YANTRA Magazine

Department of Mechanical Engineering

ADITYA ENGINEERING COLEEGE (A)

ADITYA NAGAR, SURAMPALEM, EAST GODAVARI DIST.

ANDHRA PRADESH.

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 & interpersonal skills for the stake holders

M3: Collaborate with industry, academia, & R&D organizations for excellence in teaching, research and consultancy services.

Invited lecturers

SL. No.	Name of the faculty	Name of the event	Date	Invited Organization/ institute
1	Dr. P. S. Ranjit	Webinar	9th to 11th May2022.	Ideal Institute of Technology, Kakinada, Andhra Pradesh
2	Dr. P.S. Ranjit	Guest Lecture	02nd to 06th March2020	Karnavati University

Member of External Bodies

Sl. No.	Name of the Faculty	Name of the external body/Agency	Position	Duration/Tenure
1	Dr. P.V. Elumalai	Energies MDPI	Guest Editor	2021-2022
2	Dr. P. S. Ranjit	JNTUK, Kakinada	Member of BoS	2021-2022
3	Dr. P. S. Ranjit	SAE India	Member of Management Committee for Faculty Development Programme	2021-2022
4	Dr. P. S. Ranjit	SAE India, Amaravati Division	Member of Management Committee	2021-2022

List of Patents

Sl. No.	Name of the Faculty	Patent details	Area of the patents files/ obtained	Status (filed/published/ granted)	Filing agency
1	Dr. P. S. Ranjit	Title of patent- Automatic Dimming Circuit for Automobile Headlights, Patent Application No.: 202041027643	Mechanical Engineering	Published	Indian Patent Office
2	Dr. M S Reddy	Title of patent: Nutritional HealthAssessment and Diet Plan Prediction Systemfor Children, Patent ApplicationNo.: 202041024261, Publication Date:17-12-2021	Bio-Medical Engineering	Published	Indian Patent Office
3	Dr. M S Reddy	Title of patent: Agri-Tech Farming Revolution for using Plc Solar water, and Fertilizer's Pump with New Altered-Nozzle, Patent Application No: 202141049447, Publication Date:05-11-2021	Computer Science	Published	Indian Patent Office
4	Dr. Sandip Kunar	Title of patent: Portable incense burner with automatic ash disposal, Patent Application No: IN202141033818A, Publication Date: 2022-02-04	Mechanical Engineering	Published	Indian Patent Office

Students Participation

S. No	Name of the students	Name of the event	Presented Topic	Venue	Date	Award/ Reward
1	Mr. Chelluri Raviteja	Intellectium 2021	Twin-Turbo or Biturbo	Sinhgad Institute of Technology Lonavala	29-10-21 to 30-10-21	Participation
2	Mr. Gadhi Gangadhar	Intellectium 2021	Twin-Turbo or Biturbo	Sinhgad Institute of Technology Lonavala	29-10-21 to 30-10-21	Participation
3	Mr. Kommu Raj Kumar	Impetus and Concepts 2021 (InC) 2021	Blended Winged Aircraft	Pune Instituteof Computer Technology, Pune	24-09-21 to 25-09-21	Participation
4	Mr. Kondru Naga Sandeep	Impetus and Concepts 2021 (InC) 2021	BlendedWinged Aircraft	Pune Instituteof Computer Technology, Pune	24-09-21 to 25-09-21	Participation
5	Mr. Manepalli Vardhan Kumar	TechExibit 2021	CompressedAir Cars	Sinhgad Institute of Technology Lonavala	23-07-21 to 24-07-21	Participation
6	Mr. Palivela Rajesh	TechExibit 2021	CompressedAir Cars	Sinhgad Institute of Technology Lonavala	23-07-21 to 24-07-21	Participation

Faculty PhD Guiding

Sl. No.	Name of Faculty	Name of Student	Name of University	Title of Ph.D. topic	Date of Enrolment	Date of Award
1	Dr. P.V. Elumalai	Ms. S. Anjani Devi	Annamalai University	Experimental investigation of HCCI engine operated with lemon grass oil	11.01.2022	Pursuing
2	Dr. P.V. Elumalai	Mr. Rakesh Verma	Annamalai University	Effects of graphite oxide on PCCI Engine of operated with biodiesel	11.01.2022	Pursuing
3	Dr. P.V. Elumalai	Mr. Sartaj Patel	Annamalai University	Analysis of bio- composite material	11.01.2022	Pursuing

