



# JNTUH COLLEGE OF ENGINEERING JAGTIAL

Nachupally (Kondagattu), Jagtial Dist. - 505 501, Telangana (India)

## DEPARTMENT OF MECHANICAL ENGINEERING



Website : [www.jntuhcej.ac.in](http://www.jntuhcej.ac.in)

E-Mail : [hodme.jntuhcej@gmail.com](mailto:hodme.jntuhcej@gmail.com)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
COLLEGE OF ENGINEERING

Nachupally (Kondagattu), Jagtial, Karimnagar Dist.- 505 501, Telangana (India)

DEPARTMENT OF MECHANICAL ENGINEERING

Dr.Suresh Arjula

B.Tech., M.Tech.,Ph.D, ISTE, IHW

Assistant Professor & HEAD

Department of Mechanical Engineering

Date: 21/03/2017

### CIRCULAR

All the B.Tech III & IV Year Students are here by informed that A Two Day Workshop on "Introduction to ANSYS Workbench" from 27<sup>th</sup> March 2017 to 28<sup>th</sup> March 2017.

In this regard, all the students should attend without fail.

Resource person: Dr. Ch.Sridhar Reddy, Professor & Head, Department of ME,  
JNTUHCEM

Venue: CAD/ CAM LAB, Block – II

Time: 10.00 AM To 05.00 PM



*Arjula*  
HOD-ME  
HEAD  
Dept. of Mechanical Engineering  
JNTUH College of Engineering Jagtial  
Nachupally (Kondagattu), Kodimial (M.),  
Jagtial Dist. 505 501 Telangana.



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## DEPARTMENT OF MECHANICAL ENGINEERING

### Registration Form

### A Two Day Workshop on

### Introduction to ANSYS Workbench

27 & 28<sup>th</sup> March 2017

Name: .....

Roll No: .....

Year/Branch: .....

College: .....

Address: .....

.....

Mobile: .....

E-Mail: .....

Signature of the Participant:

Place: .....

Date: .....

Address for communication:

**Dr. Suresh Arjula**

Asst. Professor & Head

Department of Mechanical Engineering, JNTUHCEJ,  
Nachupally (Kondagattu), Kodimial (M), Jagtial (D),  
Telangana - 505501.

Ph.: 8309780579 / Email: arjulasuresh@jntuh.ac.in

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Dr. Suresh Arjula

Asst. Prof. & Head, Department of ME

JNTUHCEJ

### Faculty Advisor

Dr. N.V.S Raju

Professor of ME, JNTUHCEJ

### Coordinator

Dr. .Kandukuri Vasantha Kumar

Asst. Prof. of ME, JNTUHCEJ

### Student Coordinators

K Achyuth Reddy (6281546485)

Pavan Kalyan (8333969127)



## A Two Day Workshop

On

## Introduction to ANSYS Workbench

27 & 28<sup>th</sup> March 2017



Organized by

DEPARTMENT OF MECHANICAL ENGINEERING

JNTUH COLLEGE OF ENGINEERING JAGTIAL

Nachupally (Kondagattu) JAGTIAL (Dist)

Telangana - 505501

Web: www.jntuhcej.ac.in

A Constituent college of JNTUH- Hyderabad,

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### About the College

JNTUH College of Engineering Jagtial (JNTUHCEJ) was established in the year 2007 as a constituent college of Jawaharlal Nehru Technological University, Hyderabad. The college is recognised by UGC under section 2(f) & 12(B) of the UGC Act, 1956. JNTUHCEJ started functioning with five Under Graduate programs viz., EEE, ME, ECE, CSE & IT. And since 2011, the college is offering five Post Graduate programs viz., EPS in EEE, ED in ME, DSCE in ECE, CSE and IT.

### About the Department

The Department of Mechanical Engineering came into existence from the inception of the college in 2007. The department offers UG programme with intake of 60 and has been adding features in its cap every year with both curricular and non-curricular activities. The department started its PG program in Engineering Design in the year 2011 with an intake of 18.

