



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



ISSUE No:17

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DEC 2025 to MAY 2026

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. C. Shanmugam | - HOD |
| 2. Mr. P. Kamalesan | - Lecturer |
| 3. Dr. A. Sivalingam | - Lecturer |
| 4. Mr. K. G. Mounnisha | - III Mech |
| 5. Mr. K. Nandhisha | - II Mech |

ஆசிரியர் உரை

முயற்சி விதைத்தால்,
வெற்றி மலரும்.

உழைப்பு தொடர்ந்தால்,
உயர்வு பிறக்கும்.

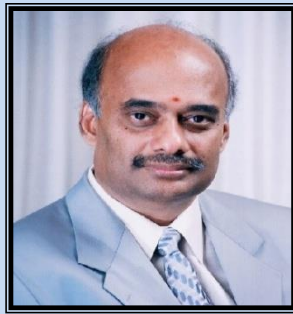
நேர்மையை நெஞ்சில் நிறுத்து,
நம்பிக்கையை கையில் பிடி.

வாழ்க்கை உனக்காக
வாசல் திறந்து காத்திருக்கிறது.

" கல்வி உன் செல்வமாகட்டும்;
பண்பு உன் புகழாகட்டும்...!"

**DEPARTMENT OF MECHANICAL ENGINEERING****Since 1981****Department News Letter****For the Academic year 2025-2026-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.

**CORRESPONDENT****THIRU.G MUNIASAMY, B.TECH., MBA**

Sakthi Polytechnic College is an Institution with a difference, started with the mission of providing quality technical education to rural youth at affordable cost. It is the vision of our beloved Founder Chairman Arutchelvar Dr. N Mahalingam, to empower the rural youth with technical knowledge and skills to train them as the most suited manpower to meet the needs and demands of the growing industrial scenario. We ensure that with the vast potentials for growth and avenues for development, Sakthi Polytechnic College will enhance the capabilities and nurture the latent talents of youth to emerge as entrepreneurs rather than job seekers.



PRINCIPAL
Dr. S. SENTHILARASU M.E., Ph.D., MISTE.,
PRINCIPAL (IN-CHARGE)

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 Bhusan Dr N. Mahalinam 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.



DIRECTOR
DR. K.R MUTHUSWAMY M.E., Ph.D.,

“A desire can change nothing, a decision can change something but a determination can change everything”. It gives me immense pleasure to welcome you all to Sakthi Polytechnic College, an eco-friendly campus that strives with a goal to attain excellence by empowering students with sound knowledge, wisdom and experience. Our strength lies in creating pleasant ambience with an excellent infrastructure, qualified and experienced faculty, commitment to personal care, motivation to excel in academic/extracurricular activities and continuous interaction with industry. Over the past 41 years, the college has witnessed a strong blend of state-of-the-art infrastructure and dedicated human resource committed to provide professional education with thrust on creativity and innovation. The motivating environment in SPC for knowledge assimilation, generation and dissemination with a sense of social responsibility, human values and concern for environment has carved a niche for itself among the best technical Institutes.



**Dr. C. SHANMUGAM M.E., Ph.D.,
HOD**

Mechanical Engineering is one of the most comprehensive professional disciplines. Its principles are applied across a wide range of industries, including power generation, manufacturing, energy, repair and maintenance, automation and control, robotics, electronics, nanotechnology, food processing, automotive, petroleum, aerospace and defense sectors. The Department of Mechanical Engineering was established in 1981 and offers a Diploma in Mechanical Engineering with a current intake of 90 students. The department is supported by highly experienced and dedicated faculty members and staff who are committed to imparting quality education. In addition to academics, the department emphasizes the holistic development of students by organizing workshops, seminars, and industrial visits. All laboratories are fully equipped with modern machinery and equipment to provide practical exposure. The department believes in molding students into successful engineers and future leaders, equipped with strong knowledge, analytical skills, and creativity to develop innovative solutions to any challenges, with a commitment not only to industry but also to society.

