

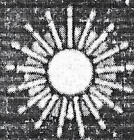


**B.M.S. COLLEGE OF
ENGINEERING**

**DEPARTMENT OF MEDICAL
ELECTRONICS**

**IN COLLABORATION WITH
IEEE PHOTONICS SOCIETY &
BANGALORE SECTION
AND
ASSOCIATION OF MEDICAL
ELECTRONICS
PRESENTS**

**Online Hands-On
Workshop On
OPTICAL SENSING
TECHNOLOGY
With Biomedical
Applications**



**International
Day of Light
16 May**



Photonics is the branch of technology that uses and its properties for applications. Its significant applications in the biomedical field is using sensor technology to develop advanced diagnostic and monitoring tools. Due to their high accuracy and non-invasive operation they have several advantages in the biomedical field. In the biomedical section, Fiber Bragg grating sensors, a type of optical miniaturized sensor, are used to monitor BP, heart & respiratory, etc., and have the potential to revolutionize the field of healthcare.

RS soft simulation tool is a software package to simulate and analyze optical properties and photonics phenomena. It helps us to design, test or optimize optical sensors, time and cost involved hence, accelerating the development of advanced diagnostic and monitoring tools.

This workshop is focused on biosensors used for medical diagnostic instruments and biomedical research.



Faculty Coordinator

Dr. R. Kalpana
Associate Professor
Department of Medical
Electronics Engineering, BMSCE
Ph: 9886201137

Report on Exploring the Frontiers of Optical Sensing Technology in Biomedical Applications: Insights from a Transformative Online Workshop

Abstract:

The online workshop on Optical Sensing Technology in Biomedical Applications, organized by the prestigious IEEE Photonics Society, Bangalore section in collaboration with B.M.S. College of Engineering, Department of Medical Electronics emerged as a resounding success. Coordinated by highly motivated students, Ruchira (UG, 6th semester), Chinmaya (UG, 6th semester), and Shaista (PG student), under the expert guidance of Dr. Kalpana R., associate professor & an esteemed member of the IEEE Photonics Execom, this event provided an invaluable platform for almost 20 participants to delve into the latest developments and applications of optical sensing technology in the biomedical realm. Held on 16th May 2023, from 9:30 a.m. to 4:00 p.m., this workshop coincided with International Light Day, further enhancing its significance.

Introduction:

Advancements in optical sensing technology have revolutionized the biomedical field, enabling remarkable progress in disease diagnosis and treatment. In line with this paradigm shift, the online workshop explored the multifaceted dimensions of Optical Sensing Technology in Biomedical Applications. Participants were exposed to a diverse range of topics, encompassing the fundamental principles, cutting-edge advancements, and simulation techniques related to optical sensors. This report provides an overview of the workshop, highlights the expertise of the distinguished speakers, and underscores the invaluable networking opportunities it offered.

Our Speakers:



Dr. Kalpana R
Faculty Coordinator
B.M.S. College of engineering



Dr. Preetha Sharan
Dean Research
Oxford College of engineering



Deepa N
Research Scholar
Dayanand University

Workshop Sessions:

The workshop featured two distinguished speakers who expertly navigated the intricacies of optical sensing technology. Dr. Preetha Sharan, Dean of Research at The Oxford College of Engineering, delivered an illuminating session on the "Introduction to Optical Sensing Technology." With her comprehensive overview, participants gained a profound understanding of the principles underlying optical sensing and its diverse applications in the biomedical domain.

Dr. Sharan's expertise in introduction to optical sensing, Fiber Bragg Grating (FBG) Sensors, and Optical Biosensors captivated participants as she shared cutting-edge research and valuable insights from her acclaimed research papers. The workshop highlighted the diverse applications of optical sensing in the biomedical field and its potential to revolutionize healthcare diagnosis and treatment.

The session on Optical Biosensors unveiled the immense potential of these devices in disease diagnosis. Dr. Sharan's impactful research papers significantly contributed to advancing the field of optical sensing technology. Participants had the privilege to engage with her research papers during the workshop, gaining access to a wealth of knowledge and developments. These papers provided an in-depth understanding of optical sensing and opened avenues for further exploration, innovation, and collaboration.

