



**SAKTHI POLYTECHNIC
COLLEGE
DEPARTMENT OF MECHANICAL
ENGINEERING
NEWS LETTER**



ISSUE No:13

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DEPARTMENT VISION

➤ To create industry competent and socially responsible Mechanical Engineers with an appetite for lifelong learning.

DEPARTMENT MISSION

➤ Create high quality technical learning environment with an emphasis on social and moral responsibility.

➤ Impart mechanical engineering knowledge in latest and trending concepts.

➤ Encourage the students to acquire knowledge and skills needed for industries.

EDITORIAL BOARD

1. Dr. N. Thangavelu - HOD
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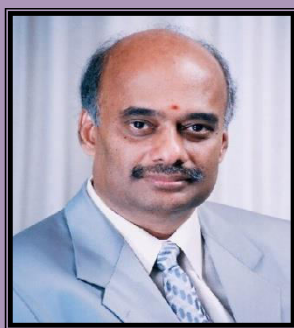
ஆசிரியர் உரை

கனவுகள் உறங்கும் போது
காணப்படுபவை அல்ல; நம்மை
உறங்கவிடாமல் செய்பவையே
உண்மையான கனவுகள். அந்தக்
கனவுகளை நனவாக்கும் ஆற்றல்
கல்வியிலும், உழைப்பிலும்,
விடாமுயற்சியிலும் இருக்கிறது.

"கனவை நம்புங்கள்;
அறிவை வளர்த்துக்
கொள்ளுங்கள்;
உழைப்பை வழிகாட்டியாகக்
கொள்ளுங்கள்;
வெற்றி உங்களின் நிரந்தரத்
துணையாகும்."

**DEPARTMENT OF MECHANICAL ENGINEERING****Since 1981****Department News Letter****For the Academic year 2023-2024-EVEN Semester****With blessings from our founder****Padma Bhushan****Arutselvar Dr. N. MAHALINGAM, B.Sc., F.I.E.****Founder – Sakthi Polytechnic College.**

Arutselvar DR. N. MAHALINGAM a legendary Gandhian by principle, a patriotic and proud son of the soil, Dr. N. MAHALINGAM was a man of pious living. His exemplary social contributions in numerous fields of socio-economic spectrum have benefited scores of institutions and individuals inspired by him during his long career. The government of India duly recognized his meritorious deeds and honored him with the prestigious Civilian Award - PADMA BHUSHAN. Dr. N. Mahalingam is also a recipient of many awards and titles conferred upon him by various educational, social and cultural institutions. As a industrialist he has several important positions and has played major roles fostering the development of agricultural, industrial, human resource and institutional development at the State and National levels. He is the Pioneer of sugar industry. He has rendered notable literary contributions. His social and humanitarian considerations took his journey beyond the boundaries of industries and scholarly tents he nurtured.

**CHAIRMAN****Dr. M. MANICKAM, M.Sc., M.B.A**

Dr. M. Manickam, the eldest son of Arutchelvar Dr N Mahalingam, is an industrialist, educationalist and an outstanding administrator with an M.B.A from the University of Michigan, U.S.A. He is the chairman of NIA educational institutions and Vice- Chairman of Sakthi Sugars. Under his capable guidance and stewardship, Sakthi Sugar Mills has expanded and set-up institutions in many places. Through his constant efforts, Sakthi Auto Components Ltd has modernized and expanded. He had been the President of the "All India Sugar Manufacturers Association" and currently he is the President of Indian Sugar Technologists Association. He was awarded an Honorary Doctorate Degree by Tamil Nadu Agricultural University. He evinces keen interest in the development of Good Infrastructure in the technical institute.