S.No	Name of the Faculty	Designation
1	Dr. C. Shanmugam M.E., Ph.D.,	HOD
2	Dr. A. Shyam M.E., Ph.D.,	Lecturer
3	Mr. P. Kamalesan M.E.,	Lecturer
4	Dr. S. Sathishkumar M.E., Ph.D.,	Lecturer
5	Mr. M. Kirankumar B.E., M.Tech.,	Lecturer
6	Dr. A. Sivalingam M.E., Ph.D.,	Lecturer
7	Mr. D. Mahendran B.E.,	Lecturer
8	Mr. R. Thangaraj D.M.E., B.E.,	Junior Drafting Officer (Sel.Gr.)
9	Mr. M. Sasikumar D.M.E.,	Workshop Instructor
10	Mr. K.R. Sankar I.T.I., Cl., PGDCA., MA.	Workshop Instructor
11	Mr. A. Karthikeyan I.T.I.	Workshop Instructor
12	Mr. M. Jagadeesh I.T.I.	Workshop Instructor
13	Mr. T. Selvaraj I.T.I.	Skilled Assistant (Sel.Gr.)
14	Mr. S. Sivalingam I.T.I.	Skilled Assistant

One-Day Workshop:

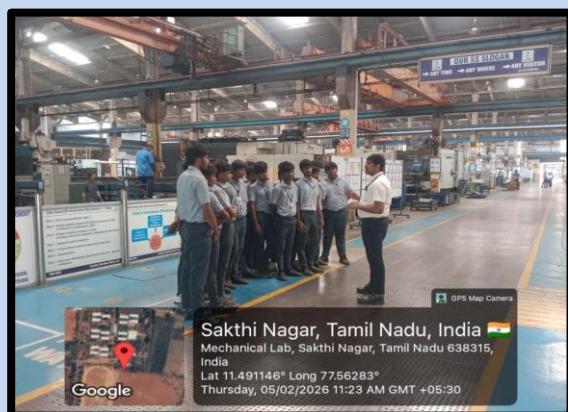
The Department of Mechanical Engineering organized an industrial visit to PSG TIFAC CORE – Rapid Prototyping/Additive Manufacturing Centre on 23.01.2026 for 54 Third-Year Mechanical Engineering students accompanied by two faculty members. During the visit, students gained practical exposure to modern product development techniques, including Rapid Prototyping, Rapid Tooling, and Reverse Engineering. Experts demonstrated advanced Additive Manufacturing technologies, 3D scanning, CAD model generation, prototype fabrication, and product development workflows. The interactive sessions enabled students to understand the industrial applications of these technologies in design validation, product innovation, and manufacturing. The visit successfully bridged the gap between classroom learning and industrial practice, enhancing the students' technical knowledge and encouraging innovation in product design and development.





Different Parts Manufacturing Using Additive Manufacturing

Industrial Visit: On 05.02.2026 and 06.02.2026, the second-year Mechanical Engineering (A & B Sections) students organized an industrial visit to Lakshmi Machine Works (LMW), Kaniyur, Coimbatore, as part of their academic curriculum. The visit aimed to bridge the gap between theoretical knowledge and practical industrial exposure. During the visit, students observed various manufacturing processes, advanced machinery, and quality control practices followed in the production units. The technical experts at LMW explained the working principles of modern machines, production planning methods, and safety measures implemented in the industry.



Industrial Visit to LMW-Coimbatore

Industrial Visit: The Second-Year Mechanical Engineering students visited DMW CNC Solutions India Private Limited, Perundurai, during the Even Semester of the academic year 2025–2026. The visit provided practical exposure to modern manufacturing facilities, CNC machining operations, production processes, assembly, quality inspection, and industrial safety practices. Students gained an understanding of how mechanical engineering concepts are applied in real-time industrial environments. The visit was useful in improving their technical knowledge and awareness of industrial work culture.



Industrial Visit to DMW-PERUNDURAI

Industrial Visit: In a proactive step toward aligning academic learning with real-world technical expertise, 69 students from the Department of Mechanical Engineering at Sakthi Polytechnic College participated in an intensive industrial visit today to L&T Pumping Unit-I, Kalingarayanpalayam, Bhavani. Organized under the prestigious Naan

Mudhalvan initiative by the Government of Tamil Nadu, the visit provided students with first-hand exposure to modern industrial practices.