Ms. Deepa N., a Research Scholar at Dayananda Sagar University, conducted a session on the installation and fundamentals of the R Soft Simulation Tool for optical sensing. Participants gained valuable insights into the tool's functionalities and its applications in disease diagnosis. Her expertise and clear explanations guided attendees through the installation process, ensuring a solid understanding of the tool's setup requirements. The session continued with an exploration of the tool's basic operations, enabling participants to simulate optical sensing scenarios and analyze systems for disease diagnosis. Deepa N's practical examples and demonstrations made the session informative and engaging.

A notable aspect was the showcase of optical sensing's diverse applications in disease diagnosis. Attendees were introduced to research and advancements in the field, highlighting the crucial role of optical sensing in accurate and efficient diagnostics. Case studies demonstrated how optical sensing can revolutionize disease detection, monitoring, and treatment strategies.

The session provided practical knowledge of using the tool for optical sensing simulations and deepened understanding of its potential in advancing medical diagnostics. It was facilitated by expert presenters, provided hands-on experience and equipped attendees with practical skills to simulate and analyze optical sensor behavior. The workshop culminated with an engaging discourse on "Optical Biosensors and their Applications in Disease Diagnosis," expertly presented by the esteemed speakers.

Conclusion:

The online workshop was coordinated by passionate student leaders, hence exemplified excellence in knowledge dissemination and collaboration. By providing valuable insights into the latest developments and applications of optical sensing technology in the biomedical domain, the workshop played a pivotal role in empowering participants with the tools to drive innovation and transform healthcare. The amalgamation of expert speakers, comprehensive sessions, and unparalleled networking opportunities elevated this workshop to a premier event in the field. As we look towards the future, it is evident that the knowledge and connections established during this workshop will continue to shape the landscape of optical sensing technology in the biomedical sector, forging a path towards a brighter and healthier tomorrow.

Acknowledgments:

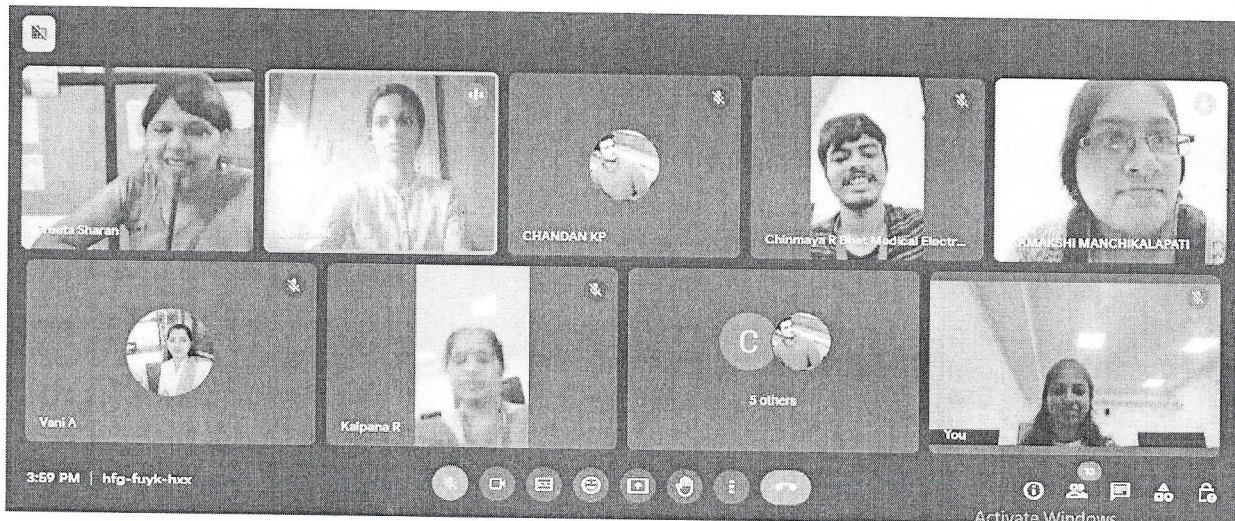
We would like to express our sincere gratitude to Dr. Preetha Sharan and Deepa N for their invaluable contributions. Their expertise and willingness to share their knowledge and time have made this workshop an extraordinary learning experience for all participants. We would also like to extend our heartfelt thanks to the Head of the Department (HOD) and the Principal of our college for their support and encouragement in organizing this workshop. We are grateful to the IEEE Photonics Society for their collaboration and support in hosting this workshop.

