

IIMT
COLLEGE OF ENGINEERING
KP-III, Greater Noida
— Aim For Excellence —



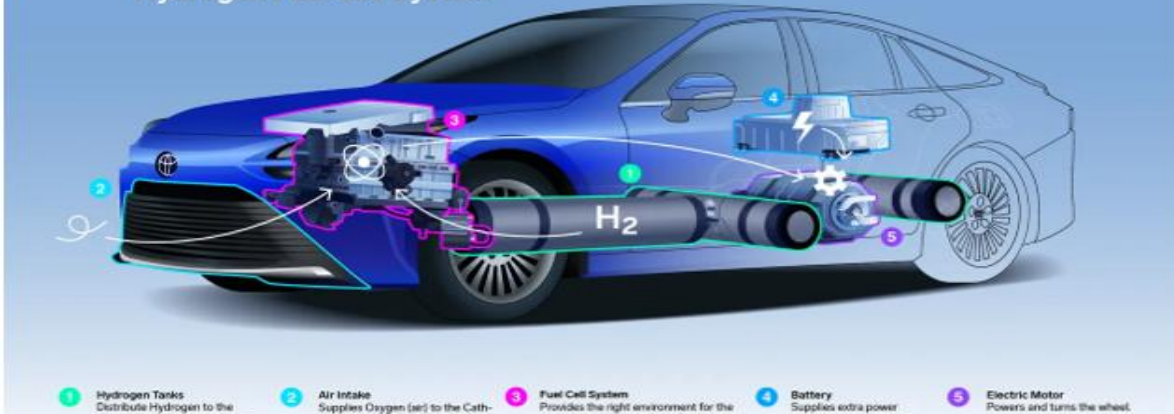
MECHATROMA

A Quarterly Publication of

Department of Mechanical Engineering



Hydrogen Fuel Cell System



From Chief Editor's Desk

Welcome to the Department of Mechanical Engineering at IIMT College of Engineering, Greater Noida. We started our journey in the year of 2005 with the mechanical stream. Over the past decade, we have grown our expertise and competence in the IT-enabled Design and Manufacturing centered Mechanical Engineering curriculum and research. We have a strong undergraduate program in mechanical engineering, called B. Tech in Mechanical Engineering. At the postgraduate level, we offer M.Tech, program with the sanctioned intake of 18 students. Our all undergraduate and postgraduate programs are affiliated to AKTU Lucknow.

We offer an IT enabled design and manufacturing-based engineering curriculum. The primary focus of our curriculum is to impart technical know-how to students, promote their problem-solving skills and innovation of new technologies.

The Department offers a large number of interdisciplinary courses to provide cutting-edge knowledge to the students to pursue their interest. The course contents are periodically updated to introduce new scientific and technological developments.

Undergraduate students are encouraged to undertake various research projects and encouraged to spend time in neighboring industries.



I am happy to reflect on all the success that the Department of Mechanical Engineering, IIMT has accomplished. The department has conducted two minor activities and several guest lectures.

One of our faculty published SCI Indexed Journal Research paper, and another presented a paper at the Scopus Index international conference.

Our students have performed very well in extra curricular activities and sports events, in this Quarter.

Wishing you health, wealth, and new blessings to count each day in 2023.

Sincerely,

[Mr. Krishna Kumar Karothiya](#)

[Chief Editor & HOD](#)

[Dept. of Mechanical Engineering](#)

Quote for Quarter

"If you can learn something new every day, you can teach something new every day."

Martha Stewart

Industrial Visit

Sify Greenfort Pvt. Ltd. Noida

Department of Mechanical engineering organized an Industrial visit of B.Tech Mechanical students to Sify Greenfort, Sector 132, Noida. In this visit, 65 students and 4 faculty members from the department participated.

The visit started with the Manager, **SIFY GREENFORT** giving brief introduction to HVAC installation and electrical works, pumping system, and rainwater harvesting in the plant.

The students were taken around the plant where they were explained about ducts of AC plant, its importance and function. They were also told about HVAC systems that can be classified into central and packaged type plants depending upon multiple zones, location, and distribution..



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Department of Mechanical Engineering organising

Industrial Visit

FOR B.Tech (ME) STUDENTS

sify **SIFY GREENFORT**
SECTOR 132, NOIDA

Date - Thursday, December 08, 2022
Time - 10:00 AM Onwards

Faculty Coordinators
Mr. D. K. Prajapati Assistant Professor, ME
Mr. S. P. Gupta Assistant Professor, ME

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Students at Sify Greenfort Sector 132 Noida

Club activities

Drafting in Auto cad

On 12th Oct 2022, the Department of Mechanical Engineering organized a design competition on Auto-Cad, drawings. The drawings were given on the spot to the students.

