



MEDALLIONS NEWS' 20



DEPARTMENT OF MECHANICAL ENGINEERING

NANDHA ENGINEERING COLLEGE

Volume 7

June 19 - May 20





MEDALLIONS NEWS'20 Volume 7 - May '20

NEWSLETTER - YEARLY

DEPARTMENT OF MECHANICAL ENGINEERING NANDHA ENGINEERING COLLEGE (AUTONOMOUS)



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 2019-2020. 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. EASWARAMOORTHI, 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-20". 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.



Dr. 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 2020-2021 newsletters.

Vision

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

Mission

- To offer state-of-theart undergraduate, postgraduate and research programmes in engineering.
- To develop skilled and employable graduates to meet the challenges in emerging fields of Engineering.
- for prosperous career in Engineering /
 Entrepreneurship by inculcating the leadership qualities with professional and ethical responsibilities for the benefit of the society.
- To encourage Research
 & Development in the thrust areas of Engineering.

DEPARTMENT OF MECHANICAL ENGINEERING 2019-2020

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 lead 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

Without your involvement you can't succeed, with your involvement you can't fail.

Dr. A. P. J. ABDUL KALAM

ASSOCIATION INAUGURAL FUNCTION

Inauguration function of the Society of Mechanical Engineers (SOME) at Nandha Engineering College has been conducted successfully on 29-08-2019.

Thiru. V. Shanmugan chairman, Nandha Educational Institution presided over the function. The lightening of the traditional lamp was done in the presence of chief guest, Thiru. S. Dwarakanathan, Vice President, HDR (Rtd), Brakes India Pvt. Ltd., Chennai.

The Presidential address was given by Thiru. V. Shanmugan, Chairman, Sri Nandha Educational Trust. Principal Address was given by Dr. N. Rengarajan, Principal, Nandha Engineering College. Felicitation address was given 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. Eswaramoorthi, Professor and Dean, Mechanical Engineering, spoke regarding the various activities of SOME. Prof. M. K. Murthi, Head of the Mechanical Department introduced the office barriers of SOME. Chief guest Thiru. S. Dwarakanathan motivated the students regarding the development in the Mechanical field and to make them self ready for the upcoming target in their life.



Dignitaries and office barriers on the dais during the Inaugural Function

ORIENTATION PROGRAMME

Orientation on "Skill Development for Placement in Core Industries" Mr. N. Sampathkumar, Head Training and Development, Roots Industries Limited was arranged on 10-07-2019 at Conference Hall, Nandha Engineering College. He spoke about the behavior and tips for improving skills in relation with core industries 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 orientation with the placement in core industries in the field of Mechanical Engineering.



Participated students during the orientation *Programme.*

SAE WORKSHOP & LECTURE MEETING

A lecture meeting on Electric Vehicle Technology, Policy and Business is organized by NEC collegiate club & SAE India southern section on 02.08.2019.

Mr. S. Shanmugam, Chairman SAEISS, Director Design Desk (India) Pvt. Ltd, Chennai, was the guest speaker for the session. He highlighted the essential of Mechanical Engineering in the current industries scenario and motivation needed to the students in the field of Mechanical Engineering.

Workshops on emerging technology, Trekking, Skill development, Vehicle design, Tractor design, awards, competitions, etc are also held on same occasion.



Dr. T. Ram Prabhu interacting with Students

HELMET AWARENESS RALLEY

Neyam social club of Mechanical Engineering Department in Nandha Engineering College conducted a "Helmet Awareness Rally" at Perundurai on 02.07.2019.

This program was inaugurated by Thiru.V.Shanmugan, Chairman of Nandha Educational Trust and Mr.S.Rajakumar, DSP/Perundurai.

Mr.P.Vengatramani, RTO/Perundurai and Mr. V.Kannan, Motor Vehicle inspector were given the necessity of helmet for two wheelers and given awareness and rules and regulations to be followed while driving. Mr.Sugavanam, Inspector of police, Perundurai was given the support to organize this rally.

The students of Mechanical Engineering were actively participated in this rally and given awareness among the public.

Dr.N.Rengarajan, Principal, Nandha Engineering College has motivated the students to conduct this event.



Helmet awareness rally inauguration

QUIZ COMPETITION

The Department of Mechanical Engineering of Nandha Engineering College, Erode, has organized a quiz competition on 20-09-2019 joint hands with CADD center, Perundurai.

In this competition the students of mechanical engineering were participated. The quizzes are asked from the basics and designs from the mechanical engineering.



Students attending quiz

HANDS ON TRAINING

A hand on training on bike and car engine mantling and dismantling was organized by Department of Mechanical Engineering of Nandha Engineering College on 06.09.2019 and 07.09.2019.

Goodwin Motors from Coimbatore were given the hands on training on mantling and dismantling bike and car engines. In this training the students are actively participated and gain the knowledge of various parts involved in the bike and car engines.