Furthermore, we would like to express our appreciation to the faculty coordinator who played a pivotal role in coordinating the workshop. Their efforts in curating the content and ensuring the smooth execution of the sessions are highly commendable.

Special recognition goes to the student coordinators, Ruchira, Chinmaya, and Shaista, for their exceptional coordination and organization of the workshop. Their commitment, enthusiasm, and attention to detail have contributed to the success of this event.

Lastly, we would like to extend our gratitude to all the participants for their active participation and cooperation throughout the workshop. Their engagement and insightful contributions have enriched the learning experience for everyone involved.

Screenshot taken on the day of workshop:

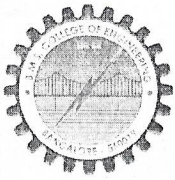




Timestamp	Full Name	College	Email ID	Contact Number	Payment Screenshot	IEEE Member	If yes, IEEE Membership Number
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5-16-2023 8:57:31	Sahana S	BMSCE	sahanas.m20@bmsce.ac.in	9148736242	https://drive.google.com/open?id=1QLZtoUVPHWfMwSpFrdnQ30lPYWqKLV	Yes	
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5-16-2013	Dr.Vani	BMS					
5-16-2023	Dr. Vishalakshi	BMS					
5-16-2023	Dr.R.Kalpna	BMS					

Handwritten signature

Dr. JOSHI MANISHAS
 Professor & Head
 Dept. of Medical Electronics Engineering,
 B.M.S. College of Engineering,
 Bengaluru - 560 019, INDIA



B.M.S COLLEGE OF ENGINEERING
BANGALORE



DEPARTMENT OF MEDICAL ELECTRONICS ENGINEERING

DEPARTMENT OF MEDICAL ELECTRONICS ENGINEERING
IN COLLABORATION WITH
BMSCE IEEE STUDENT BRANCH

A HANDS-ON WORKSHOP ON fMRI IMAGE ANALYSIS

DATE - 9TH SEPTEMBER 2022

SESSION 1

TIMING

10.30am – 1pm

SESSION 2

TIMINGS

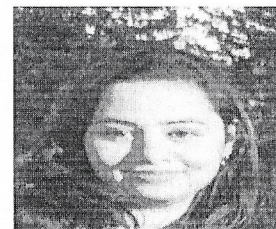
2pm - 4.30pm

VENUE – CR 602 , 6TH FLOOR, PLATINUM LIBRARY BLOCK

Convenor: Dr. Manisha Joshi
HOD, DEPARTMENT OF MEDICAL ELECTRONICS ENGINEERING

Faculty Coordinator: Dr. Vijayalakshmi

Student Coordinator: Nisha Nambidosan, PG 2nd Semester
Supritha S, PG 2nd Semester



Mrs. Usha
Visiting professor, EC Dept
UVCE, Bangalore



B.M.S. College of Engineering, Bangalore - 560019
Department of Medical Electronics Engineering

Event: 1 Day Hands on WORKSHOP

Date: 09 Sept-2022

Time: 10-00AM TO 4.30PM

Topic: A HANDS-ON WORKSHOP ON fMRI IMAGE ANALYSIS

**By: USHA, Visiting Professor,
EC Dept. UVCE, Bengaluru.**

UG - VISEM

Sl. No.	Participants Name	Department/ USN	Category (GM/SC/ST/ OBC)	Mobile	Email-ID	Signature
1	ISHANI ARWANI	1BM19ML018	GM	9204401616	ishani.ml19@bmse.ac.in	ishani 9/9/22
2	Yashaswini K Patangi	1BM19ML059	OBC	9980417656	yashaswini.kp.ml19@bmse.ac.in	Yash - 9/9/22
3	Vaishnavi Rangaraj	1BM19ML056	GM	8162660692	vaishnavi.ml19@bmse.ac.in	Vaish -
4	Uma Hani Tabad	1BM19ML055	GM	9342223568	umehani.ml19@bmse.ac.in	Ujj
5	SHRIJA PATIL	1BM19ML042	GM	8197056970	shriapatil.ml19@bmse.ac.in	Shrija
6	Dr vijayalakshmi	James	GM	8050872793	kv.mlebmse-ac.in	
7						
8						
9						
10						
11						