The activity was organized in the CAD Lab. A total of 23 students participated in the competition. Devesh Yadav completed the drawing in minimum time with the best accuracy was thus declared winner and Mohit Kumar bagged the runner-up place. Both students were awarded the prize and certificates.

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Department of Mechanical Engineering
is Organizing

COMPETITION ON
DRAFTING IN AUTO CAD
(Under Mechdesign Club)

12th October, 2022
01:40 PM onwards
Autocad Lab, Block 'A'
IIMT College of Engineering

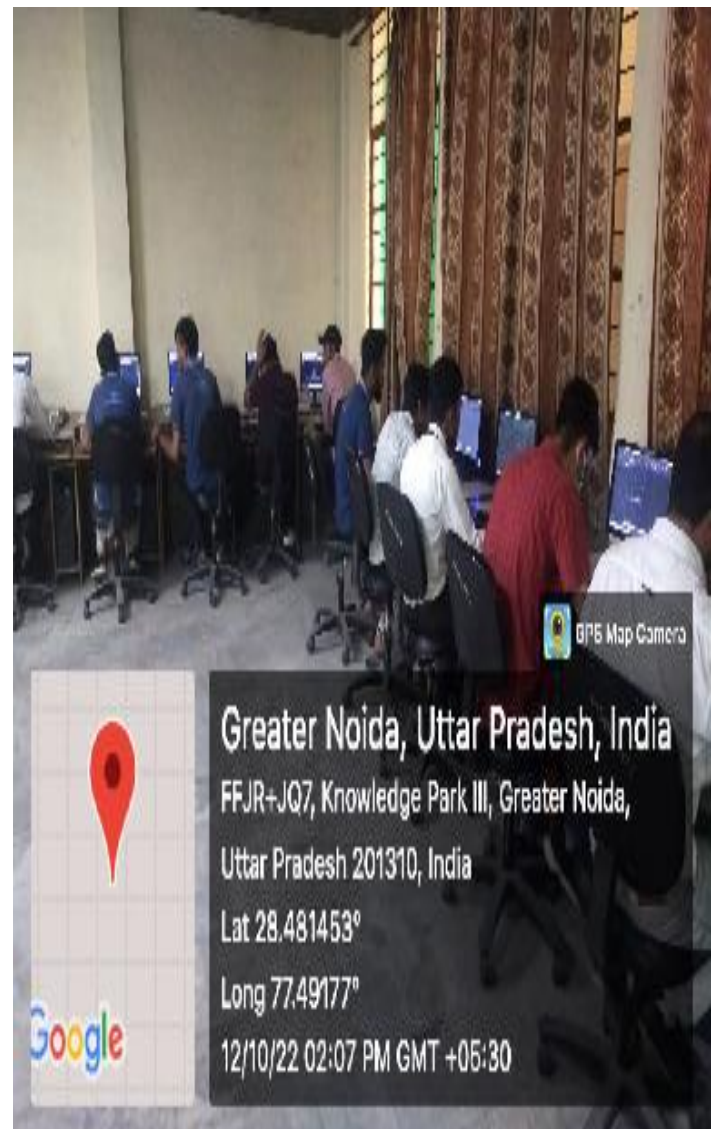
PATRONS

Prof. (Dr.) S.S. Tyagi Director IIMT College of Engineering	Mr. Krishna Kumar HOD, ME IIMT College of Engineering
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COORDINATOR Mr. Dhruv Kumar & Mr. Pankaj Kumar, Asst. Prof., IIMT College of Engineering

NAAC
NRI
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2018 Amongst Private Management Institutions

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Drafting in AutoCAD participants

Workshop on “Good Invention and Bad Invention”

On 10 Nov 2022, the Department of Mechanical Engineering organized a workshop on “Difference Between Good Invention and Bad Invention”.

During the talk, Dr. Manish Dev, Assistant Professor, Gautam Buddha University quoted excellent examples to acquaint our students on how various products were invented and how they brought change in human lives.

He started his talk with a brilliant example of Alfred Nobel, and explained how his theory helped human being in construction work, and how the same was misused to make war weapons.