Students Achievements

Industrial Visit:

Students participated in industrial visits and training to bridge the gap between academic learning and practical training in the real world. Field trips will provide students with an understanding of organisational hierarchy and industrial practises. Students will have the opportunity to participate in hands-on learning activities outside of the classroom setting through industrial visits

Students of Mechanical Engineering visit to L & T Company, Kakinada

Quiz:

Quiz is a learning platform that offers multiple tools to make a classroom fun, interactive and engaging. The teacher can create lessons, conduct formative assessments, assign homework, and have other interactions with the students in a captivating way. The teachers are used to determine whether students have learned what they were expected to learn or to level or degree to which students have learned the material. They may be used to measure learning progress and achievement and to evaluate the effectiveness of educational programs.

Learning from Experts:

- The University was informed of the deficiencies and asked to take them into account when revising the curriculum. Aside from that, the department has taken the necessary steps to close knowledge gaps by teaching the ideas through content other than the syllabus.
- Experts routinely organize seminars.
- Guest lectures are organized by industry professionals to bridge the gap between industry and academia.
- Practical hands-on workshops are set up to expose participants to contemporary tools.
- Students are taken on trips to various sectors of the industry.
- To improve their abilities, they constantly take aptitude tests, value-added classes, employability improvement programmes and so on.
- Students are encouraged to participate in in-plant training during their semester breaks.

Student activity participated in Guest lectures.
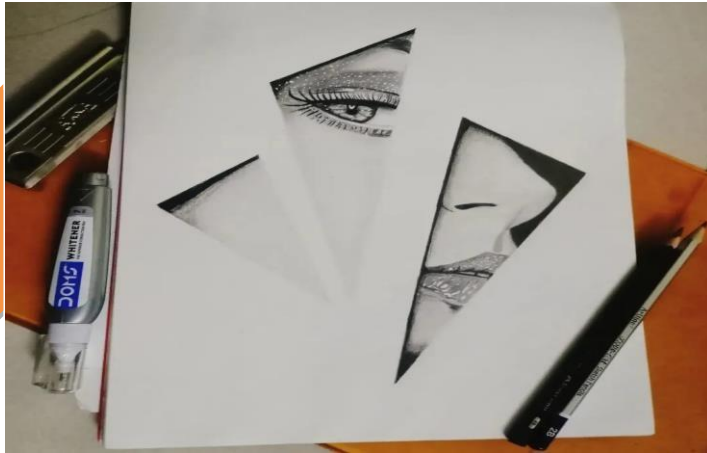
NPTEL Videos Demonstration:

Mr. S. Ganapathi delivering lectures using NPTEL video

- The students will be shown the NPTEL Videos on the lecture topics of the resource persons from IITs, NITs, etc.,

Student architectures:

Art by

Akhil 2 nd year

Art by

Karunakar 2 nd year

Art by

Samuel 2 nd year

Placements:

ADITYA ENGINEERING COLLEGE (A)
Approved by AICTE Permanently Affilated to JNTUK Accredited by NAAC with 'A' Grade
Recognised by UGC under sectons 2(f) and 12(B) of UGC Act, 1956

CAMPUS PLACEMENT 2022-2023

Mediamint
Package: 3.10 LPA

Bala Venkatesh Thattikota
18A91A0351

Dannina Mohan Vamsi Krishna
18A91A0369

Infolob
Package: 3.00 LPA

K.V.D. Kalyana Vasu
18A91A0315

Sravan Kumar Chiruvuri
18A91A03C1

Avantix Technologies
Package: 4.50 LPA

Betha Anil Kumar
18A91A0364

Mordor Intelligence
Package: 4.62 LPA

Kolluri Venkateswarlu
18A91A03D4

Infosys
Package: 3.60 LPA

Karibandi Sitarama Pavan Kumar
18A91A0378

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CAMPUS PLACEMENT 2022-2023

ZF India
Package: 6.00 LPA

Venkata Ramesh Bheemavarapu
18A91A0366

Subhash Gondi
18A91A0374

Hema Naga Sai Kumar Krovvidi
18A91A0386

Sai Mounika Muvvala
18A91A03E7

Veera Venkata Satyanarayana Daivapu
19A95A0303

Subramanya Bhupesh Animireddy
19A95A0311

Sasidhar Immidi
19A95A0313