

Gokhale Education Society's
Sir Dr. M. S. Gosavi Polytechnic Institute
Nashik Road, Nashik – 422 101



MECHANICAL ENGINEERING

NEWSLETTER

Jan - May 2025

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OUR INSPIRATION



**Namdar Gopal Krishna
Gokhale**

After whom our society is
named



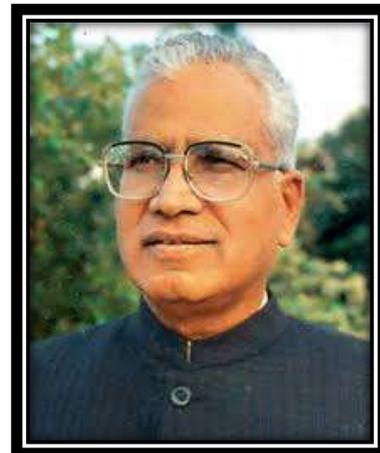
Principal T. A. Kulkarni

Founder of Gokhale Education
Society



**Late Principal S. B.
Pandit**

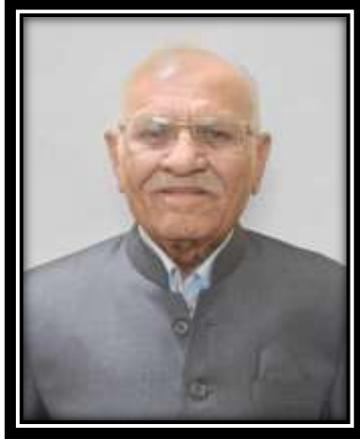
President of G. E. Society



Late Sir Dr. M. S. Gosavi

Secretary of G. E. Society

DYNAMIC LEADERSHIP



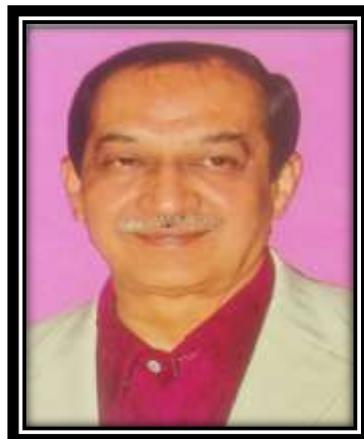
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President
Gokhale Education
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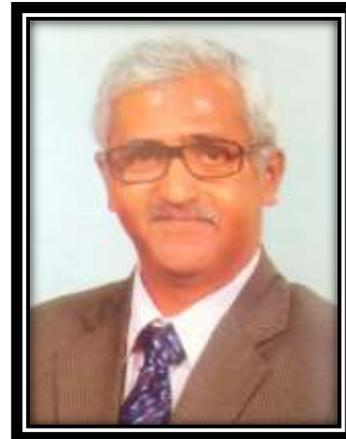
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Deshpande**
Secretary, Treasurer and Hr.



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Zonal Secretary
Gokhale Education Society



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Director (Project)
Gokhale Education Society



Mr. Shailesh Gosavi
Director E & M
Gokhale Education Society

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Forewords by Secretary

Sir Dr. M. S. Gosavi Polytechnic Institute, Nashik Road was established during the decade (2008-2018) leading towards the Centenary of Gokhale Education Society. The vision behind the establishment of this institute is to create, creative and dedicated technocrats who would shape the future of our country. Gokhale Education Society has been a leading light in the field of higher education for the last 105 years by offering education from KG to Ph.D. in various conventional, professional, medical and paramedical domains. Sir Dr. M. S. Gosavi, former Secretary and Director General of Gokhale Education Society and internationally acclaimed management scientist. He was a pioneer of management, entrepreneurial and holistic education in India. To honour his sixty years' contribution to the field of education, Gokhale Education Society has named this Polytechnic Institute after him. His unparalleled vision, commitment to the cause will remain a constant source of inspiration and encouragement. Sir Dr. M. S. Gosavi Polytechnic Institute has shown remarkable progress in a short period by creating high quality standards. Polytechnic education has a bright future in coming times. As our country is placed among the top five economies of the world, there will be a great need for a skilled workforce. The students should explore new avenues like AI, machine learning, robotics, big data management along with their regular curricula. The role of on the job training and field work would be crucial to understand the changing nature of industry and business. For this purpose, teachers should be given consistent training and students should be mentored under such teachers. Gokhale Education Society always traces the balanced development, focusing on skills as well as mind-set nurturing. I am assured that Sir Dr. M. S. Gosavi Polytechnic Institute is well prepared to meet new challenges in the coming times, especially after the implementation of National Education Policy-2020. I express my satisfaction about the overall progress of this institution. I express a sense of gratitude for the catalytic role played by Prin. P. M. Deshpande, Director, Project of Gokhale Education Society in shaping this institute since its inception. I put on record my appreciation for the diligent efforts that the Principal and all teaching & non-teaching staff members are taking to excel every day. I wish all the luck for future endeavours.

-Dr. Mrs. Deepti P. Deshpande
Secretary, Treasurer and Director (HR)

Preface

It gives us immense pleasure to present the Mechanical Engineering Newsletter of Gokhale Education Society's Sir Dr. M. S. Gosavi Polytechnic Institute. This publication serves as a platform to showcase the talent, achievements, and innovative spirit of our students and faculty. It highlights departmental activities, academic initiatives, industrial visits, workshops, and technical accomplishments. The newsletter also reflects our commitment to fostering a culture of learning, creativity, and industry-readiness. We believe in nurturing the holistic development of our students through academic excellence and practical exposure. This edition captures the collective efforts and vibrant energy of the Mechanical Engineering Department. We extend our gratitude to the management, staff, and students for their valuable contributions. Special thanks to the editorial team for their dedication in compiling this edition. We hope this newsletter inspires and informs all its readers.

With warm regards,

Academic Editor

Mechanical Engineering Newsletter

Gokhale Education Society's

Sir Dr. M. S. Gosavi Polytechnic Institute, Nashik

MESSAGE FROM HOD

Mechanical Engineering is one of the oldest branches of engineering. It plays a very significant role in all the disciplines that are there in the vast world of technology. Several branches like Manufacturing Engineering, Aerospace Engineering, Automotive Engineering, Mechanics, Bio-mechanics, and Nanotechnology stem from Mechanical Engineering.

