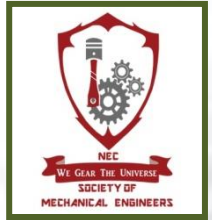


NANDHA ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

(Accredited by NBA)



Volume 10 June 22 - May 23



Dr. N. RENGARAJAN
Principal

Greetings to the Department of Mechanical Engineering on the happy occasion of releasing newsletter Medallions News' 23 for the academic year 2022–23. There are so many winners and students participated in co-curricular and extracurricular activities. This shows that our faculty and student members are well-prepared and have the necessary skill sets to bring such honors to the college. I'm hoping that these achievements would go up in the upcoming years. I wish them luck and hope they would feel recognized for their work after seeing their see their accomplishments.



Dr. M. EASWARAMOORTHY
HoD - Mech

I am happy to release this year's newsletter "Medallions News-23" vol.10 of our department. There are many updates to share with respect to the department activities such as faculty and student's achievements, placements details, etc. I am delighted to note that the response to newsletter has been overwhelming. I want to express heartfelt gratitude to everyone who has helped the department to achieve this success. Let this newsletter serve as a platform to showcase the abilities of faculty and students. I send my warmest wishes for this endeavor's success.

Department Vision

To be recognised as a centre of excellence in the field of Mechanical Engineering and to produce competent engineers with multi-disciplinary exposure to meet the changing needs of the society.

Department Mission

- To enrich technical knowledge and skills by imparting quality education with ethics and social responsibility.
- To empower the students in the thrust areas of Mechanical, Allied Engineering and Entrepreneurship in the continually changing global market.
- To provide a conducive learning environment for improving continually to cater the needs of the society.

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 student and faculty members in various inter and intra college events. It encourages and brings out the talents of student and faculty members in various fields.

ABOUT DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering was established in the year 2005. At present, the department offers Graduate Programme – B.E., in Mechanical Engineering, Post Graduate Programme – M.E, in Engineering Design and Doctorate Programme – Ph.D., in Mechanical Engineering. The department has been accredited by National Board of Accreditation (NBA) in the year 2013 and Reaccredited in the year 2022. It is reputed for creating Professional Engineers, Researchers and Entrepreneurs. Many of its alumni play key roles in Industries and Institutions in India as well as in abroad. The department is proud to be collaborated with well-known Industries and Institutions in the emerging fields of Mechanical Engineering.

With a right combination of theory, practical, projects (hands-on) and industrial training in the areas such as Design, Thermal, Manufacturing and Energy Engineering, this programme has well placed itself as a well-known preference for the students.

INFRASTRUCTURE

The department is equipped with 14 diversified laboratories to cater the needs of the students and covering the curriculum.

LAB 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
Project Lab	Industry Sponsored Labs	

FDP

The Department of Mechanical Engineering and ICT Academy jointly organized a one-day Faculty Development Programme on "Product Design Engineering using AUTODESK Fusion 360" on June 24, 2022.

Mr. R. Robinson Charley was the resource person for the FDP. He has given hands-on training in Fusion 360. Mechanical Engineering faculty members participated in the FDP and gained knowledge of Fusion 360.



GUEST LECTURE

The Department of Mechanical Engineering and SAN Engineering Solutions jointly organized a guest lecture on placement opportunities in design on 13.09.2022.

Mr. Venkatesan Uthamarajan, Project Manager, SAN Engineering Solutions, was the resource person for the guest lecture.

He has highlighted the various opportunities in the field of design for the students. 110 students from the third year participated in the guest lecture.



ENGINEERS DAY CELEBRATION

The Department of Mechanical Engineering and the Institute of Engineers India (IEI) jointly celebrate the 55th "Engineers Day" on 15.09.2022.

Dr.M. Easwaramoorthi, Professor & Head has addressed the students in the topic of Mechanical Engineering and skill requirements. The students of Mechanical Engineering have participated and benefited from this event.



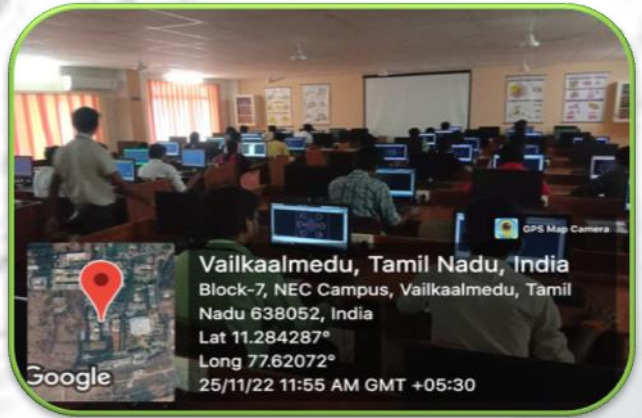
syNECtics 2022

Nandha Engineering College organized a national-level technical symposium, syNECtics 2022 from 23.11.2022 to 25.11.2022.

The Department of Mechanical Engineering conducted the various events like Techie Sketch, CADD Modelling, Rocketry, etc.

Students from various departments of Nandha Engineering College and students from various engineering colleges have participated in the events.

The winners of each event were awarded cash prizes and certificates. A participation certificate was given to all the participants.