Industrial visit to L &T Pump division- Kalingarayanpalayam

Guest Lecture: On February 18, 2026, Mr. B. Rajkumar, Head of DMW (Diesel Machinery Works) in Perundurai, delivered a talk on "Recent Trends in Advanced Manufacturing Engineering" at a forum meeting. While specific transcripts of every internal forum meeting are not always publicly archived, the key trends in advanced manufacturing for early 2026 generally focus on the following pillars: Industry 4.0 & 5.0 Integration: Shifting from pure automation to human-centric manufacturing where AI, robotics, and digital twins work alongside humans to enhance productivity and safety.

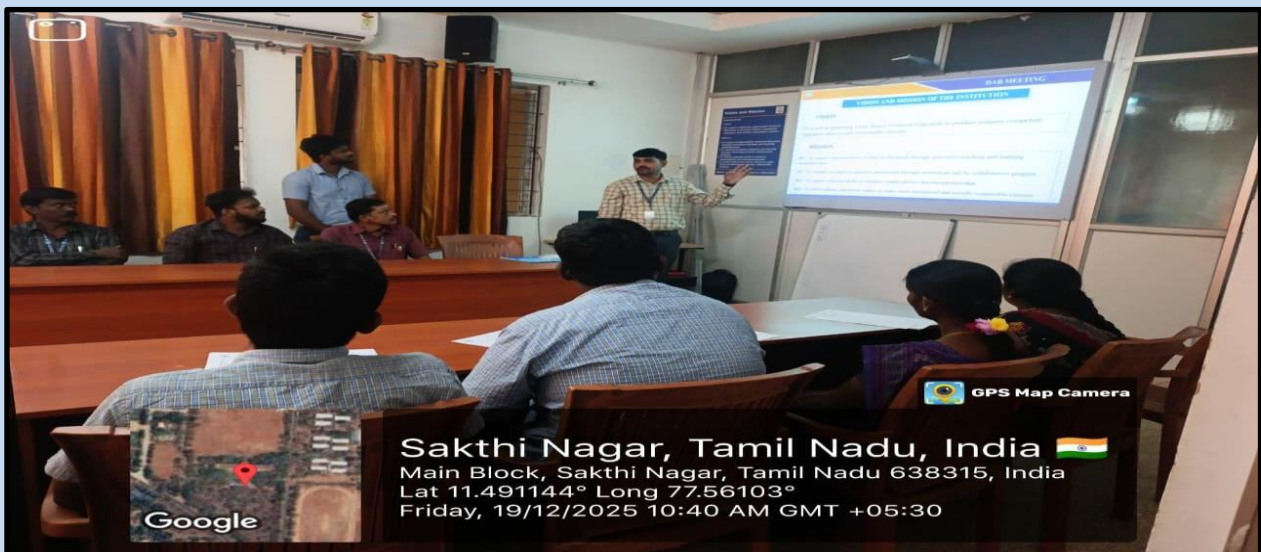
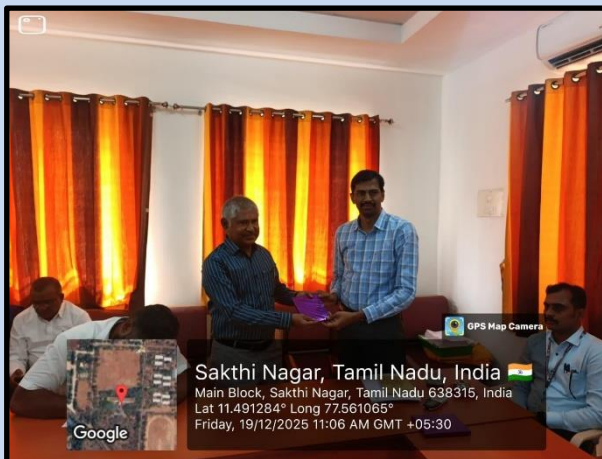


Guest Lecture-Recent Trends in Advanced Manufacturing Engineering

Departement Advisory Board: The Department Advisory Board (DAB) meeting of Mechanical Department was conducted today (19.12.2025) in the Conference Hall, Sakthi Polytechnic College. The meeting was coordinated by Dr. C. Shanmugam, Head of the Department, with the presence of the faculty members, alumni, parents and distinguished industrial experts Thiru. M. Palanisamy, Assistant Manager, Safety Department, Sakthi Sugars Ltd., and Thiru. R. Manikandan, Managing Director, Queen India Engineering Services, Bhavani.