Participated students during the hands on training

ISTE WORKSHOP

A workshop on "TQM and Industry 4.0" organized by ISTE and Department of Mechanical Engineering on 30.09.2019 at NEC conference hall.

ISTE and Department of Mechanical Engineers has organized a Workshop on "TQM and Industry 4.0" on 30-09-2019.

Dr. N. Rengarajan, Principal, inaugurated the workshop.

Mr. B. Thennarasu, Senior Manager, Ashok Leyland Limited, Ennore, Chennai was the chief guest of the occasion.

The chief guest shared their experience and motivated the students regarding the development in the Mechanical field and to make them self-ready for the upcoming target in their life. The essential of TQM and industrial revolution in the current trends are shared by the chief guest.



Participated students during the workshop

INDUCTION PROGRAM

An induction programme for the first students of Mechanical Engineering was organized by the Department of Mechanical Engineering on 17.08.2019.

Dr. N. Rengarajan, Principal, Nandha Engineering College inaugurated the induction programme.

Dr. M. Easwaramoorthi, Professor and Dean, Department of Mechanical Engineering and Dr. M. K. Murthi Head of the Mechanical Department were given the concept and needs Mechanical Engineering to the world.



Participated students during the induction programme

PBL EXPO

Project Based Learning is the mandatory course to the Second and Third year students.

The EXPO of PBL was organized by Department of Mechanical Engineering on 19.10.2019.

The students of second and third year were shown their project and explain the working and advantages of the project during the EXPO.

Dr.N.Rengarajan, Principal, Nandha Engineering College inaugurated the EXPO and appreciated the students to shown their talents in the projects.



Principal visit during the PBL EXPO

ISTE INAGURAL FUNCTION

Inaugural function of Indian Society for Technical Education ISTE was conducted on 19.09.2019.



Participated students during ISTE Inaugural function

IEI INAUGURAL

Institute of Engineers India (IEI) Student Chapter Inaugural held on 22.08.2019.



Dignitaries and office barriers on the dais during IEI Inaugural Function

INDUSTRIAL SEMINAR

The IEI (India) Student Chapter Mechanical Division and Society of Mechanical Engineers (SOME) has jointly organized an Industrial seminar on "Kick Start Your Career" on 29.08.2019.

Chief guest Thiru S. Dwarakanathan, Vice President, HRD (Rtd) Brakes India Pvt Ltd, Chennai, has motivated the students regarding the recent development in the field of Mechanical and to make them ready for the industrial needs.



Participated students during the industrial seminar

ENGINEERS DAY

Engineers Day Celebration was held at Nandha Engineering College organized by Department of Mechanical Engineering on 14.09.2019.

Dr. M. Easwaramoorthi, Professor and Dean, Department of Mechanical Engineering was inaugurated the Engineers Day celebration and Dr.M.K.Murthi Head of the Mechanical Department was given the role of Engineers in the world.



Participated faculties and students during the Engineers Day celebration

INDUSTRIAL SEMINAR

Society of Mechanical Engineers (SOME) of NEC and IEI (India) Student Chapter Mechanical Division has jointly organized an Industrial seminar on "Product Design" on 03.02.2020.

Thiru.Syed Moiz Managing partner, Product Design and Engineering Pvt. Ltd. Coimbatore was the Chief Guest of the seminar. He shared his experience and need of product design in the production industries. Dr.N.Rengarajan, Principal, Nandha Engineering College felicitated the gathering.



Chief Guest with Participated students

NCW - NATIONAL SEMINAR

Department of Mechanical Engineering of NEC organized a National Seminar on "Legal Awareness Programme" sponsored by National Commission for Women (NCW) on 22.02.2020.

Mrs. S. Vinothi, Inspector of Police, Tamil Nadu Police Department, Bhavani was inaugurate the seminar and given chief guest address. She has given the legal awareness to the women.

Mrs. N. Gomathi B.A.B.L Advocate, Notary Public & Commissioner of DATHS Erode has shared her experience among the women.

Mrs. R. Kumudha M.L., Assistant Professor, Government Law College Bharathiyar University, (PO) Coimbatore has shared the awareness needed for the women in the country.

Thirumathi S. Janagi, President, Social Activist, Elanjie (A Non Governmental Organization) Erode has shared her experience to the women.

Dr.N.Rengarajan, Principal, Nandha Engineering College given the principal address.

Dr. M. Easwaramoorthi, Professor & Dean, Department of Mechanical Engineering of NEC was the convener of the awareness programme.

Dr. M. K. Murthi Head of the Mechanical Department was given the vote of thanks. In this programme 50 women from nearby villages and 150 female students of various departments were participated and get benefitted.

ISTE SEMINAR

The Indian Society for Technical Education (ISTE) Student Chapter and Department of Mechanical Engineering has jointly organized an National seminar on "Challenges and opportunities in Electrical Vehicle Design" on 11.03.2020.

