

2017

NEWS LETTER

Medallions News
Volume 4 - April '17



**DEPARTMENT OF
MECHANICAL ENGINEERING**

NANDHA ENGINEERING COLLEGE
(AUTONOMOUS)



Vision

To be a premier centre for learning in Mechanical Engineering in the country.

Mission

To offer state-of-the-art undergraduate, postgraduate and research programmes in engineering.

To develop skilled and employable graduates to meet the challenges in emerging fields of Engineering.

To encourage Research & Development in the thrust areas of engineering



***Dr. N. RENGARAJAN, Ph.D.,
Principal – NEC***

It is my pleasure in congratulating the Department of Mechanical Engineering on the pleasant occasion of releasing the newsletter for the period 2016-2017. It is great to find a considerable number of winners and participants in co-curricular and extra-curricular activities which certainly prove that our faculty members and students are adequately equipped and possess the necessary skill sets to bring such laurels to the institution. I wish that this number may grow in the years to come. I am sure that publishing a newsletter containing the achievements will be recognition to hard work and I wish them all the very best for future endeavors.



***Dr. M. EASWARAMOORTHY, Ph.D.,
Professor and Dean - Mech***

Welcome and best wishes to all the friends of the department who receive this Newsletter. It has been an interesting and busy semesters for members of the Department. It gives me a great opportunity to present the third issue of "Medallions News-16". This internal newsletter is one of the ways in which we can disseminate information on the life of the Department. The past semesters were full of various activities by the students and faculty in academic, co-curricular, extra-curricular as well as research and developments. As you read through the pages you would realize, that the department had a successful semester. I would like to thank all my colleagues for their tireless efforts to help the department progress at a very steady pace.



***Prof. M.K. MURTHI, M.E. (Ph.D.)
HoD- Mech.***

Welcome and best wishes for all the faculty members and Students of the department who receive this newsletter. It has been interesting and busy year for the members of the department, with a number of successful events including Guest Lecture, Workshop, National Level Conference and Symposium. I invite all the readers of this newsletter to share this with your friends and contribute more for 2016-2017 newsletters.

ABOUT MEDALLIONS NEWS

The Medallions news is the voice of Mechanical Engineering; it is a newsletter from the department of Mechanical Engineering which mainly focuses on the day-to-day happenings in the department. It speaks and visualizes the events happening in the department and the participation of students in various inter and intra college events. It encourages and brings out the talents of students in various fields.

ABOUT DEPARTMENT OF MECHANICAL ENGINEERING

Mechanical Engineering is the core branch of Engineering and Technology, which plays an important role in the industrial growth of the nation. The department has well-equipped laboratories. Besides high quality teaching, the practical knowledge of students is enhanced through expert lectures by eminent persons from industry, and exposing them to industrial activities by industrial visits, Inplant training etc. Department has a team of dedicated faculty members, who strive hard to achieve the department's vision and mission in all aspects, the department creates flexible and innovative learning opportunities for students enabling them to enhance theoretical and professional skills. The department had been pioneering many quint-essential activities which leads to the development of the college. Final year U.G. and P.G students have presented and published technical papers based on their projects in National, International journals and conferences.

INFRASTRUCTURE

The department is equipped with 12 diversified laboratories to cater the needs of the students and covering the curriculum specified by Anna University.

LABORATORY FACILITIES

- | | | |
|---------------------------------|------------------------------------|----------------|
| ➤ THERMAL ENGINEERING LAB | ◊ FLUID MECHANICS LAB | ➤ PG CAD LAB |
| ➤ HEAT POWER ENGINEERING LAB | ◊ ENGINEERING PRACTICES LAB | ➤ CAD CAM LAB |
| ➤ MECHATRONICS LAB | ◊ MANUFACTURING TECHNOLOGY LAB- I | ➤ DYNAMICS LAB |
| ➤ METROLOGY AND MEASUREMENT LAB | ◊ MANUFACTURING TECHNOLOGY LAB- II | ➤ RESEARCH LAB |



Save Water For Future Generations..

ASSOCIATION INAUGURAL FUNCTION

Mr. D. Eregamani, AGM, Corborundum Universal Ltd. (A unit of Murugappa Group), Hosur has addressed Nandha Engineering College (Autonomous), Mechanical students on 20.08.2016 during the inaugural function of Society of Mechanical Engineer. Thiru.V.Shanmugan, Chairman, Sri Nandha Educational Trust, presided over the function. Dr.N.Rengarajan, Principal, Dr.S.Arumugam,CEO, Thiru.S.Nandhakumar Pradeep, Secretary, Sri Nandha Educational Trust, Thiru.S.Thirumoorthi, Secretary, Nandha Educational Institutions felicitated the gathering and Dr.M.Easwaramoorthi Professor and Dean, delivered welcome address, Prof.M.K.Murthi, HoD introduced the chief guest.



Group Photo of Office bearers with Dignitaries.

Chief Guest's interaction with students mainly focused on 'Employability and Employable Skills'. "In order to become an Engineer, it is necessary to have innovative thinking and creativity, said Eregamani. According to Mr. D.Eregamani, all big industrial problems need a simple idea but they need to be developed accurately with lateral thinking. From the Industry point of view, Eregamani said that never become an engineering graduate, be an Engineer.

Also he motivated students to be a job provider rather than job seeker.

Prof. M. Muthukumar, proposed vote of thanks. Students and Faculty members actively participated in the function and interacted with resource person Mr. D.Eregamani.

ACADEMIC SEMINAR

The Department of Mechanical Engineering of Nandha Engineering College, Erode, has organized a seminar on "Recent Research in Aerospace Materials and Manufacturing Process" on 2nd July 2016.

Thiru.V.Shanmugan, Chairman, Sri Nandha Educational Trust, presided over the function. Dr.T.Ram Prabhu, Assistant Director / Science (Materials and Manufacturing Process) Defense R& D organization (DRDO), Ministry of Defense Govt. of India, Bangalore, was the guest speaker for the session. He highlighted the Recent Research in Aerospace Materials and Manufacturing Process. He concluded the seminar with the research opportunities available in DRDO for mechanical engineers.