BMS COLLEGE OF ENGINEERING, BANGALORE – 560019
DEPARTMENT OF MEDICAL ELECTRONICS ENGINEERING

03 Days Hands – On Training Programme on Computer Software for Non-Teaching Staff of BMSCE
7th November 2022 – 9th November 2022

Venue: ML 603 – Computational Lab – 1 & 2, 6th Floor, New Academic Block,
Time: 10.00AM-1.00PM

SL.No	Name	Department	Day- 1 07/11/2022	Day- 2 08/11/2022	Day-3 09/11/2022
1	Thirthakumara G S	Civil Engineering			
2	Shwetha A N	Academic section			
3	Krishnamurthy H K	Establishment Section			
4	Nayana N	Establishment Section	Nayge	Nayge	Nayge
5	PreethiN	Establishment section			Pandrea
6	Pandurang kulkarni	Med.Elms.Engg.	Pandrea	Pandrea	Pandrea
7	Rekha A V	Establishment section			
8	Padma M.	Establishment section	Pandrea	Pandrea	Pandrea
9	Bhavya B L	Establishment			
10	Saraswathi S R	Establishment Section			
11	Saraswathi S R	Establishment Section			
12	Saraswathi S R	Establishment Section			
13	Vinayaka R	EIE			
14	Suresha H L	EIE			
15	Chandrashekhara G N	Principal office			
16	Jayashree Kumari	Department of Mathematics			
17	Anand T A	Physics			
18	B Boraiah	Physics			

19	Vinayaka K B	Electronics and telecommunication engineering			
20	yashaswini	ECE			
21	Renuka S Rampur	ECE			
22	Prakash R	ECE			
23	Suresh M	ECE			
24	Saraswathi B V	Iqac			
25	Geetha D	ECE			
26	B.L.Ravindra kumar	ECE			
27	Manju R	ECE ECE			
28	Malatesh N	Computer science and engg			
29	A. srinivas	Electronics and communication engg.			
30	R S Anandathirtha	Medical electronics engg			
31	Vanitha G P	Medical electronics engg			
32	Preethu Devaiah	ECE			
33	G L Venkatesha	Medical electronics			
34	Radha B	ECE			
35	Mangala R S	MBA			
36	K.Sujatha	MBA			
37	Rekha.N	MBA			
38	M.Guneshwara	Medical electronics engg			
39	Anilkumar	Aerospace Engineering			
40	G Srinivas	IQAC			

41. DAYANETHRA.R Stores Section

08/11/22

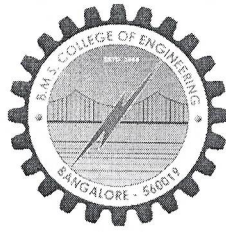
08/11/22

09/11/22

Faculty Co-ordinator: Dr.B.N.Beena Ullala Mata

Dr. JOSHI MANISH
HOD, Med. Ems. Engg
Professor & Head
Dept. of Medical Electronics Engineering
B.M.S. College of Engineering,
Bengaluru - 560 019, INDIA

BMS COLLEGE OF ENGINEERING



DEPARTMENT OF MEDICAL ELECTRONICS ENGINEERING

A HANDS-ON WORKSHOP ON fMRI IMAGE ANALYSIS

DATE: 9th September

DURATION: 10:30 AM – 4:30PM

GUEST: Mrs Usha, Visiting Professor in UVCE, Bangalore

VENUE: ML 603 Computational Lab, 6th Floor, Platinum Jubilee Block

ARRANGED BY: Dr.K.Vijayalakshmi (Professor)

