

VOLUME - IV

ISSUE - 1 (JUNE- NOVEMBER)

2020-21

DEPARTMENT OF MECHANICAL ENGINEERING



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

M1: 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 PUBLICATIONS

SI. NO	NAME OF THE FACULTY	Title of the Paper	Name of the Journal	ISBN/ISSN Number	Vol/Month	Impact factor
1	Dr. Santosh Kumar Dash	variable compression ratio small size agricultural DI diesel engine runby Nahar biodiesel and its diesel blends	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	15567036	42/July	1.8 / SCIE
2	Dr. A. Saravanan	Performance Evaluation of Square Pyramid Solar Still with Various VerticalWick Materials - An Experimental	Thermal Scienceand EngineeringProgress	2451-9049	19/October	2.6

FACULTY CHARACTERS/BOOKS

Sl. No	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Book/Book Chapter	Name of the Publisher	ISBN Number	URL
1	Dr. P S Ranjit	4	Main Author	Experimental investigations on influence of preheating the jatropha based straightvegetable oil through exhaust gas framework onan IDI CI engine	Nova Science Publishers		https://novapubli shers.com/shop/p roperties-and- uses-of- vegetable-oils/

FACULTY CONFERENCE

	Name of the			T	T	
Sl. No.	Faculty as Author	Title of the Paper	Name of theConference	Date/s	Organized by with location	ISBN/ISSN Number
1	Dr. Ch V S N Reddi	embedded Resonators and Quarter wavetubes	INTER-NOISE and NOISE- CON Congressand Conference Proceedings	23-26 th August 2020	Korean Society for Noise and Vibration Engineering Seoul, Korea	ISSN 0736- 2935
2	Dr. Ch V S N Reddi	Measurement of Sound	INTER-NOISE and NOISE- CON Congressand Conference Proceedings	23- 26 th August 2020	Korean Society for Noise and Vibration Engineering Seoul, Korea	ISSN 0736- 2935
3	Dr. Ch V S N Reddi	Absorption Coefficient of Various	INTER-NOISE and NOISE- CON Congressand Conference Proceedings	23- 26 th August2020	Korean Society for Noise and Vibration Engineering Seoul, Korea	ISSN 0736- 2935
4	Dr. Ch V S N Reddi	performance of composite	INTER-NOISE and NOISE- CON Congressand Conference Proceedings	23- 26 th August2020	Korean Society for Noise and Vibration Engineering Seoul, Korea	ISSN 0736- 2935
5	Dr. V. V. Kamesh		1st International Conference on Energy, Materials Sciences & Mechanical Engineering 2020	November 2020	NIT, Delhi	978-981-16- 2793-4
6	Dr. V. V. Kamesh	chain	1st International Conference on Energy, Materials Sciences & Mechanical Engineering 2020	31stOctober to 1st November 2020	NIT, Delhi	2214-7853
7	Dr. P.S. Ranjit	Supplemented SVO operated IDI CI Engine	1st International Conference on Energy, Materials Sciences & Mechanical Engineering 2020	31stOctober to 1st November 2020	NIT, Delhi	1757-899X
8	Dr. S. K. Dash		1st International Conference on Energy, Materials Sciences & Mechanical Engineering 2020	31stOctober to 1st November 2020	NIT, Delhi	978-981-16- 2793-4
9	DI. DV Elumalai	friction stir welding on	International Conference on Advances in Design, Materials and Manufacturing	24-25th July 2020	Madras Institute of Technology, Chennai	2214-7853

FACULTY SEMINAR AND WORKSHOPS

ATTENDED

SI. No.	Name of faculty	Name of Event	Name of organizer	Place/ Location	Dates/ Duration
1	Mr. D Raviteja	Two Day Workshop on CATIA	Santhiram Engineering College	Nandyal	29-30 August 2020/2Days
2	Dr. P V. Elumalai	Two Day Workshop on CATIA	Santhiram Engineering College	Nandyal	29-30 August 2020/2Days
3	Ms. A Sirisha Bhadrakali	Two Day Workshop on CATIA	Santhiram Engineering College	Nandyal	29-30 August 2020/2Days
4	Dr P.S Rajith	One Day Seminar On IP Awareness/ Trainingprogram	Intellectual Property Office, India, Govt.of India, Ministry of Commerce and Industry	Nagpur	25 th July, 2022
5	Dr P.S Rajith	One Day SeminarOn IP Awareness/ Trainingprogram	Property Office, India, Govt.of India, Ministry of Commerce and Industry	Nagpur	14 th July, 2022