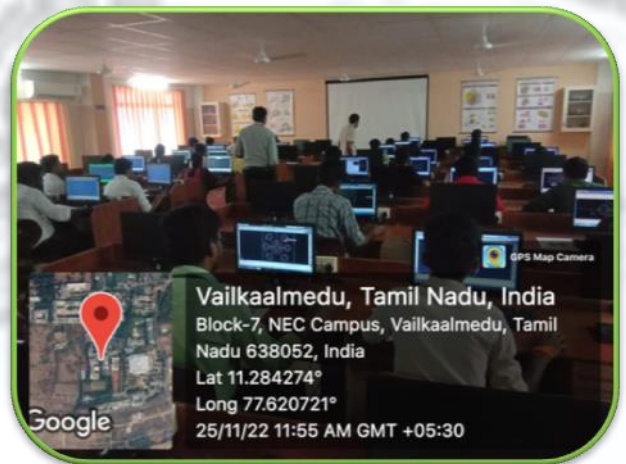
CADD Modeling



Rocketry



Techie Sketch



CADD Modelling

SAE LECTURE MEETING

The Department of Mechanical Engineering and SAEISS Erode Division jointly organized a lecture meeting on Project-Based Learning: State of the Art in Engineering Education on 03.02.2023

Mr. S. Shanmugam, Director, Design Desk India Pvt. Ltd., Chennai, was the resource person for the lecture meeting. He has highlighted the various opportunities for doing projects in the field of mechanical engineering for the students. 178 students participated in the lecture meeting.



The resource people have emphasized for the students content writing and public speaking for mechanical engineering. The session was attended by 48 mechanical engineering students.



SAE LECTURE MEETING

The Department of Mechanical Engineering, Nandha Engineering College, has organized a seminar on Trends and Challenges in the Automotive Industry with an EV Perspective jointly with SAEISS-Erode Division on 26.04.2023. Thiru. V. Shanmugan, Chairman, Sri Nandha Educational Trust, presided over the function. Dr. N. Rengarajan, Principal, Nandha Engineering College, has delivered the Principal's address. Thiru. S. Nandhakumar Pradeep, Secretary, Sri Nandha Educational Thrust, Thiru. S. Thirumoorthy, Secretary, Nandha Educational Institutions, Dr. S. Arumugam, Chief Executive Officer, Nandha Educational Institutions, Dr. J. Senthil, Director Nandha Tech Campus have felicitated the gathering.

WORKSHOP

The Department of Mechanical Engineering organized a workshop on public speaking and content writing on 10.02.2023.

The workshop's resource people were Ms. C. C. Harini, the training coordinator, and Mr. Laven Lokesh, the founder of PGI.

Dr. M. Easwaramoorthi, Professor and Head, delivered the welcome address. The chief guest, Mr. M. Manoharan, General Manager (Retd), Product Development, Ashok Leyland Ltd., Chennai, addressed the students and explained to them the current industrial trends and challenges in the automotive industry with EV Perspective.

He also pointed out the skills that are considered by an employer during recruitment. The chief guest also thrown light on the areas where the student has to concentrate and prepare themselves to be employable through enhancing their skills. He also stressed the need of innovation in the modern trends and way the students can actively think about innovation in specific areas such as Electrical Vehicle, renewable energy, pollution control, etc. Students and faculty members had actively participated in the function and interacted with guest.

MECHANISUM MAKING EVENT

The Society of Mechanical Engineers has organized a "Mechanism making event" on 13.04.2023. The students of second year mechanical engineering have made a working model of various mechanisms used in engineering with the help of the Kinematics of Machinery concept. Dr.S.Magibalan and Mr.D.Ravichandran, faculties of Mechanical Engineering have given guidance to students to make the mechanisms. Finally, the students show-cast the various models of mechanisms. The best working model among all the mechanisms was selected and a prize was distributed.



ISTE SEMINAR

The Department of Mechanical Engineering and ISTE students' chapter jointly organized a Technical Talk on "Industry Automation and Concepts Behind Industry 4.0" on 03.05.2023.

Mr. Sasikumar Rangasamy, Assistant Manager, Didactic Initiative, Janatics India Pvt. Ltd., Coimbatore was the resource person for the event. He has highlighted the various processes involved in automation and the concepts behind the industry 4.0 and COBOT. Students had actively participated in the event and interacted with the guest.



TVS Training – GD & T

The Department of Mechanical Engineering organized a five days Training on GD & T from 08.05.2023 to 12.05.2023. The team of trainers from TVS Training Services, Chennai was given the training.

The training resource people were Ms. K. Sethuraman, R & D Department and Mr. R .K. Gopalakrishnan, Assembly Division, TVS Training Services, Chennai.

The resource people have emphasised for the students that the hands-on training sessions were conducted with industrial drawings and sample machine tools. The training was attended by 103 mechanical engineering students.



Project Expo

The Society of Mechanical Engineers has organized a "Project Expo" on 11.05.2023. The students of Final year mechanical engineering have made a working model of various projects. Mr. B. Velliangiri and Mr. R. Arjunraj, faculties of Mechanical Engineering have coordinated the students to make the projects. Finally, the students show-cast their projects.