The department has state of art laboratories such as Engineering Workshop, Production Technology, Thermal Engineering, Heat & Mass transfer, Metrology, Machine Tools, Metallurgy & Material Science, Instrumentation, Fluid Mechanics & Hydraulic Machinery labs and CAD/CAM labs. The Department is having 14 Teaching, 15 Non-Teaching staff. The faculty of the department with their rich experience in Teaching and Research, authored more than 20 text books in the areas of Mechanical Engineering. Presently, the Faculty is guiding about 20 scholars for Ph.D. in various advanced fields of Mechanical Engineering and already produced 6 PhDs. The department is imparting practical knowledge in Automobile, Refrigeration, Air conditioning and other relevant areas under Re-Engineering and Reverse Engineering centre.

### Scope of the Program

These days, modelling and simulation of any mechanical components has become an inherent part of design for automotive, aerospace and manufacturing industries. The huge competition in the market is exerting tremendous pressure on the industries to launch reasonably priced products in short time making them to rely more on virtual tools (CAD/CAE) to accelerate the design and development of products. The results of FE simulation are so accurate that FE simulations have replaced physical experiments. The objective of this workshop is to introduce Finite Element Method using ANSYS to the students so that they are equipped to solve various problems of engineering. The workshop is meant for students and will be useful to those who work on FEA based numerical simulations using software package ANSYS. Through this workshop participants will have thorough idea of FEM from fundamental concepts to more advanced topics. Specific emphasis will be given to problems of Thermal, Structural Mechanics and Computational Fluid Dynamics (CFD). Workshop will include Lectures and Practice sessions.

### Objectives of the Workshop

- ◆ Define engineering problem, Developing an approach to research problem and selection of suitable FEA domain.
- ◆ Solving engineering situations analytically, drawn from aero/auto domains.
- ◆ Improves creativity, that is required by concept designers.

### Contents

- ◆ Introduction to Engineering Simulation.
- ◆ Overview of Ansys Workbench.
- ◆ Problem solving in Structural Analysis.
- ◆ Problem solving in Explicit Dynamic Analysis.
- ◆ Problem solving in Thermal Analysis.
- ◆ Problem solving in Harmonic Analysis.
- ◆ Overview of Transient Analysis.
- ◆ Introduction to CFD Software & Fluent.

### Resource Persons:

#### Dr. Ch. Sridhar Reddy

Professor & Head, Department of ME,  
JNTUH College of Engineering Jagtial



### Convener:

#### Dr. Suresh Arjula

Asst. Professor & Head

Department of Mechanical Engineering, JNTUHCEJ,  
Nachupally (Kondagattu), Kodimal (M), Jagtial (D),  
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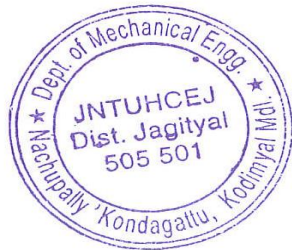
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### REPORT ON WORKSHOP

ACADEMIC YEAR 2016-17	
Name of the Department	Mechanical engineering
Name of the Event	Workshop
Title of the Event	A Two Day Workshop on Introduction to ANSYS Workbench
Resource Person	Dr. Ch.Sridhar Reddy, Professor & Head, Department of ME, JNTUHCEM Email: sridharch@jntuh.ac.in Mobile No. : 9494362430
Date & Time	27 & 28 March 2017 & 10:00 AM - 05:00 PM
Venue	Block II - Seminar Hall & CAD/CAM Lab
Targetted Audience	B.Tech III and IV yr students
No. of participants	Students: 75
Objective of the Event	To Solve design engineering simulations, with all steps from geometry creation to optimization and results generation in a single, modern, easy-to-use environment.
Outcome of the Event	<ul style="list-style-type: none"><li>Students will gain knowledge on basic software packages.</li><li>Students will be able to analyze the complicated engineering problems by using ANSYS.</li></ul>



*Amrith*  
**HEAD**  
Dept. of Mechanical Engineering  
JNTUH College of Engineering Jagtial  
Nachupally (Kondagattu), Kodimyal Mid.,  
Jagtial Dist. 505 501 Telangana.

