

Adithya Institute of Technology, Coimbatore 641 107.

Department of Mechanical Engineering

Newsletter-2016-17

Vision:

To create Engineers and Managers with necessary skills and values for their career and life.

Mission:

To transform students through a systematic teaching-learning process, providing skill development training, practical exposure and imparting values of life during their period of study.

The Department of Mechanical Engineering has published news letter on every end of the academic year and it's available in the department library for our students and staff.

Orientation Program

At the beginning of both Odd and Even semester the Orientation program was given to the all students. For Odd sem it was conducted on 27.06.2016 and for Even Sem on 02.01.2017. In the program Activities plan for academic year 2016-17, Academic Training, Planned Vs Execution report, Administrative Plan, New Faculty introduction was given by Mr.M.Subramanian. LMS Overview was given by Mr. P.L.Navaneethakrishnan. SDT Overview was given by Mr.T.S.Ayyappan. Placement Overview was given by Mr.K.T.Shabarinathan. Students are certified with certificates for their meritorious achievement for the Best performance in Anna University Examinations Nov / Dec 2015 and Apr / May 2016 respectively and for Best project in SDT.



A part of students participated during the Even sem Orientation program

Workshop Organized

- Department organized a one day workshop on Recent Trends in Automobile Engg. for Polytechnic students on 04.08.2016
- One day workshop on CNC programming has been arranged for Polytechnic students on 30.08.2016
- One Day Workshop on Emerging Trends in Automobile Engineering has been arranged for polytechnic students on 17.02.2017, around 80 students had participated.



Our Principal Dr N.Kathiravan delivered the Presidential address during the workshop

- One day workshop on CNC Programming has been organized for polytechnic college students on 01.03.2017. Around 60 students had participated.

Seminar conducted

- A seminar has been conducted on Edge CAM for Mechanical Engineering students on 12.11.2016
- A National level ISRO sponsored seminar on Challenges and Issues in Solar & Wind Energy Resources has been conducted at Seminar hall on 11.01.2017

Guest lecture Delivered

- Our department organized guest lecture associated with EduCAX - Graphler Technology Solutions on the topic of Computational Fluid Dynamics for III Year & IV Year Students on 03.08.2016, 04.08.2016 & 05.08.2016.



Mr.Ramesh from EduCAX - Graphler Technology Solutions addressed the gathering on CFD

- Axis Global Automation delivered a guest lecture Industrial Automation and Robotics for IV Year Students on 09.08.2016, 10.08.2016 & 11.08.2016.
- Guest lecture was arranged 'Career Opportunities in Logistic and Shipping' on 10.08.2016.
- Petroleum Conservation Research Association (PCRA), Chennai provided Guest Lecture on 'Energy Conservation' on 25.03.2017 II and III Year Mechanical Engineering Students
- ARRIS CADD Technology had given Guest Lecture on 'Aerodynamic Design and Collision Test of Vehicle using ANSYS on 21.02.2017 & 22.02.2017 for III Year Students.



Resource person from ARRIS CADD addressed the gathering

Training

- Our department gave Special Training on 'AutoCAD' on 06.03.2017
- Special Training on 'SOLIDWORKS' given for our students on 07.03.2017

- Special Training on ‘ANSYS’ given for our students on 08.03.2017
- Special Training on ‘LabVIEW’ given for our students on 14.03.2017
- Special Training on ‘EdgeCAM’ given for our students on 15.03.2017

Association activities

- Mr.J.Noelraj, Team leader Marketing, Trident Pneumatics, Pvt. Ltd., have Inaugurated the Mechanical Engineering Association on 14.07.2016
- AIT Alumni Mr.M.Ravindra Kumar Sharma working as Manager – P.V.Products, BOSCH, Bangalore gave motivational talk to the final year students on 23.07.2016.
- Association organized Intra College Paper Presentation Contest “Application of Mathematics in Engineering” on 10.09.2016.



Winners of presentation were awarded with merit certificate by our Prof Dr.M.Natarajan and Prof.K.Anganan.