The resource people have given training in design, build, testing, and installation of custom fully integrated automation systems. The training was attended by 54 mechanical engineering students.

PARENTS MEETING

The Department of Mechanical Engineering arranged a parent-teacher meeting to discuss the academic performance of the students with their parents. The first year parent teacher meeting was held on 06.05.2023.

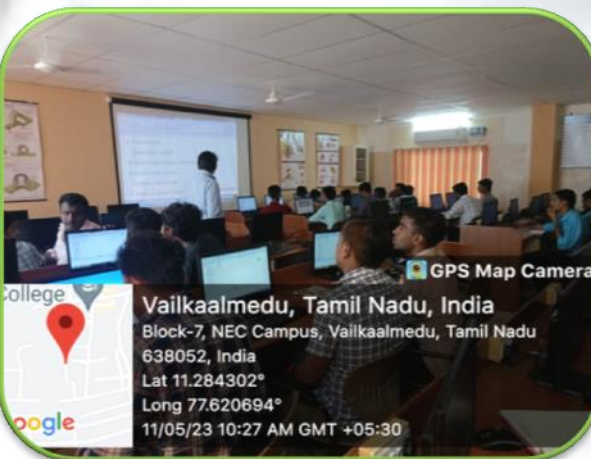


Training in Automation

The Department of Mechanical Engineering organized a one day Training on Automations on 11.05.2023. The team of trainers from Axis Global Automations, Coimbatore was given the training.



The Department of Mechanical Engineering arranged a parent-teacher meeting to discuss the academic performance of the students with their parents. The second year parent teacher meeting was held on 08.05.2023.



ALUMNI INTERACTION

As a part of knowledge sharing, Department of Mechanical Engineering organized the following Alumni interactions by our Elite Alumni.

- Mr. E. Vignesghugan, Junior planning Engineer, Airflow Equipments, Chennai interacted with students on 13.07.22



- Mr. A. Ragul Adhitya, Risk Assessment and Safety Engineer, Hubert Enviro Care Systems, Chennai interacted with students 30.08.22.



- Ms. R. Viveka, Graduate Engineer Trainee, Renault Niassan interacted with students on 01.10.22.



- Mr. M. Kavin, Quality Engineer, Envision Wind Energy interacted with students on 08.10.22



- Mr. Karthikeyan Rajamanickam, DevOps Engineer, Eleviant Technologies interacted with students on 10.12.22.



- Mr. S. Sakthivel, IT Recruiter, interacted with students on 10.12.22.



- Mr. M. Manoj, HR Department, Genius Consultant, Chennai interacted with students on 10.02.23.



- Mr. K. Dhanabal, General Manager, P. R Apparels , Tiruppur interacted with students on 06.03.23.



STUDENTS PARTICIPATIONS

- 208 students participated in workshops organized by various engineering colleges.
- 23 students participated in a paper presentation held at various engineering colleges.
- 68 students participated in a project presentation held at various engineering colleges.
- 125 students participated in a conference held at various engineering colleges.
- 15 students participated in a seminar / webinar held at various engineering colleges.
- 34 students took part in a variety of activities organized at different engineering colleges.
- 71 students took part in CAD modelling organized by different engineering colleges.
- 12 students took part in a quiz programme organized by different engineering colleges.

FACULTY AS RESOURCE PERSON

- ✚ Dr. M. MUTHUKUMAR, Professor of Mechanical Engineering acted as a resource person at Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai on 11.11.2022.
- ✚ Dr. M. MUTHUKUMAR, Professor of Mechanical Engineering acted as a resource person at Nandha College of Technology on 29.11.2022.
- ✚ Dr. M. EASWARAMOORTHY, Professor and Head of Mechanical Engineering addressed in SAE Collegiate Club inauguration at Excel Engineering College, Komarapalayam on 27.01.2023.
- ✚ Dr. M. EASWARAMOORTHY, Professor and Head of Mechanical Engineering addressed in SAE Bicycle Design Challenge 2023 at PSNA Engineering College, Dindugal on 02.04.2023.

INDUSTRY PERSONS INVOLVEMENT

In partial delivery of regular courses for students by the industrial people, the Department of Mechanical Engineering, Nandha Engineering College, has organized an industrial seminar on electrical vehicles (EV) on 03.02.2023. Mr. S. Shanmugam, Design Desk India Pvt.Ltd., Chennai, was the resource person for the seminar.

The resource person has delivered the content related to electrical vehicles. 104 students from the second year of mechanical engineering have participated in this seminar.



FACTULTY PARTICIPATIONS

- Mechanical Engineering faculty participated in 16 Faculty Development Programmes organized by several prestigious universities and engineering institutions in Tamil Nadu and other states.
- Mechanical Engineering faculty participated in 3 Webinars organized by several prestigious universities and engineering institutions in Tamil Nadu and other states.
- Mechanical Engineering faculty participated in 1 Workshop organized by several prestigious universities and engineering institutions in Tamil Nadu and other states.
- Mechanical Engineering faculty participated in 4 Seminars organized by several prestigious universities and engineering institutions in Tamil Nadu and other states.

MoU

As a part of Institute and Industry interaction, the Department of Mechanical Engineering signed a Memorandum of Understanding (MoU) with TVS Training and Services, Chennai on 05.05.2023. The industry will offer Core placement training, Internships, Industrial Visit, training to faculty members.



