Event of the Month - Report Submission Template

Abstract of the Event:

Event Name:	Power Pulse
Date & Time:	25th September, 2024 9:00 am to 4:00 pm
Event Duration:	7 hours
No. of Participants	Total: 130 IEEE: 95 Non-IEEE: 35
Location:	FISAT
Event Type: (Workshop, Seminar, Hackathon, etc.)	Workshop, MD session
COLLABORATION (YES/NO)	Yes
Collaborator's OU Names (with Geo-code)	SBC63121A - Federal Inst of Science & Tech, RA24 and Energy Audit Cell
Speakers Names:	Basil K Jeemon

Event Objectives and Agenda

The event began with a networking session led by Ashna K S, PES Secretary IEEE FISAT PES SBC, and Veena Prakash, WIP IEEE FISAT PES SBC. This session, lasting for two hours, included engaging activities that encouraged interaction and collaboration among participants. Following the networking session, the MATLAB workshop commenced in two phases. The first session was held from 11:00 AM to 1:00 PM, where the basics of MATLAB were introduced. After a lunch break, the second session took place from 2:00 PM to 4:00 PM, focusing on more advanced applications, ensuring participants gained practical experience with the software expertly led by Mr. Basil K. Jeemon, Assistant Professor in the ECE department. This session attracted a significant number of second-year students from the ECE, EEE, and EI departments, eager to enhance their programming skills. Mr. Basil K Jeemon introduced participants to the fundamentals of MATLAB, covering essential concepts such as programming structures, syntax, and execution techniques.

The workshop was structured to promote interaction and hands-on learning. Participants worked through examples and exercises, which not only helped solidify their understanding but also encouraged collaboration among peers. By the end of the session, the positive feedback from students highlighted their newfound ability to code simple programs independently, showcasing the effectiveness of the teaching approach.

After a brief break, this session built on the enthusiasm generated by the MATLAB workshop, allowing participants to delve into hardware programming and its applications. The instructor provided a clear overview of the Matlab platform, its components, and various project ideas, fostering creativity and innovation.

Hands-on activities were a key feature of this workshop as well. Students engaged in practical exercises, where they learned to set up circuits and write code to control hardware components. This interactive format not only enhanced their understanding of programming but also allowed them to experience the thrill of seeing their code come to life.

Overall, the workshop was highly successful in equipping students with valuable skills and knowledge. The positive atmosphere fostered a sense of community and collaboration, encouraging students to share ideas and learn from one another. Participants left the workshops with a greater confidence in their programming abilities and an eagerness to apply what they had learned in future projects. The success of these sessions laid a solid foundation for further technical events, promoting ongoing learning and innovation within the student body. We extend our heartfelt thanks to RAS IEEE FISAT SBC and the Energy Audit Cell for their collaboration in making this event a success.

Planning and Execution Details

The planning and execution of the MATLAB workshop, held as part of Power Pulse, were meticulously organized by the dedicated team of IEEE FISAT SB, led by Jilha Jos, Chair of PES IEEE FISAT SB. The team also included key members such as Joseph Thomas, Ashna K S, Veena Prakash, and Devasoorya, all of whom played critical roles in ensuring the event's smooth flow from start to finish.

From the outset, the planning phase involved several rounds of coordination between the organizing team and the speaker, Mr. Basil K Jeemon, Assistant Professor special grade in the ECE department. His expertise in MATLAB and programming made him an ideal choice for the workshop, and the initial agenda was shaped to accommodate both beginners and those with some prior experience. The workshop was designed to cater specifically to students from the second year ECE, EEE, and EI departments, focusing on imparting practical skills that would serve them in both their academic courses and future projects.

A key element in the planning process was ensuring that all logistical and technical preparations were handled efficiently. Several weeks before the event, the team began by assessing the available facilities to ensure that the workshop would proceed without technical hiccups. The venue was equipped with the necessary resources, including high-performance computers capable of running MATLAB smoothly, projectors for live demonstrations, and adequate seating arrangements for all participants. In addition, backup systems were prepared in case of technical failures, and trial runs were conducted to ensure that Mr. Basil K Jeemon's presentations would run smoothly.

Communication with participants was another vital aspect of the planning. A WhatsApp group was created to include all 130 participants, which became the central medium for disseminating important updates, workshop materials, and guidelines. This method of communication significantly reduced the potential for last-minute confusion and allowed for quick responses to participant queries. Detailed instructions regarding the software installation and system requirements were shared beforehand, ensuring that students arrived well-prepared.