I welcome you to be a part of the journey towards excellence in learning and training.

“We build machines that build machines.”

Prof. M. G. Bobade

HOD, Mechanical Engineering

Gokhale Education Society's

Sir Dr. M. S. Gosavi Polytechnic Institute, Nashik Road, Nashik-422101

VISION:

- Mechanical Engineering Program providing excellence in Education and enhancing multidisciplinary skills for developing Intellectual and Quality Mechanical Engineer which will benefit the Society and the Industrial needs.

MISSION:

- To educate and prepare students to excel as professionals.
- To provide the facilities and environment conducive to high quality education to get diverse careers in the field of Mechanical Engineering.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

- ❖ Prepare students with sound knowledge in math, scientific and engineering fundamentals so as to enable them to have successful career in Mechanical Engineering.
- ❖ To enable students to adopt emerging technologies of Mechanical Engineering.
- ❖ To enable students to deploy their knowledge and skill in multidisciplinary field.

PROGRAM SPECIFIC OUTCOMES (PSO)

- ❖ Apply and interpret the acquired Mechanical Engineering knowledge for the advancement of society and entrepreneurship.
- ❖ Develop and implement new ideas on product design with the help of Mechanical Engineering tools while ensuring best manufacturing practices.
- ❖ To learn various management principles to instruct professional attributes and ethics to work in team.

PROGRAMME OUTCOMES (PO)

PO1 Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO2 Problem analysis: Identify and analyses well-defined engineering problems using codified standard methods.

PO3 Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO4 Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

PO5 Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.

PO6 Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

PO7 Life-long learning: Ability to analyses individual needs and engage in updating in the context of technological changes.

PLACEMENTS

Sr. No.	Name of Industries	No. of Student placed
1	Bajaj Auto Pvt. Ltd.	07
2	Mahindra & Mahindra	01
3	Kirloskar oil Engine	08
4	Pravin Enterprises	01



Students from our institute have secured placement at Bajaj Auto Pvt. Ltd.



Students from our institute have secured placement at Kirloskar Oil Engine



गोखले एज्युकेशन सोसायटीचे
सर डॉ. एम. एस. गोसावी पॉलिटेक्निक,
बिटको कॉलेज कॅम्पस, नाशिक. फोन. नं. 0253 2451547



CAMPUS PLACEMENT
(FROM CAMPUS TO CORPORATE)

Congratulations!

Sameer Asif Mansuri
Mechanical Engg. Department
For Getting selected in
**Mahindra and Mahindra
Pvt. Ltd**





Sameer Asif Mansuri
Third Year
(Mechanical Engg. Dept.)

Student from our institute have secured placement at Mahindra & Mahindra Ltd.

RESULT

"The Mechanical Engineering students from divisions 1K, 3K, and 5I have successfully completed their semester examinations with noteworthy academic performance. The overall result reflects the students' dedication and the department have continued commitment to excellence in technical education."

Year	No. of student appear in Winter 24 Exam	No of student pass	Percentage of Result
First Year	62	43	70.00%
Second year	39	13	30.00%
Third Year	25	22	90.00%

TOPPERS



CHAVAN GAURAV M

**1st Topper
TYME**



SINGH OMKAR V

**2nd Topper
TYME**



DANGE PARTH A

**3rd Topper
TYME**



SONAR ATHARVA G.

**1st Topper
SYME**



SHELAR KARTIK D.

**2nd Topper
SYME**



BHAGWAT OM S.



CHANDRATRE SIDDHESH H.

**3rd Topper
SYME**



VISHWAKARMA CHANDAN R

**1st Topper
FYME**



WAGH MANASHRI G

**2nd Topper
FYME**



JAGTAP YASHASWI S

**3rd Topper
FYME**

Purpose of the FDP

The Faculty Development Program (FDP) on Additive Manufacturing and 3D Printing aims to equip mechanical engineering faculty with the latest knowledge and practical skills in these transformative technologies. The program will provide a platform to explore innovations, understand industry applications, and integrate these topics into academic curricula.

Key Objectives

1. Introduce fundamental concepts of additive manufacturing and 3D printing.
2. Discuss advanced technologies and applications in the mechanical engineering domain.
3. Provide hands-on experience with 3D printing equipment and software.
4. Encourage faculty to conduct research and projects in additive manufacturing.
5. Enable integration of these technologies into teaching and student projects.

<p style="text-align: center;">Three Day Faculty Development Programme (Online) on</p> <p style="text-align: center;">“Additive Manufacturing and 3D Printing”</p> <p style="text-align: center;">(27th Feb to 01st March 2025)</p> <p>Name: _____</p> <p>Designation: _____</p> <p>Institute: _____</p> <p>Gender: Male / Female</p> <p>Email-Id: _____</p> <p>Mobile No.: _____</p> <p>Experience: _____</p> <p>Undertaking: I shall abide by the rules and regulations and attend all the sessions under the Faculty Development Training Program. Failing to which a certificate will not be issued to me.</p> <p style="text-align: center;">Signature of an Applicant:</p> <p style="text-align: center;">Signature of Principal/Sponsoring Authority (With Date & Stamp/Seal)</p> <p style="text-align: center;">Follow the link: https://forms.gle/McNws4zZg6vNEubs6</p>	<p style="text-align: center;">Our Inspiration</p> <p style="text-align: center;">Late Maharshi Sir Dr. M. S. Gosavi Former Secretary Gokhale Education Society</p> <p style="text-align: center;">Chief Patron</p> <p style="text-align: center;">Dr. Mrs. D. P. Deshpande Secretary, Treasurer & HR Director Gokhale Education Society</p> <p style="text-align: center;">Patron</p> <p style="text-align: center;">Hon'ble Dr. R. P. Deshpande President, Gokhale Education Society</p> <p style="text-align: center;">Hon'ble Mr. P. M. Deshpande Director (Project), Gokhale Education Society</p> <p style="text-align: center;">Hon'ble Mr. S. M. Gosavi Establishment Director, Gokhale Education Society</p> <p style="text-align: center;">Hon'ble Dr. R. M. Kulkarni Zonal Secretary, Gokhale Education Society</p> <p style="text-align: center;">Convener</p> <p style="text-align: center;">Dr. Mrs. Shraddha P. Deshpande Principal, GES's Sir Dr. M. S. Gosavi Polytechnic Institute, Nashik</p> <p style="text-align: center;">Co-Convener</p> <p style="text-align: center;">Mr. M. N. Rane Vice-Principal, GES's Sir Dr. M. S. Gosavi Polytechnic Institute, Mr. M. G. Bobade HOD, Mechanical Engineering Department GES's Sir Dr. M. S. Gosavi Polytechnic Institute</p>	<p style="text-align: center;">Three Day Faculty Development Programme (Online) On</p> <p style="text-align: center;">“Additive Manufacturing and 3D Printing”</p> <p style="text-align: center;">(27th Feb to 01st March 2025)</p>  <p style="text-align: center;">Keynote Speakers</p> <p style="text-align: center;">Mr. A. P. Deshpande (Director, SIGMA Technical Management & Services)</p> <p style="text-align: center;">Dr. V. D. Wakchaure (HOD, Mechanical Dept. Amrutvahini COE)</p> <p style="text-align: center;">Mr. R. E. Gite (Asst. Professor Mechanical Dept. Amrutvahini COE)</p> <p style="text-align: center;">Dr. S. D. Sancheti (HOD, Mechanical Dept. SNJB's R. Sar. K. B. Jain COE)</p> <p style="text-align: center;">Mr. Pushkar Suryawanshi (Founder & Director 3D Shiksha Edu. Consultancy)</p> <p style="text-align: center;">Mr. Prashant Suryawanshi (Tech. Support Specialist Dassault Systems)</p>
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"We are proud to announce that 122 participants from diverse institutes have registered for the FPD program."