FACULTY INDUSTRIAL TRAINING

A team of four faculty members from mechanical Engineering visited and attended the training at TVS Training Services, Chennai on 10.03.2023.



A team of 10 faculty members from mechanical Engineering visited and attended the training at Janatics Automation Limited, Coimbatore on 08.04.2023.



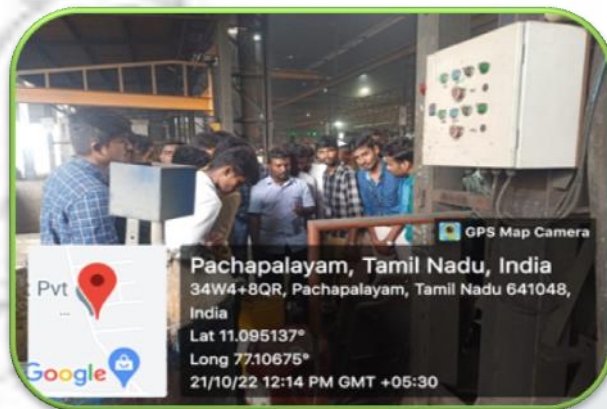
CONSULTANCY

Faculty members of mechanical engineering completed seven consultancy works and generated a revenue of Rs. 4,03,900/-.

INDUSTRIAL VISIT

The department of mechanical engineering organized an industrial visit to DMW CNC Solutions, Perundurai on 30.06.2022, as part of industry-institution interaction. Along with two faculty members, 108 second year students visited the industry.

The department of mechanical engineering organized an industrial visit to Barani Ferro cast Pvt. Ltd., Coimbatore on 15.10.2022, as part of industry-institution interaction. Along with two faculty members, 57 third year students visited the industry.

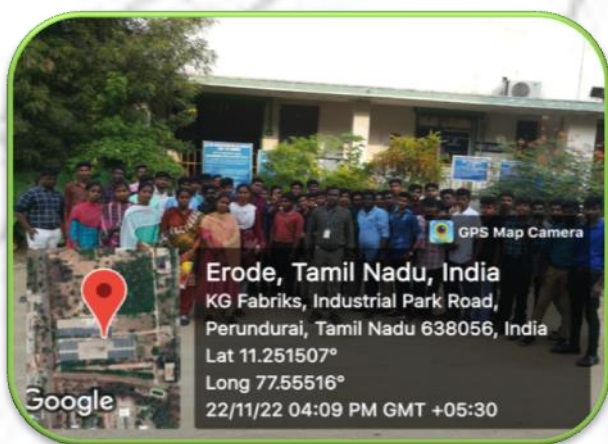


The department of mechanical engineering organized an industrial visit to Sakthi Auto Component Ltd., Tiruppur on 19.11.2022, as part of industry-institution interaction. Along with two faculty members, 108 third year students visited the industry.



The department of mechanical engineering organized an industrial visit to Barani Ferro Cast Pvt. Ltd., Coimbatore on 21.10.2022, as part of industry-institution interaction. Along with two faculty members, 53 third year students visited the industry.

The department of mechanical engineering organized an industrial visit to KG Fabrics, Perundurai on 22.11.2022, as part of industry-institution interaction. Along with two faculty members, 52 first year students visited the industry.



The department of mechanical engineering organized an industrial visit to Subavalar Industries in Perundurai on 26.05.2023, as part of industry-institution interaction. Along with two faculty members, 52 first year students visited the industry.



IN-PLANT TRAINING

42 students from the second year and 42 students from the third year of mechanical engineering underwent in-plant training at various leading industries for a minimum of 5 days.

INTERNSHIP

- 6 Students from final year mechanical Engineering undergone internship at Sakthi Auto Components, Pallagoundanpalayam, Tiruppur.
- 11 Students from final year mechanical Engineering undergone internship at NCR Corporation, Chennai.
- 5 Students from final year mechanical Engineering undergone internship at Mapals India Private Ltd., Coimbatore.
- 3 Students from final year mechanical Engineering undergone internship at Nouveaux Industries, Kangeyam.
- 3 Students from final year mechanical Engineering undergone internship at TVS Upasana, Hosur.

PROFESSIONAL SOCIETIES



STUDENTS ACHIEVEMENTS

Two of our final Year Mechanical Engineering Students have received offer letter from Universiti Teknologi PETRONAS (UTP) Malaysia for doing virtual Research Attachment Programme.



KIRUTHIKA M



JANAGA NANDHINI M P

MERLIN ABINAYA. D. V of Third Year Mechanical Engineering Student received a Best Performance Award from SAEISS.



KIRUTHIKA. M of Final Year Mechanical Engineering Student received a Best Student Award (Female category) from IEI



GOKULAN. C of Final Year Mechanical Engineering Student received a Best Student Award (Male category) from IEI



A team of Second Year Mechanical Engineering Students received second prize in SAE Bicycle Design Challenge 2023 held at PSNA College of Engineering and Technology, Dindigul.



NAVIN SINGH. S of Second Year Mechanical Engineering Student won second prize in CAD Modelling at Kalaingar Karunanidhi Institute of Technology, Coimbatore.