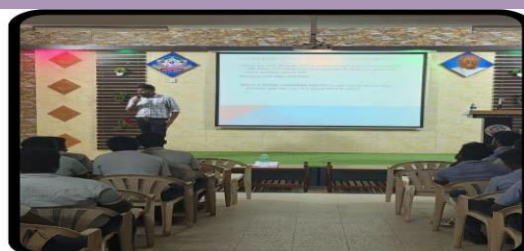


PRINCIPAL
Dr. N. THANGAVELU M.E., Ph.D., MISTE.,

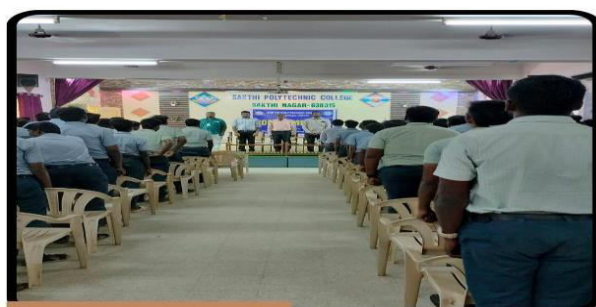
Technology is the need of the hour. In this era of Globalization when there is a need for an enormous number of technically qualified personnel, Polytechnics play a vital role in supplying the industries, the inputs of their choice. Keeping this in mind our beloved Founder Arutselvar Padma Bhushan Dr N. Mahalingam established Sakthi Polytechnic College with a foresight and vision in this predominantly rural and agricultural area of Sakthi Nagar. The main aim of this Institution is to bring technical education within the reach of the rural youth. We ensure that our Institution with its excellent infrastructure, well qualified staff and conducive atmosphere for learning will go a long way in motivating the rural students to become leaders of technology in future. With Sakthi to lead them, Technical Education is no longer a distant dream for rural youth but very much a reality within their reach.

S.No	Name of the Faculty	Designation
1	Dr. N.Thangavelu M.E., Ph.D.,	HOD
2	Dr. A.Shyam M.E., Ph.D.,	Lecturer
3	Mr. S.Prabakaran M.E.,	Lecturer
4	Mr. R.Srinivasan B.E.,	Lecturer
5	Mr. J.Sasikumar B.E.,	Lecturer
6	Mr. T.Velmurugan M.E.	Lecturer
7	Mr. P.Kamalesan M.E.,	Lecturer
8	Mr. D.Mahendran B.E.,	Lecturer
9	Mr. R.Thangaraj D.M.E., B.E.,	Junior Drafting Officer(Sel.Gr.)
10	Mr. M.Sasikumar D.M.E.,	Workshop Instructor
11	Mr. K.R.Sankar I.T.I., CI., PGDCA., MA.	Workshop Instructor
12	Mr. A.Karthikeyan I.T.I.	Workshop Instructor
13	Mr. M.Jagadeesh I.T.I.	Workshop Instructor
14	Mr. K.S.Bagavathiannan D.M.E.,	Workshop Instructor
15	Mr. B.Sabinath D.M.E., B.E.,	Workshop Instructor
16	Mr. T.Selvaraj I.T.I.	Skilled Assistant (Sel.Gr.)
17	Mr. S.Sivalingam I.T.I.	Skilled Assistant

Guest Lecture: The Department of Mechanical Engineering organized a guest lecture on "Introduction to Steel Structures" on 10.02.2024 for the Second and Third Year Mechanical Engineering students. The session was delivered by Mr. R. Devakrishnan, Senior Detailer, ARTERAS Engineering Pvt. Ltd. The resource person introduced the fundamentals of steel structures, structural detailing, fabrication processes, and industry standards followed in modern construction projects. Students gained valuable insights into the practical applications of steel structures, career opportunities in structural engineering, and the importance of precision in engineering design and detailing.



Forum Meeting



Guest Lecture on Introduction to Steel Structures

A State Level Symposium- IGNITER 2K24 Symposium Details:

The Department of Mechanical Engineering was conducted “A State Level Technical Symposium” “IGNITER 2K24” on 07.03.2024. Events like Paper presentation, Project Expo, Fun Games, Short films and Photography was conducted. In this connection various college Students were participated and secured different Position. The Department of Mechanical Engineering, Sakthi Polytechnic College, Sakthi Nagar, Erode, Tamil Nadu, wishes to thank our Management and Principal for given approval to conduct this Symposium.



