



# YANTRA NEWSLETTER

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NEWSLETTER-ME

Department of Mechanical Engineering

VOLUME - 4

## At a Glimpse

- Student Training Programs
- Student Technical Activities
- Student Placements
- NPTEL Certifications
- Faculty Publications
- Faculty as Resource person
- NSS Activities

## ABOUT MECHANICAL DEPARTMENT

Mechanical engineers develop state-of-the-art technologies and exhilarating solutions for the mankind. We attempt to provide our students with a cheerful, productive and satisfying experience at all levels of their program of studies to explore the amazing world of mechanical engineering. The department has secured high repute through its quality of teaching, infrastructure & equipment. Teaching has been rendered by highly qualified and experienced faculty with good publications in reputed journals. The department is recognized as a research centre by JNTUK, Kakinada for pursuing Ph.D. programme in Mechanical Engineering. The department has spacious laboratories and well equipped with experimental set-ups as per the requirement of the curriculum. The faculty are very active and encourage the students in fabricating real models viz., Go-kart, Robots, Solar based vehicles and other working models, which are very useful in day-to-day life and teach students with live examples.

## Vision

*To be a center of excellence in Mechanical Engineering education and research*

## Mission

- *To promote trainings with institutional association*
- *To achieve learning centric infra-structure.*
- *To provide skill-based education with focus on Automotive*
- *To promote innovative ideas through creativity and leadership quality*



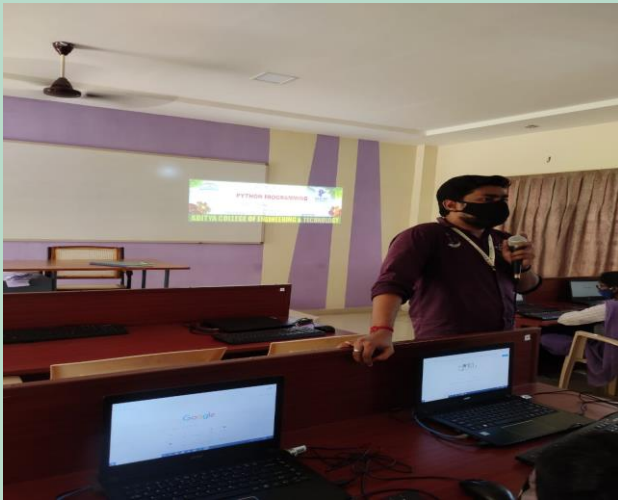
## Editorial Board:

1. Dr. P. Gangadhar Rao Assoc. Professor
2. Mr. Abdul Arif Asst. Professor
3. Mr. V. Chaitanya Krish (Student)
4. Mr. P. Subash (Student)
5. Mr. K. Kalki Bhagavan (Student)
6. Mr. M Shankar Sai (Student)

## Student Training Programs

### Python Programming

To improve computational skills of mechanical engineering students, training and placement cell has organized a training on python programming



### Computational Fluid Dynamics

Department of mechanical engineering has conducted certified training program on implementation of meshing methods in CFD



## SAE BAJA

Due to pandemic situations event is completely organised through virtual mode by using IPG Car Maker for endurance of the vehicles along with other static rounds like business plan, design report. In this event totally 25 students Mechanical, Electrical and Electronics, Electronics and communications Engineering with two faculty advisors from Mechanical are participated.



## Student Placements

# Congratulations



D SURESH  
RONCH POLYMERS



N NAGENDRA PRASAD  
RONCH POLYMERS



N JAGADEESH  
RONCH POLYMERS



M ASIN HIJAN  
DAEJOO AUTOMOTIVE



K BHASKARA RAO  
DAEJOO AUTOMOTIVE



D S LAKSHMAN RAJU  
DAEJOO AUTOMOTIVE



P.VENKAT SRI RAM  
DAEJOO AUTOMOTIVE



S SAI KUMAR  
DAEJOO AUTOMOTIVE



P CHANDRA SHAKAR  
DAEJOO AUTOMOTIVE

## NPTEL Certifications



**NPTEL Online Certification**  
(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**SATYA SURYA PRAKASH VINNAKOTA**  
for successfully completing the course

**Innovation by Design**

with a consolidated score of **58** %

Online Assignments	13.58/25	Proctored Exam	44.27/75
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Total number of candidates certified in this course: 136

Feb-Mar 2021  
(4 week course)

Prof. Sridhar Iyer  
Head COEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay

Roll No: NPTEL21DE05S14390007 To validate and check scores: <https://nptel.ac.in/noc>



**Elite**  
**NPTEL Online Certification**  
(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**RATNALA PRASAD**  
for successfully completing the course

**Conduction and Convection Heat Transfer**

with a consolidated score of **69** %

Online Assignments	20.31/25	Proctored Exam	48.75/75
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Total number of candidates certified in this course: 41

Jan-Apr 2021  
(12 week course)


Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur



Indian Institute of Technology Kharagpur



**NPTEL Online Certification**  
(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**P V S MURALIKRISHNA**  
for successfully completing the course

**Steam and Gas Power Systems**


with a consolidated score of **57** %

Online Assignments	18.67/25	Proctored Exam	38.25/75
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Total number of candidates certified in this course: 117


Feb-Apr 2021  
(8 week course)

Prof. V. C. Srivastava  
Coordinator, Continuing Education Centre  
IIT Roorkee




Indian Institute of Technology Roorkee

Roll No: NPTEL21ME21S14390165 To validate and check scores: <https://nptel.ac.in/noc>



**Elite**  
**NPTEL Online Certification**  
(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**GOLLAPALLI VEERA SATYA SRINIVAS**  
for successfully completing the course

**Fluid Machines**


with a consolidated score of **60** %

Online Assignments	22.33/25	Proctored Exam	37.5/75
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Total number of candidates certified in this course: 89

Aug-Oct 2021  
(8 week course)

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur



Indian Institute of Technology Kharagpur

Roll No: NPTEL21ME75S14410181 To validate and check scores: <https://nptel.ac.in/noc>

## Faculty Publications

Dr. Nitla Stanley Ebenezer has published in scopus indexed journal, a paper entitled Corrosion Behaviour of Bamboo Leaf Ash-Reinforced Nickel Surface-Deposited Aluminium Metal Matrix Composites. Journal of Bio- and Tribo-Corrosion DOI 7, 72(2021). <https://doi.org/10.1007/s40735-021-00510-x>



Dr. Pramod Kumar and Dr. M Murugan has published a paper entitled Study of microstructure and mechanical properties of NiTi wire cladding on super austenitic stainless steel 904L by TIG cladding process. In the journal of Sādhanā 46, 91(2021). <https://doi.org/10.1007/s12046-021-01602-7>



Dr. Pramod Kumar, Dr. M Murugan and Dr. Akilesh Kumar Singh has published a paper entitled Investigation of TIG Cladding of NiTi Wire on Substrate 304L to Study the Effect of Applied Current on Microstructure and Mechanical Properties in the Journal of Trans Indian Inst Met 74, 1333–1348 (2021). <https://doi.org/10.1007/s12666-021-02213-w>



Dr. Pramod Kumar, Dr. M Murugan, Dr. Akilesh Kumar Singh, Dr. P. Daniah and Mr A Arif has published paper entitled Study of Welding process parameter in TIG joining of Aluminum Alloy (6061).



## Faculty as Resource person

Dr M Murugan delivered a lecture on Solar energy and Renewable energy for a STTP conducted by JKKN college of engineering and technology, Coimbatore



## NSS Activities

As a part of JaganannaPachathoranam, NSS unit of ACET distributed saplings to medical staff and faculty