Dr.T.Ram Prabhu interacting with Students

Dr.N.Rengarajan, Principal, Dr.S.Arumugam, CEO, Thiru. S.Nandhakumar Pradeep, Secretary, Sri Nandha Educational Trust,

Thiru. S.Thirumoorthi, Secretary, Nandha Educational Institutions and Dr.M.Easwaramoorthi Professor and Dean, Department of Mechanical Engineering felicitated the gathering.

Prof.M.K.Murthi, Head of the Department of Mechanical Engineering, proposed the vote of thanks. Students and Faculty members actively participated in the lecture and engaged energetically in question answer session.

ONE DAY INDUSTRIAL SEMINAR

The Department of Mechanical Engineering of Nandha Engineering College, Erode, has organized a seminar on “GEARING UP YOUR CAREERS FOR THREE YEARS” on its premises recently. Thiru.V.Shanmugan, Chairman, Sri Nandha Educational Trust, presided over the function. Mr.S.Dwaraganathan, M.S., MBA., was the guest speaker for the session. He spoke about the behavior and tips for improving characters in relation with professional life and interview tips for students. He highlighted importance of Mechanical Engineering and its vital role in our day to day life and importance of time management. He concluded the seminar stressing importance to creativity in the field of engineering.

Dr.N.Rengarajan, Principal, Dr.S.Arumugam, CEO, Thiru. S.Nandhakumar Pradeep, Secretary, Sri Nandha Educational Trust, Thiru. S.Thirumoorthi, Secretary, Nandha Educational Institutions and Dr.M.Easwaramoorthi Professor and Dean, Department of Mechanical Engineering felicitated the gathering. Prof.M.K.Murthi, Head of the Department of Mechanical Engineering,

the vote of thanks.



Mr.S.Dwaraganathan, M.S., MBA shared his experience

ONE DAY NATIONAL LEVEL SEMINAR

One day National Level Seminar sponsored by ISTE (Indian Society for Technical Education) on “Solar Thermal Cooling System” has been organized by the Department of Mechanical Engineering, on 21st Feb 2017. **Thiru.V.Shanmugan**, Chairman, Sri Nandha Educational Trust, presided over the function. **Dr.N.Rengarajan**, Principal, **Dr.S.Arumugam**, CEO, **Thiru. S.Nandhakumar Pradeep**, Secretary, Sri Nandha Educational Trust, **Thiru.S.Thirumoorthi**, Secretary, Nandha Educational Institutions felicitated the gathering. **Dr.M.Easwaramoorthi**, Professor and Dean, along with **Prof.M.K.Murthi**, HoD and other faculty members participated in the seminar. The Chief Guest, Dr. P. Selvakumar, Assistant Professor (Senior), Mechanical Department, Kongu Engineering College provided his technical lecture on the Solar Thermal Cooling System. He explained the role of Renewable energy sources in the welfare of human beings. He provided the technical details of various Solar assisted low cost cooling systems. Dr. Selvakumar encouraged the students to do their projects and researches related to solar energy systems.

He also stressed the need of considering solar energy as a viable option for a developing country like India. Mr.K.PradeepKumar Assistant Professor proposed the vote of thanks. Students and Faculty members actively participated in the function and interacted with resource person.



Honoring the chief guest by dignitaries

INDUSTRIAL SEMINAR

Society of Mechanical Engineers has organized an industrial seminar on 23-09-2016. Dr. M. Easwaramoorthi, Professor and Dean, Department of Mechanical Engineering, inaugurated the seminar.



Honoring the chief guest by Dr.N.Rengarajan, Principal

Mr.K.A.Gowtham B.E., HBD Trainer was the chief guest of the occasion. The expert shared their experience.

ACADEMIC SEMINAR

Academic Seminar on “Nano Technology and Various Characterization Techniques” by Dr. T.S.Senthil, Prof & Head Centre for Nano Technology & Crystal growth,- Department of Physics, Erode Sengunthar Engineering College, was arranged on 30-09-2016 at Conference Hall, Nandha Engineering College.



Participated students during the Academic seminar

WORKSHOP ON 3D PRINTING

One day National level workshop titled “3D printing A Hands-on-Workshop” was organized on 10.09.2016 at 10.00 a.m. at conference hall by Department of Mechanical Engineering. D.Mahesh Business Manager, V Engineering Solution, Coimbatore, was the chief guests who graced the occasion. The chief guests shared the stage along with the Management and Administration members of Nandha Engineering College. Thiru.V.Shanmugam, Chairman, Sri Nandha Educational Trust delivered the Presidential address and the key note address was given by Dr. N. Rengarajan, Principal, Nandha



Engineering College. Dr.M.Easwaramoorthi Dean, Mechanical Engineering welcomed the gathering. The chief guests was introduced by Prof.M.K.Murthi HOD, Department of Mechanical Engineering.

The lecture was delivered to Mechanical Engineering Students and participants from various institutions. The workshop provided a live working demo of how a component is manufactured using 3D printing technology. The workshop provided a very good understanding about the function and working of an emerging technology. The lecture also highlighted the various areas of research that is being carried out in the field of 3D printing there by providing an area of future work for the students.



D.Mahesh Business Manager, V Engineering Solution, Coimbatore.

ISTE ONEDAY SEMINAR

The Department of Mechanical Engineering and Indian Society for Technical Education (ISTE) of

Nandha Engineering College, Erode, has organized a seminar on “**Vehicle Development Methodology**” on 6th October 2016. **Thiru.V.Shanmugan**, Chairman, SriNandha Educational Trust, presided over the function. **Mr.VigneshParthasarathy**, Assistant Manager,R & D (Body Design), Yamaha Motor Research & Development India Pvt. Ltd, Delhi. was

the guest speaker for the session. He highlighted Clay Modeling Developments in the Manufacturing Process. He concluded the seminar with the opportunities available in Automobile industry for mechanical engineers.

Dr.N.Rengarajan, Principal, **Dr.S.Arumugam**, CEO, Thiru.S.Nandhakumar Pradeep, Secretary, Sri Nandha Educational Trust, **Thiru. S.Thirumoorthi**, Secretary,Nandha Educational Institutions and **Dr.M.Easwaramoorthi** Professor and Dean, Department of Mechanical Engineering felicitated the gathering. **Prof.M.K.Murthi**, Head of the Department of Mechanical Engineering, proposed the vote of thanks. Students and Faculty members actively participated in the lecture and engaged energetically in question answer session.



