



SAKTHI POLYTECHNIC COLLEGE, Sakthinagar

DEPARTMENT OF MECHANICAL ENGINEERING

DETAILS OF FORUM MEETING: 2024-2025



EVEN SEMESTER

S.No.	DATE	INDUSTRIAL EXPERT / SPEAKER	NAME OF THE TOPIC	YEAR / SEM	SEC
1.	30.12.2024	Mr. Sivakumar Natarajan Senior Engineering Manager, Baker Hughes, UAE., mechanical alumni 1999 batch	Career Guidance	III / VI	III-A(40) III-B(41)
2.	10.01.2025	Dr. J. Balasubramanian Head of the Department of Mechanical Engineering, INFO Institute of Engineering, Coimbatore	Quality Management Principles	II / IV	II-A(34) II-B(36)
3.	23.01.2025	Amal Jothi College of Engineering Faculty's	Unlocking Pathways for Advanced Education and Careers	III / VI	III-A(40) III-B(41)
4.	30.01.2025	RASI SEEDS, Coimbatore	<i>Bridge the gap between Academia and Industry</i>	III / VI	III-A(40) III-B(41)

HoD i/c

Principal



SAKTHIPOLYTECHNICCOLLEGE
SAKTHI NAGAR-638 315
Academic Year: 2024-2025 (EVEN SEM)
DEPARTMENT OF MECHANICAL ENGINEERING
Report



1. Career Guidance Programme: The Department of Mechanical Engineering recently organized an insightful *Career Guidance Programme* on 30th December 2024 for our third-year students, aimed at helping them navigate their career paths and gain a better understanding of the professional opportunities available to them. The session was conducted by **Mr. Sivakumar Natarajan**, (Senior Engineering Manager, Baker Hughes, UAE., mechanical alumni 1999 batch) an industry expert with vast experience in the mechanical engineering field.

Mr. Natarajan's session provided students with valuable insights into the evolving trends in the mechanical engineering sector and offered guidance on how to align their academic pursuits with career goals. He covered a variety of topics essential for the professional growth of budding engineers,



The session was highly interactive, with students actively participating by asking questions and seeking personalized advice on their career journeys. The insights shared by Mr. Natarajan not only motivated students but also equipped them with the knowledge and tools they need to make informed decisions about their futures.

2. Forum Meeting: On 10th January 2025, the Department of Mechanical Engineering at our institution hosted an insightful forum meeting for third-year students, focusing on the essential topic of *“Quality Management Principles.”* The session was conducted by **Dr. J. Balasubramanian**, the esteemed Head of the Department of Mechanical Engineering at INFO Institute of Engineering, Coimbatore, who shared his wealth of knowledge and industry expertise with our students.



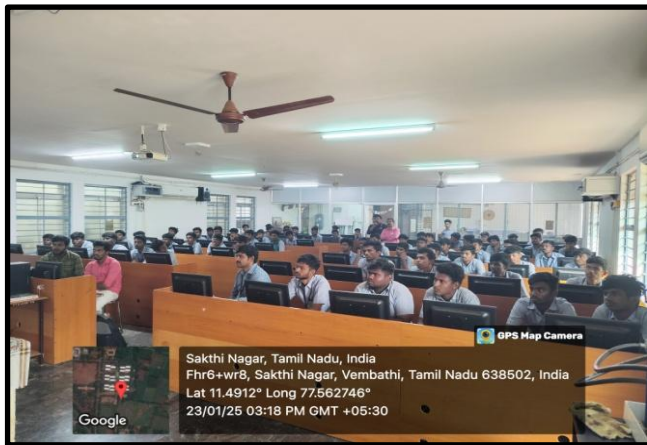
The primary objective of this forum was to introduce students to the fundamental principles of quality management, a crucial aspect in every engineering field, especially mechanical engineering, where precision and high standards are critical to success.

The forum was an enriching experience for our third-year Mechanical Engineering students, offering them valuable insights into the significance of quality management in engineering. We are grateful to **Dr. J. Balasubramanian** for sharing his expertise and guiding our students towards a deeper understanding of this essential topic.

