



BREAKING BOUNDARIES: PIEMR's IETE Society Unleashes a Wave of Student Innovations!

In a remarkable display of creativity and ingenuity, PIEMR has opened new doors for students to explore groundbreaking ideas. The institution is fostering an environment where innovation thrives, empowering students to push the limits of what’s possible.

In a series of impactful events, PIEMR celebrated Engineers' Day with a special program that honored the contributions of engineers to society. The event included a MATLAB workshop organized by IETE, where students gained hands-on experience with the software, enhancing their technical skills. Additionally, a Book Review Contest was held to encourage critical thinking and creativity among students, fostering a love for literature and learning. Read more on page 3.

The events were a resounding success, with enthusiastic participation from students across various disciplines. The MATLAB workshop, in particular, stood out as a major learning experience, equipping attendees with skills that are essential in the rapidly advancing field of technology. The interactive sessions and hands-on activities sparked a wave of creativity and problem-solving, pushing students to think beyond the conventional. Read more on page 2.

What hit MATLAB did?

Written by yashi ingle

Pals recently witnessed an electrifying two-day MATLAB Workshop under the esteemed banner of the Institution of Electronics Telecommunication Engineers (IETE). Held on the 4th and 5th of October, this event was spearheaded by the renowned Mr. Anshul Sharma from ARK Info solutions.

The workshop, aptly named "A Low Code Approach to Design Automation," exceeded expectations, leaving participants inspired and eager for more. Where there was more enthusiasm in students the faculties supported the brains more by giving their huge arms. Deeply honored by that.

The workshop was conducted in collaboration with Arkinbfo Solutions, a reputed organization specializing in technical training and development. Expert trainers guided students through real-time projects, including sensor interfacing, data acquisition, and IoT-based applications, using MATLAB's robust simulation tools. Students actively participated in interactive sessions and practical demonstrations, gaining a comprehensive understanding of programming, hardware interfacing, and data visualization. The workshop concluded with a project development activity, where students showcased their innovative ideas, applying the knowledge gained during the sessions. Certificates of participation were distributed to all attendees. Teams that successfully completed advanced projects were acknowledged for their efforts. The event was a resounding success, equipping participants with the skills necessary to excel in embedded systems and IoT technologies.

What made this workshop a standout event? For starters, it provided an immersive experience in critical areas such as: Hardware Interfacing with Simulink/MATLAB, IoT with Simulink, GUI Designing. These topics not only equipped students with practical skills but also highlighted the power of low code methodologies in streamlining design processes. We must say that Mr. Sharma made it all impeccable at the end of day. A huge credits goes to him for his asset of time for campus.

The success of the event was driven by the dedicated coordination of our esteemed faculty members Prof. Sadhana Tiwari, Dr. Ankit Soni, and Prof. Chinmaya Saraf, along with the invaluable support of lab technician Mr. Piyush Joshi. Additionally, student coordinators Somya Shrivastav and Mayank Nagariya played a pivotal role in orchestrating the smooth execution of the workshop. Well, at the last, In associations with ARK info solutions the campus may carry there regards always.

Director's Presence Elevated Workshop



Workshop saw active participation from the Director. His involvement, along with expert guidance, significantly elevated the event's success, leaving students inspired and well-equipped with new skills. It was so cherishing to hear director’s call on IETE student forum’s effort of making student learn more about MATLAB .





# Students wrote a critical review?

Written by Somya Shrivastav

The reviews highlighted the book's clarity in explaining complex electronic principles, making it an essential resource for engineering students. Participants were commended for their in-depth understanding and articulate presentations.

Akansha Gurjar emerged as the winner for her comprehensive analysis and unique insights. The event encouraged critical thinking and technical evaluation, fostering a deeper appreciation for academic resources in engineering.

## AAKANSHA GURJAR WON THE PRIZE BY BEING CRITIC.

Akansha's analysis not only highlighted the book's practical relevance but also reflected her ability to connect theoretical concepts with real-world applications. Her keen writing style took heart of jury and her winner in first book review compitition held under banner of IETE student's forum.