Group Photo of ISTE Office bearers with Dignitaries

INDUSTRIAL SEMINAR

The Department of Mechanical Engineering of Nandha Engineering College, Erode, has organized a industrial Seminar on “**Job Opportunities in Abroad**” on 22nd September 2016. **Thiru.V.Shanmugan**, Chairman, Sri Nandha Educational Trust, presided over the function. **Mohan Govindasamy**, Assistant Manager, Business strategy and Development, **Hitachi Systems Ltd, Tokoyo, Japan**, was the guest speaker for the session.

He explained job opportunities available in Japan for Mechanical Engineers and way of approach to get job in Japan. **Dr.N.Rengarajan**, Principal, **Dr.S.Arumugam**, CEO, Thiru.Nandhakumar Pradeep, Secretary, Sri Nandha Educational Trust, **Thiru.S.Thirumoorthi**, Secretary, Nandha Educational Institutions and **Dr.M.Easwaramoorthi** Professor and Dean, Department of Mechanical Engineering felicitated the gathering.

Prof.M.K.Murthi, Head of the Department of Mechanical Engineering, proposed the vote of thanks. Students actively participated in the lecture and engaged energetically in question answer session.



Honoring the chief guest Mohan Govindasamy by Dr.M.Easwaramoorthi, Dean/Mech.

ACADEMIC SEMINAR

Academic Seminar on “Applications of Calculus in Building and Mechanical Science” by Prof. R.Sahadevan, UGC Emeritus Fellow, Former Director and Head, Ramanujan Institute, University of Madras, Chennai, was arranged on 01-02-2017 at Conference Hall, Nandha Engineering College.



Honoring the chief guest by dignitaries

PERSONALITY DEVELOPMENT PROGRAM FOR STUDENTS

The Department of Mechanical Engineering and Rotract club of Nandha Engineering College, Erode, has organized personality development program for students on “Leadership Skill Development” on 23rd September 2016. **Mr.Jc.K.A.Gautham B.E., HPD Trainer Erode**, was the guest speaker for the session.

INTRA DEPARTMENT MEET

Enhances learning in both the affective and cognitive domains, to provide the opportunity for sharing of ideas and concerns. Our Department Association “Mech Medallions” conducted Intra Department Activities “WARFARE’16”. Intra Department Competition on 30th September 2016 through 172 students was participated from our Department.

NEYAM SOCIAL CLUB ACTIVITIES

Neyam social club of Mechanical Engineering Department in Nandha Engineering College conducted a program at blind school, Perundurai. Prof.M.Shanmugam welcomed the gathering and explained the activities of the program. Head of the Department Prof.M.K.Murthi and Coordinator of the

Neyam Social Club Mr.B.Velliyangiri have distributed the Sweets and snacks to Udhavum Ullangal Trust. At the end of this program the persons expressed their happiness to all the faculty members and students. The Chairman of Nandha Educational Trust Mr.V.Shanmugan and Secretaries of the Trust Mr.S.Nandhakumar Pradeep and S.Thirumoorthy, Principal Dr.N.Rengarajan and Dr.M.Eswaramoorthi, Dean of Mechanical engineering delivered their wishes and congratulations to the coordinator and the student members of Neyam Social Club.



Prof.M.K.Murthi distributed the contributions to Udhavum Ullangal Trust

National Level Technical Symposium

Department of Mechanical Engineering conducted one day National Level technical Symposium on “Mech Medallions ‘17” on 17th March 2017. Welcome Address was given by Mr.A.Imraan, Associate Secretary, SOME.

Thiru. V.Shanmugan, Chairman, Sri Nandha Educational Trust, delivered the presidential Address. Key note address was given by Dr.N.Rengarajan, Principal, Nandha Engineering College.

Felicitiaion address was given by Dr.S.Arumugam, CEO, Nandha Educational Institutions, Thiru. S.Nandhakumar Pradeep, Secretary,

Sri Nandha Educational Trust, Thiru. S.Thirumoorthi, Secretary, Nandha Educational Institutions & Dr.M.Easwaramoorthi, Dean, Mechanical Engineering.

Prof.M.K.Murthi HOD, Mechanical Engineering introduced the Chief Guest Thiru P.M. Raghu Manager quality control M/s Agni steels private Limited, Perundurai. He released the souvenir of the symposium and delivered the Chief Guest address.



Release of the symposium Souvenir by the Chief Guest

The Thiru P.M. Raghu Manager quality control M/s Agni steels private Limited, Perundurai, Shared his experience with the students. Also stressed students to convert knowledge and positive attitude into skill and then the skills into habits. He highlighted the building strong linkage with the industry and also to promote the interaction between academia and industry by organizing industrial visits, projects in industry and special lectures. He also outlined the challenges faced inside industry. He briefed about the roles of learning other language which help to enter in MNC's and asked the students to develop their working skill and learn to work overtime shift. He added, motivated the students regarding the development in the Mechanical

The country doesn't deserve anything less than success from us. Let us aim for success.



field and to make them self ready for the upcoming target in their life.. Finally the vote of thank was proposed by Mr.V.Deepan Raj, Join Secretary, SOME.

DEPARTMENT CLUB ACTIVITIES

The Department of Mechanical Engineering and Automation club of Nandha Engineering College, Erode, has organized personality development program for students on “**Leadership Skill Development**” on 28th January 2017. Mr. A. Anbu, Application Engineer, Axis Global Automation Coimbatore, was the guest speaker for the session.