- Mr. Marco Matarando, Project Quality Engineer, ATV Advanced technology valve, Italy had an interactive session with students about Product development on 01.02.2017.
- Association organised a motivational talk “Vanga Pesalam” featured and delivered by speech by a speaker Mr.Giri.



Mr Giri addressing the Motivational speech.

- Association jointly with Max CADD conducted a Free Aptitude Contest ‘MATE 2017’ for our department students on 16.03.2017.

Faculty Achievements

Consultancy

- Dr M.Natarajan has continued his consultancy work at M/s Trident Pneumatics pvt. Ltd. Coimbatore and he has successfully completed his consultancy under new product development and generated revenue of Rs.96, 000/- in the academic year 2016-17.

Publications

- Mr B Charles, Mr P.L Navaneetha Krishnan and Mr M.K Sathish Kumar have published paper titled “Bio-Diesel Burner Design for Rural Thermal Application” in International Journal for Scientific Research & Development - IJSRD.
- Mr B Charles, Mr P.L Navaneetha Krishnan and Mr M.K Sathish Kumar have published paper titled “Investigation on Performance and Emission Characteristics of Biodiesel Blends Extracted from Trash Fish Oil” in International Journal for Scientific Research & Development - IJSRD.
- Mr B Charles, Mr P.L Navaneetha Krishnan and Mr M.K Sathish Kumar have published paper titled “Effect of Direct Water Injection on Performance and Emission Characteristics of Diesel Engine Fuelled with Bio Diesel and Hydrogen Fuelled with Bio Diesel and Hydrogen” in International Journal of Science Technology & Engineering - IJSTE.
- Mr R.M Udhaya Chandran, Mr B Umesh, Mr K.T Shabarinathan and Mr A Karthick has published paper titled “A Study on Mechanical Properties on LM6 Aluminium Alloy by Varying Magnesium (Mg) Content using Stir Casting” in Journal of Emerging Technologies And Innovative Research (JETIR).
- Dr N Kathiravan and Mr D.Palanisamy has published paper titled “Optimizing Biogas from Food Waste using Neural Network Model” in Proceedings of the Institution of Civil Engineers - Municipal Engineer.

- Dr N Kathiravan and Mr D.Palanisamy has published paper titled “Optimizing the Supercharger Effect on the Performance and Emission of Biogas Diesel Engine using ANFIS” in Asian Journal of Research in Social Sciences and Humanities.
- Mr P Mohanraj and D Ramesh Kumar has published paper titled “Design and Analysis of Rotavator Blades for its Enhanced Performance in Tractors” in Asian Journal of Applied Science and Technology (AJAST)
- Mr P Mohanraj and D Ramesh Kumar has published paper titled “Filler Material Reinforced with Natural Fiber of Mechanical Properties and Microstructure Analysis for Preparing Perfect Fiber” in Asian Journal of Applied Science and Technology (AJAST)
- Mr P Mohanraj and D Ramesh Kumar has published paper titled “Review on Natural Fiber in Various Pretreatment Conditions for Preparing Perfect Fiber” in Asian Journal of Applied Science and Technology (AJAST)
- Mr D Palanisamy has published paper titled “CFD Analysis for Homogenous Effect of Biogas and Air in the Intake Manifold of Dual Fuel CI Engine” in International Journal of Advanced Engineering Technology.
- Mr B Shanmugasundaram has published paper titled “Design and Development of TDOF System with PD Controller for Turning Operation” in Asian Journal of Applied Sciences.
- Mr B Shanmugasundaram has published paper titled “Design and Development of Two Degree of Freedom Model with PID Controller for Turning Operation” in Journal of Measurements In Engineering.
- Mr B Shanmugasundaram has published paper titled “Smart Turning Rule Feedback Controller for Chatter Suppression in Magneto-Rheological Fluid Based Turning Process Application” in International Journal of Printing, Packaging & Allied Sciences.
- Mr M Subramanian has published paper titled “Parametric Optimization of Micro Deep Drawing Process using FEM based Taguchi Method” in Asian Journal of Research in Social Sciences And Humanities.
- Mr R.M Udhaya Chandran, Mr B Umesh has published paper titled “Study of Aluminium Rod using Portable Wear Testing Machine” in Journal of Emerging Technologies And Innovative Research (JETIR).