Her articulate presentation and keen attention to detail earned her the top position in the competition. Akansha's achievement is a testament to her dedication, intellectual curiosity, and passion for academic excellence, setting a stellar example for her peers.

## ‘A vote of thanks to HOD sir’

The editorial team extends heartfelt thanks to the HOD for his thoughtful selection, which played a crucial role in the success of the event. His decision has enriched the learning experience of all participants, fostering a culture of intellectual curiosity and academic excellence within our community.

Robert Boylestad's book, renowned for its comprehensive and clear explanations of complex concepts, provided an ideal subject for the contest. Participants were able to delve deeply into the material, offering insightful analyses that showcased their understanding and critical thinking skills. This contest highlighted the importance of engaging with high-quality academic texts and demonstrated the value of thorough literary critique.



Sr. Director & HOD, ECE in the frame for event.

Alongside the commendable efforts of all participants, underscores the importance of such initiatives in enhancing technical understanding and academic engagement. The competition not only celebrated individual achievements but also inspired a collective drive for deeper learning and innovation within the department.

# LinkedIn Workshop on Personal Branding

The IETE Student Forum of PIEMR successfully organized a workshop on "Personal Branding through AI Tools and Social Media" on January 21, 2025, featuring Mrs. Divya Vagol, HR Manager at Hoteax Systems. The workshop highlighted the importance of building a strong LinkedIn presence for professional growth, covering profile optimization, content creation, and innovative AI tools for branding. Mrs. Vagol engaged students with live profile reviews, practical activities, and actionable tips to enhance visibility and networking. The session bridged the gap between academics and industry needs, empowering participants to showcase their skills, projects, and leadership effectively. The event concluded with a vote of thanks by Ms. Somya Shrivastav, President of the IETE Student Forum, who appreciated Mrs. Vagol's invaluable guidance in preparing students for their professional journeys. The event began with an introduction by Ms. Somya Shrivastav, President of the IETE Student Forum, who warmly welcomed Mrs. Vagol and highlighted the growing importance of digital platforms in shaping careers. Ms. Shrivastav spoke about the forum's commitment to equipping students with tools and strategies that complement their academic knowledge and prepare them for the demands of the professional world. She emphasized that LinkedIn is more than just a job-search platform; it is a space to build meaningful connections, share knowledge, and establish a personal brand that reflects one's unique identity and career aspirations. Her words set the tone for an engaging and impactful session that resonated deeply with the attendees.

Mrs. Vagol commenced the workshop by addressing the basics of personal branding and its significance in today's interconnected world. She explained that a strong personal brand helps individuals differentiate themselves in a crowded marketplace and allows them to communicate their value effectively. She then shifted the focus to LinkedIn, describing it as an indispensable tool for anyone looking to establish a professional identity. Her insights ranged from crafting an optimized profile to curating content that demonstrates expertise and engages an audience. She stressed the importance of first impressions, encouraging students to pay attention to their profile pictures, headlines, and summaries, as these are the elements that often determine whether a profile gets noticed by recruiters and professionals.

A significant portion of the workshop was dedicated to profile optimization. Mrs. Vagol explained how students can craft professional headlines that are concise yet impactful, reflecting their goals and expertise. She demonstrated how a well-written summary could narrate a student's journey, highlighting their strengths, achievements, and future aspirations. The inclusion of relevant keywords was discussed as a critical factor in making profiles more discoverable to recruiters. She also introduced the concept of using multimedia elements such as project portfolios, certificates, and videos to make profiles more dynamic and visually appealing.