INSTITUTION'S INNOVATION COUNCIL
(Theory of Education Solution)

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COLLEGE OF ENGINEERING
Greater Noida
— Aim For Excellence —

Department of Mechanical Engineering is organising

Workshop on

DIFFERENCE BETWEEN GOOD INVENTION & BAD INVENTION

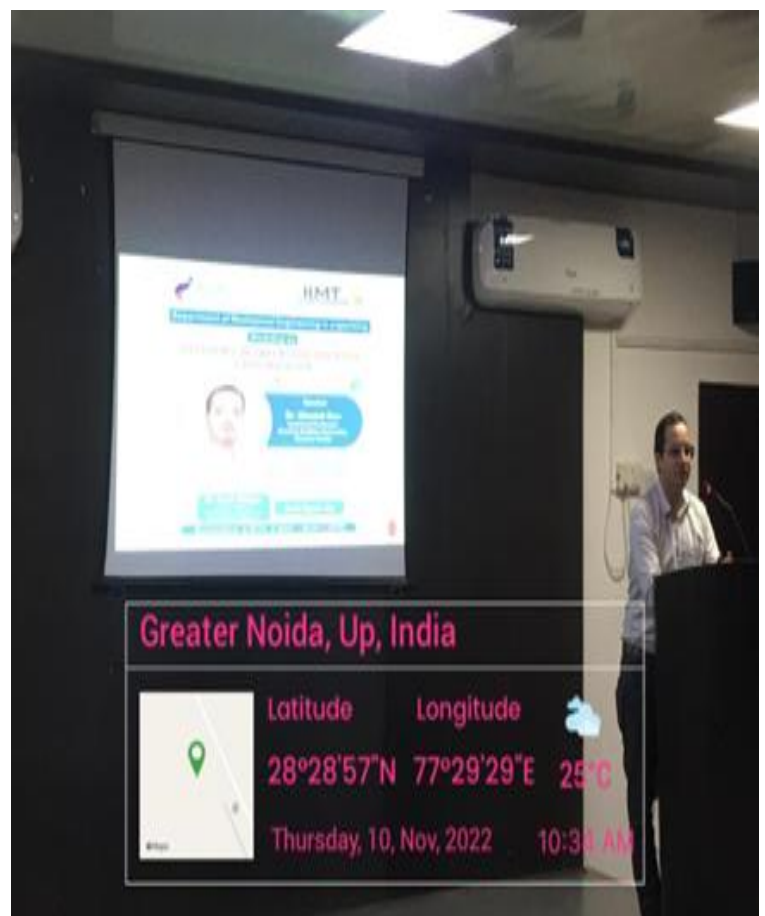
Speaker
Dr. Manish Dev
Assistant Professor,
Gautam Buddha University,
Greater Noida

Date: 10th November, 2022
Time: 10:00 AM - 11:30 AM
Venue - SARABHAI HALL

FACULTY COORDINATOR
Dr. Sumit Mahajan
Assistant Professor
IIMT College of Engineering
sumi3970_gn@iimtindia.net

STUDENT COORDINATOR
Aman Kumar Jha

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Dr. Manish delivering the talk

Technical Session

on

“Sourcing Raw Material for Start-up”

On 25th Nov. 2022, a technical session on “**Sourcing raw material for start-up**” was successfully conducted under IIMT ASHRAE India chapter, in Sarabhai Hall of IIMT College of Engineering, Greater Noida.

The objective of this session was to emphasise that a start-up should aim at solving a unique customer problem or should meet specific customer needs.

The target participants were the student members of ASHRAE.

The poster features logos for ED Cell, IIMT College of Engineering, ASHRAE IIMT Student Branch, and IIMT College of Engineering Greater Noida. It states the session is organized by the ED Cell and Department of Mechanical Engineering. The speaker is Mr. Abhishek Jain, with details of his affiliation and role. It provides the date (Friday, November 25, 2022), time (02:00 PM - 05:00 PM), and venue (Sarabhai Hall). It also lists the faculty and student coordinators and includes a QR code for registration.

ED Cell
IIMT COLLEGE OF ENGINEERING

ASHRAE
IIMT
COLLEGE OF ENGINEERING
Student Branch

IIMT
COLLEGE OF ENGINEERING
Greater Noida
— Aim For Excellence —

ED Cell and Department of Mechanical Engineering

is organising

Technical Session on

“SOURCING RAW MATERIAL FOR START-UP”

Speaker
Mr. Abhishek Jain
Air Flow Pvt. Ltd.
Member ASHRAE,
Student Chair ASHRAE AIC 2022

Date: Friday, November 25, 2022
Time: 02:00 PM - 05:00 PM
Venue: Sarabhai Hall

FACULTY COORDINATOR
Mr. Satyaveer Singh
Assistant Professor, ME
IIMT College of Engineering

STUDENT COORDINATOR
Aman Upadhyay (Final Year - ME)

SCAN FOR REGISTRATION

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Mr. Abhishek Jain addressing the technical Session

A Field visit at Air Flow Pvt. Ltd.