The active participation of the industry experts, along with internal members, led to productive discussions on curriculum relevance,

industrial safety practices, emerging industry requirements, student skill development, employability enhancement, and industry–institution collaboration. Valuable suggestions and recommendations were provided by the members to strengthen academic quality, practical exposure, and overall departmental development.



Department Advisory Board Meeting Presentation

Pongal Festival Celebration:

Our department celebrated Pongal festival with great enthusiasm and traditional spirit on 13.01.2026. The campus was beautifully decorated with colorful kolams, sugarcane, and traditional decorations, creating a festive atmosphere. The celebration began with the traditional Pongal preparation, symbolizing prosperity and gratitude to nature. Students and staff actively participated in various cultural events, including folk dances, traditional games, and music performances, showcasing the rich cultural heritage of Tamil Nadu.

**Pongal Celebration**

Memorandum of Understanding:

1. The Department of Mechanical Engineering, Sakthi Polytechnic College, signed a Memorandum of Understanding (MoU) with C-CUBE Technologies on 05.02.2026. The collaboration aims to strengthen industry–institution interaction by providing students with opportunities for technical training, industrial exposure, skill development programmes, internships, and placement assistance. This initiative will bridge the gap between academic learning and industry requirements, enhancing the employability and practical knowledge of students.
2. The Department of Mechanical Engineering, Sakthi Polytechnic College, signed a **Memorandum of Understanding (MoU)** with **ELIES Biotech Private Limited** on **15.06.2026** to strengthen industry–institution collaboration. The partnership aims to provide students with industrial training, internships, project guidance, skill development programmes, industrial visits, guest lectures, and placement opportunities. This collaboration will enhance students' technical competencies and bridge the gap between academic learning and industry expectations, thereby improving their career prospects.

Details of FDP Organized:

1. Dr. A. Shyam successfully organized a Faculty Development Programme (FDP) on "Research & Development using MATLAB" from 15.12.2025 to 19.12.2025. The programme was sponsored by NITTTR Chandigarh with a sanctioned grant of ₹4,000. The FDP provided participants with practical knowledge of MATLAB for engineering research, simulation, data analysis, and product development, thereby enhancing the teaching and research capabilities of faculty members.

Faculty Development Program:

1. Dr. C. Shanmugam, Head of the Department of Mechanical Engineering, successfully completed a one-week online Faculty Development Program on "Research and Development using MATLAB" from 15.12.2025 to 19.12.2025. The program was conducted by the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh.

2. Dr. C. Shanmugam, Head of the Department of Mechanical Engineering, has successfully completed online certification Program on "Bajaj Manufacturing Systems". The program was conducted by Bajaj Auto Ltd.

3. Dr. A. Shyam, Lecturer, Department of Mechanical Engineering, successfully completed a one-week online Faculty Development Program on "Research and Development using MATLAB" from 15.12.2025 to 19.12.2025. The program was conducted by the National

Institute of Technical Teachers Training and Research (NITTTR), Chandigarh.

4. Mr. P. Kamalesan, Lecturer, Department of Mechanical Engineering, successfully completed a one-week online Faculty Development Program on “Research and Development using MATLAB” from 15.12.2025 to 19.12.2025. The program was conducted by the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh.

5. Mr. P. Kamalesan, Lecturer, Department of Mechanical Engineering, has successfully completed online certification Program on “Bajaj Manufacturing Systems”. The program was conducted by Bajaj Auto Ltd.

6. Dr. S. Sathishkumar, Lecturer, Department of Mechanical Engineering, successfully completed a one-week Faculty Development Program on “CNC Milling” from 15.12.2025 to 20.12.2025. The program was conducted by Tamil Nadu Skill Development Corporation, Government of Tamil Nadu, under the Naan Mudhalvan Scheme and was held at Directorate of Technical Education (DOTE).