Throughout this segment, Mrs. Vagol provided practical examples and real-time demonstrations, ensuring that students understood how to implement these strategies effectively. Moving beyond profile creation, Mrs. Vagol delved into the art of content creation and engagement on LinkedIn. She explained how regular posting, thoughtful comments, and meaningful interactions could help students expand their network and establish themselves as active contributors in their respective fields. She encouraged students to share their academic projects, internships, and achievements, presenting them as practical applications of their skills. By doing so, they could attract attention from potential employers and collaborators. The session also touched on the importance of storytelling in creating authentic and relatable posts. Mrs. Vagol shared examples of how personal stories, combined with professional insights, could foster deeper connections and engagement.

A unique highlight of the workshop was the segment on leveraging AI tools for personal branding. Mrs. Vagol introduced students to a range of AI-driven tools that could simplify and enhance their branding efforts. These tools assist in tasks such as generating personalized content ideas, analyzing engagement metrics, and optimizing profiles for search algorithms. She demonstrated how AI could be used to craft resumes and cover letters tailored to specific industries, saving time while ensuring quality. This segment was particularly well-received, as it introduced innovative methods to stay ahead in the competitive job market.



# SPOC’S CALL ON MICROCONTROLLER;



Asst. Prof. Sadhana Tiwari

*What SPOC called out for microcontrollers was fascinating to know about, Let’s read her esteemed words....*

SPOC Sadhana Tiwari, a visionary leader and a driving force behind the establishment of the IETE Student Forum at Prestige Institute of Engineering Management and Research (PIEMR), has played an instrumental role in shaping the forum into a thriving community for students in the field of electronics and communication. Under her guidance, the forum has flourished, offering numerous opportunities for students to enhance their technical knowledge, engage in professional development, and build networks within the industry. Sadhana’s relentless dedication to student empowerment and her strategic approach to organizing workshops, seminars, and events has left a lasting impact on the PIEMR community. Her leadership has been marked by a keen understanding of the evolving needs of students and a deep commitment to providing them with the resources and platforms necessary for success. The IETE Student Forum, under her initiative, continues to be a beacon of growth, learning, and innovation, empowering students to bridge the gap between academic learning and real-world applications. Sadhana’s vision and tireless efforts have not only shaped the forum but also inspired countless students to pursue excellence in their academic and professional pursuits.

Contemplate on “Professional Ethics “

Engineering is an important and learned profession. As members of this profession, engineers are expected to exhibit the highest standards of honesty and integrity. Engineering has a direct and vital impact on the quality of life for all people. Accordingly, the services provided by engineers require honesty, impartiality, fairness, and equity, and must be dedicated to the protection of the public health, safety, and welfare. Engineers must perform under a standard of professional behavior that requires adherence to the highest principles of ethical conduct.

For more reading refer:

<https://www.nspe.org/sites/default/files/resources/pdfs/Ethics/CodeofEthics/NSPECodeofEthicsforEng>

Microcontrollers have become important part of modern technology and embedded into devices that power our daily lives ranging from home appliances to complex industrial automation systems. This article presents the journey of microcontrollers. The 1970s marked as the inception of microcontrollers, driven by the need for compact and efficient computing systems. The earliest designs (Intel 8048, TMS1000), combined a processor, memory, and input/output (I/O) peripherals on a single chip, and results in reducing system size and complexity. In 1980s 8-bit microcontrollers Intel 8051 (1980) and Motorola 68HC11 (1985) came into existence with balanced cost, performance, and functionality. These devices were extensively used in consumer electronics, automotive systems, and industrial automation. The 1990s,marked as transition of microcontrollers to 16-bit and 32-bit architectures, with greater processing power and memory. Microchip Technology’s PIC series became a benchmark for low-cost, high-performance applications, while ARM’s RISC architecture revolutionized energy-efficient, scalable designs.