On 29 Nov 2022, the Department of Mechanical Engineering organized a field visit for Problem Identification at Air Flow Pvt. Ltd. Greater Noida.

Mr. Abhishek Jain and his team members at the Air Flow Pvt Ltd gave a brief presentation about the company's products and services. After the presentation, they explained the technical details of the plant and safety rules.

One of the problems discussed was related to 'Fan Performance' which sometime causes an inadequate airflow, due to improperly fitted impeller, defective setting of blade angle, missing cut-off, an impeller not centered with inlet collars, slow fan speed, dirty or clogged inlet, improper running clearance or improper inlet cone-to-wheel fit.

The poster features the logos of the Institution's Innovation Council (IIC) and IIMT College of Engineering, Greater Noida. It states that the IIC and the Department of Mechanical Engineering are jointly organizing the event. The title is 'Exposure & Field Visit for Problem Identification'. The host is 'AIR FLOW PVT. LTD.' located at J-90 & 91, Surajpur Industrial Area, Site-V, Kasna, Greater Noida (U.P.). The event is scheduled for Tuesday, November 29, 2022, starting at 12:00 PM onwards. The Faculty Coordinator is Mr. Satyaveer Singh, Assistant Professor, ME. Social media handles for IIC, IIMT, and IIC-IIMT are listed at the bottom.



Students at AIR FLOW PVT. LTD, Greater Noida

A Guest Lecture

on

“Green Entrepreneurship: A Way Forward for Sustainable Growth”

On 17 Nov 2022, the Department of Mechanical Engineering organized a guest lecture on “Green Entrepreneurship: A Way Forward for Sustainable Growth” The guest Speaker was Mr. Namit Bhati, Founder of O2N Digital University and Co-Founder, Bharat.

The objective of this session was to promote entrepreneurship skill among students and to motivate them to launch their own start-up with innovative ideas.

The programme also aimed at generating awareness among the students about the importance of entrepreneurship and its role in making the youth self reliant.

The poster features the logos of ED Cell and IIMT College of Engineering. It is organized by ED Cell and Mechanical Engineering. The main title is "GREEN ENTREPRENEURSHIP: A WAY FORWARD FOR SUSTAINABLE GROWTH". The speaker is Mr. Namit Bhati, Founder of O2N Digital University and Co-Founder of iBharat. The event is on 17th November, 2022, from 11:00 AM onwards, in an offline mode. Faculty Coordinator is Mr. Vishal Vasistha and Student Coordinator is Aman Kumar Jha (3rd Year). A QR code is provided for registration.



Mr. Namit Bhati delivering lecture at C V Raman Hall of IIMT

Paper Presentation

On

Impact of Pemulen TR-2 Polymer on Storage Stability and Corrosion Study of a Novel Hydrous Ethanol-Diesel-Al₂O₃ Nanoemulsified Fuel

On 15th-18th December 2022, **Mr. Vishal Vasishta**, Asst Prof, Department of Mechanical Engineering, IIMT College of Engineering Greater Noida, presented the paper titled "Impact of Pemulen TR-2 Polymer on Storage Stability and Corrosion Study of a Novel Hydrous Ethanol -Diesel-Al₂O₃ Nanoemulsified Fuel" at the **INTERNATIONAL CONFERENCE ON CHEMISTRY AND CHEMICALS 2022 (C³ -2022)** held at Novotel World Trade Centre, Dubai, UAE



Reference ID: CCC_2022_REF_012



Conference on Chemistry & Chemicals 2022 (C³ - 2022)

Certificate of Participation

This is to certify that Prof/Dr/Mr/Ms. Vishal Vasistha (IIMT College of Engineering Greater Noida) has presented/authored the paper titled "Preparation of hydrous ethanol - diesel - alumina nano emulsified fuel" in Conference on Chemistry & Chemicals 2022 (C³ - 2022) held from December 15-18, 2022 at Novotel World Trade Centre, Dubai, UAE.



LAESCUELA EDUCATION (OPC) PVT. LTD.