3. Forum Meeting: Amal Jothi College of Engineering Faculty's recently hosted an enlightening **Forum Meeting** on 23rd January 2025 for our third-year Mechanical Engineering students on the topic of *"Unlocking Pathways for Advanced Education and Careers."* This session was designed to guide students on the various opportunities available for advanced education, skill enhancement, and career growth in the mechanical engineering field.

The forum brought together industry experts, academic professionals, and successful alumni who shared their knowledge and experiences with the students. The meeting was structured to provide valuable insights on how students can take the next steps in their academic and professional journeys.

The interactive nature of the forum allowed students to ask questions and receive personalized guidance from the panelists, giving them the confidence to plan the next phase of their academic and professional development.



The event was an excellent opportunity for our students to broaden their horizons and gain clarity on their options, whether they choose to continue their education or enter the workforce directly after graduation.

4.Campus Interview (Bridge the gap between Academia and Industry) :

The Placement Training Cell in our college was organized a successful campus interview on 30th January 2025 for third-year Mechanical Engineering students with the renowned company, **RASI SEEDS, Coimbatore**. This event was a part of the ongoing efforts to bridge the gap between academia and industry, providing our students with valuable opportunities to step into the professional world.

RASI SEEDS is a leading agricultural company known for its innovative solutions in the seed industry. With a strong commitment to sustainability and cutting-edge technology, the company offers an ideal environment for aspiring engineers to grow and contribute to impactful projects.



Special Thanks to:

- The Placement Cell team for their diligent coordination.
- All the students who participated in the interview process for their enthusiasm and preparation.

HoD i/c

Principal



SAKTHI POLYTECHNIC COLLEGE, Sakthinagar
DEPARTMENT OF MECHANICAL ENGINEERING



DETAILS OF FORUM MEETING:2024-2025

Odd Semester

S.No.	DATE	INDUSTRIAL EXPERT / SPEAKER	NAME OF THE TOPIC	YEAR/ SEM	SEC
1.	24.08.2024 (FN)	Mr. S.M.Naveenkumar TANSAM, TIDEL PARK, Chennai .	Recent trends in Artificial Intelligence	II/III- & III/V	II-A(34) II-B(36) III-A(40) III-B(41)
2.	24.08.2024 (AN)	Dr. M.Muthukumar Head of the Department, Department of Mechanical Engineering, Nandha Engineering College, Erode.	Fuel Cell Technology	II/III & III/V	II-A(34) II-B(36) III-A(40) III-B(41)



SAKTHI POLYTECHNIC COLLEGE

SAKTHI NAGAR-638 315

Academic Year: 2024-2025 (Odd Sem)



DEPARTMENT OF MECHANICAL ENGINEERING

Report

The Department of Mechanical Engineering at Sakthi Polytechnic College was organized Guest Lecture on "Recent trends in Artificial Intelligence". Special guest Mr. S.M.Naveenkumar TANSAM, TIDEL PARK, Chennai, was delivered lecture at Meeting hall on 24.08.2024. (FN Session).

Summary:

Objective of the Meeting:

The meeting aimed to explore and discuss the recent trends in Artificial Intelligence (AI), highlighting their implications across various sectors and the potential future developments in the field.

Key Highlights:

Introduction:

The meeting began with a brief introduction to the significance of AI in today's technological landscape and its rapid evolution.

Emerging Trends:

Generative AI: Discussion on advancements in generative models such as ChatGPT and DALL-E, and their applications in content creation, marketing, and entertainment.

Explainable AI (XAI): Emphasis on the need for transparency in AI systems to build trust and understanding among users, particularly in critical applications like healthcare.

AI Ethics and Governance: Exploration of ethical considerations, including bias mitigation, data privacy, and regulatory frameworks.

Industry Applications:

Healthcare: AI's role in diagnostics, personalized medicine, and patient management.

Finance: Automation in fraud detection, risk assessment, and algorithmic trading.

Manufacturing: Use of AI in predictive maintenance and quality control.

Conclusion:

The meeting provided valuable insights into the latest trends in AI, emphasizing the importance of ethical considerations, transparency, and the potential for AI to transform industries. Participants left with a greater understanding of how to navigate the evolving landscape of AI technology.



