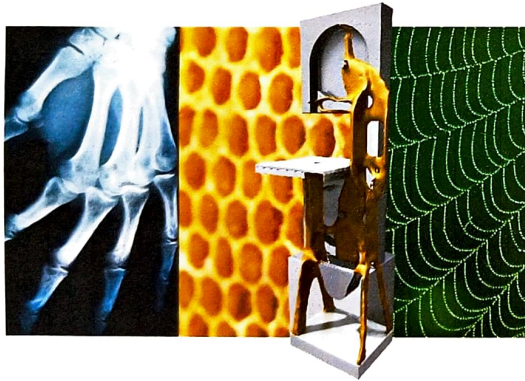
### *A Five-Day Online Faculty Development Program*

*On*

### *Structural Design Optimization Techniques*

*From 21<sup>st</sup> April 2020 – 25<sup>th</sup> April 2020*

*Login with the link: [meet.google.com/gix-jzsd-zkn](https://meet.google.com/gix-jzsd-zkn)*



### **ORGANIZED BY**

**DEPT. OF MECHANICAL ENGINEERING**

**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,**

**TAMARAM (V), MAKAVARAPALEM (M),**

**VISAKHAPATNAM-531113**

### **AVANTHI EDUCATIONAL SOCIETY**

Avanthi Educational Society under the Leadership of Sri M.Srinivasa Rao garu as chairman was started in the Year 1991. Within a short span of its establishment, the group has made a remarkable stride in the field of education offering various courses at Under Graduate, Post Graduate, Pharmacy & Engineering levels. This milestone is achieved as the institution carved itself to impart quality and career oriented education, countering the challenges of the modern world through planning, dedication, determination, prompt execution and with the innovative ideas of our advisory board.

Today, Avanthi Educational Society is proud to have a strength of over 16000 students with 15 institutions under its ambit. It is the path of glory towards the success during the last 19 years. The institution has been adjudged many times as the second best educational institutions in the twin cities and 16th best in all over India through the impartial survey made by the renowned magazine "India Today".

### **AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**

AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipment. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.



Principal

Avanthi Institute of Engg. & Technology

Tamaram, Makavarapalem Md.,

Visakhapatnam District, Pin-531113

It is very near to Narsipatnam. Frequent bus facilities are available both from Visakhapatnam and Narsipatnam. Very safe and secure hostel facility is available for Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

### DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering was established in the year 2001 along with the EEE, ECE and CSE departments. The department has an intake of 180 students. The department has full-fledged laboratories, workshops. The department is staffed with qualified, experienced and dedicated members who engage in research activities. The department with active support from the management is aiming to expand its research activities and industrial consultancies.

### ABOUT COURSE

This session describes the powerful set of tools Optimization techniques that are important in efficiently managing an enterprise's resources and thereby maximizing share- holder wealth. This session gave complete overview on Structural optimization which defines the rational establishment of a structural design that is the best of all possible designs within a prescribed objective and a given set of geometrical and/or behavioral limitations.

### PROGRAM SCHEDULE

S.No	DATE	TOPICS COVERED	RESOURCE PERSON
1	21/04/2020	Registration & Fundamentals of Structural Design Optimization Techniques	Mr. V. HARIKIRAN
	10:00AM-01:00 PM		
2	22/04/2020	Different methods of Design analysis	Mr. V. HARIKIRAN
	10:00AM-01:00 PM		
3	23/04/2020	Optimization Techniques	Mr. V. HARIKIRAN
	10:00AM-01:00 PM		
4	24/04/2020	Types of Optimization Techniques	Mr. V. HARIKIRAN
	10:00AM-01:00 PM		
5	25/04/2020	Advancement of Optimization Techniques & Culmination	Mr. V. HARIKIRAN
	10:00AM-01:00 PM		


**Note:** All the faculties Attendance is Mandatory

### PROGRAM COORDINATOR:

Mr. G. Siva Ram, +91 9989309182, Assistant Professor, Mechanical Dept.

### PRINCIPAL

Dr. C. P.V.N.J Mohan Rao  
Avanathi Institute of Engineering & Technology

  
Principal  
Avanathi Institute of Engg. & Technology  
Tamaram, Makavarapalem Md.,  
Visakhapatnam District, Pin-531113



## AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY


Tamaram, Makavarapalem, Visakhapatnam-531113

**TOPIC** : A Five Day Faculty Development Program on “Structural Design Optimization Techniques”

**Date/s** : 21-04-2020 to 25-04-2020

### LIST OF THE PARTICIPANTS:

S.No	Name Of The Teaching Faculty	Designation
1.	Dr Ch. Suresh	Associate Professor
2.	B. Ramesh	Associate Professor
3.	K. Rama Lakshmi	Assistant Professor
4.	A. Pradeep Kumar	Assistant Professor
5.	S. Raviteja	Assistant Professor
6.	K.V.N.S. Rama Krishna	Assistant Professor
7.	A.N.S. Surya Prakash	Assistant Professor
8.	P. Rama Krishna	Assistant Professor
9.	P. Sadhana	Assistant Professor
10.	Ch. Phaninder	Assistant Professor
11.	M. Sanyasi Naidu	Assistant Professor
12.	A. Prem Kumar	Assistant Professor
13.	K. Anuradha	Assistant Professor
14.	S. Subrahmanyam	Assistant Professor
15.	S. Ganesh	Assistant Professor
16.	K. Nagaraju	Assistant Professor
17.	G.S.M. Reddy	Assistant Professor
18.	V. Sumapriya	Assistant Professor

  
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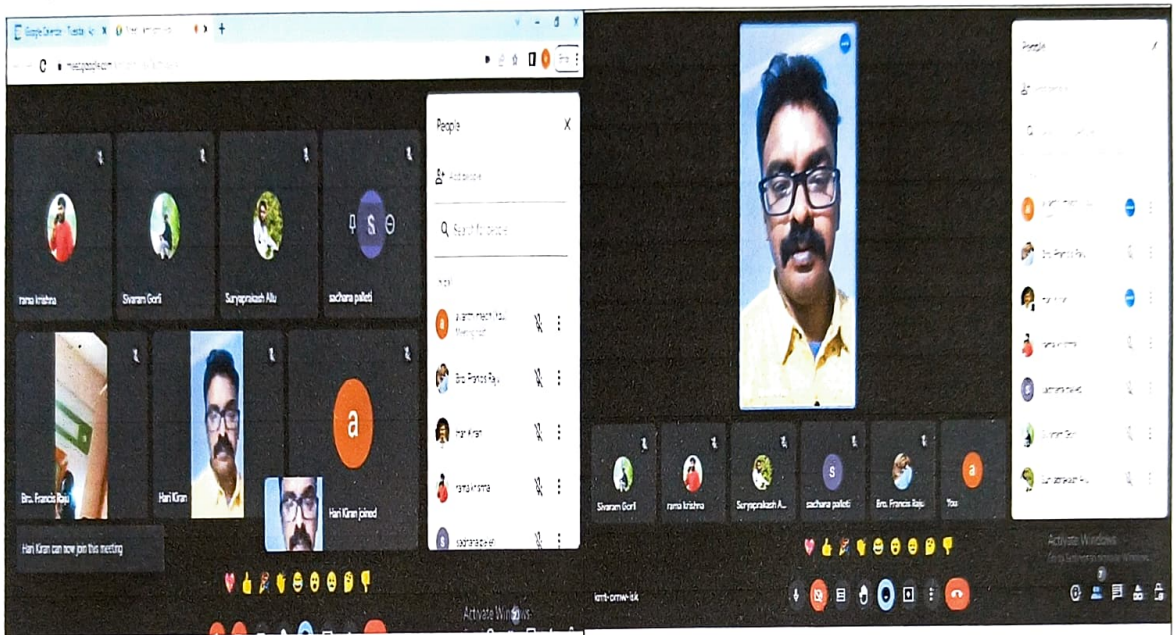


**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
TAMARAM (V), MAKAVARAPALEM (M), VISAKHAPATNAM (Dist.)

**Name of the program :** Structural Design Optimization Techniques

**Date/s :** 21-04-2020 to 25-04-2020

**Organized by :** Department Of Mechanical Engineering



***Participants And Resource Person Attending The Faculty development Program On “Structural Design Optimization Techniques”***

  
**Coordinator**

  
**Principal**  
Avanthi Institute of Engg. & Technology  
Tamaram, Makavarapalem Md.,  
Visakhapatnam District, Pin-531113



# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Tamaram, Makavarapalem, Visakhapatnam-531113

## PROGRAM REPORT

A brief report on the Faculty Development Program conducted during 21-04-2020 to 25-04-2020 by Department of Mechanical Engineering, AIET, makavarapalem for Mechanical faculty for 5 days. The details of the program are as follows.

<b>Name of the Program</b>	: STRUCTURAL DESIGN OPTIMIZATION TECHNIQUES
<b>Number of hours/days conducted</b>	: 15/5
<b>Name of the resource person</b>	: Mr. V. Hari Kiran
<b>Number of the participants attended</b>	: 22
<b>Details of the topics covered</b>	: Metal Additive Manufacturing Process, Modeling and Optimization of Dead Metal Zone to reduce cutting forces, Bio inspired Optimization Techniques, Methods to Produce Surface Composites, Advances in Joining by processes.
<b>Outcome of the program</b>	: Understand the additive manufacturing processes and its applications to medical field, Design the experiments for various set of composite materials and manufacturing processes, Apply the various optimization techniques for composite materials and manufacturing processes, Understand the concepts of machine learning and artificial intelligence, Prepare the composite materials using the friction stir processes and additive manufacturing processes.

  
Coordinator

  
Principal

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