



**NADAR SARASWATHI COLLEGE OF
ENGINEERING AND TECHNOLOGY**

Vadapudupatti, Theni – 625531

**DEPARTMENT OF
MECHANICAL ENGINEERING**

MECHANIAN

NEWSLETTER

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OCTOBER 2020

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Principal, NSCET**

HEAD OF THE DEPARTMENT

Mr. A. Vembathurajesh, M.E., MISTE.,

HOD/Department of Mechanical Engineering

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DEPARTMENT OF MECHANICAL ENGINEERING

VISION	MISSION
Centre for outstanding Education & Research in the fields of Mechanical Engineering.	<ul style="list-style-type: none">✓ Impart highest quality education to the students to build their capacity and innovative skills to solve the industrial needs and social issues.✓ Develop alliances with Research & Development, Industries organizations and alumni for excellence in Consultancy and product design.✓ Enhancing the knowledge and expertise through professional programmes in thermal, manufacturing and industrial Engineering.

ABOUT THE DEPARTMENT

The **Department of Mechanical Engineering** was established in the academic year 2010-2011. The department plays a leading role in evolving an "Engineering Science" based curriculum. The faculty members are highly qualified and specialized in the fields of thermal engineering, industrial engineering, material science, design and manufacturing. The mechanical engineering students learn to tackle challenges and solve real problems through their individual knowledge.

UG: Started with 60 seats in 2010 and Intake Increased to 120 in 2014

PG: Started with 18 seats in 2014

HOD'S MESSAGE



It's my pleasure to release the 1st issue of the News Letter "MECHANIAN" of the Department of Mechanical Engineering. This issue emphasis the dynamic facility and student activities and summarizes the various events and activities organized by the Department of Mechanical Engineering during the month of October 2020.

I wish the newsletter will hold more events and very useful information in the upcoming release. All the faculty and students should contribute their innovative activities to make this newsletter an information one.

DEPARTMENT PROGRESSES

Approved Research Supervisor

Dr.C.Mathalai Sundaram, Principal/Professor of the Department of Mechanical Engineering has successfully received and recognised as a Research Supervisor at Professor Grade in the Specialisation of Composite Materials, Optimisation, Energy, and Wear Analysis for P.h.D. Degree from Anna University Chennai.

513	8620234	Marimuthu S	Dept. of Mechanical Engg.	K.L.N. College of Engg., Madurai	IndustrialEngg.	marimuthushree@yahoo.co.in
514	3520044	Mathalai Sundaram C	Mechanical Engineering	Nadar Saraswathi College of Engineering & Technology Theni-625531	Composite Materials, Optimisation, Energy, Wear Analysis	mathalai_sri@yahoo.com
515	3320075	Mathan Kumar N	Department of Mechanical Engineering	Akshaya College of Engineering and Technology, Kinathukadavu, Coimbatore	Composite Materials, Metal Matrix Composites, Optimization Techniques, Materials Characterization	mathannagarajbe@gmail.com
516	2720040	Mathavaraj Ravikumar T	Department of Mechanical Engineering	United Institute of Technology, Coimbatore - 641020	Robotics Automation Welding Manufacturing	mathurajravi@gmail.com

Dr. B.Radha Krishnan, Assistant Professor in the Department of Mechanical Engineering has successfully received and recognised as a Research Supervisor at Assistant Professor Grade in the Specialisation of Machine Vision, Surface Roughness, Inspection Composite Materials, and Optimisation Technique for P.hD. Degree from Anna University Chennai.

			Engineering			
710	3120011	Puviyarasan M	Department of Mechanical Engineering	Panimalar Engineering College, Chennai-600123	Friction Stir Process, Metal Matrix Composites, Super plastic Forming, Materials Processing	muthupuvi@gmail.com
711	3620003	Radha Krishnan B	Mechanical Engineering	Nadar Saraswathi College of Engineering and Technology Theni-625531	MACHINE VISION, SURFACE ROUGHNESS INSPECTION, COMPOSITE MATERIALS, OPTIMIZATION TECHNIQUES	radhakrishnankrce@gmail.com
712	9920328	Radhakrishnan P	Dept. of Mechanical Engg.	PSG College of Technology, Coimbatore	Mechanical Engg.	director@ias.psgtech.ac.in

DOCTORATE OF PHILOSOPHY (PHD) WORK PROGRESS

On behalf of the Department of Mechanical Engineering, NSCET, five faculty members have applied and attended Online Interview for their P.hD Admission - July 2020 session under Centre for Research (CFR), Anna University, Chennai during 07/10/2020 to 10/10/2020 successfully. Now they are waiting for the Admission July 2020. The details are as follows.