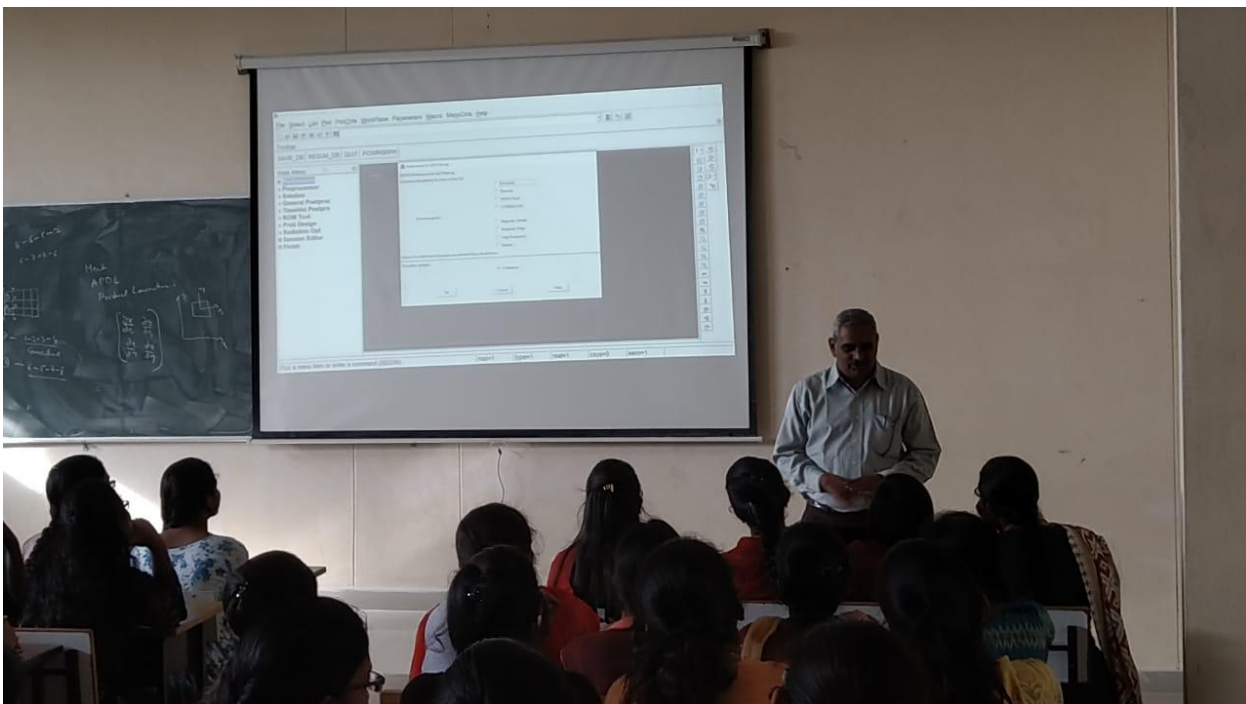
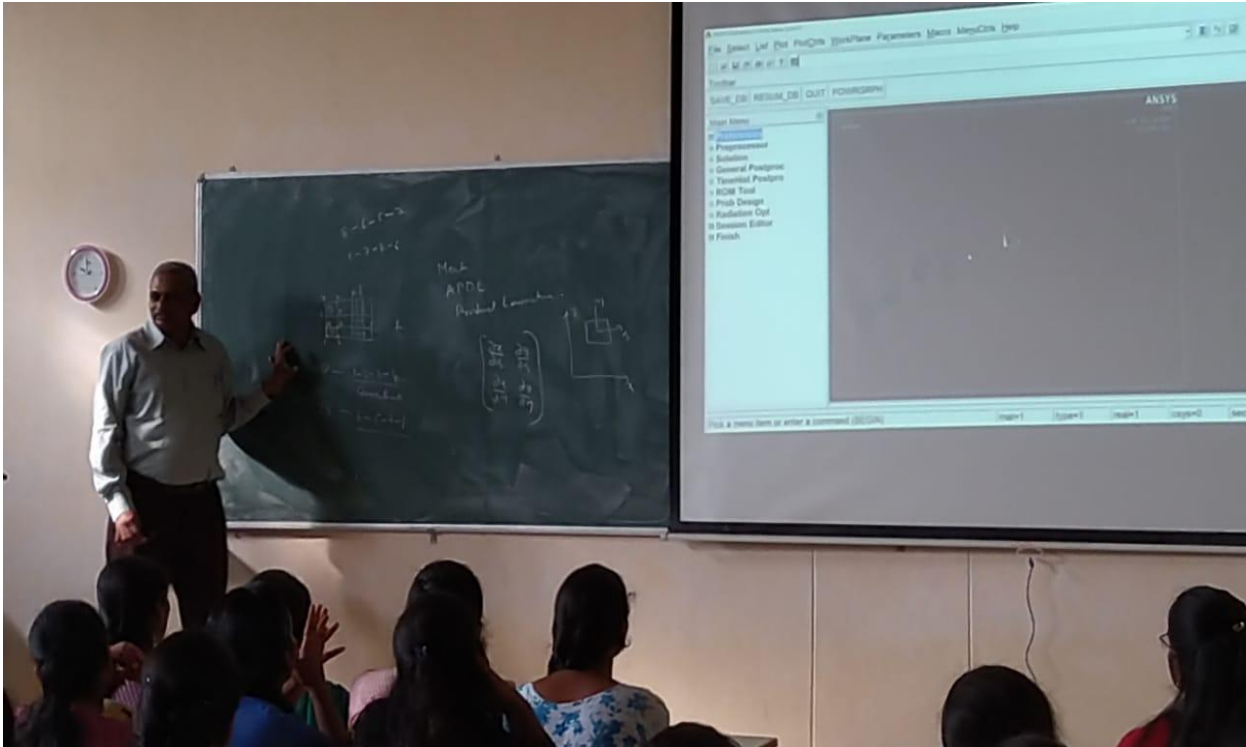