STUDENTS ACHIEVEMENTS

SI. NO.	NAME OF THE STUDENT	EVENTNAME	PRESENTED TOPIC	VENUE	DATE	AWARD/REWA RD
1	Chelluri Raviteja	Intellectium 2021	Twin-Turbo or Biturbo	Sinhgad Institute of Technology Lonavala	29-10-21 to 30- 10-21	Participation
2	Gadhi Gangadhar	Intellectium 2021	Twin-Turbo or Biturbo	Sinhgad Institute of Technology Lonavala	29-10-21 to 30- 10-21	Participation
3		Impetus and Concepts 2021 (InC) 2021	Blended Winged Aircraft	Pune Institute ofComputer Technology, Pune	24-09-21 to 25- 09-21	Participation
4	IK Ondrii Naga	Impetus and Concepts 2021 (InC) 2021	Blended Winged Aircraft	Pune Institute ofComputer Technology, Pune	24-09-21 to 25- 09-21	Participation
1	ManepalliVardhan Kumar	TechExibit2021	Compressed Air Cars	Sinhgad Institute of Technology, Lonavala	23-07-21 to 24- 07-21	Participation
6	Palivela Rajesh	TechExibit2021	Compressed Air Cars	Sinhgad Institute of Technology, Lonavala	23-07-21 to 24- 07-21	Participation

STUDENTS PENCIL ARTS







STUDENTS CRAFT





B SRIHARI GANESH 19A91A0360

ESSAY WRITING

Robotics is a field that encompasses the design, construction, operation, and use of robots, as well as computer systems for their control, sensory feedback, and information processing. Robotics has been used in a variety of applications, ranging from industrial automation and manufacturing to scientific research and exploration, military, and medical applications.

One of the main advantages of robotics is their ability to perform tasks that are either too dangerous or too tedious for human beings. For example, robots have been used in hazardous environments such as nuclear power plants, where they are better equipped to handle the conditions than humans. They can also work in factories, performing repetitive tasks such as assembly-line work, which would be monotonous and physically demanding for human workers.

In addition to their industrial applications, robots have also been used in medical and scientific research. For example, robots have been used to perform surgeries with greater precision and accuracy than human surgeons, leading to improved patient outcomes. They have also been used to explore space and the depths of the ocean, gathering data and samples that would be impossible to obtain through human means.

Despite their many benefits, the development and deployment of robots also raises a number of ethical and social issues. One concern is the potential loss of jobs as robots increasingly perform tasks that were previously done by humans. There are also concerns about the safety of robots, particularly in situations where they interact with humans, and about their potential to be used for harmful purposes.

To address these issues, researchers and policymakers have been working to develop ethical and legal frameworks for the development and use of robots. This includes developing guidelines for the responsible use of robots and the development of new technologies to ensure that robots are safe and secure.

In conclusion, robotics is a rapidly growing field that has the potential to transform many industries and have a significant impact on society. While there are challenges associated with the development and deployment of robots, these can be addressed through responsible research, development, and regulation. The future of robotics is full of possibilities, and we can expect to see continued growth and innovation in this field in the years to come.

-By Venkatesh

K R P VARDHAN 19A91A0384

A Poem about "Nature's Symphony"

Nature's symphony, a beauty untold, A harmony that forever holds. With each sunrise and each sunset, The world awakens, never at rest.

The trees sway in the gentle breeze,
A dance so graceful, a sight to see.
The flowers bloom with colors so bright,
A sight so serene, in the morning light.

The rolling hills and valleys so green, A carpet of life, a verdant scene. The rivers run, a journey long, A liquid ribbon, meandering along.

The sky so blue, a canvas so wide,
With clouds so white, floating side by side.
The stars so bright, a mystery untold,
A glimpse of heaven, for young and old.

Nature's symphony, a beauty untold, A harmony that forever holds. Let's cherish it, for all time, For it's a treasure, a precious find. - By Sathish

"The COVID-19 Crisis: A Global Pandemic"

The COVID-19 pandemic is a highly infectious respiratory illness caused by the novel coronavirus, first identified in Wuhan, China in December 2019. Since then, the virus has spread rapidly across the world, declared a global pandemic by the World Health Organization (WHO) in March 2020.

The symptoms of COVID-19 include fever, cough, and shortness of breath, which can range from mild to severe. In severe cases, the virus can lead to pneumonia, acute respiratory distress syndrome, and death. The virus is primarily spread through respiratory droplets generated when an infected person talks, coughs, or sneezes.

To combat the spread of COVID-19, health authorities across the world have implemented various measures, including lockdowns, quarantines, and the widespread wearing of masks. In addition, many countries have implemented widespread testing and contact tracing, while also ramping up their vaccine efforts.

The COVID-19 pandemic has had a profound impact on the world, leading to significant disruptions to daily life, including school closures, cancelled events, and widespread job losses. The pandemic has also highlighted the importance of preparedness for future global health crises and the need for international cooperation in combating them.

In conclusion, COVID-19 is a highly infectious disease that has caused a global pandemic, leading to significant disruptions to daily life and highlighting the importance of preparedness for future global health crises. It is important for everyone to continue to follow the guidelines set by health authorities, get vaccinated when possible, and take precautions to slow the spread of the virus.

PLACEMENT DETAILS





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