

YANTRA NEWSLETTER

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VOLUME - 4

Department of Mechanical Engineering

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*



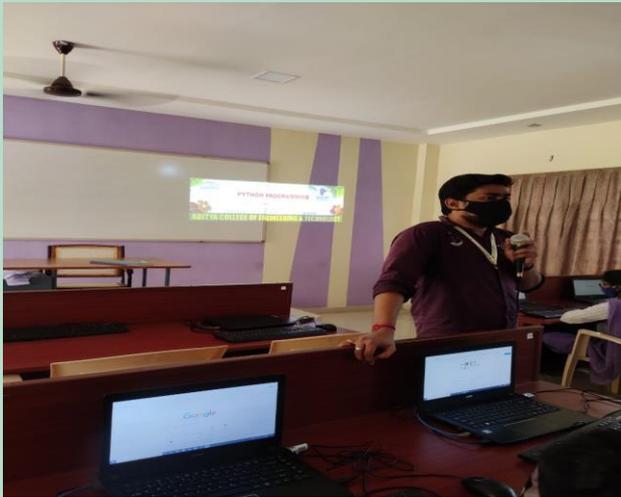
Editorial Board:

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

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|--|--------------------|----------------|----------------|----------|---|--------------------|----------|----------------|----------|
| <div style="text-align: center;">  <h3 style="margin: 0;">NPTEL Online Certification</h3> <p style="font-size: small;">(Funded by the Ministry of HRD, Govt. of India)</p>  <p>This certificate is awarded to SATYA SURYA PRAKASH VINNAKOTA for successfully completing the course Innovation by Design with a consolidated score of 58 %</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Online Assignments</td> <td style="padding: 2px;">13.58/25</td> <td style="padding: 2px;">Proctored Exam</td> <td style="padding: 2px;">44.27/75</td> </tr> </table> <p style="font-size: x-small;">Total number of candidates certified in this course: 136</p> <p style="font-size: x-small;">Feb-Mar 2021 (4 week course)</p> <div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;">  Prof. Sridhar Iyer <small>Head CDEEP & NPTEL Coordinator IIT Bombay</small> </div>  </div> <p style="font-size: x-small;">Roll No: NPTEL21DE05S14390007 To validate and check scores: https://nptel.ac.in/noc</p> </div> | Online Assignments | 13.58/25 | Proctored Exam | 44.27/75 | <div style="text-align: center;">  <h3 style="margin: 0;">Elite NPTEL Online Certification</h3> <p style="font-size: small;">(Funded by the Ministry of HRD, Govt. of India)</p>  <p>This certificate is awarded to RATNALA PRASAD for successfully completing the course Conduction and Convection Heat Transfer with a consolidated score of 69 %</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Online Assignments</td> <td style="padding: 2px;">20.31/25</td> <td style="padding: 2px;">Proctored Exam</td> <td style="padding: 2px;">48.75/75</td> </tr> </table> <p style="font-size: x-small;">Total number of candidates certified in this course: 41</p> <p style="font-size: x-small;">Jan-Apr 2021 (12 week course)</p> <div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;">  Prof. G P Raja Sekhar <small>Dean, Continuing Education IIT Kharagpur</small> </div>  </div> <p style="font-size: x-small;">Indian Institute of Technology Kharagpur</p> </div> | Online Assignments | 20.31/25 | Proctored Exam | 48.75/75 |
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| <div style="text-align: center;">  <h3 style="margin: 0;">NPTEL Online Certification</h3> <p style="font-size: small;">(Funded by the Ministry of HRD, Govt. of India)</p>  <p>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 %</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Online Assignments</td> <td style="padding: 2px;">18.67/25</td> <td style="padding: 2px;">Proctored Exam</td> <td style="padding: 2px;">38.25/75</td> </tr> </table> <p style="font-size: x-small;">Total number of candidates certified in this course: 117</p> <p style="font-size: x-small;">Feb-Apr 2021 (8 week course)</p> <div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;">  Prof. Inderdeep Singh <small>NPTEL Coordinator IIT Roorkee</small> </div>  </div> <p style="font-size: x-small;">Indian Institute of Technology Roorkee</p> </div> | Online Assignments | 18.67/25 | Proctored Exam | 38.25/75 | <div style="text-align: center;">  <h3 style="margin: 0;">Elite NPTEL Online Certification</h3> <p style="font-size: small;">(Funded by the Ministry of HRD, Govt. of India)</p>  <p>This certificate is awarded to GOLLAPALLI VEERA SATYA SRINIVAS for successfully completing the course Fluid Machines with a consolidated score of 60 %</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Online Assignments</td> <td style="padding: 2px;">22.33/25</td> <td style="padding: 2px;">Proctored Exam</td> <td style="padding: 2px;">37.5/75</td> </tr> </table> <p style="font-size: x-small;">Total number of candidates certified in this course: 89</p> <p style="font-size: x-small;">Aug-Oct 2021 (8 week course)</p> <div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;">  Prof. G P Raja Sekhar <small>Dean, Continuing Education IIT Kharagpur</small> </div>  </div> <p style="font-size: x-small;">Indian Institute of Technology Kharagpur</p> </div> | Online Assignments | 22.33/25 | Proctored Exam | 37.5/75 |
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| Online Assignments | 22.33/25 | Proctored Exam | 37.5/75 | | | | | | |