Chief guest Dr. S. Jagadheeswaran, Professor, Department of Automobile Engineering, R&D Incharge, BIT Sathyamangalam has shared his experience and recent development in the field about electric vehicle.

FACULTY ACHIEVEMENTS

- Best Engineer award received by
 Dr. M. Easwaramoorthi, Professor &
 Dean, Department of Mechanical
 Engineering.
- ➤ Dr. M. Easwaramoorthi, Professor & Dean MECH & Mr.M.Sengottaiyan ASP –MECH has filed a patent on "Roll on pull type uprooting machine with flexible stem clamp".
- Dr. M. Muthukumar Professor-Mech & Mr. M. A. Omprakas AP-MECH filed a patent on "Taper flow field design".
- ➤ Copy right received for Dynamics of Machinery Lab Manual by Dr. M. Muthukumar, Professor-Mechanical, Mr. S. Muruganantham AP-Mechanical & Mr. D. Ravichandran., AP-Mechanical.

- ➤ Dr.M. Muthukumar Professor-Mechanical has published a journal on "Optimization of active area of proton exchange membrane fuel cell with better water management" in Journal of Ceramic Processing Research. Vol. 20, No. 5, pp. 490-498 (2019).
- ➤ Dr. M. Muthukumar Professor-Mechanical has published a journal on "Adoption of novel porous inserts in the flow channel of PEM fuel cell for the mitigation of cathodic flooding" in International Journal of Hydrogen Energy Volume 45, Issue 13, 6 March 2020, Pages 7863-7872.
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STUDENTS ACHIEVEMENTS

- ➤ Rotaract club Overall Champion @2K19 received by NEC Students.
- R.Manikandan (IV year) secured outstanding Rotaract president award of year 2018-2019.

- ➤ R.Manikandan (IV year) secured 3202 pride award from Rotary International District 3202 of year 2018-2019.
- ➤ R.Manikandan (IV year) received best ISTE student chapter award for the year 2019-2020.
- ➤ R.Manikandan (IV year) became the District International and Professional director of Rotary International District 3202 of year 2019-2020.
- Aravind A L (III year) won first place in 100m running event during Rotaract sports meet conducted by Rotaract club.
- ➤ Arunprasath A.K. (III year) and team won first place in 4*100m relay during Rotaract sports meet conducted by Rotaract club.
- ➤ J.Tirusul (II year) and team won first place in 4*100m relay during Rotaract sports meet conducted by Rotaract club.
- R.Manikandan (IV year) and team bagged runner up in basket ball during Rotaract sports meet conducted by Rotaract club.
- 51 students have won prizes in cocurricular activities held in various institutions in the academic year 2019-20.

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.

TCS, CTS, Wipro, Gapgemini, DXC Technolology, NEWGEN, LGB, Indo shell Cast, Precision Machinery and Tools, Roots Industries, Lakshmi Precision Tools, TVS Upasana, NCR Corporation, Hindustan Foods Pvt Ltd, CPI Pumps, KR Fuels etc.

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 Brakes India Chennai, Delphi TVS, Lucas TVS Chennai etc.,

INDUSTRIAL VISIT

In relation to the academics, in every semester the students are visiting to industries develop various 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 have visited the following industries Roots Industries Coimbatore, Anna Kerala, Subavalar Aluminium **Industries** Perundurai etc.

INDUSTRY AND INSTITUTE INTERACTION

Numerous initiatives aiming at promoting interaction between the department and the industries are taken. This will have a bearing on the Engineering great 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. Students have 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 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 1 month in an industry and submit a detailed report for evaluation after completion of their training in the following companies, Rabwin Industries Pvt Ltd., M/s Shree Harie Mec Engineering Works, Tirupur, Diesel LOCO Shed, Southern Railway Erode, UNIQ Technologies, Chennai, Ambal Autos Ooty, Super Automobile And Engineering.

NEWS CLIPPING

TAMIL NADU

Nandha Engineering College, Erode ISTE Students Chapter was inaugurated on 19-9-2019. One day seminar on Organisational Skills for Engineers was also organised on the same day. Dr. K. Ganesan, ISTE Secretary, TN Section was the Chief Guest for the programme. Thiru V. Shanmugan, Chairman, Sri Nandha Educational Trust presided over the function. Dr. N. Rengarajan, Principal, Dr. S. Arumugam, CEO felicitated the gathering. Prof. B. Velliyangiri, Dept. of Mech.Engg. was the Coordinator for the programme.



Dignitaries during the inauguration of ISTE Students Chapter.

"Dream is not that which you see while sleeping it is something that does not let you sleep."

A. P. J. Abdul

ACADEMIA

- *SEMINAR * WORKSHOP
- * TRAINING PROGRAMMES
- * ACHIEVEMENTS * AWARDS

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NANDHA ENGINEERING COLLEGE (Autonomous)

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