STUDENTS ACHIEVEMENTS

A team of Third Year Mechanical Engineering Students received appreciation in SAE Bicycle Design held at Knowledge Institute of Technology, Salem.



KIRUTHIKA. M of Final Year Mechanical Engineering Student received a Best Student Award from ISTE



DHARSHAN. M of Second Year Mechanical Engineering Student won 1st Prize in Technical Quiz held at KSR IET.



PUGAZHENDHI. K of Second Year Mechanical Engineering Student won 1st Prize in Technical Quiz held at Pollachi Institute of Technology.



NIVETHA. V of Second Year Mechanical Engineering Student won 2nd Prize in Technical Quiz held at Pollachi Institute of Technology.



TAMIZHINIYA. A of Second Year Mechanical Engineering Student won 3rd Prize in Technical Quiz held at Pollachi Institute of Technology.



SPORTS ACHIEVEMENTS

KISHORE KUMAR. V of Second Year Mechanical won 3rd place in kabaddi in Centies trophy.

SANTHOSH KUMAR. K of second Year Mechanical won 3rd place in Kabaddi in Centies trophy.

INDRAJITH. S of Final year Mechanical won 3rd place in Cricket in Anna University Zonal Match, JCI and CM trophy.



KABIL RAJ. R of Second year Mechanical won 3rd place in Cricket in Anna University Zonal, JCI and CM trophy.



NIJIL JEBA MAHIBAN. J of 3rd Year Mechanical won 1st Place in Volleyball at Anna University Zonal match.



VARUN. K. R of 3rd Year Mechanical won 3rd place in Power lifting at Anna University Zonal.



VARUN. K. R of 3rd Year Mechanical won 2nd place in Power lifting at State level Power Lifting.



PUBLICATIONS

- **M. Easwaramoorthi**, B. Manibarathi, R. Mathesan, M. Mithiran, R. Rajesh and T. Sivakumar, (2023) “Investigation of water recovery from sewage using solar thermal technology”, Journal of Physics: Conference Series, doi:10.1088/1742-6596/2312/1/012025, pp [1-9]
- **Dr. M. K. Murthi**, Manikandan Murugesan (2022) “A Review: Design and Development of Integrated 2 & 3-Wheeler Electric Vehicle”, International Research Journal of Engineering and Technology, e-ISSN: 2395-0056, Volume: 09, Issue: 12, pp [1377-1384]
- **3. G. Thilak**, Rajasekaran Saminathan, S. Srinivasan , P. Manoj Kumar, **M.K. Murthi**, S. Ram (2022) “Analyzing thermal characteristics of an inorganic phase change material”, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2022.07.217>, pp [1-5]
- **Dr. Murthi M K**, Abdul Ashik R, Pavithran P, Sankar N (2023) “Smart Medical Vending Machine Technology”, International Research Journal of Education and Technology, ISSN: 2581-7795, Volume: 05, Issue: 05 pp [292-297]
- **B. Ashok Kumar**, Rajasekaran Saminathan , Mohammed Tharwan, M. Vigneshwaran, P. Sekhar Babu, S. Rame, P. Manoj Kumar (2022) “Study on the mechanical properties of a hybrid polymer composite using egg shell powder based bio-filler”, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2022.07.114>, pp [1-5]
- **Tamilselvan Manickam**, Jenish Iyyadurai, Maniraj Jaganathan, **Ashokkumar Babuchellam**, Muthukrishnan Mayakrishnan and Felix Sahayaraj Arockiasamy (2022) “Effect of stacking sequence on mechanical, water absorption, and biodegradable properties of novel hybrid composites for structural applications”, International Polymer Processing, <https://doi.org/10.1515/ipp-2022-4274>, pp [1-9]
- **A R Venkataramanan**, J Jones Praveen, **B Ashok Kumar**, R Vinothkumar, M Vinosh (2022) “Fatigue Life Assessment on Artificially Aged TIG Welded AA6061 Aluminum Alloy Joints”, AIP Conference Proceedings, <https://doi.org/10.1063/5.0108093>, pp [1-7]

- **Ashok Kumar Babu Chellam**, Manikandaprabu Pandian, Dhiyaneswaran Jaganathan, Mohammed Saliek Risavu Mydeen, Kavin Kalimuthu (2022) "Analysing the Mechanical and Metallurgical Behavior of Aluminium 7075 Composite with Reinforcement of Silicon Carbide and Zirconium Oxide", AIP Conference Proceedings, <https://doi.org/10.1063/5.0108139>, pp [1-7]
- **A. Felix Sahayaraj**, I. Jenish, M. Tamilselvan, M. Muthukrishnan, **B. Ashok Kumar** (2022) "Mechanical and morphological characterization of sisal/kenaf/pineapple mat reinforced hybrid composites", International Polymer Processing, <https://doi.org/10.1515/ipp-2022-4238>, pp [1-8]
- **Sennianguiri Natarajan**, Gurusamy Pathinettampadian, Muthuraman Vadivel, Pastin Sony Sundar Yesudasan & Bensam Raj Jesuretnam (2022) "Influence of nano-silica on mechanical properties of Indian almond fiber reinforced hybrid epoxy composites", Journal of Natural Fibers, <https://doi.org/10.1080/15440478.2022.2048942>, pp [1-11]
- **N. Sennianguiri**, N. Arunkumar, A. Dhanabal, K. Kamalakannan, J. Thrisul (2022) "Production of polyethylene composites reinforced with sisal and jute fibres through compression molding", Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2022.09.103>, pp [2362-2367]
- **N. Sennianguiri**, J. Bensam Raj, Y. Brucely & A. Bovas Herbert bejaxhin (2022) "Effect of SnO₂ and Ag nano-additives on the performance, combustion and emission characteristics of diesel engine fueled with mango seed biodiesel", Petroleum Science and Technology, <https://doi.org/10.1080/10916466.2022.2120501>, pp [1-21]
- **S. Magibalan**, C. Ragu, D. Nithish, C. Raveeshankar, V. Sabarish (2022) "Design and fabrication of electric three-wheeled scooter for disabled persons", Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2022.11.179>, pp [1-5]