SAKTHI POLYTECHNIC COLLEGE
SAKTHI NAGAR-638315
Govt.Aided & AICTE Approved Institution

DEPARTMENT OF MECHANICAL ENGINEERING
Proudly Presents:

IGNITER - 2K24
a state level symposium

EVENTS
Paper Presentation
Project Expo
Fun Games
Short Films(5-min)
Photography

PAPER PRESENTATION TOPICS
E-VEHICLE
APPLICATION OF AI IN MECH.ENG
RENEWABLE ENERGY
INNOVATIVE IDEAS IN MECH.ENG

07 MARCH 2024
09.00 am - 04.30 pm
LAST DATE OF REG
05 MARCH 2024

Venue
SPC campus
sakthi nagar-638315
For Details
9551388738
9003948381

Chief Coordinator
Dr.N.THANGAVELU
Principal
Coordinators
Dr.A.SHYAM -Lecturer/mech
Mr.J.SASIKUMAR-Lecturer/mech
Student Coordinators
P.HARIHARAN - 3rd mech
T.BHARATHI - 3rd mech

Scan QR code
to Register

Registration
fees Rs.150/-
per head

Rules:
1. Two members has to participate in each event except Photograph
2. Please bring your College ID card
3. Participation certificate will be provided to all participants
4. Lunch and Refreshment will be provided

**State Level Symposium**

Industrial Visit – Mettur Thermal Power Station & Mettur Dam:

The II-Year Mechanical Engineering (A Section) students of Sakthi Polytechnic College participated in an industrial visit to Mettur Thermal Power Station and Mettur Dam, Mettur – 636 406, on 23.02.2024. The visit provided valuable exposure to thermal power generation, boiler and turbine operations, and power plant maintenance practices. Students also explored the engineering significance of the Mettur Dam, gaining insights into water resource management and hydro-engineering. The industrial visit effectively bridged classroom learning with practical industrial applications, enriching the students' technical knowledge and professional outlook.

**Industrial Visit to Mettur Thermal Power**

Industrial Visit – AQUASUB Engineering Unit-I, Coimbatore:

The II-Year Mechanical Engineering (A Section) students of Sakthi Polytechnic College participated in an industrial visit to AQUASUB Engineering Unit-I, Thudiyalur, Coimbatore – 641034, on 02.02.2024. The visit offered students practical exposure to the manufacturing processes of industrial pumps, precision machining, assembly techniques, and quality control practices. Students gained valuable insights into modern production methods and industrial engineering standards, enhancing their technical knowledge and understanding of real-world manufacturing environments.

**Industrial Visit to Aquasub Engineering**

Industrial Visit – Mettur Thermal Power Station & Mettur Dam:

The II-Year Mechanical Engineering (B Section) students of Sakthi Polytechnic College participated in an industrial visit to Mettur Thermal Power Station and Mettur Dam, Mettur – 636 406, on 22.02.2024. The visit provided valuable exposure to thermal power generation, boiler and turbine operations, and power plant maintenance practices. Students also explored the engineering significance of the Mettur Dam, gaining insights into water resource management and hydro-engineering. The industrial visit effectively bridged classroom learning with practical industrial applications, enriching the students' technical knowledge and professional outlook.



Industrial Visit to Mettur Thermal Power

Industrial Visit – AQUASUB Engineering Unit-I, Coimbatore:

The II-Year Mechanical Engineering (B Section) students of Sakthi Polytechnic College participated in an industrial visit to AQUASUB Engineering Unit-I, Thudiyalur, Coimbatore – 641034, on 16.02.2024. The visit offered students practical exposure to the manufacturing processes of industrial pumps, precision machining, assembly techniques, and quality control practices. Students gained valuable insights into modern production methods and industrial engineering standards, enhancing their technical knowledge and understanding of real-world manufacturing environments.

**Industrial Visit to Aquasub Engineering****Industrial Visit – Salem Steel Plant:**

The III-Year Mechanical Engineering (B Section) students of Sakthi Polytechnic College participated in an industrial visit to Salem Steel Plant, Sarkar Kollapatty, Maramanagalathupatti, Salem – 636 013, on 16.02.2024. The visit provided students with practical exposure to stainless steel manufacturing processes, including hot and cold rolling,

annealing, pickling, and quality inspection techniques. Students also gained valuable insights into modern steel production, plant operations, safety practices, and quality management systems, strengthening their understanding of industrial manufacturing and metallurgical engineering.

Industrial Visit – Lakshmi Machine Works Limited (Machine Tool Division):

The III-Year Mechanical Engineering (A Section) students of Sakthi Polytechnic College participated in an industrial visit to **Lakshmi Machine Works Limited (LMW), Machine Tool Division, Arasur, Coimbatore – 641 407**, on **23.02.2024**. The visit provided students with valuable exposure to advanced CNC machine tool manufacturing, precision machining, assembly, quality control, and modern production practices. Students gained practical insights into industrial automation, manufacturing excellence, and the latest technologies employed in the machine tool industry, enhancing their technical knowledge and industry readiness.