7. Mr. D. Mahendran, Lecturer, Department of Mechanical Engineering, successfully completed a one-week online Faculty Development Program on “Research and Development using MATLAB” from 15.12.2025 to 19.12.2025. The program was conducted by the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh.

Paper Publication:

❖ Dr. C. Shanmugam, Head of the Department of Mechanical Engineering published a research article titled “Experimental Heat Transfer and Contact Area Analysis in Large- Diameter Slewing Ring Thrust Ball Bearings Using a Linear Model Mock-Up Bearing” ASME journal of Thermal Science and Engineering Applications, SEPTEMBER 2026, Vol. 18 / 091008-1.

❖ Dr. A. Shyam published a research article titled “Experimental Investigation in a Solar Parabolic Trough Collector with Optimized Secondary Optics” in the reputed international journal Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Vol. 45, No. 2, 2023, pp.5994–6009. DOI: <https://doi.org/10.1080/15567036.2023.2213656>.

❖ Dr. A. Shyam published a research article titled “Experimental Study in a Compound Parabolic Solar Concentrator with Different Configurations of Thermal Energy Storage System” in the reputed international journal International Journal of Green Energy. DOI: <https://doi.org/10.1080/15435075.2023.2194970>.

❖ Dr. A. Shyam published an original research paper titled “Thermal Performance Enhancement in a Solar Parabolic Trough Collector with Optimized Secondary Optics” in the reputed international journal Clean Technologies and Environmental Policy. DOI: <https://doi.org/10.1007/s10098-023-02649-2>.

❖ Dr. A. Shyam published a research article titled “Numerical

Investigation in an Indirect Concentrated Solar Thermal Dryer Incorporated with Discrete Mirrors” in the reputed international journal Numerical Heat Transfer, Part A: Applications. DOI: <https://doi.org/10.1080/10407782.2024.2380815>.

❖ Dr. A. Shyam published a review article titled “Path of Carbon Dioxide Capture Technologies: An Overview” in the journal Next Sustainability, Volume 6, 2025, Article No. 100118. DOI: <https://doi.org/10.1016/j.nxsust.2025.100118>.

Students Achievement:

❖ Second-year students have participated in various events at the State Level Technical Symposium “TECH BLITZ 2K26,” held at Sree Venkateshwara Hi-Tech Polytechnic College on 30th January 2026, and secured prizes in different categories.

❖ Second-year students have participated in various events at the National Level Technical Symposium “MACHINAX”26,” held at E.I.T. Polytechnic College on 23rd January 2026, and secured prizes in different categories.

❖ Third-year students have successfully completed online certification program on Bajaj Manufacturing System. The program was conducted by Bajaj Auto Ltd.

❖ Third-year students have participated in various events at the National Level Technical Symposium “TECH BLITZ-2K26,” held at SREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE and secured prizes in different categories.

❖ Third-year students have successfully completed online certification Program on “Bajaj Manufacturing Systems”. The program was conducted by Bajaj Auto Ltd.

Farewell Day: A farewell celebration for the final year diploma students was organized on 18/03/2026 at Sakthi Polytechnic College with great enthusiasm and joy. The event was conducted to honor the outgoing students and to celebrate the memorable journey they shared with the institution. The ceremony began with a warm welcome speech followed by the inauguration by the Head of Department, Principal, and Director of the college.



Farewell Day Celebration

Placement Achievements:

The Department of Mechanical Engineering has achieved an outstanding 100% placement record for the academic year 2025–2026. Out of 60 students registered for placement, all 60 students were successfully placed in reputed core engineering and multinational companies. A total of 246 placement offers were received from leading organizations, including LMW, BorgWarner, Royal Enfield, ZF, Alstom, Wakefit, Pricol, Hirotec India, Texmo Blank, Brakes India, Propels, and Seshasayee Paper & Boards Ltd. The highest salary package offered was ₹33,300 per month, with an average salary package of ₹18,000 per month. This remarkable achievement reflects the department's commitment to academic excellence, industry-oriented training, and career development.