Mr. A. Anbu shared his experience

ENTHIRA KALAAI

ENTHIRA KALAAI is the form of metal sculpture with the assemblage of scrap materials. The scrap materials consist of bike sprockets, gears, spark plugs, chains, sheet metal, wire strings, bearing, nut, bolts, pistons, connecting rods and MS pipe. Manufacturing setup consist of two phases. Skeleton structure has been fabricated with MS square rods, MS flat, sheet metals. The second phase consists of fixing gears and sprockets, chains over the skeleton structure. The net weight of the Enthira Kalaai is around 275 kilogram. The process for the Enthira Kalaai was started from the last January. It took around 14 days to complete the structure of the Enthira Kalaai. The manufacturing cost of this sculpture was around Rs. 22,000. We are happy to present this creative sculpture of Enthira Kalaai as a

memory of Jallikkattu. The team member involved in that sculpture were V.Tony A.Imraan, P.Lalith kumar, Harish kumar, S.Gokul, V.Deepan raj, M.Gopi,



Chief Guest Kathikeya siva senapathy with “Enthira Kalaai”

INTERNSHIP RECRUITMENT

B.E Mechanical Engineering students are eligible to pursue internship for duration of one year in the industry starting from July to July. Internship stipend paid by these companies range from Rs. 10,000 to 20,000 Per Month. Based on the performance of the students in the internship the students will be absorbed and offered full time employment option by the end of their internship period. This year companies like Fortuna Engineering, AEE BEE , M/s Sai Sharan Electronics, M/s Rabwin Industries Pvt Ltd., M/s Shree Harie Steel and Alloys, M/s Sri Kumar Engineering Works, A.P. Engineers, Rengarajan Power plant, Apex Industries, Coimbatore, etc.,

INDUSTRY AND INSTITUTE INTERACTION

Numerous initiatives aiming at promoting interaction between the department and the industries are taken. This will have a great bearing on the Engineering Curriculum, exposure of industrial

atmosphere to engineering students and subsequent placement of young graduating engineers in industries across the country. These objectives have been fulfilled by having fruitful partnerships with a few reputed industries.

IN-PLANT TRAINING

The industrial visit is considered one of the most tactical methods of teaching. It provides students an opportunity to learn practically through interaction, working methods and employment practices. Moreover, it gives exposure from an academic point of view. In-Plant training is being made compulsory for Mechanical Engineering students during summer vacations. This not only helps the students in acquiring knowledge about new technologies but also acts as an insight into management aspects. Students are expected to undergo training for a period ranging from 15 days to one month in an industry and submit a detailed report for evaluation after completion of their training in the following companies,

Shri Senthil Andavar Machine Works, Tirupur,
Mec Engineering Works, Tirupur, Diesel LOCO Shed,
Southern Railway Erode, UNIQ Technologies,
Chennai, Ambal Autos Ooty, Super Automobile And
Engineering Works, Tirumala Press Components PVT
Ltd, Chennai, Kathir Motors, Gobichettipalayam,
Indian Rare Earths Ltd, Kollam Kerala, Periyasamy
Hydraulic Equipments, Tirupur, Penninsula Engineers
Texstar, Coimbatore, Venkatachalam TVS, Kovilpatti,
Code Binding Technologies Chandran Graphic Tool,
Tirupur ,Emmppe Associates Ambal Autos
Coimbatore, SPB Alloys Steel PVT. Ltd, Coimbatore,
Paranthaaman Exporters, Perundurai, Subavalar
Industries, Venbro Polymers.

ONE CREDIT COURSES AND LANGUAGE ELECTIVES

Department of Mechanical Engineering initiated a new way of enhancing the industrial – scholar interaction through a system known as one credit course which brings in the industrial experts to interact with the students delivering a narrow syllabus targeting the skills required in industries. The course duration was 16 hours and the student's performance during the course was evaluated with a written exam. For Third Year students, courses on Low Cost Automation was conducted during the fifth semester. The courses were delivered to the students by S.Naresh Senior Application Engineer, Axis Global Institute of Industrial Training, coimbatore. For Second Year, a course on CNC Machines and programming techniques was conducted during the Third Semester. The courses were delivered to the students by Malleswaran.K Program Director, Perfect CNC Education Centre, Coimbatore .Similarly for Final year a course on Geometric Dimensioning & Toleranceing was conducted during the Seventh Semester. The courses were delivered to the students by Mr.P.K.Vijayan, GEEDEE Technical Training Institute, Coimbatore.. Also In order to prepare the students for the global environment Department of Mechanical Engineering also provides special language classes on Hindi, German and French.

INDUSTRIAL VISIT

In relation to the academics, in every semester the students are visiting to various industries to develop their knowledge and to learn about the Industrial process what they are doing in their Industries. This will help them in getting job opportunities at industries.

Our Students visited the following Companies.

Third year B.E. Mechanical (A,B and C Section) students have visited TNPL, Karur, on 17.09.2016.

Second year B.E. Mechanical (A, B & C Section) students have visited Hmt Machine Tools Limited, Kalamassery, on 23.07.2016.



Second Year students visited HMT Machine Tools

Final year B.E. Mechanical Engineering students have visited Tenneco Automotive India Ltd., Hosur on 22.07.2016



Final Year students visited Tenneco Automotive India

Second year B.E. Mechanical (A, B & C Section) students have visited VST Tillers Tractor Ltd., Bangalore, on 24.03.2017.

Third year B.E. Mechanical (A, B and C Section) students have visited JVS Electronics Ltd., Bangalore, on 24.03.2017.



VALUE ADDED COURSE

Training is always like an investment which should be carefully considered. Mechanical department offers training courses for students in their semester holidays that deal with designing and production in all classes.

“ANSYS” course has been conducted by the following faculty team members. Mr.V.N.Loganathan, Mr.S.Eswaran, Mr.B.Vellingiri, Mr.M.A.Omprakas Mr.M.Manikandan & Mr.R.Vinoth, from 04.07.2016 to 07.07.2016 for 209 students.

“Solid Works” course has been conducted internally by Mr.G.Kannan, Mr.K.Pradeep kumar, Mr.A.Karthy, Mr.M.Sengottaiyan, Mr.R.Arjun raj, Mr.S.Gajendiran from 08.07.2016 to 10.07.2016 for 204 students.

“Geometric Dimensioning and tolerancing” course has been conducted internally by Mr.V.Chandramohan, Mr.T.Venkatesan, Mr.M.Sugumar, Mrs.A.D.Latha, Mr.G.Kannan and Mr.R.Arjunraj , from 05.01.2017 to 07.01.2017 for 204 students.

CNC Programming “course has been conducted internally by Mr.M.Shanmugam, Mr.M.Balakumara, Mr.D.Ravichandran, Mr.A.Karthy, Mr.B.Velliyangiri & Mr.K.Ganesan on 09.01.2017 and 10.01.2017 for 203 students.