- **M. Sengottaiyan**, G. Sivasankar, C. V. Barath, V. S. Ragupathy, G. Vijayprasath (2023) "Design and Fabrication of Standup Assistant Wheelchair for Physically Challenged Person", International Research Journal of Education and Technology, ISSN: 2581-7795, Volume: 05, Issue: 05 pp [98-102]
- **Muruganantham S**, Dinesh S, Kathershaw M, Lokesh Kumar K, William Richard K (2023) " Design and fabrication of fish feeding drone", International Research Journal of Education and Technology, ISSN: 2581-7795, Volume: 05, Issue: 04 pp [174-181]
- **S Muruganantham**, T Arunkumar, K K Hariharasudan, S Sasi Kumar, S Jagadeesh (2023) "Design and Fabrication of 360 Degree Fire Protection System", International Research Journal of Education and Technology, ISSN: 2581-7795, Volume: 05, Issue: 05 pp [274-280]
- **Raghul A**, Sarankumar M, Rajprasath B, Krishnaprasath P, Mr. **Muruganatham .S** (2022) "Design and Fabrication of Fire Extinguishing Drone Using CO2 Ball and Sprayer" , International Journal for Research in Applied Science & Engineering Technology, ISSN: 2321-9653, Volume 10, Issue 10 pp [94-99]
- **Ravichandran D**, Boopathy S, Prabakaran M, Pavithran P, Sundaresan S, Sundhareshan E (2023) "Design and Fabrication of Frictionless Electricity Generator using Drive Shaft of Electric Vehicle", International Research Journal of Education and Technology, ISSN: 2581-7795, Volume: 05, Issue: 04 pp [304-309]
- **D. Ravichandran**, R. Barathkumar, S. Gowtham, T. Guna, V. Janashwaran (2022) "Design and Analysis of Helical Spring in Two- Wheeler Shock Absorber by Changing its Geometric Parameters and Material, International Journal for Science and Advance Research in Technology, ISSN [ONLINE]: 2395-1052, Volume 8, Issue 7, pp [485-493]
- **Ravichandran D**, Arun Kumar M, Kamban K, Karan S, Vignesh C (2023) "Design and Fabrication of Solar Wind Turbine", International Research Journal of Education and Technology, ISSN: 2581-7795, Volume: 05, Issue: 05 pp [211-218]
- **B. Velliyangiri**, T. Balamurugan, M. Elango, S. Pranava kumar, S. Jegan (2023) "Implementation of Overload Prevention System in Fly Ash Brick Machine", International Journal of Creative Research Thoughts, ISSN: 2320-2882, Volume 11, Issue 5, pp [14-20]

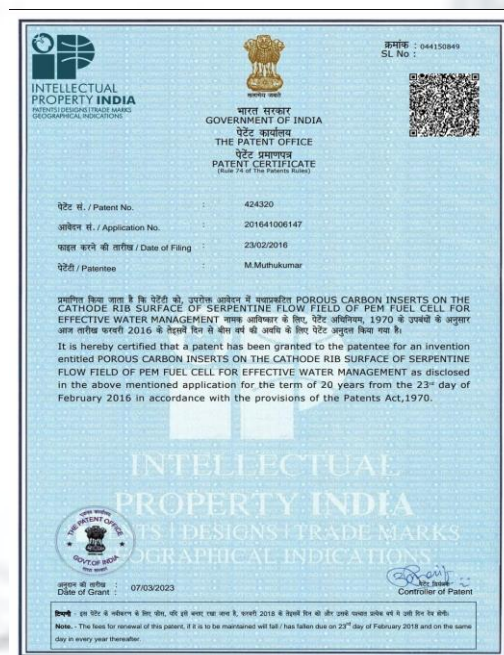
➤ **Sadhasivam Deepan Kumar, Karthik R, Boopalan N, Balakrishnan S, Arulkumar S, Saravanan Boobalan** (2022) Experimental Investigation on the Wear and Tear Characteristics of Chrome and Moly Coated Piston Rings Used in Automobile Engine Application, SAE Technical Paper, ISSN 0148-7191, doi:10.4271/2022-28-0530, pp [1-6]