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 - 2025-26

MECHANICAL ENGINEERING



OFFERS - 3 / CTC-17,000 / MONTH



OFFERS - 3 / CTC-20,000 / MONTH



OFFERS - 8 / CTC-16,000 / MONTH



OFFERS - 13 / CTC-20,000 / MONTH



OFFERS - 7 / CTC-18,000 / MONTH



OFFERS - 8 / CTC-16,000 / MONTH



OFFERS - 2 / CTC-25,000 / MONTH



OFFERS - 4 / CTC-18,000 / MONTH



OFFERS - 4 / CTC-17,000 / MONTH



OFFERS - 12 / CTC-17,000 / MONTH



OFFERS - 2 / CTC-17,000 / MONTH



OFFERS - 3 / CTC-17,000 / MONTH



OFFERS - 1 / CTC-17,000 / MONTH



OFFERS - 6 / CTC-18,000 / MONTH



NAME: SAKSHI K. S. RAO
OFFER: SPIC



NAME: NIKHIL K. S. RAO
OFFER: wakefit



NAME: RAJESH K. S. RAO
OFFER: BORGWARNER



NAME: ANIL K. S. RAO
OFFER: LMW



NAME: VIKAS K. S. RAO
OFFER: ZF



NAME: ADARSH K. S. RAO
OFFER: ROYAL ENFIELD



NAME: ARUN K. S. RAO
OFFER: JINDAL SAW LTD.



NAME: ANAND K. S. RAO
OFFER: ALSTOM



NAME: ANIL K. S. RAO
OFFER: propel



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OFFER: HiROTEC INDIA

HIGHEST SALARY PACKAGE : RS.33,300 / MONTH
AVERAGE SALARY PACKAGE : RS.18,000 / MONTH

NO.OF STUDENTS ADMITTED	NO.OF STUDENTS OPTED FOR HIGHER STUDY	NO.OF STUDENTS REGISTERED FOR PLACEMENT	NO.OF STUDENTS PLACED	NO.OF OFFERS
68	08	60	60	246

Placement Record

Emerging Technologies in Mechanical Engineering:**Additive Manufacturing, Artificial Intelligence and Digital Twin Technology**

Mechanical Engineering is undergoing a significant transformation with the adoption of Industry 4.0 technologies. Among the most influential advancements are Additive Manufacturing (3D Printing), Artificial Intelligence (AI), and Digital Twin Technology, which are revolutionizing product design, manufacturing, maintenance, and quality control. These technologies enable industries to become smarter, faster, and more efficient.

Additive Manufacturing (AM) builds components layer by layer directly from CAD models, reducing material waste while enabling the production of complex geometries, customized products, prototypes, tooling, and lightweight components. Common AM processes include FDM, SLA, and SLS.

Artificial Intelligence (AI) enables machines to learn, analyze industrial data, and make intelligent decisions. AI applications include predictive maintenance, machine vision inspection, robotic automation, production planning, demand forecasting, and quality control, helping industries improve productivity and reduce downtime.

Digital Twin Technology creates a virtual replica of a physical machine or manufacturing system. Using sensors, Industrial Internet of Things (IIoT), cloud computing, and simulation software, the digital model continuously monitors real-time performance, predicts failures, and optimizes operations before problems occur.

These technologies are widely used in automotive, aerospace, medical, energy, defence, and advanced manufacturing industries. They play a vital role in smart factories by improving efficiency, reducing production costs, enhancing product quality, and enabling data-driven decision-making.

For Diploma Mechanical Engineering students, acquiring knowledge in

CAD/CAM, 3D Printing, Robotics, Industrial Automation, AI, IoT, and Digital Twin concepts will greatly enhance employability and prepare them for careers in modern manufacturing industries.