If the mind is intensely eager, everything can be accomplished – mountains can be crumbled in to atoms.



PLACEMENT AND CAREER GUIDANCE

The Placement and Training centre of our institution is headed by Thiru. S.Thirumoorthi, Secretary. The centre organizes various training programs, like mock interviews, personality development courses, seminars, group discussions, invited talks and road shows of prospective employers. This will help students to achieve success in the placement.

90% of Mechanical Engineering students have been selected through placement drive by the following companies.

Tech Mahindra, NS Instruments, Young Mind Solutions, OM Innovation Call Services Pvt. Ltd, Aagna Corporate Services, TCS, Saran Solar Solutions, Saraswathi Automation, GK Engineering, Sundarapuram, Coimbatore, Tenneco Automotive India Pvt Ltd, Classic Engineering, Universal Power Corporation, Sipcot Industrial Growth Centre, Dollar Industries Ltd, CADD centre training services etc.,

AWARDS AND ACHIEVEMENTS

STUDENT ACHIEVEMENTS & AWARDS

➤ Mr.S.DineshKumar of Final year Mechanical Engineering, has won Gold medal in “SNIPER ELITE-3” conducted by NCRC (North Calcutta Rifle Club) held at New Delhi on 18.06.2016. He was one of the participants who represented Indian Navy in the competition and other competitors included members from Indian Army, US Army and Pentagon Forces.

➤ Mr.S.DineshKumar of Final year Mechanical Engineering has won “BST” (Best Task Killer) award in an exercise conducted by NATO forces in UK and Netherlands from Jan 10th to Jan 21st 2017. He has outshone more than 600 candidates from 16 different countries for the award.



Mr.S.DineshKumar recipient of the BST award.

➤ Mr.S.DineshKumar of Final year Mechanical Engineering was honored by the collector of Erode district at VOC Park during the republic day celebration and parade, for his commitment and hard work in winning the “BST” award representing India, awarded by NATO forces.



Erode district Collector honoring Mr.S.DineshKumar

ISTE BEST STUDENT AWARD

Mr.V.Tony of Final year Mechanical Engineering was awarded the “Best Student Award” on 04.03.17 PSNA College of Engineering and Technology, Dindugal. The award was awarded by ISTE Tamilnadu and Pondicherry Section during the 16th ISTE Annual Engineering Student Convention. He received the award for his overall performance in academics, extracurricular and involvement in ISTE chapter activities of Nandha Engineering College.



ISTE Best Student Award



➤ Mr.R.Siranjeevi, Mr.Varun, Mr. Vishnu and Mr.Susintha of Final year Mechanical Engineering was awarded the “Best Innovation Award” on 15.03.17 at KSR Institute engineering and Technology at Thiruchengode .

➤ Mr.S.Bharaneedharan, of First year Mechanical Engineering was awarded the “Best Student Award” on 26.03.2017 at Top Engineers Student and Faculty Awards-2017 at Pondicherry.

➤ Mr.V.Tony, of Final year Mechanical Engineering was awarded the “Best outstanding Student Award” on 26.03.2017 at Top Engineers Student and Faculty Awards-2017 at Pondicherry.

➤ Mr.R.Gobikrishnan, of First year Mechanical Engineering was awarded the “Best Sprit Award ” on 26.03.2017 at Top Engineers Student and Faculty Awards-2017 at Pondicherry.

➤ Mr.P.Sivasankar, of Third year Mechanical Engineering was awarded the “Best Student Award” on 26.03.2017 at Top Engineers Student and Faculty Awards-2017 at Pondicherry.

FACULTY ACHIEVEMENTS & AWARDS

➤ Dr.M.Easwaramoorthi Honored by Mr. Cuneyt L. Oge, SAE International President (USA) for the Contribution towards formation of KRT club at Nandha Engineering College.



➤ Prof. M.K. Murthi Head of the Department was awarded the “Best Outstanding Faculty Award” by Top Engineers Student and Faculty Awards-2017 , Pondicherry. The award was presented based on his outstanding performance and optimum dedication towards the educational community.



➤ Dr.M.Easwaramoorthi Certified as Chartered Engineer (India) by IET.

➤ Dr.M.Muthukumar completed PhD., academic year 2016-2017. Under the title of scaling up studies on water management issues for performance enhancement of proton exchange membranes Fuel Cell.

➤ Dr.M.Muthukumar was awarded the “Best Outstanding Faculty Award” by Top Engineers Student and Faculty Awards-2017, Pondicherry. The award was presented based on his outstanding performance and optimum dedication towards the educational community.



➤ Dr.M.Easwaramoorthi Program Committee Member in AT2E 2017 International conference on Advanced Technologies Enhancing Education (ICAT2E2017) Qingdao China.

➤ Dr.M.Easwaramoorthi & K.Pradeep kumar have Received seminar grant from ISTE.

➤ Mr.S.Gejendhiran, was awarded the “Best Teacher Award” by Society of Professional Engineers, Chennai

➤ Mr.S.Gejendhiran was awarded the “Best Outstanding Faculty Award” by Top Engineers Student and Faculty Awards-2017, Pondicherry. The award was presented based on his outstanding performance

and optimum dedication towards the educational community.



STUDENT ACHIEVEMENTS

➤ C.M.Avinash and M.Dharun Shankar of first Year were awarded the First prize for “PAPER PRESENTATION” at Karpagam College of Engineering, Coimbatore on 03-02-2017.

➤ Mr.R.Gobi of Second Year has won the Third prize in “CAD MODELLING” at Arul Murugan College of Engineering and Technology, Karur, on 10-02-2017.

➤ Mr.M.I.Sabik Nizam of Second Year has won the Second prize in “CAD MODELLING” at Chettinad College of Engineering & Technology, Karur, on 03-03-2017.

➤ C.Sathish Kumar,S.Aravind of Third year won the First prize in “Project Presentation” at Pavai Engineering College, Rasipuram.

➤ R.Ajith Kumar. J.Venkataswaran, K.Suresh Kumar,R.Sankar of Third year won the First prize in “Project Presentation” at Sasurie College of Engineering, Uthukulli on 03-02-2017.