Industrial Visit – Tamil Nadu Newsprint and Papers Limited (TNPL):

The III-Year Mechanical Engineering (A & B Sections) students of Sakthi Polytechnic College participated in an industrial visit to **Tamil Nadu Newsprint and Papers Limited (TNPL), Kagithapuram – 639 136**, on **29.02.2024**. The visit offered students valuable exposure to the integrated paper manufacturing process, including pulp preparation,

paper production, power generation, and quality control systems. Students also gained insights into sustainable manufacturing practices, energy conservation, waste management, and modern industrial operations, enriching their practical knowledge and understanding of large-scale process industries.

Faculty Contribution:

- ❖ Arshad Ahmed, K.R., Naveen Kumar, J.P., Shyam, A. and Christopher, S.S., 2024. Numerical investigation in an indirect concentrated solar thermal dryer incorporated with discrete mirrors. Numerical Heat Transfer, Part A: Applications, pp.1-20.(ImpactFactor:2.8)
- ❖ A three-day Faculty Development Programme (FDP) on "CFD Simulation Using ANSYS Fluent" was successfully organized by the Department of Mechanical Engineering, Sakthi Polytechnic College, Erode, from 27.02.2024 to 29.02.2024. The programme was coordinated by Dr. A. Shyam, Lecturer, Department of Mechanical Engineering.
- ❖ Dr. A. Shyam, Lecturer, Department of Mechanical Engineering, Sakthi Polytechnic College, participated in the Faculty Development Programme on "Viksit Bharat 2047 – Role of Engineering Faculty", held at Rajiv Gandhi University of Knowledge Technologies (RGUKT), Andhra Pradesh, from 29.01.2024 to 02.02.2024.
- ❖ Dr. A. Shyam, Lecturer, Department of Mechanical Engineering, Appointed as Faculty anchor for preparing the curriculum and syllabus

for the course 1122-Diploma in Fire Technology and Safety under new Regulation 2023. Letter No. 23069/Y3/CDC/2022 Dated: 19.02.2024.

❖ Mr. P. Kamalesan, Lecturer, Department of Mechanical Engineering, Appointed as Faculty anchor for preparing the curriculum and syllabus for the course 1122-Diploma in Fire Technology and Safety under new Regulation 2023. Letter No. 23069/Y3/CDC/2022 Dated: 19.02.2024.

❖ Mr. P. Kamalesan, Lecturer, Department of Mechanical Engineering, Served as Project Work Monitoring Committee Member, evaluating final-year student projects for allotted institutions and providing guidance for quality improvement. Dote Letter No:110001/M1/2024, Date:09.10.2024.

❖ Dr. A. Shyam, Lecturer, Department of Mechanical Engineering, Served as Project Work Monitoring Committee Member, evaluating final-year student projects for allotted institutions and providing guidance for quality improvement. Dote Letter No:110001/M1/2024, Date:09.10.2024.

Students Participation:

❖ The II-Year Mechanical Engineering students of Sakthi Polytechnic College actively participated in **POLYSYM-DIY**, a technical symposium organized by **Nachimuthu Polytechnic College**. The event provided an excellent platform for students to showcase their technical skills, innovative ideas, and creativity through various competitions. Their enthusiastic participation enhanced their practical

knowledge, confidence, teamwork, and interaction with students from other institutions, contributing to their overall professional development.

❖ Mr. Keerthivasan J., II-Year Mechanical Engineering, brought laurels to Sakthi Polytechnic College by securing Second Place in POLYSYM-DIY, a technical event organized by Nachimuthu Polytechnic College. His outstanding performance reflected his technical knowledge, creativity, and problem-solving skills. This achievement highlights the department's commitment to encouraging innovation and excellence among students through active participation in inter-polytechnic technical competitions.

❖ Ms. Hephzipah A., Student of Mechanical Engineering, made the department proud by securing Third Place in POLYSYM-PPT, a technical presentation event organized by Nachimuthu Polytechnic College. Her excellent presentation skills, technical knowledge, and confident delivery earned her this achievement. The accomplishment reflects the department's continuous efforts to nurture innovation, communication skills, and academic excellence among its students.