Mr. A. Vembathurajesh, M.E., M.I.S.T.E.,
Assistant Professor & Head / Mechanical Engineering

Mr. V. Sivaganesan, M.E., M.I.S.T.E.,
Assistant Professor / Mechanical Engineering

Mr. B. Nagarajan, M.E., M.I.S.T.E.,
Assistant Professor / Mechanical Engineering

Mr. S. Harikishore, M.E., M.I.S.T.E.,
Assistant Professor / Mechanical Engineering

Mr. A. VennimalaiRajan, M.E., M.I.S.T.E.,
Assistant Professor / Mechanical Engineering

PROFESSIONAL MEMBERSHIP

IAENG Membership



The International Association of Engineers (IAENG) is a non-profit international association for the engineers and the computer scientists. The IAENG members include research centre heads, faculty deans, department heads, professors, research scientists/engineers, experienced software development directors and engineers, and university postgraduate and undergraduate students etc., from over one hundred different countries. IAENG Members can receive IAENG News and view all the IAENG journal and conference publications freely.

In our college, all the Mechanical Engineering Department staff members have registered in the IAENG Membership as Life Time Member. Dr.C.MathalaiSundaram, Mr.A.Vembathurajesh, Mr.V.Thirumalairaj, Mr.V.Sivaganesan, Mr.R.Radhakrishnan, Mr.R.Santhaseelan, Mr.R.Nagaraja, Mr.B.Nagarajan, Mr.P.Surulimani, Mr.A.karthikraja, Mr.S.Harikishore, Mr.T.Sudarsanan, Mr.A.VennimalaiRajan, Mr.J.Chakravarthy Samy Durai, Mr.G.Arun kumar, Dr.B.Radhakrishnan and Mr.J.Eswaran.

The Mechanical Engineering Department students have registered in the IAENG Membership as Life Time Member.

Second Year	- 28 students
Third Year	- 33 students
Final Year (A)	- 32 students
Final Year (B)	- 31 students

IIM Membership



Indian Institute of Metallurgy student chapter request has been sent as a proposal to the Head Office of IIM.

RESEARCH PUBLICATIONS

Dr.B.Radha Krishnan, M.E., Ph.D., Assistant Professor, Department of Mechanical Engineering has published one research article titled, **“Experimental Investigation of Mechanical and Wear Properties of Al 7075/ Al₂O₃/ MICA Hybrid Composite”**in the Journal of Inorganic and Organometallic Polymers and Materials- Springer (SCI).

The screenshot shows the Springer Link interface for the article. At the top, it says 'Published: 19 September 2020'. The title is 'Experimental Investigation of Mechanical and Wear Properties of AL7075/Al₂O₃/MICA Hybrid Composite'. Below the title, the authors are listed: Gundugandla kishore, A. Parthiban, A. Mohana Krishnan, B. Radha Krishnan & V. Vijayan. The journal is 'Journal of Inorganic and Organometallic Polymers and Materials (2020)'. There are 34 accesses and a metrics link. On the right, there is a 'Download PDF' button and a 'Sections' menu with options: Abstract, Introduction, Experimental Methodology, Results and Discussion, Conclusion, References, Author information, Additional information, Rights and permissions, and About this article. An advertisement placeholder is at the bottom right.

Dr.B.Radha Krishnan, M.E., P.hD., Assistant Professor and Mr.A.Vembathurajesh, M.E., Head Incharge/Assistant Professor, Department of Mechanical Engineering have published one Research Article titled, **“Experimental Analysis of Al-cu-Si Metal Matrix Composite by Powder Metallurgy Process”**in Materials Today Proceedings – Elsevier.

The screenshot shows the ScienceDirect interface for the article. The journal is 'materialstoday: PROCEEDINGS', available online 12 October 2020. The article title is 'Experimental analysis of Al-Cu-Si metal matrix composite by powder-metallurgy process'. The authors are N. Karthikeyan, B. Radha Krishnan, A. VembathuRajesh, and V. Vijayan. The DOI is https://doi.org/10.1016/j.matpr.2020.08.643. The abstract starts with 'In various automotive and aerospace applications, aluminum alloy is preferred for its high strength and low weight. It is generally recognized that when...'. There are 'Get Access', 'Share', and 'Export' options at the top. A search bar and 'Advanced' search option are also visible.

FACULTY WEBINAR & FDP ACTIVITIES

<p>Mr.A.Vembathurajesh, Head of the Department Assistant Professor / Mechanical</p>	<p>Participated in the webinar on “Gateway to Success” organized by the Higher Education Forum and the Department of Mechanical Engineering, Francis Xavier Engineering College – Tirunelveli on October 16th 2020.</p>
	<p>Actively attending the webinar on the topic “Recent Development in Nanostructure Metals and Alloys” Organized by Institute For Engineering Research and Publication (IFERP) on 25 October 2020.</p>
<p>Mr. A. Vennimalai Rajan, Assistant Professor / Mechanical</p>	<p>Attended Online webinar on “Recent Development in Nanostructure Metals and Alloys” Organized by Institute For Engineering Research and Publication (IFERP) on 25th October 2020</p>
<p>Mr. J. Chakravarthy Samy Durai, Assistant Professor / Mechanical</p>	<p>Attended Online webinar on “Recent Development in Nanostructure Metals and Alloys” Organized by Institute For Engineering Research and Publication (IFERP) on 25th October 2020</p>
<p>Mr.G.Arunkumar, M.E., Assistant Professor / Mechanical</p>	<p>Attended Online webinar on “Recent Development in Nanostructure Metals and Alloys” Organized by Institute For Engineering Research and Publication (IFERP) on 25th October 2020.</p>
<p>Mr.J.Eswaran, M.E., Assistant Professor / Mechanical</p>	<p>Participated in one week online short term training program (STTP) on “Automation Technologies in FMCG Sector” held from 28th September to 03rd October 2020.</p>
	<p>Participated in the National level webinar on “Management of stress and anxiety through yoga” organized by IQAC and Department of Physical Education, Mangalore University on 3rd October 2020.</p>
	<p>Participated in the webinar on “Fuel cell hybrid vehicle” organized by Galgotias University held on 07th October 2020.</p>