➤ E.Gokul Prakash, K.Divakar, L.Aravindh, A.Boopathi. of Second year won the Third prize in

“Project Presentation” at Sasurie College of Engineering, Uthukulli on 03-02-2017.

➤ S.Karthi, T.Ohmswaroop, A.Santhosh of Second year won the Fourth prize in “Project Presentation” at Vidiyal Iyakkam, Erode, on 14-02-2017.

➤ R.Kesavamoorthy, R.Mathan Kumar, C.R. Nithin, T. Poornachandran Second year won the First prize in “Project Presentation” at Vidiyal Iyakkam, Erode, on 14-02-2017.

➤ S.GJeyanth of Third Year secured the First place in “Bolts and Nuts” at Sasurie College of Engineering, Uthukulli on 03-02-2017.

➤ N.Karthick of Third Year Won the First place in “Bolts and Nuts” at Sasurie College of Engineering, Uthukulli on 03-02-2017.

➤ S.Gowtham and R.GowriShankar of Third Year were awarded the First prize for “Decesive Wizer” at Karpagam College of Engineering, Coimbatore on 03-02-2017.

➤ R.Hariharan of Third Year Won the Second prize for “Decesive Wizer” at Karpagam College of Engineering, Coimbatore on 03-02-2017.

➤ Mr.R.Gobi and Mr.I.M.Sapik Nizam of Second Year secured the Third place in “SHORT FILM” at Knowledge Institute of Technology, Salem.

➤ Mr.R.Mathan kumar and Mr.S.Krishna Moorthy of Second Year were awarded the Third prize for “PAPER PRESENTATION” at Dr.NGP College of Engineering and Technology, Coimbatore on 17-09-2017.

➤ Mr.V.Abisanth of Third Year has won the Second prize in “CAD MODELLING” at Angel

College of Engineering and Technology College of Engineering & Technology, Tirupur.

➤ Mr.T.Arun, Mr.A.C.Naveen Prasath of Third Year won the Third prize in “MXCEL 2K16” at Kongu Engineering College, Perundurai.

➤ Ms.Vidhyasree of Third Year was awarded the 1st prize in “CONTRAPTION” at KSR college of Engineering, Tiruchengode.

➤ Mr.S.Aravinth and K.G. Dheenadhayalan Third Year won the First place in “CHUTE DROP” at Professional Institute of Engineering and technology on 23.09.2016.

DEPARTMENT CLUB ACTIVITIES

SAE INDIA (SOUTHERN SECTION) KRT CLUB INAUGURATION

On 7th January 2017 Department of Mechanical Engineering, Nandha Engineering College inaugurated SAE India (southern section) KRT club at NEC conference hall. The chief guest for the function was Mr. S. Sriraman, Vice President, TAFE, Chennai, Chairman SAEISS. He introduced the KRT club members of the department along with the office bearers of the club. The function was also honored by the presence of various eminent members from SAE India (Southern Section) such as Dr.E.Rajasekar Chairman SAE India (Southern section, Erode zone), Prof. P.Navaneetha Krishnan. Head/ Mech, Kongu Engineering College. Following the inaugural function the chief guest of the day delivered a seminar on the topic “Basics of Automobile - Vehicle design”. The students were actively participated in the interaction after the completion of seminar.



Chief guests and the executive board members of SAE KRT club

FACULTY PUBLICATION DETAILS

1. Dr.M.Easwaramoorthi. has published a paper titled “Design of Automatic Slag Removal Machine for CNC Gas Cutting Process” in International Journal of Intellectual Advancements and Research in Engineering Computations.
2. Dr.M.Easwaramoorthi has published a paper titled “State of research developments in direct methanol fuel cell” in International Journal of Engineering trends and technology.
3. Dr.M.Easwaramoorthi has published a paper titled “An Experimental Investigation of Aluminium Alloy 8011 using Abrasive water-jet machining” in International Journal of Intellectual Advancements and Research in Engineering Computations.
4. Dr.M.Easwaramoorthi has published a paper titled “Factors influence performance of direct methanol fuel cell – A review” in International Journal of Advanced and Innovative research.
5. Dr.M.Easwaramoorthi has published a paper titled “Performance Analysis of PEM Fuel Cell by Varying Flow Channel Designs and Parameters” in International Journal of Intellectual Advancements and Research in Engineering Computations.
6. Dr.M.Easwaramoorthi has published a paper titled “The Effects of Machining Parameters During Face Milling of D2 Hardened Steel” in International Journal of Intellectual Advancements and Research in Engineering Computations.
7. Mr.Murthi.M.K has published a paper titled “Emission Characteristics of Variable Injection Pressure Engine with Pungai Oil and Methanol as additive” in International Journal of Intellectual Advancements and Research in Engineering Computations.
8. Mr.Murthi.M.K has published a paper titled “Emission Characteristics of Variable Injection Pressure Engine with Pungai Oil and Ethanol as a Additive” in International Journal of Intellectual Advancements and Research in Engineering Computations.
9. Mr.Murthi.M.K has published a paper titled “Emission Characteristics of Variable Injection Pressure Engine with Pungai Oil and Diethyl Ether as an Additive” in International Journal of Intellectual Advancements and Research in Engineering Computations.
10. Dr.M.Muthukumar has published a paper titled “Improving Productivity by using Lean Manufacturing Techniques” in International Journal of Intellectual Advancements and Research in Engineering Computations.