List of Register candidates:-

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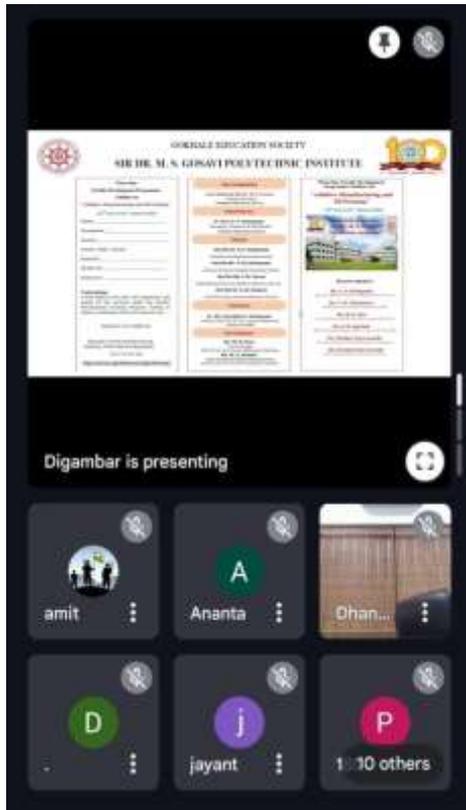
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Day 1: 27th February 2025.

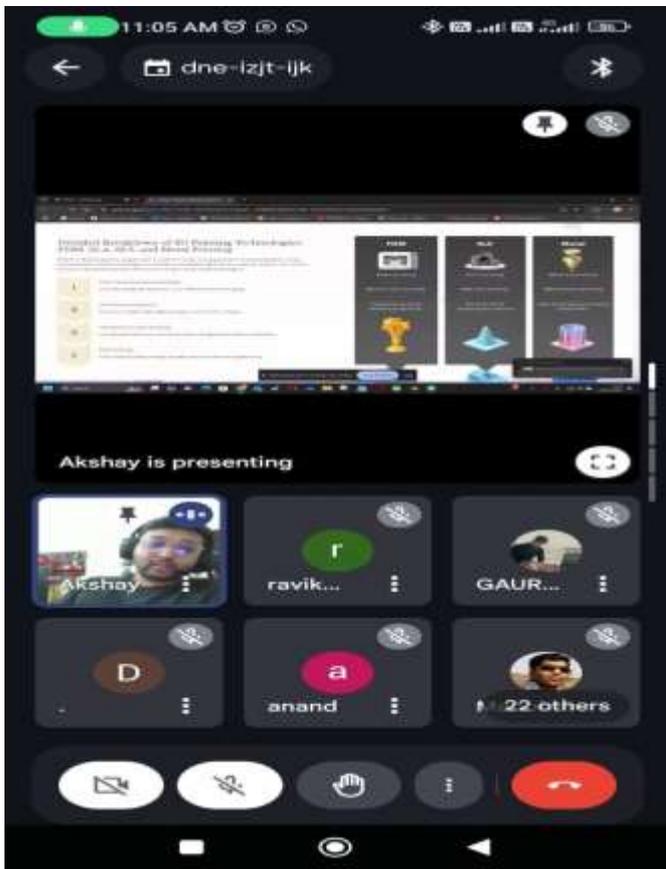
Topic:- Fundamentals and Introduction.



Time	Session Topic	Speaker/Trainer
10:30 AM – 11:00 AM	Inaugural Session	Chief Guest & Host
11:00 AM – 01.00 PM	<ul style="list-style-type: none"> • Session 1: ➤ Overview of Additive Manufacturing (AM) ➤ Evolution of 3D Printing Technology ➤ Comparison with Traditional Manufacturing 	Dr. V. D. Wakchaure HOD, Mechanical Dept. Amrutvahini COE
02.00 PM – 4.00 PM	<ul style="list-style-type: none"> • Session 2: ➤ Types of 3D Printing Technologies (FDM, SLA, SLS, DMLS, etc.) ➤ Materials used in 3D Printing: Polymers, Metals, Composites. 	Mr. R. E. Gite Asst. Prof. Mechanical Dept. Amrutvahini COE

Day 2: 28th February 2025.

Topic:- Advanced Techniques and Applications.