University Result

Semster	Appreared	Passed	Percentage
3 rd	166	41	24.70
4 th	-	-	-*
5 th	134	48	35.82
6 th	-	-	-*
7 th	181	108	59.67

8 th	-	-	-*
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*Even semester examination will commence on 17th April 2017 onwards

Placement records

11 of our final year B.E. Mechanical Engineering students got placement

Students Achievements - Co curricular

Name of the Student	Institution Name	Event	Prize Won
Mohan Prasanth K	Sri Krishna college of technology	Cad modelling	1
Mohan Prasanth K	Sri Ramakrishna engineering college	Mr. Mequest	1
mugundan S	INFO institute of engineering	Project expo	1
J S Rohit kumar	INFO institute of engineering	Project expo	1
Mannoj Samy IS	INFO institute of engineering	Project expo	1
Mohan Prasanth K	INFO institute of engineering	Project expo	1
Mohan S	INFO institute of engineering	Project expo	1
Dharmesh Kumar R	INFO institute of engineering	Tech connection	1
Mohan S	Sri Ramakrishna Institute of technology	Poster presentation	1
Nivash P	Sri Ramakrishna Institute of technology	Tech enigma	1
Nivash P	Sri Ramakrishna Institute of technology	Tech enigma	1
Mohan S	SNS college of technology	Best project	1
Mohan Prasanth K	SNS college of technology	Best project	1
Mohan Prasanth K	Sri ramakrishna college of technology	Cad modelling	1
K Mohan Prasanth	Hindustan institute of technology	Project expo	2
S Mohan	Hindustan institute of technology	Project expo	2
S Mugundan	Hindustan institute of technology	Project expo	2
A Sandeep aathavan	Hindustan institute of technology	Project expo	2
B Naveen	Hindustan institute of technology	Project expo	2
Kathirvel R	M Kumarasamy college of engineering	Paper presentation	2
Dharmesh Kumar R	INFO institute of engineering	Poster presentation	2
Esakkiraj E	Kumaraguru college of technology	CAD clash	2
Dharmesh Kumar R	TIPS global institute	Market skethra	3

Students Project

- 49 Batches of students had successfully completed their Final year project under our faculty guidance

Funded projects /Schemes Applied

- Our department Mr.B.Shanmugasundaram and Mr.M.Subramanian has applied a proposal and got approved on Vibration Control in Machine Tools to TNSCST.

- Our department Prof.Dr. M.Natarajan and P.L.Navaneethakrishnan has applied a proposal on Effective energy utilization in green building to TNSCST.
- Our department Dr.K.Senthilkumar and Mr.B.Umesh has applied a proposal Challenges and Opportunities in installing “On-Grid” solar PV panel to TNSCST.
- Our department Mr.D.Palaniswamy and Mr.T.T.Sathish kumar has applied a proposal New Challenges in Product Development to meet the global requirements to TNSCST.
- Our department Mr.V.Ganesh and Mr.RM Udhaya Chandran has applied a proposal Design and fabrication Semi-automatic floor cleaner to TNSCST.
- Our department Mr.G.Prabhu and Mr.M.Ramar has applied a proposal Design and development of automated variety rice maker to TNSCST.
- Our department Mr.K.Anganan and Mr.T.S.Ayyappan has applied a proposal Design and development of portable wear testing machine to TNSCST.
- Our department Mr.P.Mohanraj and Mr.D.Rameshkumar has applied a proposal Challenges and Opportunities in installing “On-Grid” solar PV panel to MNRE.
- Our department Mr.S.Vijayakumar and Mr.A.C.Ramkumar has applied a proposal Application of solar thermal energy for heating and drying in food processing industries to MNRE.
- Our department Mr.K.T.Shabarinathan and Mr.B.Charles has applied a proposal Establishment of Entrepreneurship Development Cell to AICTE.
- Our department Mr.V.T.Vijayaraj and Mr.A.Prabhu has applied a proposal Cryogenic Technology in Space Applications to ISRO.
- Our department Mr.M.K.Sathish kumar and Mr.S.Muthusaravanan has applied a proposal EAC to NSTEB.