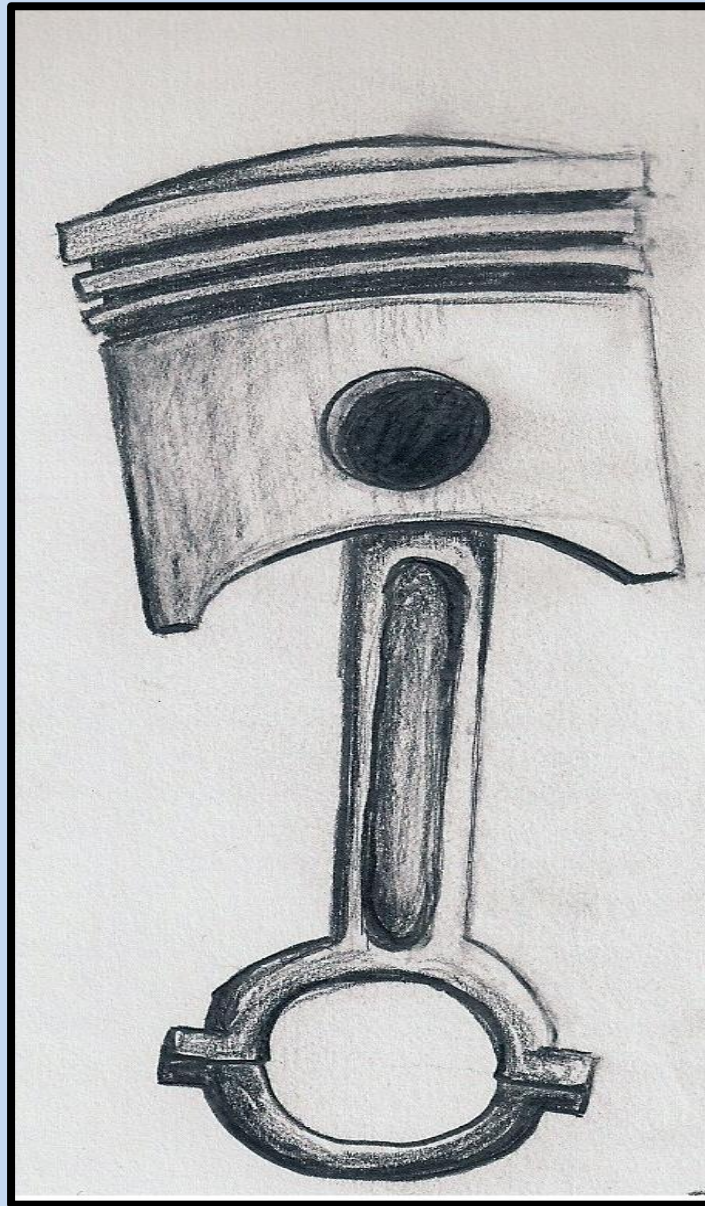
Conclusion:

The integration of Additive Manufacturing, Artificial Intelligence, and Digital Twin Technology is shaping the future of Mechanical Engineering. Students who develop skills in these emerging technologies will be well-equipped to meet the challenges of Industry 4.0 and contribute to the next generation of smart manufacturing.

Article by

Dr. C. SHANMUGAM – HOD / MECH

Students Activities:



Art by,
Hephzipah A
III / Mech

குடியரசு தின கவிதை

எண்ணங்களில் சுதந்திரமும்
 வார்த்தைகளில் உண்மையும்
 இதயத்தில் அமைதியும்
 நினைவுகளில் சுதந்திரமும்
 நிறைந்திருக்கும் இந்தியனாக
 தாய்மண்ணை வணங்குகிறேன்!
 எத்தனை மதம்
 எத்தனை மொழி
 எத்தனை வருத்தம்
 எத்தனை இருப்பினும்
 நாடு நம் நாடு என்பது
 மட்டும் மாறாத உணர்வு
 தேசத்தின் சகோதரத்துவமும்
 சமத்துவமும் மேம்பட்டும்
 இந்த நாட்டில் இளைஞர்கள் கைகோர்த்து
 நம்பிக்கை கொடிபிடித்து
 குடியரசை போற்றுவோம்
 நம் தேசியக் கொடியினை ஏற்றுவோம்
 மறுக்கவும் முடியாது
 மறக்கவும் முடியாது
 மறைக்கவும் முடியாது
 உங்கள் வீரமும் தியாகமும்
 அடிமைத்தனம் தீர்ந்த தினம்
 அரசு அமைந்த தினம்
 சுதந்திரம் பெற்ற ஆனந்த தினம்
 இது குடியரசு தினம்

— அரவிந்த் K. G.

இரண்டாம் ஆண்டு இயந்திரப் பொறியியல்