11. Dr.M.Muthukumar has published a paper titled "Factors influence performance of direct methanol fuel cell – A review" in International Journal of Advanced and Innovative research.
12. Dr.M.Muthukumar has published a paper titled "State of research developments in direct methanol fuel cell" in International Journal of Engineering trends and technology.
13. Dr.M.Muthukumar has published a paper titled "Development of Analytical model to estimate the effective thermal conductivity of two phase materials with nano particles" in Asian Journal of research in social sciences and humanities.
14. Dr.M.Muthukumar has published a paper titled "Analysis of parameters influencing the performance of PEM fuel cell by ANSYS" in International Journal of Advanced and Innovative Research.
15. Dr.M.Muthukumar has published a paper titled "Impact of pressure on the performance of proton exchange membrane fuel cell" in Journal of Advances in Chemistry.
16. Mr.Venkateshan.T has published a paper titled "A Critical Review on Solar Drying Methods" in International Journal of Intellectual Advancements and Research in Engineering Computations.
17. Mr.R.Vinoth has published a paper titled "Reduction of Setup Time In CNC Machine Using SMED Technique" in International Journal of Intellectual Advancements and Research in Engineering Computations.
18. Mr.Loganathan.V.N has published a paper titled "Design and Modification of Toe cap for Safety Shoe in 3D Printing" in International Journal of Intellectual Advancements and Research in Engineering Computations.
19. Mr.D.Ravichandran has published a paper titled "Design and Analysis of Bagasse Dryer for Boiler" in International Journal of Intellectual Advancements and Research in Engineering Computations.
20. Mr.V.N.Loganathan has published a paper titled "Design of Diode Voltage Measurement and Tuning Screw Insertion by Using a Single Fixture" in International Journal of Intellectual Advancements and Research in Engineering Computations.
21. Mr.B.Velliyangiri has published a paper titled "Wear Behaviour Analysis of Aluminium Metal Matrix Composites Reinforced with Bore Sand Particles" in International Journal of Intellectual Advancements and Research in Engineering Computations.
22. Mr.M.Manikandan has published a paper titled "Lubrication properties of Bio based oils compared with Mineral oil and determining the effect of wear" in International Journal of Intellectual Advancements and Research in Engineering Computations.
23. Mr.S.Eswaran has published a paper titled "Design and Analysis of Heat Exchanger to Preheat the Boiler Feed Water by Blow down Water" in International Journal of Intellectual Advancements and Research in Engineering Computations.

24. Mr.A.Karthy has published a paper titled "Implementation of Value Stream Mapping for Redraw Machine in Pump Industry" in International Journal of Intellectual Advancements and Research in Engineering Computations.

25. Mr.S.Balakrishnan has published a paper titled "Productivity improvement in Polypropylene Bag Manufacturing Using Value Stream Mapping" in International Journal of Intellectual Advancements and Research in Engineering Computations.

26. Mr. M. Manikandan has published a paper titled "Experimental and Theoretical Analysis of Radiation in Industrial Radiography (IR-192) using Tenth and Half Value Layer Thickness in Concrete and Steel" in International Journal of Intellectual Advancements and Research in Engineering Computations.

27. Mr.B.Sakthivel has published a paper titled "Increasing the Efficiency of the Heat Exchanger Using Aluminium Alloy 7075" in International Journal of Intellectual Advancements and Research in Engineering Computations.

28. Mr.K.Ganesan has published a paper titled "Experimental Investigations of Pocket Milling on Aluminium 8011 using Abrasive Water Jet Machining" in International Journal of Intellectual Advancements and Research in Engineering Computations.

29. Mr.K.Ganesan has published a paper titled "Fabrication of Desiccant Assisted Cooling System" in International Journal of Intellectual

Advancements and Research in Engineering Computations.

30. Mr.Bala Kumaran M has published a paper titled "Design of Shaft Straightener with Travelling ram" in International Journal of Intellectual Advancements and Research in Engineering Computations.

31. Mr.G.Kannan has published a paper titled "Overview of Aluminium Metal Matrix Composites Reinforced with Bore Sand Particles" in International Journal of Intellectual Advancements and Research in Engineering Computations.

32. Mr.S.Gejendhiran has published a paper titled "Optimum Welding Process Parameters Investigation for Mechanical Properties of Mild Steel Welded by GMAW" in International Journal of Intellectual Advancements and Research in Engineering Computations.

33. Mr.M.A.Omprakas has published a paper titled "Heat Recovery from the Boiler Startup Vent Steam" in International Journal of Intellectual Advancements and Research in Engineering Computations.

34. Mr.K.Pradeep Kumar has published a paper titled "Design of Induction Heating System for Rectification of Angular Distortion" in International Journal of Intellectual Advancements and Research in Engineering Computations.

35. Mr.K.Pradeep Kumar has published a paper titled "Evaluation and Implementation of Lean Manufacturing in Steering Knuckle Production

Line” in International Journal of Intellectual Advancements and Research in Engineering Computations.

36. Mr.M.Mohamed Ajmal Mahasin has published a paper titled “Evaluation and Implementation of Lean Manufacturing in Assembly Section” in International Journal of Intellectual Advancements and Research in Engineering Computations.

37. Mrs.A.D.Latha has published a paper titled “Efficiency improvement in refrigeration system using Sub-cooler” in International Journal of Intellectual Advancements and Research in Engineering Computations.

38. Mr.B.Sakthivel has published a paper titled “Heat Recovery from Recovery Boiler Smelt Dissolving Tank vent” in International Journal of Intellectual Advancements and Research in Engineering Computations.

39. Mr.M.Sugumar has published a paper titled “To increase the efficiency of the boiler by optimizing the combustion” in International Journal of Intellectual Advancements and Research in Engineering Computations.

40. Mr.Vinoth.R has published a paper titled “Design of Cover Assembly in Flywheel with Aid of Semi Automation system” in International Journal of Intellectual Advancements and Research in Engineering Computations.

41. Mr.M.Sampath kumar has published a paper titled “Design and optimization of a dynamometer for measuring thrust and cross force in drilling application” in International Journal of Intellectual

Advancements and Research in Engineering Computations.

42. Mr.G.Kannan has published a paper titled “Over Load Indicator for Motor Assembly Based on Semi Automation” in International Journal of Intellectual Advancements and Research in Engineering Computations.

43. Mr.S.Muruganantham has published a paper titled “Design and Fabrication of Gravity Inertial Device” in International Journal of Intellectual Advancements and Research in Engineering Computations.

44. Mr.S.Eswaran has published a paper titled “Design and Analysis of Weightless Bullet Proof Jacket” in International Journal of Intellectual Advancements and Research in Engineering Computations.

45. Mrs.Latha.A.D has published a paper titled “Improving Overall Equipment Effectiveness in CNC Machine Shop using Lean Techniques” in International Journal of Intellectual Advancements and Research in Engineering Computations.

