



JNTUH COLLEGE OF ENGINEERING JAGTIAL

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

DEPARTMENT OF MECHANICAL ENGINEERING



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
COLLEGE OF ENGINEERING JAGTIAL
Nachupally (Kondagattu), Jagtial Dist. - 505 501, Telangana (India)

Website : www.jntuhcej.ac.in
E-Mail : kvasantha@jntuhcej.ac.in



Dr. K. Vasantha Kumar
BE(Mech), M.E/Prod, Ph.D/JNTUH, MISTE
Assistant Professor & Head
Department of Mechanical Engineering

Date: 10.02.2020

C I R C U L A R

All the B.Tech III & IV Year Students are here by informed that "A three day National Level Workshop on "Finite Element Analysis using ANSYS" from 13th February 2020 to 15th February 2020.

The aforesaid students are informed to avail the opportunity and attend without fail.

Speaker / Resource person: Jalagam Ravinder Rao, Founder, MECHENGG, Hyderabad. &
Dr. Ch.Sridhar Reddy, Professor & Head Department of ME, JNTUHCEM

Venue: CAD/ CAM LAB, Block - II

Time: 11.00 AM To 05.00 PM




HEAD
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Dept. of Mechanical Engineering
JNTUH College of Engineering Jagtial
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Registration Form
A Three Day Workshop on Finite Element Analysis using ANSYS
 13th-15th, February 2020

Name:

Roll No:

Year/Branch:

College:

Address:

Mobile:

E-Mail:

Signature of the Participant

Place:

Date:

Address for communication:
Dr. Kandukuri Vasantha Kumar
 Asst. Professor & Head
 Department of Mechanical Engineering, JNTUHCEJ,
 Nachupally (Kondagattu), Kodimal (M), Jagtial (D),
 Telangana - 505501.
 Ph.: 9948496181 / Email: kvasanth@jntuh.ac.in

For Spot Registrations contact:
 B. Anil Kumar (9490971587)

Chief Patron
 Sri Jayesh Ranjan, IAS
 Vice-Chancellor, JNTU H

Patron
 Prof. A. Govardhan
 Rector & Vice Registrar, JNTU H

Chairman
 Prof. N.V. Ramana
 Principal, JNTUHCEJ

Vice Chairman
 Prof. S.V.Swanudha Raju
 Vice-Principal, JNTUHCEJ


Convener
 Dr. K. Vasantha Kumar
 Asst. Prof. & Head, Department of ME
 JNTUHCEJ

Faculty Advisor
 Dr. N.V.S. Raju
 Professor of ME, JNTUHCEJ

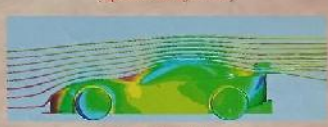
Coordinator
 Dr. Suresh Arjula
 Asst. Prof. of ME, JNTUHCEJ

Student Coordinators


B. Anil Kumar (IV B.Tech) # 9490971587
 Ch. Murali Krishna (IV B.Tech) # 9000342577
 M. Bhanu Prasad (III B.Tech) # 9666059746
 J. Laxmi Prasanna (IV B.Tech) # 7337422453
 U. Hema Nikitha (IV B.Tech) # 7660965663
 K. Siva Sai Sreeja (III B.Tech) # 9133137322



A Three Day Workshop
ON
Finite Element Analysis using ANSYS
 13th-15th, February 2020
 (Sponsored by ISTE)



Organized by
 DEPARTMENT OF MECHANICAL ENGINEERING
 JNTUH COLLEGE OF ENGINEERING JAGTIAL
 Nachupally (Kondagattu) JAGTIAL (Dist)
 Telangana - 505501
 Web: www.jntuhcej.ac.in



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 and had accredited by NBA. 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, DNCE 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 and has been accredited by NBA. 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 Ph.Ds. 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.
- Improve 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:
Jalagam Ravinder Rao
 Founder, MECHENGG, Hyderabad.
Dr. Ch. Sridhar Reddy
 Professor & Head, Department of ME, JNTUCEM

Convener:
Dr. Kandukuri Vasantha Kumar
 Asst. Professor & Head
 Department of Mechanical Engineering, JNTUHCEJ,
 Nachupally (Kondagattu), Kodimal (M), Jagtial (D),
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REPORT ON WORKSHOP