➤ **T. Venkateshan, C. Gokulan, K. Sabarish, K. Sounder raj, V. Jawaharsuriya** (2023) "Fabrication and Analysis of Double Pipe Heat Exchanger with Twisted Tapes", Journal of Emerging Technologies and Innovative Research, ISSN-2349-5162, Volume 10, Issue 5, PP [413-428]

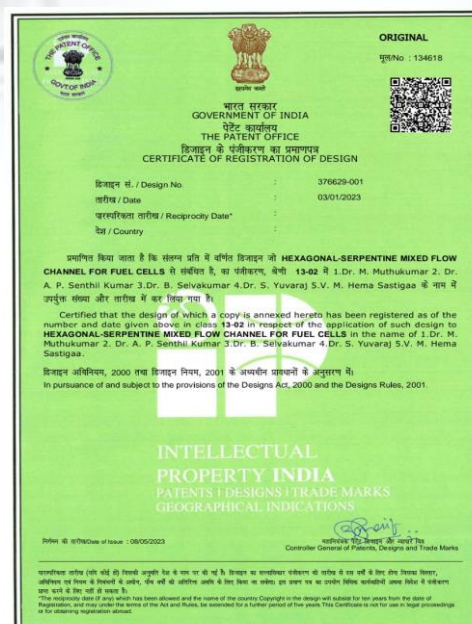
➤ **Rajkumar R, Boobalan J, Jeevan Prasath D, Kavinkumar S** (2023) "Fabrication of Smart Food Product Vending Machine using Arduino", International Research Journal of Education and Technology, ISSN: 2581-7795, Volume: 05, Issue: 05 pp [311-316]

PATENT

Dr. M. Muthukumar, Prof/ Mechanical, filed a utility patent "Porous Carbon inserts on Cathode Rib Surface of Serpentine flow field of PEM fuel cell for Effective Water Management" and granted on 07.03.2023.

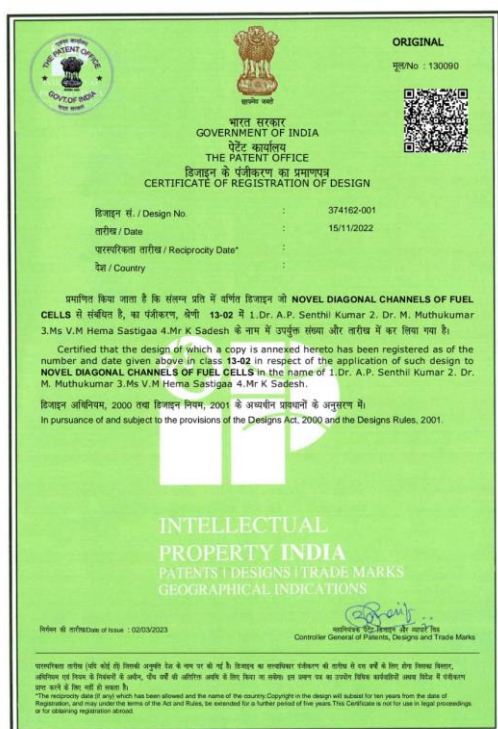


Dr. M. Muthukumar, Prof/ Mechanical, filed a design patent "Hexagonal - Serpentine mixed flow channel for fuel cell".



Dr. M. Muthukumar, Prof/ Mechanical, filed a design patent “Novel Diagonal channels of fuel cell”.

PLACEMENT DETAILS



CHANDRU.P

Placed in

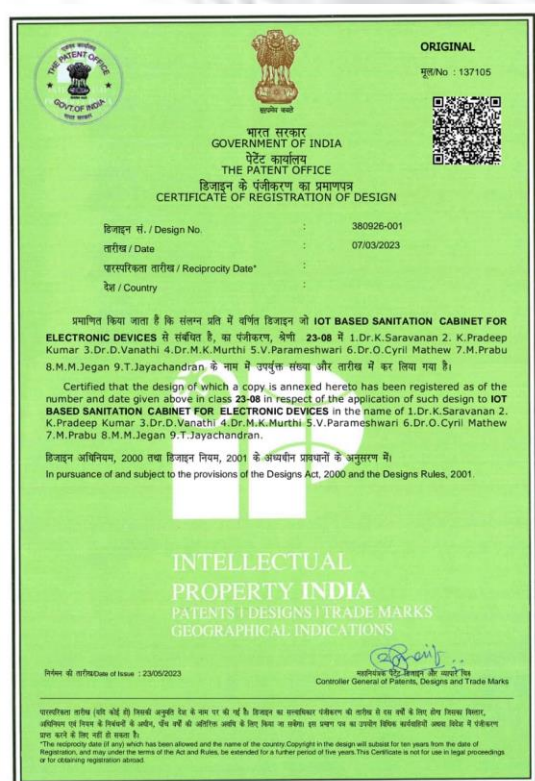


BHARANIDHARAN M



FASIMA BANU B

Dr. M. K. Murthi, Prof/ Mechanical, filed a design patent “IOT Based Sanitation Cabinet for Electronic Devices”.



