

SHABDKOSH

Newsletter

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2021-22

DEPARTMENT OF MECHANICAL ENGINEERING



ADITYA ENGINEERING COLLEGE(A)

APPROVED BY AICTE NEW DELHI AND AFFILIATED TO JNTU KAKINADA

Vision & Mission

ABOUT MECHANICAL DEPARTMENT

Managing moving machines of the world! It is this catchy phrase that has made Mechanical Engineering the thriving branch for being an integral part in shaping our world run on machines. The Mechanical Engineering department at Aditya has earned a place of high repute through its quality teaching rendered by highly qualified and experienced faculty with remarkable number of research publications in reputed journals like ASME, ELSEVIER etc. and rigorous practical training creating an ambience of excitement in all the stages of study. The department lays impetus on hands-on training with the support of simulation packages such as CATIA, ANSYS, IDEAS, PRO-E, UNIGRAPHICS and SOLID WORDS. The academic activities include guest lectures, industrial visits, workshops, seminars, technical festivals VEDA and programs under Mechanical Engineering Students Association (MESA), collegiate club of the Society of Automotive Engineers (SAE) and Auto gear club. The projects that received appreciation in various events organized at state and national level are Go-Kart, Quad bike, Solar powered wheelchair, LPG bike, Reaping Machine, and many more such highly relevant contraptions. Students are encouraged to do internships in reputed industries like TATA Motors PVT. LTD., Hindustan Shipyard, BHEL PVT. LTD., Bhilai Steel Plant, Bokaro Thermal Power Station, Nalco Mining Division etc

VISION OF THE DEPARTMENT

To be a preferred knowledge hub in Mechanical Engineering towards critical thinking, quality research and innovation

MISSION OF THE DEPARTMENT

M 1

Provide infrastructure for design and development of modern-day solutions.

M2:

Impart leadership, critical thinking and innovation to address the societal needs.

M3:

Collaborate with industry, academia, & R&D organizations for excellence in teaching, research and consultancy services.



Faculty Publication in International Journal

Sl. No	Authors	Title of the research paper	Name of the journal	Name of the Publisher	Year of publication	Impact factor
1.	Elumalai P.V	Influence of cobalt chromium nanoparticles in homogeneous charge compression ignition engine operated with citronella oil"	Energy Science and Engineering	Wiley	Mar - 2022	4.2 (SCI)
2.	Elumalai P.V	The effect of thermal degradation and thermogravimetric analysis on pyrolysis oil production from waste milk packet for CI engine application	Journal of Thermal Analysis and Calorimetry	Springer	April - 2022	4.8 (SCI)
3.	Zeeshan Ahmad	A designed setup of low-priced in-house goniometer/tensiometer	Optik	Elsevier	April – 2022	2.84 (SCI)
4.	P.S.Ranjit	Enhancement of Performance and Reduction in Emission of Hydrogen Supplemented Aleurites Fordii Biodiesel Blend Operated Diesel Engine	International Journal of Vehicle Structures and Systems,	MAFTREE	April – 2022	NA (Scopus)
5.	Elumalai P.V	Performance comparison of empirical model and Particle Swarm Optimization & its boiling point prediction models for waste sunflower oil biodiesel	Case Studies in Thermal Engineering	Elsevier	May- 2022	6.26 (SCI)
6.	Elumalai P.V	Artificial neural networks model for predicting the behavior of different injection pressure characteristics powered by blend of biofuel-nano emulsion	Energy Science and Engineering,	Wiley	May - 2022	4.2 (SCI)
7.	Elumalai P.V	Experimental based comparative exergy analysis of a spark- ignition Honda GX270 Genset engine fueled with LPG and syngas	Energy Science and Engineering,	Wiley	May - 2022	4.2 (SCI)

Faculty Conference Publication

Sl. No	Authors	Title of the research paper	Name of the journal	Name of the Publisher	Year of publication	Impact factor
1.	Sandeep Kunar	Rice Husk Ash Reinforced Aluminium MetalMatrix Composites: A Review	Materials Science Forum	Materials Science and Engineering	Mar - 2022	NA (Scopus)
2.	Sandeep Kunar	Analysis of Microsurface Characteristics during Micro-Electrochemical Texturing on Stainless Steel	Key Engineering Materials	Materials Science and Engineering	Mar - 2022	NA (Scopus)
3.	Sandeep Kunar	Micropatterning on stainless steel surface using electrochemical micromachining	Materials Today Proceeding	Elsevier	April -2022	NA (Scopus)

Seminar on “Additive Manufacturing in Biomedical Applications”

The Primary objective of this course is to explore the fundamentals of Additive Manufacturing in Biomedical Applications by providing a common platform to interact with the experts of the field. In particular, AM for health has received significant attention, and ample AM application opportunities exist in the health field, including the fabrication of custom shaped orthopedic prostheses and implants, medical devices, biological chips, tissue scaffolds, living constructs, drug-screening models, precision medicine, and surgical planning and training apparatuses

Event Dates: 14-03-2022

Number of Days: 1 day

Co-Ordinator: Mr.K.L.Kishore, Assoc. Professor, Department of ME.

Agenda/Event Flow: Day-1: Additive Manufacturing in Biomedical Applications

No. of Participants: 62

Experts with Designation: 1. Dr.A. Manmadha Chary, Asst. Professor, IFHE, Hyderabad


Conclusive Remarks:

This programme was conducted successfully fulfilling the goal of making faculty from ME department learn the basic concepts of 3D Printing in Biomedical Applications. As it was one of the good opportunities, all the participants were involved and interacted well. Finally, the program successfully came to end by giving necessary knowledge to faculty in the field of Additive Manufacturing. Participants from various colleges attended this Programme and make it successful.

VACCINATION DRIVE







PLACEMENT DETAILS



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**CAMPUS PLACEMENT
2021-2022**

<p>Miracle Software Systems</p> <p style="text-align: right;">Package: 2.46 LPA</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="background-color: #90EE90; padding: 5px; border: 1px solid black;"> <p><small>Davuluri Veera Venkata Satya Manikanta 18A91A0371</small></p> </div> </div>	<p>Wabtec</p> <p style="text-align: right;">Package: 13.0 LPA</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="background-color: #90EE90; padding: 5px; border: 1px solid black;"> <p><small>Bhamidipati Suresh 19A95A0302</small></p> </div> </div>
<p>Zelf Studie</p> <p style="text-align: right;">Package: 6.00 LPA</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="background-color: #90EE90; padding: 5px; border: 1px solid black;"> <p><small>Pothula Durga Thanuj 18A91A03G0</small></p> </div> </div>	<p>Pentagon Space</p> <p style="text-align: right;">Package: 4.00 LPA</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="background-color: #90EE90; padding: 5px; border: 1px solid black;"> <p><small>Abhishek Nakka 18A91A0333</small></p> </div> </div>

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Delphi - TVS

Package: 2.03 LPA


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18A91A0322



Namburi Uma Maheswara Rao
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Turing Minds.Ai

Package: 6.20 LPA


Aravind Tatavalu
19A95A0318



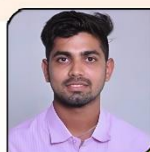
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**CAMPUS PLACEMENT
2021-2022**

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Package: 3.00 LPA

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