DIRECTOR

DR. KAMAL KISHOR DUBEY
Director Laescuela Education

SCI INDEX PAPER PUBLICATION

on

“Analyzing the Impact of Adding Aluminum Oxide and Cerium Oxide Nanoparticles to Waste Cooking Biodiesel on Engine Performance, Combustion and Emissions Characteristics”

On 31 October 2022, Mr. **Suraj Bhan**, Asst Prof, Department of Mechanical Engineering, IIMT College of Engineering Greater Noida, published a paper titled “**Analyzing the Impact of Adding Aluminum Oxide and Cerium Oxide Nanoparticles to Waste Cooking Biodiesel on Engine Performance, Combustion and Emissions Characteristics**” in the Journal “**Petroleum Science and Technology**” by Taylor & Francis, an SCI Indexed Journal.

DOI: <https://doi.org/10.1080/10916466.2022.2136705>

The screenshot shows the journal's interface. At the top left is the journal cover for 'Petroleum Science and Technology'. To its right is a search bar with the text 'Enter keywords, authors, DOI, ORCID etc'. Further right is a 'This Journal' button with an 'Advar' icon. Below the search bar are two buttons: 'Submit an article' (green) and 'Journal homepage' (blue). The main content area features a 'Research Article' label, a view count of '50 Views', and a 'CrossRef citations to date' count of '0'. The article title is prominently displayed in a large, bold font. Below the title, the authors 'Suraj Bhan', 'Raghendra Gautam', and 'Pushendra Singh' are listed with their ORCID icons. The publication date is 'Published online: 31 Oct 2022'. At the bottom, there is a 'Download citation' link, the DOI link, and a 'Check for updates' button.

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Research Article

Analyzing the impact of adding aluminum oxide and cerium oxide nanoparticles to waste cooking biodiesel on engine performance, combustion and emissions characteristics

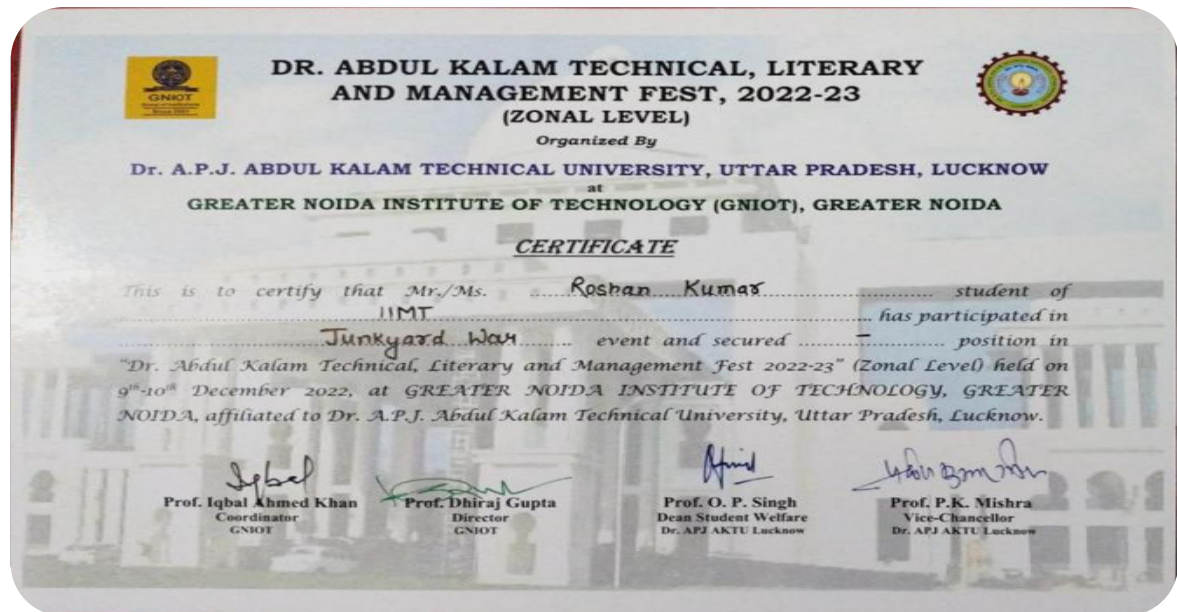
Suraj Bhan , Raghendra Gautam  & Pushendra Singh

Published online: 31 Oct 2022

Download citation <https://doi.org/10.1080/10916466.2022.2136705> 

Dr. AKTU Literary And Management Fest 2022 at GNIOT Greater Noida

Roshan Kumar and Naresh Sharma, students of B. Tech 4TH Year, participated in the Dr. AKTU Literary And Management Fest 2022 at GNIOT, Greater Noida.





Chief Editor

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Faculty Members

Dr. Sumit Mahajan
Mr. Vishal Vasistha

Student Member

Aman Kumar Jha (4th Yr.)
Nikhil (3rd Yr.)