Placed in



**Cognizant
Technology
Solutions**



VELAYUTHAM.P



Placed in

**INDUSTRIAL
LIGHT & MAGIC**



JANAGA NANDHINI M.P



KIRUTHIKA M



JEEVAN PRASATH. D



SANKAR N



KISHOR A



NAVEEN M K



MUTHUKARUPPANASAMY.V



PRANAV KARTHIKEYAN A



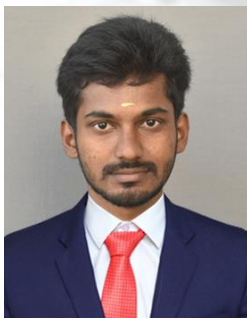
SABARISH K



DHARANEESH P



JAGADEESH S



SOUNDER RAJ.K



VIJAY PRASATH G





BARATH.C.V

Placed in **Lakshmi Electrical Control System**



BALAJI A

Placed in **Bright Star Education**



JAMBUKESHWARAN K

Placed in **Nouveaux Industries**



DILIP KUMART

Placed in **Titan**



BOOPATHY S

Placed in **Sense7Ai**



VIJAYAKUMAR.G

Placed in **TVS UPASANA LIMITED**
(formerly Upasana Engineering Ltd)



JEGAN S



SIVAGURU. M

Placed in **Mapal India Pvt. Ltd.**



JAWAHAR SURIYA.V

Placed in **UCAL Fuel Systems**



PRAVEEN.S

Placed in Delphi TVS



VENUGOPAL.S



PAVITHRAN S

Placed in SPIC



JANAGA NANDHINI M.P



KIRUTHIKA M

NEWSPAPER CLIPPINGS

The Hindu 03.05.2023

Placed in



PRADEEP KUMAR P

Placed in Bull Machines



KOWCHIKKUMAR C K

Placed in Hepatica

ENGAGEMENTS

ERODE

Nandha Engineering College: Department of Computer Applications, seminar on Health in Different Perspective, 10 a.m.; Department of ECE, Hands-on training on PCB designing, 9.30 a.m.; Department of Mechanical Engineering, technical talk on Industrial Automation and Concepts behind Industry 4.0, 1.30 p.m.

நந்தா பொறியியல் கல்லூரி இயந்திரவியல் துறை மாணவர்கள் தேசிய அளவிலான போட்டியில் சாதனை



சுரோடு மே 4 இந்திய வாகனப் பொறியாளர்கள் கூட்டமைப்பின் தெற்கு பிராந்தியத்தின் சார்பில் திண்டுக்கல் பி.எஸ்.என்.ஏ பொறியியல் கல்லூரியில் தேசிய அளவிலான சைக்கிள் வடிவமைப்பு போட்டி அண்மையில் நடைபெற்றது. இப்போட்டியில் சுமார் 42 கல்லூரிகளிலிருந்து இயந்திரவியல் பொறியியல் துறையினரை சார்ந்த மாணவர்கள் தங்களது வித்தியாசமான முறையில் வடிவமைக்கப்பட்ட சைக்கிள் மாதிரிகளுடன் கலந்துகொண்டார்கள். இந்த போட்டியில் நந்தா பொறியியல் கல்லூரியின் இயந்திரவியல் மாணவர்கள் மூன்று அணிகளாக துறையின் தலைவர் புலமுதல்வர் முனைவர் எம். ஈஸ்வரமூர்த்தி தலைமையில் கலந்துகொண்டார்கள். அதில் மாணவர்கள் ச.ராஜவிக்கேஷ், கா. புகழேந்தி, ச.சந்தோஷ், ச.யுவராஜ், க.நந்தகுமார், ச.கர்ஜித்குமார் மற்றும் தமிழினியா ஆகியோர் வடிவமைத்த சைக்கிள் மாதிரி தேசிய அளவில் இரண்டாம் சைக்கிள் மாதிரிகளுடன் கலந்துகொண்டார்கள். படைத்தது. சிறப்பான முறையில் சைக்கிளை வடிவமைத்து வெற்றி பெற்ற மாணவர்களை நந்தா கல்வி அறக்கட்டளையின் தலைவர் வி.சண்முகன்செயலர் திரு. எஸ். நந்தகுமார் பிரதிப, நந்தா கல்வி நிதி வளங்களின் செயலர் எஸ். திருமூர்த்தி, முதன்மை நிர்வாக அலுவலர் முனைவர் எஸ். ஆறுமுகம், கல்லூரியின் முதல்வர் என்.ரெங்கராஜன் மற்றும் தொழிற்பாட்பாளராகத்தின் இயக்குனர் முனைவர் ஜெ.செந்தில் ஆகியோர் தங்களது பாராட்டுகளை தெரிவித்தார்கள்.



Our department faculty members participated in conferences, Faculty Development Programmes, seminars and workshops organized by various universities, institutions and professional bodies.



17 of our department faculty members have successfully completed the online courses in NPTEL during January to April 2023.



ACADEMIC TOPPERS

II YEAR



RAJAVIGNESH S

III YEAR



MERLIN ABINAYA D V

IV YEAR



PAVITHRAN S

EDITORIAL TEAM

Dr. N. Rengarajan, Principal

Dr. M. Easwaramoorthi, HoD – Mech.

Mr. S. Muruganantham, AP – Mech.

Mr. G. Arun Vijay – Final Mech.

Mr. A. R. Prathish – Third Mech.



NANDHAENGINEERING COLLEGE
(Autonomous)

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