ACADEMIC YEAR 2019-20	
Name of the Department	Mechanical engineering
Name of the Event	Workshop
Title of the Event	A Three Day National Level Workshop on Finite Element Analysis using ANSYS
Resource Person	J Ravinder Rao , Founder , MECHENGG, Hyderabad Dr. Ch.Sridhar Reddy, Professor & Head, Department of ME, JNTUHCEM Email: sridharch@jntuh.ac.in , Mobile No. : 9494362430
Date & Time	13-15 Feb 2020 & 11:00 AM - 05:00 PM
Venue	Department Seminar Hall & CAD/CAM Lab
Targetted Audience	B.Tech III and IV yr students
No. of participants	Students: 75
Objective of the Event	To aquire knowledge on FEA which uses mathematical models to understand and quantify the effects of real-world conditions on a part or assembly.
Outcome of the Event	<ul style="list-style-type: none"> • Students will understand fundamentals of finite element Analysis to solve the various engineering problems. • Students will gain knowledge on basic software packages. • Students will be able to analyze the complicated engineering problems by using ANSYS.



HEAD

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 **JNTUH COLLEGE OF ENGINEERING JAGTIAL** 
NACHUPALLY(KONDAGATTU), JAGTIAL (DIST), T.S., 505 501
Department of Mechanical Engineering
(Accredited by NBA)

Certificate

A Three Day National Workshop on
Finite Element Analysis using ANSYS

This is to certify that Mr./Ms. **KETHEPALLI SIVA SAI SREEJA**, III B.Tech ME, Roll No. **17JJ1A0325** JNTUH College of Engineering Jagtial has participated in “**A Three Day National Workshop on Finite Element Analysis using ANSYS**” during 13-15 February 2020, organised by Department of Mechanical Engineering, JNTUHCEJ held at JNTUH College of Engineering Jagtial, Nachupally, Jagtial Dist.-505501, Telangana State, India.


Dr. Suresh Arjula
Co-ordinator


Dr. K Vasantha Kumar
Convener


Dr. N.V.Ramana
Principal, JNTUHCEJ

 **JNTUH COLLEGE OF ENGINEERING JAGTIAL** 
NACHUPALLY(KONDAGATTU), JAGTIAL (DIST), T.S., 505 501
Department of Mechanical Engineering
(Accredited by NBA)

Certificate

A Three Day National Workshop on
Finite Element Analysis using ANSYS

This is to certify that Mr./Ms. **BODA SRINIDHI YADAV**, III B.Tech ME, Roll No. **17JJ1A0306** JNTUH College of Engineering Jagtial has participated in “**A Three Day National Workshop on Finite Element Analysis using ANSYS**” during 13-15 February 2020, organised by Department of Mechanical Engineering, JNTUHCEJ held at JNTUH College of Engineering Jagtial, Nachupally, Jagtial Dist.-505501, Telangana State, India.


Dr. Suresh Arjula
Co-ordinator


Dr. K Vasantha Kumar
Convener


Dr. N.V.Ramana
Principal, JNTUHCEJ



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జేఎన్టీయూలో ముగిసిన జాతీయ వర్క్‌షాప్



అధ్యాపకులను సన్మానిస్తున్న విద్యార్థులు

మల్యాల (కొడిమ్యాల): నాచుపెల్లి జేఎన్టీయూ ఇంజనీరింగ్ కళాశాలలో మెకానికల్ ఇంజనీరింగ్ విభాగంలో భాగంగా మూడు రోజులుగా కొనసాగుతున్న అన్సిస్ సాఫ్ట్‌వేర్ వర్క్‌షాప్ శనివారంతో ముగిసింది. ఈ సందర్భంగా మూడోరోజు కంప్యూటరైజేషన్ ప్లూయిడ్స్ డైనమిక్స్, దాన్ని ఉపయోగించే వివిధ రకాల డిజైన్లు ఎలా చేయాలో రిసోర్స్ పర్సన్ రవీందర్ రావు విద్యార్థులకు వివ

రించారు. మెకానికల్ ఇంజనీరింగ్ విభాగాధిపతి కందుకూరి వసంత్ రావు మాట్లాడుతూ విద్యార్థులు కాలేజీ దశలోనే డిజైన్ సాఫ్ట్‌వేర్ నేర్చుకుంటే విద్యార్థులకు ఉపాధి అవకాశాలు మెరుగవుతాయన్నారు. ఈ సందర్భంగా మూడు రోజుల పాటు జరిగిన వర్క్‌షాప్‌లో అధ్యాపకులను శాలువాలతో ఘనంగా సత్కరించారు. ఈ కార్యక్రమంలో సురేశ్, తదితరులు పాల్గొన్నారు.