Time	Session Topic	Speaker/Trainer
11:00 AM – 01.00 PM	<ul style="list-style-type: none"> • Session 3: <ul style="list-style-type: none"> ➤ Software Tools for Design and Slicing (Introduction to CAD and Slicing Software) ➤ Demonstration of 3D Printing Workflow 	<p>Mr. A. P. Deshpande Director, SIGMA Technical management & Services</p>
02.00 PM – 4.00 PM	<ul style="list-style-type: none"> • Session 4: <ul style="list-style-type: none"> ➤ Applications of Additive Manufacturing in Mechanical Engineering ➤ Case Studies: Automotive, Aerospace, and Tooling Industries. 	<p>Mr. Pushkar Suryawanshi Founder & Director 3D Shikshan Edu. Consultancy</p>

Day 3: 01st March 2025.

Topic:- Integration and Future Trends.



Time	Session Topic	Speaker/Trainer
11:00 AM – 01.00 PM	<ul style="list-style-type: none"> • Session 5: <ul style="list-style-type: none"> ➤ Incorporating Additive Manufacturing into Curriculum. ➤ Projects and Research Opportunities in Additive Manufacturing. 	Mr. Prashant Suryawanshi Tech. Support Specialist Dassault Systems
02.00 PM – 4.00 PM	<ul style="list-style-type: none"> • Session 6: <ul style="list-style-type: none"> ➤ Future Trends: Hybrid Manufacturing, Bio printing, and Sustainability ➤ Feedback and Open Discussion 	Dr. S. D. Sancheti HOD, Mechanical Department SNJB's Lt. Sau. K. B. Jain COE

ARTICLES

RECENT TRENDS IN MECHANICAL ENGINEERING

Mechanical engineering in 2025 is experiencing a dynamic transformation, driven by technological advancements, sustainability imperatives, and evolving industry needs. Traditional technical practices are currently unable to survive the competition of global market. Here's an overview of the most useful trends shaping the field.

Robotics and Automation



The adoption of robotics and automation is streamlining manufacturing processes. Collaborative robots work alongside humans, enhancing efficiency and safety. These advancements are particularly evident in tasks such as assembly, welding, and material handling, and medical instrument where precision and speed are crucial. Day by day this field becoming applicable in various aspect of professional life. This field is act as bridge for institutional and industrial gap.

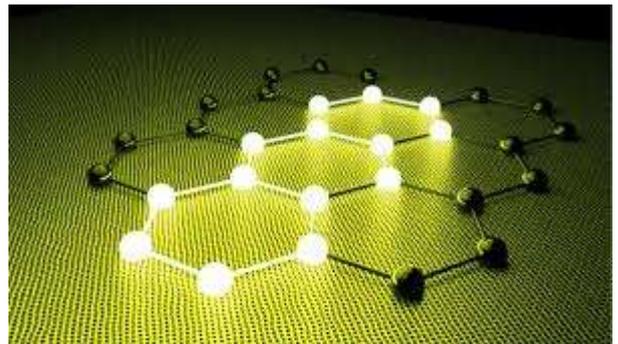
3D Printing and Additive Manufacturing

The mechanical practitioners are aware about cellular and flexible manufacturing which has been developed few decades ago. Till these techniques have some limitations regarding cost and time. 3D printing enables the creation of complex components with minimal waste. In industries like aerospace and healthcare, it allows for rapid prototyping and the production of customized parts. This technology reduces material costs and accelerates development cycles.



Smart Materials and Advanced Manufacturing

The development of smart materials, such as composite and shape-memory alloys, is enhancing the functionality of mechanical systems. These materials



respond to environmental safety, improving the performance. Collaboration of these materials with manufacturing techniques are enabling the mass production of durable materials, offering lighter and stronger alternatives to metals and conventional materials.

Sustainability and Green Engineering

Mechanical engineers are increasingly focusing on conservational practices, such as designing energy-efficient systems and utilizing renewable energy sources. The integration of eco-friendly materials and processes aims to reduce the environmental impact of engineering projects. Friendly approach towards bi and tri generation of energies can help to improve multiple tasks on common platform of resources.



Artificial Intelligence (AI) and Machine Learning

There is limitation for human being to apply of natural intelligence beyond the limit. But artificially designed intelligence is revolutionary in mechanical engineering, Regular approach with artificial intelligence gives smooth and accurate profession in design and automating processes, optimizing manufacturing workflows, and predictive maintenance. Machine learning algorithms enhancing system performance and reducing downtime. This integration leads to more efficient, safe and eco-friendly mechanical systems.



Being habit of this trends make perfect synchronizing among IIE that means –Institute, Industry and Environment.



Mr. A. S. Panchakshar
Lect. ME
GES's S.D.M.S.G Polytechnic Institute
Nasik Road, Nasik.

Powering the Future: Recent Trends in Energy Management through Mechanical Engineering

Introduction

In today's world, energy is not just a utility—it's a strategic resource. With growing demands, climate change, and limited fossil fuels, managing energy efficiently has become a global priority. At the heart of this revolution lies mechanical engineering, evolving rapidly to design systems and solutions that optimize energy generation, distribution, and usage.

From smart grids to green buildings, mechanical engineers are innovating to ensure that every watt of energy counts.

What is Energy Management?

Energy management refers to the process of monitoring, controlling, and conserving energy in a system or organization. Mechanical engineering contributes to energy management by designing energy-efficient machines, thermal systems, HVAC setups, and renewable energy systems.

Recent Trends in Energy Management through Mechanical Engineering Integration of Renewable Energy Systems

- Engineers are now integrating solar panels, wind turbines, and biomass systems into traditional power grids.
- Smart mechanical controllers ensure maximum efficiency through real-time tracking and load balancing.
- Design of hybrid energy systems (e.g., solar + battery + diesel) is on the rise for rural and industrial applications.

Energy-Efficient HVAC Systems

- Buildings consume nearly 40% of global energy, most of it for heating and cooling.
- Mechanical engineers are developing smart HVAC systems that use variable frequency drives (VFDs), zoned cooling, and IoT-based control to reduce energy use.
- Geothermal heat pumps and thermal storage systems are being adopted in smart buildings.

Waste Heat Recovery Systems (WHRS)

- Industries are investing in systems that capture waste heat from boilers, turbines, and exhaust systems.
- This recovered heat is reused to power secondary systems, increasing overall thermal efficiency and reducing energy waste.
- Mechanical design of heat exchangers, thermoelectric generators, and organic Rankine cycle systems is central to this trend.