On the day of the event, the organizing team arrived early to oversee final preparations. The event was done in collaboration with RAS IEEE FISAT SBC and Energy Audit Cell. The workshop kicked off with an introduction by Jilha Jos, who provided a brief overview of IEEE PES, the goals of the event, and the importance of learning MATLAB in the context of power systems and energy management. Mr. Basil K Jeemon then took over and began the

workshop by introducing the basic features of MATLAB, focusing on its applications in the field of engineering and research.

Throughout the session, the MD (Membership Development) session was held at the end of the event on the same day, led by Jilha Jos, the Chair of IEEE FISAT SB PES. The session aimed to introduce the attendees to the benefits and opportunities offered by IEEE and its associated societies, particularly the Power and Energy Society (PES). Jilha Jos emphasized the importance of being a part of a global professional community, where students could gain access to vast resources, networking opportunities, and events like workshops and hackathons. She discussed how joining IEEE not only enhances technical knowledge but also opens doors for leadership development, career growth, and collaboration on a global scale. The session provided an opportunity for participants to ask questions about membership, and many showed interest in joining IEEE, realizing the potential it could bring to their academic and professional journeys. The MD session effectively encouraged student involvement and fostered a sense of belonging within the IEEE communityants were engaged in hands-on exercises that demonstrated the power.

Participant Feedback and Engagement Metrics

Participant feedback from the recent workshops indicated a high level of satisfaction, highlighting the positive impact of the sessions on attendees. Many participants specifically praised the MATLAB and Arduino workshops, expressing that they found the content highly beneficial. By the end of the workshops, students reported feeling confident in their ability to code simple programs, showcasing the effectiveness of the hands-on, interactive learning approach.

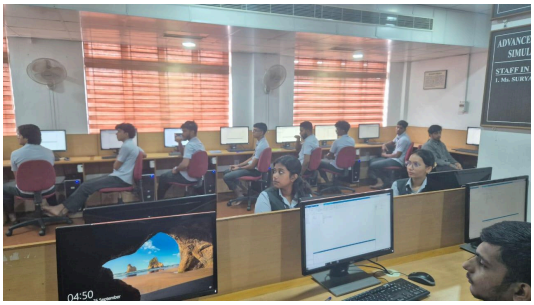
The collaborative atmosphere fostered during the workshops was frequently mentioned in feedback. Participants appreciated the mentorship provided throughout the sessions, noting that instructors and volunteers were readily available to assist whenever needed. This support enhanced the learning experience, allowing students to engage deeply with the material and collaborate with their peers.

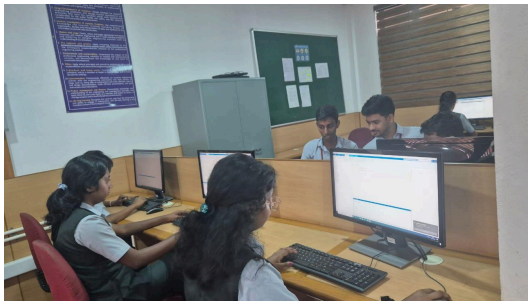
To further enhance the workshops, a feedback form was distributed to all participants. While the responses were overwhelmingly positive, attendees offered valuable suggestions for improvement. Many recommended extending the duration of the workshops to allow for more in-depth exploration of the topics covered. Additionally, participants expressed interest in a broader variety of subjects, which would cater to different interests and skill levels within the student body.

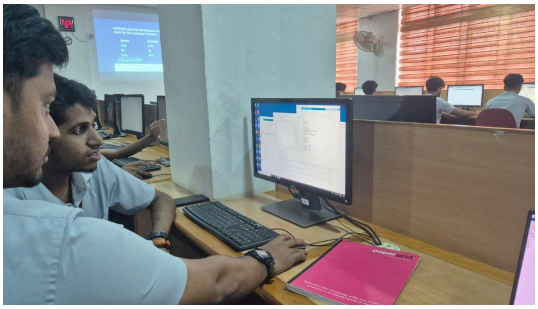
These insights will be invaluable for shaping future workshops and events, ensuring they remain inclusive and engaging for all participants. Overall, the workshops successfully fostered a spirit of teamwork and learning, providing a solid foundation for ongoing educational initiatives. The enthusiasm and constructive feedback from attendees suggest

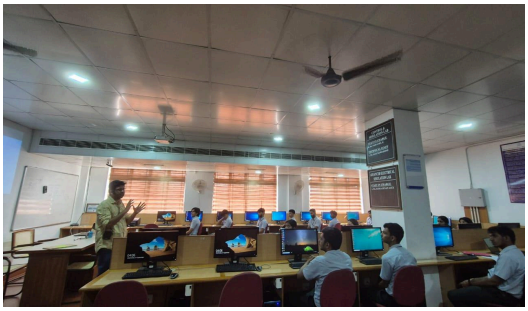
that future sessions will build upon this success, further enriching the learning experience for everyone involved.