Roll No: NPTEL21ME21S14390165

To validate and check scores: <https://nptel.ac.in/noc>

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 Sādhana 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>

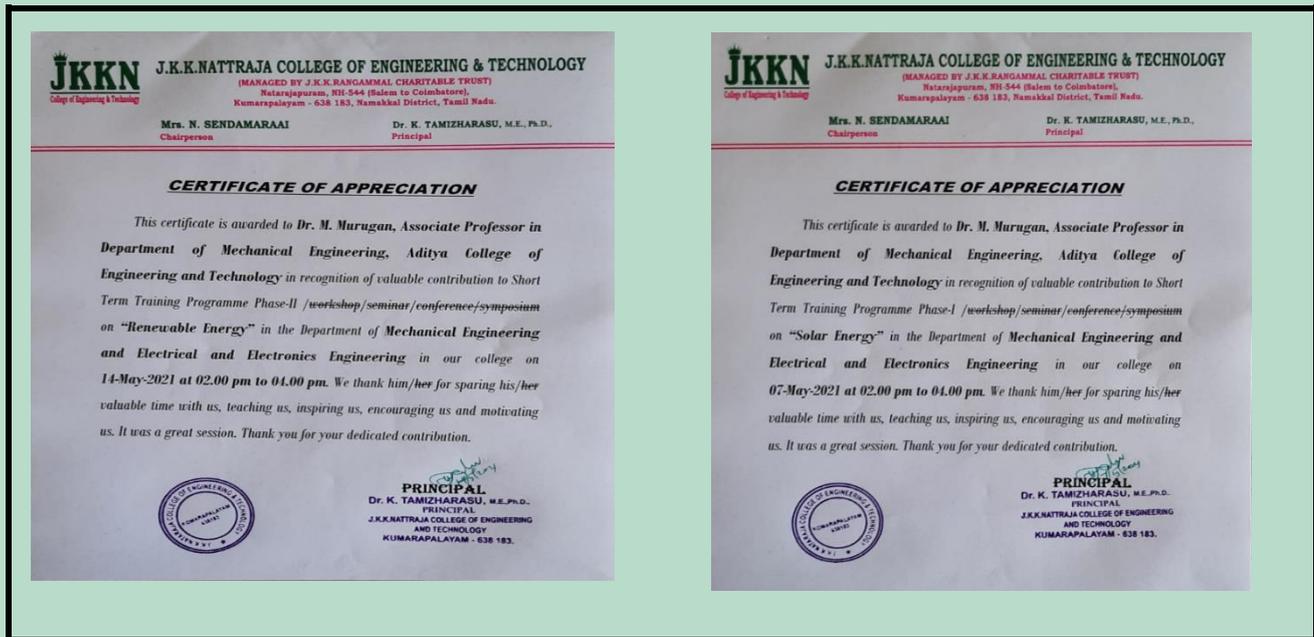


Dr. Pramod Kumar, Dr. M Murugan, Dr. Akilesh Kumar Singh, Dr. P. Daniah and Mr A Arif has published paper entitled Study of Welding process parameter in TIG joining of Aluminum Alloy (6061).



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