Digital Twin and Simulation for Energy Analysis

- A Digital Twin is a virtual model of a physical system that allows engineers to simulate energy performance before actual implementation.
- Using software like ANSYS, MATLAB, and Solid Works Flow Simulation, mechanical engineers can optimize machine designs for minimal energy loss.

Smart Manufacturing and Industry 4.0

- Sensors and automation systems embedded in machines now track energy consumption in real-time.
- Energy dashboards in smart factories help reduce idle machine time and optimize operational efficiency.
- Predictive maintenance using machine learning minimizes breakdowns and reduces energy waste.

Battery Technology and Energy Storage

- Mechanical engineering contributes to the design of thermal management systems for batteries used in EVs and grid storage.
- Research into phase change materials (PCM) and super capacitor cooling systems is helping make energy storage safer and more efficient.

Sustainability and Environmental Benefits

- Modern energy management reduces greenhouse gas emissions, operational costs, and dependence on non-renewable sources.
- Life cycle analysis and eco-friendly material selection are gaining importance in machine design.
- Green certification like IGBC and LEED now require mechanical engineers to play a crucial role in design and documentation.

Role of Education and Industry

- Colleges and institutes are now offering specializations in Energy Systems Engineering, Sustainable Design, and Thermal Management.
- Students are encouraged to work on energy audits, mini-solar projects, and real-time data logging as part of their curriculum.
- Government bodies like Bureau of Energy Efficiency (BEE) and MNRE offer certification and funding for innovative mechanical energy solutions.

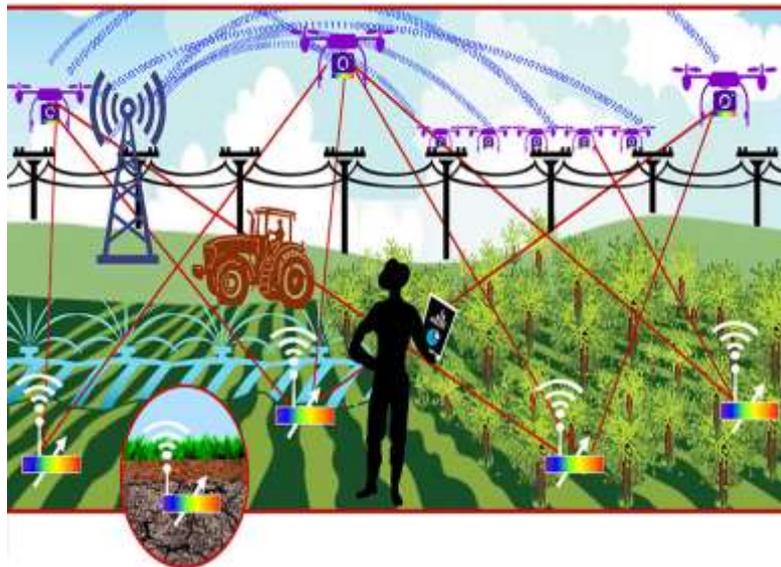


Kartik Deepak Shelar
Class-SYME
SIR Dr. M. S. Gosavi Polytechnic
Institute, Nashik

The Role of Mechanical Engineering in Modern Farming.

Introduction

Agriculture has long been the backbone of India's economy, employing nearly half of the nation's workforce. But with rising challenges such as labor shortages, unpredictable climate, and increasing demand for food, there's a growing need to make agriculture smarter, faster, and more sustainable. This is where mechanical engineering steps in-bringing a wave of innovation that is redefining how India farms.



The New Face of Farm Mechanization

Gone are the days when mechanization only meant tractors and plows. Today, agricultural machinery includes smart seeders, automated harvesters, GPS-guided implements, and even AI-enabled drones. These machines are not just improving productivity, but also ensuring precision farming, where every drop of water and every seed are optimally utilized.

Key innovations include are as follows:-

- Rotavators and power weeders for efficient land preparation.
- Mini tillers and e-tractors, especially suitable for small farms.
- Drip and sprinkler irrigation systems integrated with moisture sensors.

Electrification of Agriculture

In response to rising fuel prices and environmental concerns, India is witnessing a slow but steady rise in electric farm equipment. Institutes like CSIR and private startups have launched e-tractors and solar-powered implements, reducing operational costs while cutting carbon emissions.

- The Government of India is also supporting clean energy adoption through subsidies and PM-KUSUM schemes, which promote solar-based irrigation systems.

Robotics and Automation

Robots are no longer limited to factories. In agriculture, they are helping farmers:

- Detect pests and apply pesticides precisely.
- Harvest crops with minimal waste.
- Perform repetitive tasks like weeding and sowing autonomously.

For example, IIT Kharagpur's pest-spraying robot and IIT Ropar's robotic arms for fruit picking show how mechanical design and AI are working hand-in-hand to reduce manual effort and boost output.

Precision Farming with IoT & Sensors.

Mechanical engineering is also closely linked to smart farming. By embedding sensors and GPS technology into machines farmers can monitor real-time soil health, humidity, and nutrient levels.

Drones can survey large farms to detect crop health and irrigation needs.

GPS-guided tractors can ensure efficient sowing and reduced overlaps these smart solutions are helping farmers increase yield and reduce waste, especially in states like Maharashtra, Punjab, and Tamil Nadu.

Sustainability: The New Engineering Goal

- Modern agricultural equipment is being designed with sustainability in mind. This includes:
- Biochar machines that convert crop waste into soil nutrient.
- Solar-powered water pumps replacing diesel engines.
- Low-emission engines in tractors and threshers.

Mechanical engineers are now focusing on making machines that are energy-efficient, cost-effective, and environmentally friendly.

Educational and Institutional Support

Institutions like IITs, ICAR, and polytechnic colleges are playing a major role in developing and testing new farm technologies. In fact, student projects and startup incubators are creating affordable innovations tailored for Indian farmers.

Government programs like:

Sub-Mission on Agricultural Mechanization (SMAM).

Agri-Startups under Atal Innovation Mission are empowering young engineers to bring real-world change to rural India.