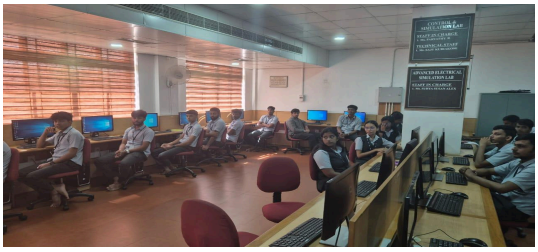
Documentation

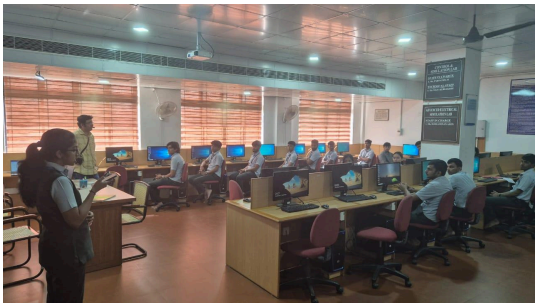












Evidence of Impact

Include any evidence of the event's impact, such as media coverage, testimonials, or notable outcomes like knowledge transfer or skill development (If available).

IEEE PES Alignment

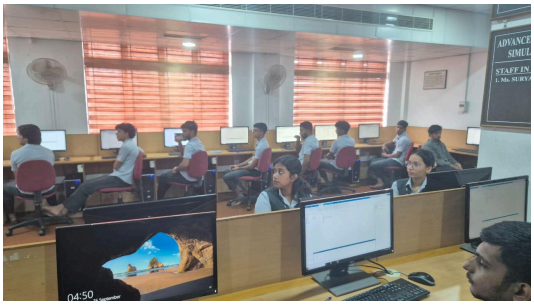
Participants had a valuable opportunity to enhance their skills in MATLAB during the recent workshop, which was designed to ensure that foundational concepts were thoroughly understood. The sessions began with a focus on the basics, allowing attendees to grasp essential programming techniques and concepts. This structured approach laid a solid groundwork for participants, enabling them to confidently progress in their learning.

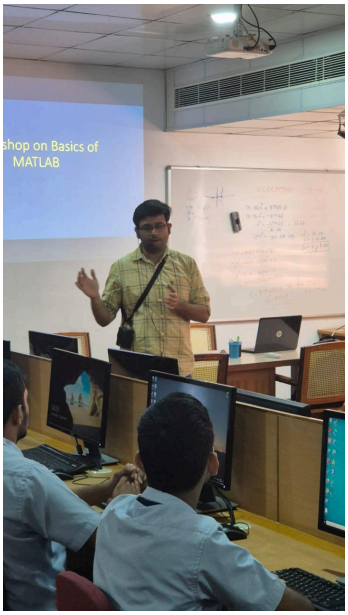
This practical experience was crucial, as it allowed students to apply their knowledge in meaningful ways. The hands-on projects not only deepened their understanding of Matlab technology but also highlighted its potential in addressing pressing issues within the energy sector. Overall, the workshops fostered a spirit of collaboration and innovation, equipping participants with valuable skills that they can leverage in future projects and endeavors. The positive feedback and enthusiasm from attendees suggest a strong foundation for continued learning and exploration in these critical areas.

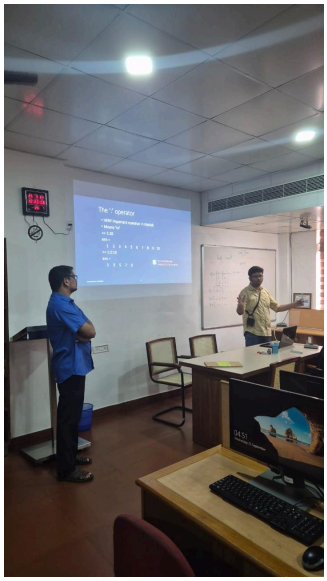
Reference Links:

https://bit.ly/4gzgjiG - Event Registration Link

Pictures/Images:







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