

Department of Mechanical Engineering

# SHABDKOSH

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Mechanical Engineering



ADITYA ENGINEERING COLLEGE (A)APPROVED BY AICTE, PERMANENTLY AFFILIATED TO JNTUK, ACCREDITED BY NBA & NAAC with 'A++' GRADE Recognized by UGC under section 2(f) and 12(B) of UGC Act, 1956 Aditya Nagar, ADB Road, Surampalem 533437, Kakinada Dist.



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# FACULTY PUBLICATIONS



Welding-based additive manufacturing processes for fabrication of metallic parts, Composites and Advanced Materials, 2716-8018 (SCIE-Scopus)

Strategic combination of waste plastic/tire pyrolysis oil with biodiesel for natural gas-enriched HCCI engine: Experimental analysis and machine learning model, Energy, 1873-6785 (SCIE-Scopus)

Investigation of nano composite heat exchanger annular pipeline flow using CFD analysis for crude oil and water characteristics, Case Studies in Thermal Engineering, 2214-157X (SCIE-Scopus)

Exploration of low heat rejection engine characteristics powered with carbon nanotubes-added waste plastic pyrolysis oil, Process Safety and Environmental Protection, 1744-3598 (SCIE-Scopus)

Experimental Investigation on the Effect of Graphene Oxide in Higher Alcohol Blends and Optimization of Injection Timing Using an ANN Method, ACS Omega, 24701343 (SCIE-Scopus)

Prediction of RCCI combustion fueled with CNG and algal biodiesel to sustain efficient diesel engines using machine learning techniques, Case Studies in Thermal Engineering, 2214-157X (SCIE-Scopus)

Investigation into the Ideal Concoction for Performance and Emissions Enhancement of Jatropha Biodiesel-Diesel with CuO Nano particles Using Response Surface Methodology, ACS Omega, 24701343 (SCIE-Scopus)

Performance and Emission Analysis of Biodiesel Blends in a Low Heat Rejection Engine with an Antioxidant Additive: An Experimental Study, ACS Omega, 24701343 (SCIE-Scopus)

Strategic combination of waste plastic/tire pyrolysis oil with biodiesel for natural gas-enriched HCCI engine: Experimental analysis and machine learning model, Process Safety and Environmental Protection, 1744-3598 (SCIE-Scopus)



# FACULTY PUBLICATIONS

## Book & Book Chapters



Dr. Sandip Kumar

- **Introduction to micro electro machining and fabrication, Apple Academic Press, 9781774913796**
- **Nano additives assisted MQL & Optimization in Micromachining Processes, Apple Academic Press, 9781774913796**
- **Breakthrough in unconventional machining using powder additives: Powder mixed micro electric discharge machining, Apple Academic Press, 9781774913796**
- **Recent Advancement in Microtexturing using Electrochemical Micromachining, Apple Academic Press, 9781774913796**
- **Electro Micromachining and Microfabrication: Principles and Research Advances, Apple Academic Press, 9781774913796**
- **Optimization of Advanced Manufacturing Processes, Apple Academic Press, 9781774913796**
- **Laser Assisted Machining: Processes and Applications, Scrivener- Wiley Publishers, 9781394213573**



# FACULTY PUBLICATIONS

## Book & Book Chapters



Dr. P.S. Ranjit

- **Algae Biofuels: A Promising Fuel for Transport Sector, Scrivener-Wiley, 9781119785712**
- **An Outlook on Oxygenated Fuel for Transportation, Scrivener-Wiley, 9781119785712**
- **Greenhouse Gas (GHG) Emissions and its Mitigation Technology in Transportation Sector, Scrivener-Wiley, 9781119785712**
- **Large Scale Applications of Nanomaterials for Water Treatment Challenges, Future Prospects, and the Visionary Future, Scrivener-Wiley, 9781119792888**
- **E-Waste Recovery and Utilization Processes for Mobile Phone Waste Prospects, and the Visionary Future, IGI Global, 9781668481196**
- **Innovative Strategy for Profitable Automobile Industries: Working Capital Management, IGI Global, 9781119792888**
- **Additive Manufacturing Using Robotic Programming, IGI Global, 9781668481738**

WILEY







# Faculty certificates

Dr. P.V. Elumalai for participating in the two days hands - on workshop on Contemporary IC Engines using virtual reality.

date of workshops: 02-11-2023 to 03-11-2023

organized by crescent university chennai.



## workshops


Students of Mechanical Engineering have attended One Week Online Short Term Course on New Product Development Process Organized by APSSDC.



"A Two Day Workshop on Two wheeler and Four Wheeler" organized by the APSSDC

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A Two Day Workshop on  
**TWO WHEELER**  
By the APSSDC Trainers  
**Mr. D. Gopala Krishna &  
Mr. I.V V Satyanarayana Murthy**

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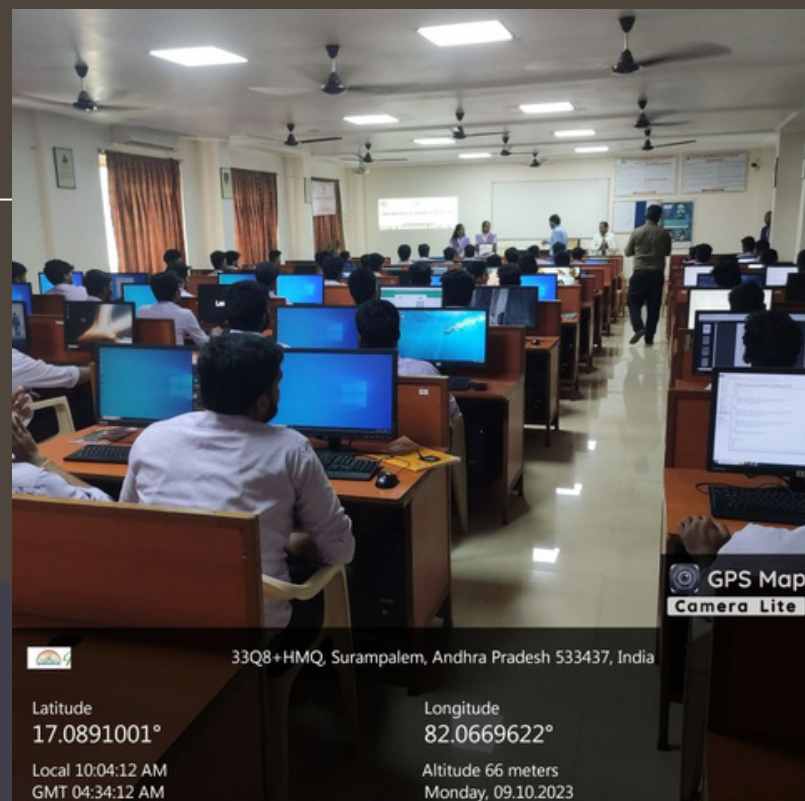
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A One Week Workshop on Introduction to Autodesk Maya 3D  
Date : 9th to 14th October 2023 Resource Person: P. Santosh kumar APSSDC.





# Hands on Training

A Two-Day Workshop (13th and 14th October 2023) on “Composite Materials” Sponsored by IEI Students Chapter. Resource Person: Mr. S. Vignesh (Manufacturing and Quality Manager) and Mr. V. Yuvraj (Design and Manufacturing Engineer) from Decadrives Pvt Ltd Chennai.





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Hearty Congratulations for successful  
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