SAKTHI POLYTECHNIC COLLEGE, Sakthi Nagar-638315

Government Aided Institution
NBA Accredited Programs (Civil,Mech,Met,EEE & ECE)



FORUM MEETING

Organised by

Department of Mechanical Engineering

Topic

RECENT TRENDS
ON
ARTIFICIAL INTELLIGENCE



Date: 24.08.2024

Time : 10.00 am

Venue: Meeting Hall

Speaker

NAVEEN KUMAR S M

TANSAM, TIDEL PARK, Chennai

Presidential Address

Dr.S.Senthil Arasu
Principal I/C
Sakthi Polytechnic College

Coordinators

Mr.R.Srinivasan
Mr.J.Sasikumar

All are cordially invited
Staff and students of Mechanical Engineering.



MEETING FORUM





Sakthi Nagar, Tamil Nadu, India
FHR6+VCR, Sakthi Nagar, Vembathi, Tamil Nadu
Lat 11.491279°
Long 77.560866°
24/08/24 03:08 PM GMT +05:30



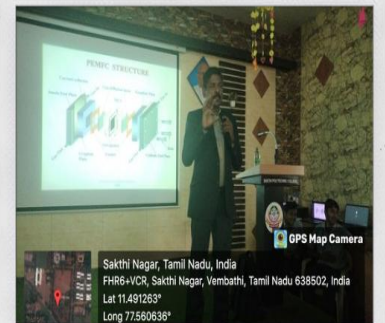
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Induction Program



Principal/presidential address

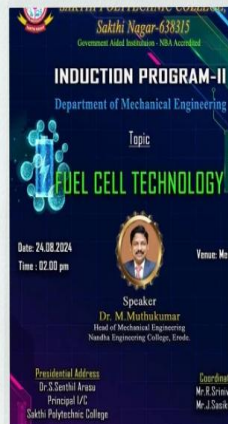


Sakthi Nagar, Tamil Nadu, India
FHR6+VCR, Sakthi Nagar, Vembathi, Tamil Nadu 638502, India
Lat 11.491263°
Long 77.560636°

Presentation



Presenting memento



Invitation



Presentation



SAKTHI POLYTECHNIC COLLEGE

SAKTHI NAGAR-638 315

Academic Year: 2024-2025 (Odd Sem)



DEPARTMENT OF MECHANICAL ENGINEERING

Report

The Department of Mechanical Engineering at Sakthi Polytechnic College was organized Guest Lecture on "Fuel Cell Technology". Special guest Dr. M.Muthukumar, Head of the Department, Department of Mechanical Engineering, Nandha Engineering College, Erode., was delivered lecture at Meeting hall on 24.08.2024 (AN Session).

Objective of the Meeting:

The primary goal of the meeting was to discuss the current advancements and future prospects of fuel cell technology, exploring its applications, challenges, and impact on sustainable energy solutions.

Key Highlights

Introduction:

The meeting commenced with an overview of fuel cell technology, outlining its significance in the transition to clean energy and its potential role in reducing carbon emissions.

Current Trends in Fuel Cell Technology:

Types of Fuel Cells: Discussion on various types, including Proton Exchange Membrane (PEM) fuel cells, Solid Oxide Fuel Cells (SOFC), and Alkaline Fuel Cells (AFC), and their specific applications.

Advancements: Insights into recent technological advancements that enhance efficiency, reduce costs, and improve durability of fuel cells.

Applications of Fuel Cell Technology:

Transportation: Exploration of fuel cells in vehicles, including buses and trucks, and their advantages over traditional internal combustion engines.

Stationary Power Generation: Discussion on the use of fuel cells for backup power systems and in remote locations where grid access is limited.

Industrial Uses: Overview of fuel cells in various industrial processes and their potential for reducing fossil fuel dependency.

Challenges and Solutions:

Cost and Scalability: Examination of the economic barriers to widespread adoption and strategies for cost reduction.

Infrastructure Development: Discussion on the need for refueling infrastructure and the role of government and private sectors in its development.

Public Awareness: Addressing the importance of increasing public understanding of fuel cell technology and its benefits.

Conclusion:

The meeting provided valuable insights into the state of fuel cell technology, highlighting its potential to play a crucial role in achieving sustainable energy goals. Participants left with a deeper understanding of the opportunities and challenges facing this technology.



Induction Program

FUEL CELL TECHNOLOGY

24.08.24



HOD i/c

Principal