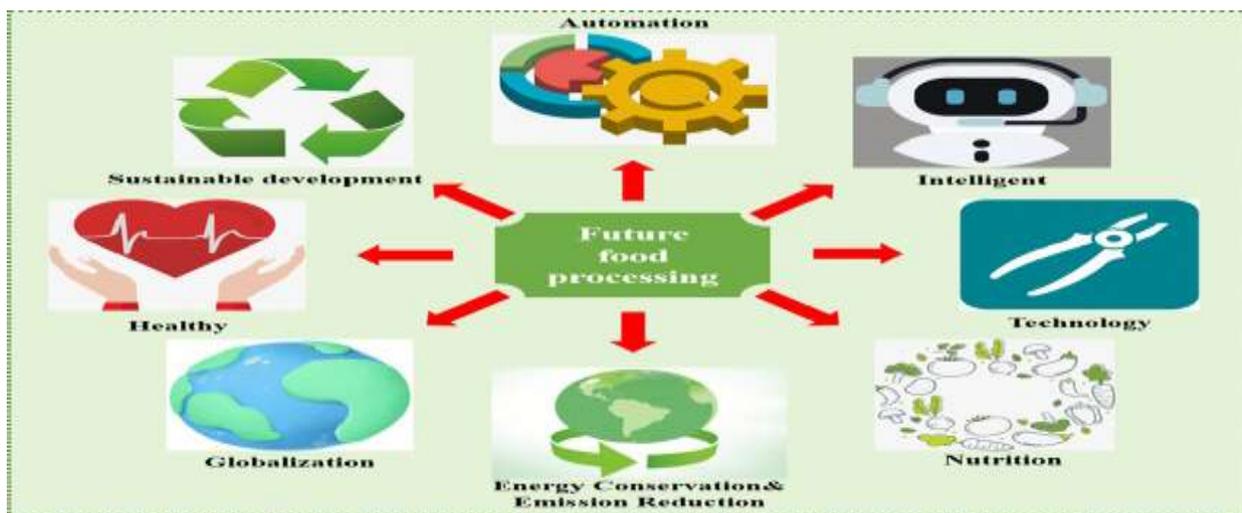


Sigh Omkar Vinod
Class-TYME
Sir Dr. M. S. Gosavi Polytechnic Institute,
Nashik

Engineering the Future of Food: Recent Trends in Mechanical Engineering for the Food Industry

Introduction

The food industry, one of the oldest and most essential sectors, is rapidly evolving through the application of modern mechanical engineering. From automated processing lines to advanced packaging and storage systems, mechanical engineers are reshaping how food is produced, processed, preserved, and delivered. This fusion of food science with mechanical innovation is improving safety, efficiency, and sustainability across the supply chain.



Key Trends in Mechanical Engineering for the Food Industry

1. Automation and Robotics in Food Processing

- Mechanical engineers are designing robotic arms for slicing, sorting, and packaging food.
- Automation reduces labor costs, ensures hygiene, and speeds up production.
- Cobots (collaborative robots) are being adopted for tasks like palletizing and ingredient handling.

2. Advanced Food Packaging Machinery

- Packaging machines now incorporate vacuum technology, modified atmosphere packaging (MAP), and smart sensors.
- These systems preserve freshness, increase shelf life, and reduce food waste.
- Biodegradable and recyclable packaging materials are also being developed through mechanical innovations.

3. Thermal and Non-Thermal Food Processing

- Engineers are optimizing heat exchangers for pasteurization and sterilization with minimal energy loss.
- Non-thermal technologies like high-pressure processing (HPP) and pulsed electric fields (PEF) are becoming popular for preserving nutrients while ensuring safety.

4. Energy Efficiency and Sustainability

- Engineers are redesigning refrigeration systems and boilers to use less energy and reduce carbon emissions.
- Waste heat recovery systems and solar-powered food dryers are gaining traction in food processing plants.
- Sustainable manufacturing practices, including water recycling and waste reduction, are part of modern factory design.

5. Design of Hygienic and Wash-Down Equipment

- Equipment is now designed with stainless steel, rounded edges, and minimal contact surfaces to meet stringent hygiene standards.
- Clean-In-Place (CIP) systems allow automated internal cleaning without disassembling machinery improving productivity and sanitation.

6. Smart Manufacturing and IoT Integration

- Sensors and real-time monitoring systems ensure quality control and equipment health.
- Engineers use IoT and cloud-based dashboards to track temperature, humidity, and machine performance.
- Predictive maintenance reduces breakdowns and ensures uninterrupted food production.

Impact on Consumers and Industry

- **Improved Food Safety:** Enhanced automation and monitoring reduce contamination risks.
- **Consistent Quality:** Engineering solutions ensure uniformity in taste, size, and appearance.
- **Cost Reduction:** Energy-efficient designs lower operational expenses, reducing the final price for consumers.
- **Faster Delivery:** Mechanized storage and retrieval systems help with rapid and accurate dispatches.

Role of Mechanical Engineers in Food Industry

- Product and equipment design engineers develop efficient processing systems.
- Plant engineers manage maintenance and upgrades in factories.
- R&D teams create innovative machinery for novel food products and techniques.

Future Outlook

- With rising demand for plant-based and ready-to-eat foods, mechanical engineers will continue innovating to meet evolving consumer preferences.
- 3D food printing, automation in cold chains, and AI-based production optimization are set to transform the future of food engineering.



Chandan Rajkamal Vishwakarma
Class-TYME
Sir Dr. M. S. Gosavi Polytechnic Institute,
Nashik

INDUSTRIAL VISITS

Sr. No.	Industry name	Address
1	ST Workshop	Omkar Nagar, Peth Road, Nashik
2	Pravin Enterprises	W – 202 MIDC Ambad, Nashik
3	Vaitarna Hydro Electric Power Plant	Tal. Igatpuri, Dist.Nashik

Details of Industries:-

Name:- ST Workshop

Address:- Omkar Nagar, Peth Road, Nashik.

The **ST Workshop** located on Peth Road in Nashik is a key facility operated by the Maharashtra State Road Transport Corporation (MSRTC). It serves as a maintenance and repair hub for the state-run bus fleet, ensuring the safety and efficiency of public transportation in the region. This workshop is also utilized for educational purposes; for instance, students from GES's Sir Dr. M. S. Gosavi Polytechnic Institute, Nashik have conducted industrial visits to the facility, gaining practical insights into mechanical systems and transport operations.