<p align="center">Mr.J.Eswaran, M.E., Assistant Professor / Mechanical</p>	<p>Participated in the webinar on “Composite materials and its applications” conducted by WOLLO University on 13th October 2020.</p>
	<p>Participated in the National level webinar on “Role of engineers in Mines” conducted by Nehru Institute of Engineering and Technology on 14th October 2020.</p>
	<p>Participated in the International webinar on “Steps to Success” Organized by Nehru Institute of Engineering and Technology on 14thOctober 2020.</p>
	<p>Participated in the National Webinar on “Recent Development in Nano structured Metals and Alloys” Organized by IFERP on 25th October 2020.</p>
	<p>Participated in the National Webinar on “Trends in Nanotechnology” held on 20th October 2020 Organized by Dr. B.C. Roy Engineering College</p>
	<p>Participated in one day webinar on “Taguchi method for Optimization” on 23rdOctober 2020 Organized by Gnanamani College of Technology.</p>

STUDENT WEBINAR ACTIVITIES

<p align="center">Mr. M.S. Parthan, Final Year Mechanical Engineering ‘A’</p>	<p>Participated in the webinar on FEA – AN EXCITING AND CHALLENGING CAREER” organized by Nehru Institute of Engineering and Technology on 15thOctober 2020.</p>
	<p>Participated in the World Rabies Day Quiz organized by Vivekanandha College of Arts and Sciences for Women on 16thOctober 2020.</p>
	<p>Participated in the Online Quiz on Cyber Ethics organized by Information Security Education Awareness & Ministry of Electronics & Information Technology, Government of India during second week of October 2020.</p>

Mr. N.Dinesh Kumar, Third Year Mechanical Engineering	Participated in the National level E-Quiz on 150 th Birth Anniversary of Mahatma Gandhi organized by National Service Scheme, Nadar Saraswathi College of Arts & Science on 05 th October 2020.
	He has taken the Jan Andolan COVID-19 Appropriate Behaviour Pledge and committed himself to the responsibility of taking all necessary precautions that will prevent the spread of COVID-19 on 13 th October 2020.

PLACEMENT ACTIVITIES

The following passed out students (2016-2020 batch) students have attended Technical Interview in Brakes India Pvt., Ltd., Chennai, during the month of October from 10/ 10/ 2020 to 14/ 10/ 2020. They got selected after the interview process.

STUDENTS:

- S. PRAVEENKUMAR
- P. SUNDARARAJAN
- P. SUNDARASELVAM
- P. RUPESH KANNAN
- R. RAJKUMAR
- M. ARUNKUMAR

Company Name: Brakes India Pvt., Ltd., Chennai

They have been appointed as Graduate Trainee Apprentice (GTA) in their two various plant with a stipend of Rs. 13,500/- month for all clear candidates and 12,500/- for the candidates having arrear, along with attendance bonus, food and transport allowances.

MAFOI PLACEMENT & TRAINING CLASS

Our Mechanical Engineering Final year students (67 Nos) have actively participated in the training classes through Online conducted by Mafoi, Chennai which helps the students to attend any competitive exams.

TCS- NQT ONLINE EXAM

Among 67 students of Final year, 20 students have registered for the TCS- National Qualifier Test, which enables our student's knowledge to reach over nationwide. Exam was conducted during 24th, 25th, 26th, 28th, and 29th of October 2020. For this exam, Our Mafoi team has provided an excellent coaching from 12th October to 23rd October 2020.

CONSULTANCY WORKS

On behalf of Nadar Saraswathi Incubation Centre (NSIC), our department has carries out the following works for the other departments.

Department: Electrical and Electronics Engineering

Laboratory: Renewable Energy Lab

1. Table - 1 No
2. Windmill Safety Guard Structure Fabrication
3. Windmill Panel Board Box Fabrication

SARASWATHI POOJA / AYUTHA POOJA CELEBRATION



Ayudha Puja is a part of the Navratri **festival (festival** of triumph), a Hindu **festival** which is traditionally **celebrated** in India. In simple terms, it means “Worship of Instruments”. We the faculties of Department of Mechanical Engineering celebrated the Pooja in a grand manner.