"MEDUINO'24" : ARDUINO-LABVIEW INTEGRATION FOR MEDICAL DEVICE PROTOTYPING

Event No	BM001
Organizing Department	Biomedical Engineering
Associate Dept. | NSC	Biomedical Engineering Society of India
Date	22/03/2024 to 23/03/2024 (2 Days)
Time	09:00 AM to 04:30 PM
Event Type	Workshop
Event Level	Dept. Level
Venue	Centre for Biosignal Processing
Total Participants	62
Students - External	62

Related SDG

Involved Staffs

Sl	Name	Role
1	Priya Darshini B	Convenor
2	Allwyn Gnanadas	Co-convenor

Outcome

Participants gained a deeper understanding of Arduino and LabVIEW, which are essential tools for prototyping medical devices. They have learned how to integrate Arduino and LabVIEW effectively to develop functional prototypes. Through practical hands-on sessions, participants would have gained valuable experience in hardware-software integration, sensor interfacing, data acquisition, and signal processing. Participants would have encountered challenges and obstacles during the hands-on sessions, requiring them to troubleshoot and problem-solve effectively. This experience would have honed their critical thinking and troubleshooting abilities, essential for future projects in biomedical engineering.

Event Summary

The workshop 'MEDUINO'24' aimed to provide participants with practical skills and insights into the integration of Arduino and LabVIEW for medical device prototyping. The hands-on sessions of the workshop were conducted with enthusiasm and engagement from all participants. The workshop commenced with an overview of Arduino microcontrollers and LabVIEW software, highlighting their applications in biomedical engineering and medical device development. Through guided tutorials and practical exercises, attendees were introduced to Arduino programming, LabVIEW interface development, and the seamless integration of these platforms for medical device prototyping. Participants gained a solid understanding of Arduino and LabVIEW, as well as their integration for medical device prototyping. Attendees developed practical skills in hardware-software integration, sensor interfacing, data acquisition, and signal processing. Feedback from participants was overwhelmingly positive, highlighted the workshop's effectiveness in enhancing their skills and understanding of Arduino-LabVIEW integration for medical device prototyping. The workshop concluded with participants leaving with enhanced skills, confidence in their abilities, and a deeper understanding of Arduino-LabVIEW integration in healthcare technology. Overall, 'MEDUINO'24' facilitated a dynamic learning environment, promoting innovation and knowledge exchange in biomedical engineering.

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