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### IMAGE GALLERY:





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**DEPARTMENT OF MECHANICAL ENGINEERING**



## **Certificate**

*This is to certify that Mr./Ms. SRI KOUSTUBHA J (14JJ1A0253) of TJME, JNTUHCEJ  
has participated in the "Workshop on ANSYS Workbench" held on 27 & 28<sup>th</sup> March 2017 in  
ABHIYAAN 2K17, organized by the Department of Mechanical Engineering, JNTUH COLLEGE  
OF ENGINEERING JAGTIAL Nachupally (Kondagattu), Jagtial Dist. -505 501, Telangana.*

**Dr.K Vasantha Kumar**

Co-ordinator

**Dr. Suresh Arjula**

Convener

**Dr. N.V Ramana**

Principal, JNTUHCEJ



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## Certificate

*This is to certify that Mr./Ms. BODDU SOWMYA (13JJIAD0204) of TUMU, JNTUHCEJ*  
*has participated in the "Workshop on ANSYS Workbench" held on 27 & 28<sup>th</sup> March 2017 in*  
*ABHIYAAN 2K17, organized by the Department of Mechanical Engineering, JNTUH COLLEGE*  
*OF ENGINEERING JAGTIAL Nachupally (Kondagattu), Jagtial Dist. -505 501, Telangana.*

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## **Certificate**

*This is to certify that Mr./Ms. S. PAVAN KALYAN (14JJIA0345) of II ME, JNTUHCEJ  
has participated in the "Workshop on ANSYS Workbench" held on 27 & 28<sup>th</sup> March 2017 in  
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## **Certificate**

*This is to certify that Mr./Ms. P. SHRAVYA (14JJI A0344) of IME, JNTUH LEJ  
has participated in the "Workshop on ANSYS Workbench" held on 27 & 28<sup>th</sup> March 2017 in  
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## **Certificate**

*This is to certify that Mr./Ms. P. SRITEJA (14JJIA0338) of DUME, JNTUHCEJ  
has participated in the "Workshop on ANSYS Workbench" held on 27 & 28<sup>th</sup> March 2017 in  
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Principal, JNTUHCEJ