An industrial visit to the ST Workshop offers TYME students a valuable opportunity to bridge the gap between theoretical knowledge and practical application in the field of mechanical and automobile engineering.



"Students visited the ST Workshop on Peth Road, Nashik, for practical exposure to real-world mechanical systems."

Name:- Pravin Enterprises

Address:-W – 202 MIDC Ambad, Nashik.

Pravin Enterprises, located at Plot No. W-202, Near Siemens Water Tank, MIDC, Ambad, Nashik – 422010, is a manufacturing unit specializing in stainless steel (SS) valve bodies and filament winders.

An industrial visit to Pravin Enterprises offers students practical exposure to manufacturing processes such as precision machining, quality control, and assembly operations. This experience is particularly beneficial for students pursuing studies in mechanical engineering, production engineering, or industrial design, as it bridges the gap between theoretical knowledge and real-world applications.

During the visit, students can observe the end-to-end production workflow, including material handling, machining operations, and final product inspection. This hands-on learning opportunity enhances their understanding of manufacturing technologies and industry best practices.

If you require assistance in organizing an industrial visit to Pravin Enterprises or need more detailed information about the company's operations, feel free to ask.





"Students visited the Pravin Enterprises on W – 202 MIDC Ambad, Nashik, for practical exposure to real-world mechanical systems."

Name:- Vaitarna Hydro Electric Power Plant

Address:-Tal. Egatpuri, Dist. Nashik.

The **Vaitarna Hydroelectric Power Plant**, situated near the Upper Vaitarna Dam in Igatpuri, Nashik district, Maharashtra, is a significant facility operated by the Maharashtra State Electricity Generation Company (MAHAGENCO). Commissioned in 1976, this plant harnesses the flow of the Vaitarna and Alwandi rivers to generate electricity. It features a single 60 MW Francis turbine, with both the turbine and generator manufactured by Bharat Heavy Electricals Limited (BHEL) in Haridwar.

An industrial visit to the Vaitarna Hydroelectric Power Plant offers students, particularly those in electrical, mechanical, and energy engineering disciplines, a comprehensive understanding of hydroelectric power generation.



"Students visited the vaitarna Hydro Electric Power Plant, Vaitarna, Tal. Igatpuri, dist. nashik, for practical exposure to real-world mechanical systems."

EXPERT LECTURS

Sr. No.	Topic	Name of Expert Lecturer
1	Skill Development & Introduction of CNC	Mr. Mahesh chalke, India Skill.
2	Career guidance & Interview Technique	Mr. Pradip More, Distil Tech. Pvt Ltd.

Details of Guest Lecture

Topic:- Skill Development & Introduction of CNC

Date:- 18TH March 2025

Class:-SYME, TYME

Name of Expert Lecturer:- Mr. Mahesh chalke

The objective of an expert talk on Skill Development & Introduction of CNC is to provide an in-depth understanding of the concepts, technologies, and challenges related to the quality, manufacturing and design or product. Work for

- MSBVET
- India Skill career guidance
- Government education program



"To bridge the gap between academics and industry, an expert lecture on CNC and Skill Development was arranged for students."

Details of Guest Lecture

Topic:- Career guidance & Interview Technique

Date:- 06 TH March 2025

Class:-SYME,TYME

Name of Expert Lecturer:- Mr. Pradip More

Name & Address of Industry:- Distil Tech. Pvt Ltd.

The objective of an expert talk on Career guidance & Interview Technique is to provide an in-depth understanding of the interview technique, body language and career opportunity in non IT company.





Engaged in a Career Guidance and Interview Techniques training program to build confidence and improve employability skills.

ACHIEVEMENTS

"A student and faculty member have been granted a patent for the innovative design of a stool welding fixture, reflecting a significant contribution to applied engineering and institutional research excellence."



"The student and staff member were felicitated by Principal Dr. Mrs. S. P. Deshpande in recognition of their achievement in obtaining a patent for the stool welding fixture design."

"This is to certify that **Vinit S. Raskar, Vishal S. Aher, Kaushik T. Sangore and Dr. D. B. Zoman** have been awarded a patent for their innovative design of a Stool Welding Fixture, in recognition of their outstanding contribution to engineering design and development."



Mr. A. S. Panchakshari conferred with the award for "Best Book Reader" in the Annual Social Gathering held by the institute for the year 2024-25.



MOU'S

Sr. No.	Name of Company	Address	Date	Validity
1	J K Polymers	L16/2, MIDC, Ambad, Nasik-10	12-03-21	5 Years
2	Mary Engineering Works	W226, MIDC, Ambad, Nashik-10	12-03-21	5 Years
3	AME Enterprises	Plot No. 61/2, Datir Mala, MIDC, Ambad, Nashik-10	05-02-21	5 Years
4	Shree Ganesh Springs	Plot No. L-6/2, MIDC, Ambad, Nashik-10	05-02-21	5 Years
5	Arvind Engineers	II nd floor, Gala No. 337B, Mulay I Square, MIDC, Ambd, Nashik-10	29-01-21	5 Years
6	Shree Industries	SS-92, Ambad, MIDC, Nashik-10	29-01-21	5 Years

FEEDBACK

Parents Feedback

The college excels in providing high-quality teaching, with dedicated *faculty members* under the excellent guidance of respected *Principal Madam* who are not only knowledgeable but also deeply committed to student success. The mentoring system is particularly commendable, offering personalized guidance that helps students navigate academic challenges and plan their future paths effectively. The college also ensures robust support systems are in place, addressing both academic and personal needs to foster a nurturing learning environment. Additionally, the institution maintains regular and meaningful interactions with parents, keeping them well-informed and engaged in their children's educational journey. This holistic approach significantly enhances the overall student experience. We feel privileged to be a part of this college..

Mr. & Mrs. Preeti Kohli

I am Abraham Varsala, father of Joel Varsala. I am truly pleased with the overall development of my child. The academic environment at the college is well-structured, and the faculty members are highly knowledgeable and dedicated.

I have observed significant improvement not only in Joel's subject knowledge but also in his confidence and discipline. The college maintains strong communication with parents, which helps us stay updated on his progress and areas for improvement.