46. Mr.M.Shanmugam has published a paper titled “Automation in Ink Jet Printing Machine through 5M methodology” in International Journal of Intellectual Advancements and Research in Engineering Computations.

47. Mr.M.BalaKumaran has published a paper titled “Improving the Performance of a refrigeration System by Utilizing Waste Heat from Condenser” in International Journal of Intellectual Advancements and Research in Engineering Computations.

48. Mr.Velliyangiri.B has published a paper titled “Design modification & Analysis of Two Wheeler Engine Cooling Fins and Fabrication by using 3D Printing” in International Journal of Intellectual Advancements and Research in Engineering Computations.
49. Mr.M.Shanmugam has published a paper titled “Design and Fabrication of Helmet Using 3D Printing Technology by Considering Various Parameters” in International Journal of Intellectual Advancements and Research in Engineering Computations.
50. Mr.Chandramohan.V has published a paper titled “Design of Scrap Compressing Machine” in International Journal of Intellectual Advancements and Research in Engineering Computations.
51. Mr.M.Sugumar has published a paper titled “Design and Fabrication of Fabric Folding Machine” in International Journal of Intellectual Advancements and Research in Engineering Computations.
52. Mr.M.Manikandan has published a paper titled “Implementation of Proximity Sensor in CNC Machine for Mass Production” in International Journal of Intellectual Advancements and Research in Engineering Computations.
53. Mr.S.Balakrishnan has published a paper titled “Utilization of Waste Heat from Condensate Water by Heat Exchanger” in International Journal of Intellectual Advancements and Research in Engineering Computations.
54. Mr.T.Venkatesan has published a paper titled “A Review on the Performance Analysis of Boiler” in International Journal of Intellectual Advancements and Research in Engineering Computations.
55. Mr.V.Chandramohan has published a paper titled “Design and Fabrication of Burr Collector to Increase the Rotor’s Life” in International Journal of Intellectual Advancements and Research in Engineering Computations.
56. Mr.M.Sengottaiyan has published a paper titled “Design of Desiccant Wheel Dehumidification by Compressed Air” in International Journal of Intellectual Advancements and Research in Engineering Computations.
57. Mr.R.Arjunraj has published a paper titled “Condition Monitoring by Vibration Analysis of Rotary Equipments” in International Journal of Intellectual Advancements and Research in Engineering Computations.
58. Mr.D.Ravichandran has published a paper titled “Design Development for Fixture” in International Journal of Intellectual Advancements and Research in Engineering Computations.
59. Mr.V.N.Loganathan has published a paper titled “Recital of Automatic bottle filling system in food and preparation of beverages college / industry using PLC and SCADA.” in International Journal of Intellectual Advancements and Research in Engineering Computations.

MEMORANDUM OF UNDERSTANDING

The general purpose of the MoU is to facilitate industry and institute interaction in terms of visits student projects, sharing the knowledge of expertise, research and consultancy cooperation between the parties.

➤ Dr.N.Rengarajan, Principal, Nandha Engineering College, Dr.M.Easwaramoorthi Dean, Mechanical Engineering, successfully coordinated formation of Memorandum of Understanding [MOU] on 24th June 2016, with Rapid prototyping and manufacturing, Center of Excellence, CIT., Coimbatore.



MOU with RPT&M, CIT., Coimbatore

➤ Dr.N.Rengarajan, Principal, Nandha Engineering College, Dr.M.Easwaramoorthi Dean, Mechanical Engineering, successfully coordinated formation of Memorandum of Understanding [MOU] on 15th December 2016, with **M/s Saran Solar Solutions.**



STUDENTS SPORTS ACHIEVEMENTS

SPORTS DAY OVERALL CHAMPIONSHIP

Department of Mechanical Engineering was awarded the overall championship for the academic year 2016-2017 during the annual sports meet held on 06.03.2017. Various track and field events such as football, cricket, volleyball, kabadi, badminton, 100, 200, and 4 x 100 meters relay were organized. Students have participated in the team and individual events and won many accolades contributing for the overall performance of Department of Mechanical Engineering.



Winners of overall annual sports championship.

- R.Sankar , D.Sivasankar and C.Ragul, Third year Mechanical Engineering Students Won the Bronze medal in Zonal level cricket.
- T.Santhosh, S.Kallaiyappan, J.Chiffatula, S.GnanaPrakash, M.Tamil Selvan, S.Rathanakumar, Third Year Mechanical Engineering Students got Fourth placed in Zonal level Hockey.
- S.Vasanth Third Year Mechanical Engineering Student won the Silver medal in Pole Vault and Decathlon in Zonal Level.
- K.Manivasagam Third Year Mechanical Engineering Student won the Silver Medal and Bronze Medal in Pole Vault and Decathlon in Zonal Level.

ACADEMIC TOPPERS

BACHELOR OF ENGINEERING (MECHANICAL ENGINEERING) (UG)
(2013-17 Batch)



JAGATHEESWARAN.S -I



SOWNDHER N- II



VENKATESH M -III



VIVEK R - I

(2014-18 Batch)



VENKATESH.K - I



PONRAJ.B -II



KUMARAVEL B-III



**JASEEM
MUHAMMED.M -III
M.E., CAD (PG)
(2016-18 Batch)**

(2015-19 Batch)



KARTHICK.S - I



KESAVA MOORTHY R- II



RANJEETHKUMAR N -III



BALAKRISHNAN M -II

(2016-20 Batch)



PRAVEEN R- I



VIKNESVARAR S - II



KAVIN G -III



**M.E., CAD (PG)
(2016-18 Batch)**

ANGURAJ M -III

ACADEMIA

**SEMINARS ★ WORKSHOPS ★ TRAINING
PROGRAMMES ★ ACHIEVEMENTS ★ AWARDS**

EDITORIAL BOARD

Dr. N. Rengarajan, Ph.D., Principal, NEC.

Dr. M. Easwaramoorthi, Ph.D., Dean - Mech.

Prof. M. K. Murthi, M.E., (Ph.D.,) HoD - Mech.

Mr. K. Pradeep Kumar, M.E., MISTE., AP - Mech.

Mr. R. Vinoth, M.E., AP - Mech.

Mr. A. Imraan, (Students Secretary) - Mech



NANDHA ENGINEERING COLLEGE

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