Flash memory integration and real-time capabilities made these microcontrollers indispensable for time-sensitive tasks. The 2000s is an era of highly integrated microcontrollers known as System-on-Chip (SoC) revolution, embedding wireless connectivity, advanced peripherals, and powerful processors. ARM Cortex-M Series (2004) set new standards for efficiency, and AVR microcontrollers, popularized by Arduino, democratized access to electronics, fostering innovation in projects. USB support, wireless modules, and robust power management became standard features. Around 2010s, the rise of the Internet of Things (IoT) transformed microcontroller development and focused on connectivity, low power consumption, and compact designs. Affordable, Wi-Fi- enabled microcontrollers like ESP8266 and ESP32 gained attention, while STM32 Series addressed industries ranging from healthcare to robotics. In the 2020s, AI and microcontrollers. Devices like ARM Cortex-M55 introduced AI acceleration, and the open-source RISC-V architecture gained traction for its flexibility. Security features such as encryption and secure boot became essential.

Event Glimpses:

**PIEMR**  
Prestige Institute of Engineering Management and Research

**DEPARTMENT OF ELECTRONIC & COMMUNICATION ENGINEERING**

**BOOK REVIEW CONTEST**

Join the Fun! Review Books and Win Awesome Prizes!

Participate in Book Review Contest by reviewing "Electronic Devices and Circuit Theory"

28 SEPTEMBER 2024 - 30 SEPTEMBER 2024

STARTS FROM SATURDAY 8PM, ENDS AT MONDAY 12PM.

30 SEPT. 2024

TILL 12 PM ONLY

1ST PRIZE - 64 GB PENDRIVE  
2ND PRIZE - LAPTOP STAND  
3RD PRIZE - MOBILE STAND

Student coordinator: Somya Shrivastav, Mayank Nagaria  
Faculty coordinator: Sadhana Tiwari  
Head Of Department: Dr. Mohendra Singh Thakur

Exclusively free for IETE members. Just 28/- for non-members.

UPI ID: 9302949068@pfbdr

9826872722, 9302949068 | somyaworks903@yahoo.com

**PIEMR** MathWorks

**DEPARTMENT OF ECE & ARE**

**EXCLUSIVE TWO-DAY WORKSHOP**

ROAD TO HARDWARE INTERFACING WITH SIMULINK: A LOW-CODE APPROACH TO DESIGN AUTOMATION

IN ASSOCIATION WITH ARK INFOSOLUTIONS & MATHWORKS

Dates : 4th & 5th October, 2024  
Time : 10AM - 5PM

**KEY HIGHLIGHTS**

- Hardware Interfacing with Simulink or MATLAB ; ARKINFO/R-PI
- IOT with Simulink.
- MATLAB/fort design.

Exclusively for all the Passionate faculties and students eager for hardware-software integration, and looking to master IoT and automation with MATLAB & Simulink!

Resource Person: Mr. Anshuman Prakash, Senior Application Engineer-MATLAB ARK Infosolutions, MP & Chhattisgarh

Faculty Coordinators - Prof. Sadhana Tiwari , ECE  
Dr. Ankit Bora, ECE  
Prof. Chintan Bora , ME

Tech Support: Mr. Piyush Joshi , LAB InSTRUCTOR ECE

Students Coordinators - Somya Shrivastav , Mayank Nagaria

Students from ECE, ARE, ME, EE get ready!

9826872722, 9302949068 | Venue : PIEMR Campus



# IETE MEDIA FRONT

The IETE Student Forum at Prestige Institute of Engineering Management and Research (PIEMR) extends its heartfelt gratitude to all those who have contributed to its success. Special thanks to the President, Ms. Somya Shrivastav, for her dynamic leadership, vision, and tireless efforts in steering the forum toward new heights. A sincere thank you to the Vice President, team members, SPOC Sadhana Tiwari and HoD Dr.Mahendra Singh Thakur, whose strategic guidance and dedication have been instrumental in the forum’s growth and success. The entire IETE team has shown unwavering commitment to empowering students and creating a thriving platform for knowledge and innovation. As we reflect on our achievements, we pledge to continue working together with the same passion and dedication in the future, striving for even greater accomplishments. The journey of learning and growth is far from over, and the IETE Student Forum remains steadfast in its mission to inspire, educate, and lead our peers towards excellence.

