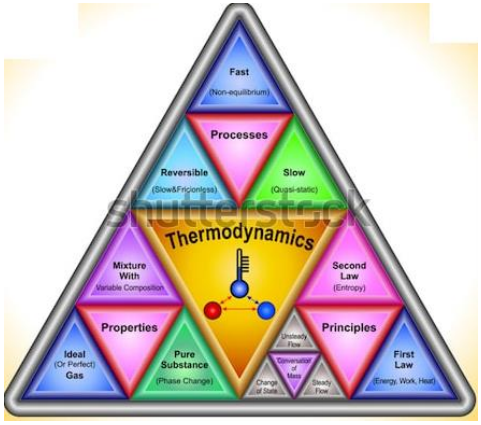
One Week Online Faculty Development Programme
on
THERMODYNAMICS & ITS APPLICATIONS
20th-25th January 2021
Sponsored by
Faculty Development Cell, AICTE
(Under Technical Teachers Training Scheme)



Organised by
Department of Mechanical Engineering,
JNTUA College of Engineering,
Ananthapuramu, &
Directorate of Faculty Development & IQAC,
JNTUA, Ananthapuramu, A.P.
www.jntua.ac.in
www.jntuacea.ac.in

Chief Patron
Prof. A. ANANDA RAO
Vice Chancellor i/c, JNTUA, Ananthapuramu

Patron
Prof. M. VIJAYA KUMAR
Registrar, JNT University Anantapur
Ananthapuramu,A.P.

University Coordinator
Prof. G. PRASANTHI
Director,
Faculty Development & IQAC
JNT University Anantapur
Ananthapuramu, A.P.

Prof. K. GOVINDA RAJULU
Principal,
JNTUA College of Engineering,
Anantapur, A.P.

Dr. B. CHANDRA MOHANA REDDY
Associate Professor & Head,
Department of Mechanical Engineering,
JNTUA College of Engineering,
Anantapur, A.P.

Programme Coordinator
Dr. D.R. SRINIVASAN
Assistant Professor,
Department of Mechanical Engineering,
JNTUA College of Engineering,
Anantapur, A.P.

AICTE SPONSORED ONLINE ONE WEEK FACULTY DEVELOPMENT PROGRAMME ON THERMODYNAMICS & ITS APPLICATIONS
20th-25th January 2021

ONLINE REGISTRATION LINK

https://forms.gle/fRW5ijVFWYYdpThW9

Last Date of Registration: 17-01-2021

Confirmation to the participants on 18.01.2021

Address for communication

Dr. D.R. Srinivasan
Assistant Professor,
Department of Mechanical Engineering,
JNTUA College of Engineering,
Anantapur
Contact Nos: 9440606546, 9347581392

email address: drsrinivasan.mech @jntua.ac.in

About the Institution

JNTUA College of Engineering, Ananthapuramu, is one of the oldest premier colleges in south India, with illustrious alumni. The college hascelebrated its diamond jubilee in the year 2006 and has an excellent atmosphere for advancement of one's knowledge. In the year 2008 the college has become aconstituent college of the newly formed JNTUA, Anantapur is well connected with major cities like Mumbai,Hyderabad, Bangalore and Chennai by rail and road. It is very near to places of tourist interest like Lepakshi, Hampi, Belum caves and Puttaparthi.

About the Department

The Department of Mechanical Engineering has been in existence since 1946, the inception of the college. This Department was shifted to present campus in the year 1958. All laboratories of the department are well equipped with the stateof art equipment. The Department maintains standards on par with other premier institutions in the country. The Department is offering Undergraduate course in Mechanical Engineering, Post Graduate course with following specialisationsRefrigeration & Air-Conditioning, Energy Systems, Advanced I.C. Engines, Product Design, Advanced Manufacturing Systems, Quality Engineering & Management.

About the Programme

Thermodynamics is science of energy transfer and its effect on the physical properties of substances. It is based upon observations of common experience which have been formulated into thermodynamic laws. These laws govern the principles of energy conversion. The applications of the thermodynamic laws and principles are found in all fields of energy technology, notably in steam and nuclear power plants, IC engines, gas turbines, air-conditioning, refrigeration, gas dynamics, jet propulsion, compressors, chemical process plants and direct energy conversion devices.

Objectives

To enable participants with latest trends in the field of thermodynamics & its applications.
The participants are familiarised with various cycles of thermodynamics.
The participants simulate actual working conditions of various thermodynamic cycles in virtual laboratory.
To prepare outcome-based course curriculum on thermodynamics & its applications
After this course participants can deliver lecture in a better way as they gain both theoretical& practical knowledge of the content in subjects like thermodynamics, thermal engineering etc.
This course also enables the participants to choose a suitable latest topic for research.

Pre-Requisite:
Basic knowledge of Thermodynamics.

Major Course Contents:
Thermodynamic Cycles, Concepts & Laws
IC Engines, Performance and Emission in IC Engines
Steam Generators & Advancements
Air Compressors
Thermal Analysis of Heat Exchangers
Thermal Design Aspects
Thermal Power Plants
Mixed Convection
Refrigeration & Air-Conditioning
CFD & its Applications
Fuel Cells
Latest Trends & Applications in Thermal Engineering
Registration Fee: No registration fee

Mode of Delivery: Live web session through Google meet. Participants will be provided link through WhatsApp before a day of the workshop.

Resource Persons

From IITs/NITs/Central & State Universities and eminent persons from industry.

Target Participants:

Faculty members from AICTE approved institutions and maximum number of Participants allowed is 100 (Candidates will be selected on 'first-come, first serve' basis)

Requirements to get E-Certificate:

Minimum 80% attendance is required for the whole course, Minimum 60% marks should be obtained in the Final test to be conducted online at the end of FDP.