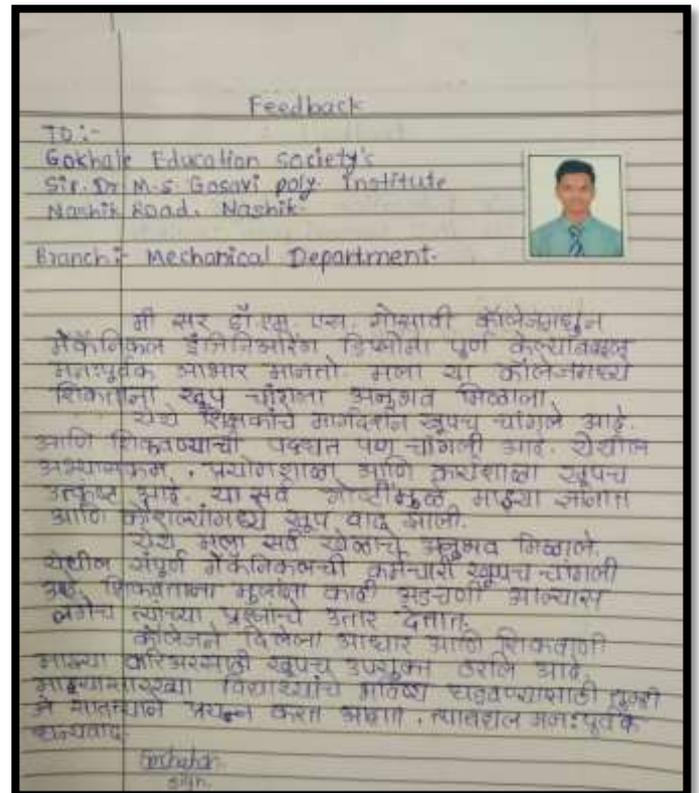
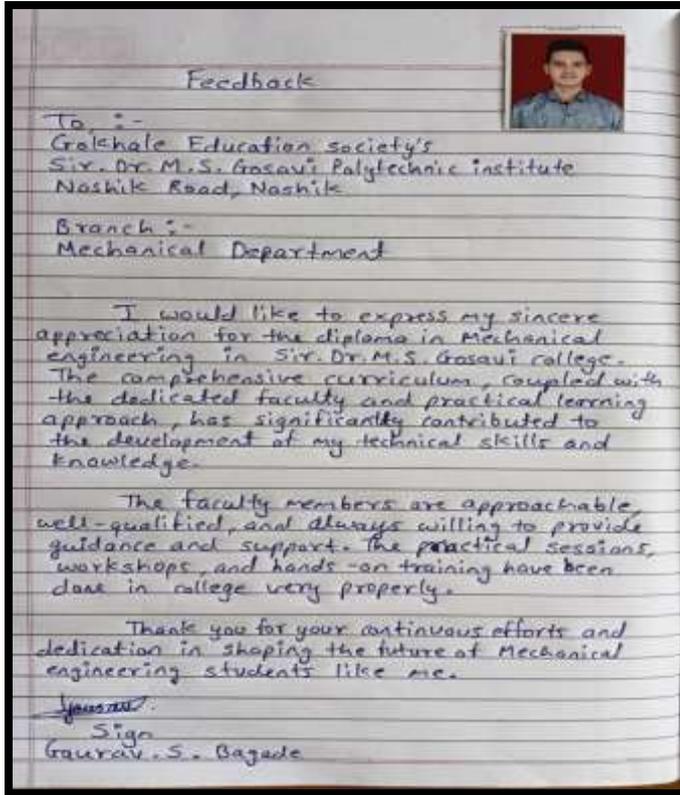
We also deeply appreciate the encouragement given to students to participate in extracurricular activities, which greatly contributes to their all-round development.

Overall, we are truly grateful to the college for shaping our child into a more responsible and skilled individual.

Mr. Abraham Varsala

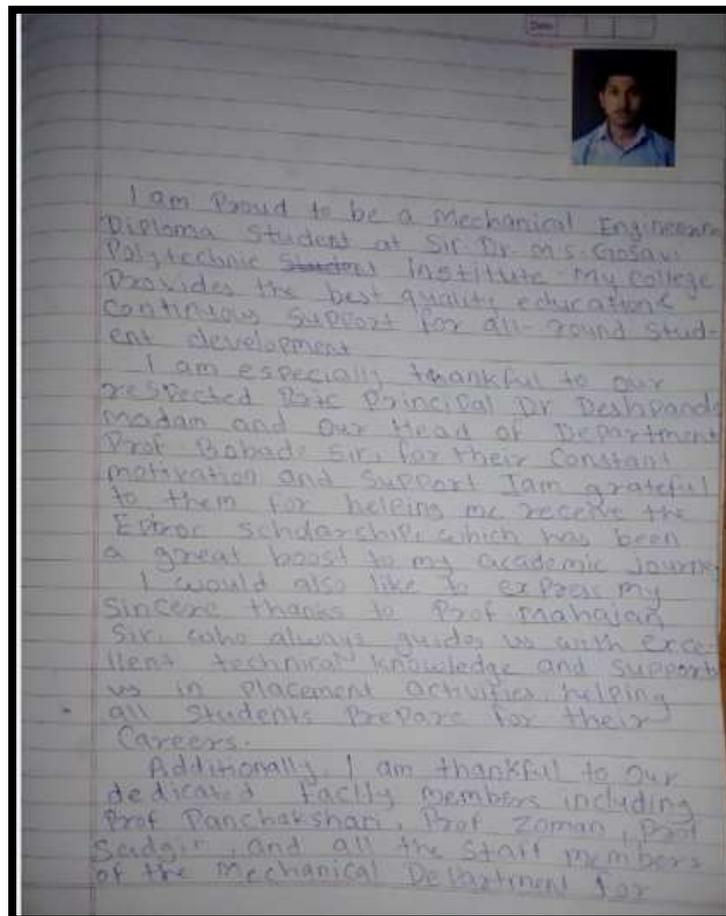
FEEDBACK

Student Feedback



FEEDBACK

Student Feedback



Mr. Ram Vispute
TYME



Editorial Committee

**THANK
YOU!**