❖ Mr. Subasridar V., II-Year Mechanical Engineering, brought pride to Sakthi Polytechnic College by securing Second Place in EXCEL TECHNOFEST, organized by Excel Polytechnic College. His remarkable performance showcased his technical competence, innovation, and problem-solving abilities.

Placement Achievements:

The Department of Mechanical Engineering, Sakthi Polytechnic College, achieved an outstanding placement record during the academic year 2023–2024, reflecting its commitment to academic excellence and industry-oriented training. A total of 86 students secured placements in leading multinational and core engineering companies through campus recruitment drives.

Students received placement opportunities in reputed organizations such as TVS Group, Integra Automation, Aqua Group, Jindal Saw Ltd., L&T Defence, Sundram Fasteners, Sanmar Group, Brakes India, LGB, Narico, TVS Training and Services, and several other renowned industries. The department recorded 219 job offers, with the highest salary package of ₹27,000 per month and an average salary package of ₹17,000 per month.



SAKTHI POLYTECHNIC COLLEGE, SAKTHI NAGAR - 638 315

GOVT.AIDED | APPROVED BY AICTE & AFFILIATED TO DOTE, CHENNAI | NBA ACCREDITED PROGRAMMES - CIVIL, MECH, MET & EEE & ECE

PLACEMENT RECORD - 2023-24





MECHANICAL ENGINEERING



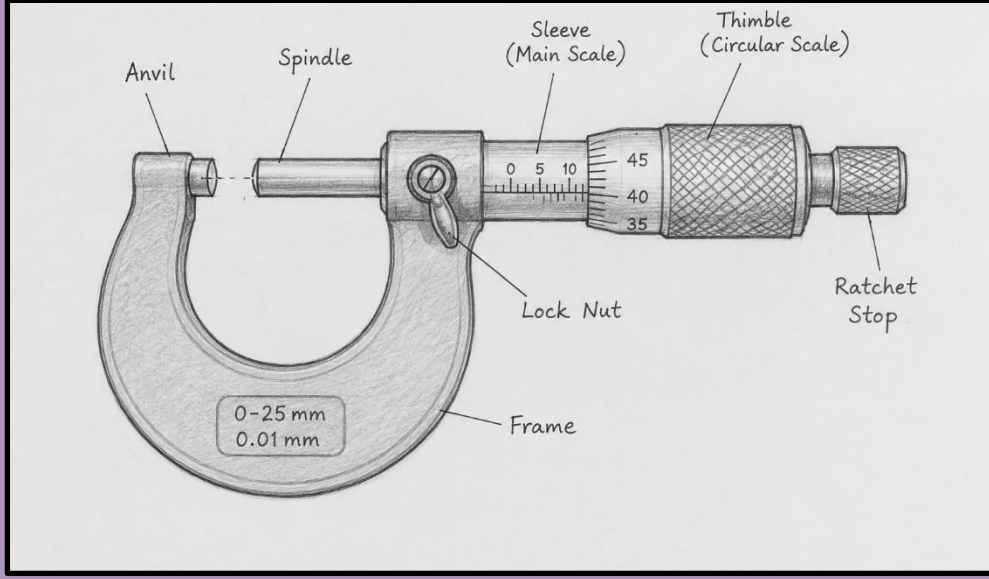


NO. OF STUDENTS ADMITTED	NO. OF STUDENTS OPTED FOR HIGHER STUDY	NO. OF STUDENTS REGISTERED FOR PLACEMENT	NO. OF STUDENTS PLACED	NO. OF OFFERS
88	02	86	86	219

HIGHEST SALARY PACKAGE : 27,000 / MONTH

AVERAGE SALARY PACKAGE : 17,000 / MONTH

Placement Achievements

Students Activities:

Art by,

M. Balaji - III / Mech

இளம் பொறியாளன்

கனவு காணும் கண்களில்,

கண்டுபிடிப்பு பிறக்கிறது.

உழைக்கும் கைகளில்,

உலகம் வளர்கிறது.

இரும்பின் மொழியை அறிந்தவன்,

எதிர்காலத்தின் மொழியையும் எழுதுவான்

“மெக்கானிக்கல் பொறியாளர் நாம்;
எதிர்காலத்தை உருவாக்குவதே எங்கள் கனவு”!