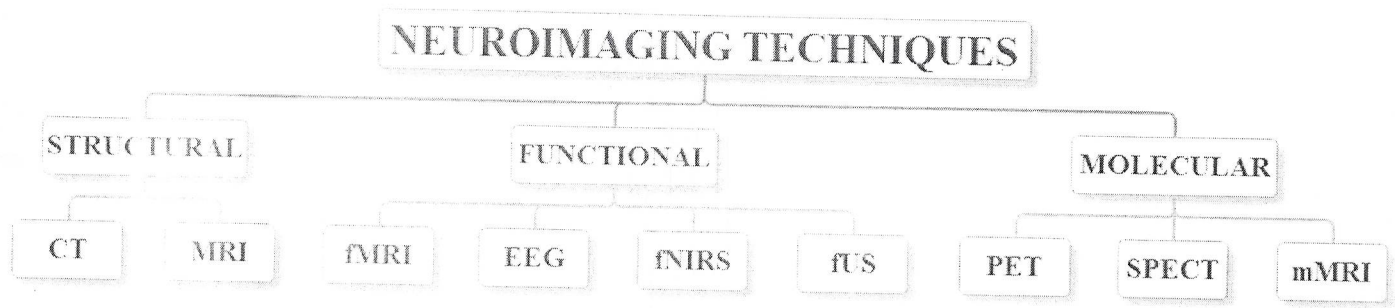
EVENT SUMMARY:

As a part of the Neuroimaging and brain mapping course, an interaction session with Mrs. Usha Visiting professor, EC Dept UVCE, Bangalore, UG and PG Students was held on 9th September 2022 from 10:30 AM to 4:30 PM. (The list of participants is enclosed as an annexure).

The session was intended to gain insight on fMRI image analysis and share their experiences with all of us. The points discussed are as below:

- ❖ Neuroimaging basics
- ❖ Resting state of fMRI
- ❖ Pre-processing
- ❖ Analysis

NEUROIMAGING TECHNIQUES



fMRI

Blood Oxygen Level Dependent (BOLD) functional magnetic resonance imaging (fMRI) depicts changes in deoxyhemoglobin concentration consequent to task-induced or spontaneous modulation of neural metabolism. Functional Magnetic Resonance Imaging (fMRI) is a class of imaging methods developed in order to demonstrate regional, time-varying changes in brain metabolism. These metabolic changes can be consequent to task-induced cognitive state changes or the result of unregulated processes in the resting brain.

Basics of fMRI

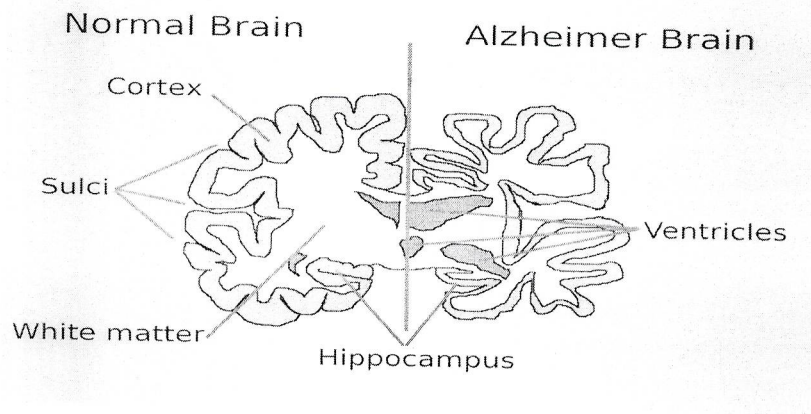
fMRI is of course based on MRI, which in turn uses Nuclear Magnetic Resonance coupled with gradients in magnetic field to create images that can incorporate many different types of contrast such as T1 weighting, T2 weighting, susceptibility, flow, etc.

The most common MRI sequences are T1-weighted and T2-weighted scans. T1-weighted images are produced by using short TE and TR times. The contrast and brightness of the image are predominately determined by T1 properties of tissue. Conversely, T2-weighted images are produced by using longer TE and TR times.

Types of fMRI

- ❖ Task based
- ❖ Resting-state-based

Two parameters were considered for this condition i.e the subject with normal brain conditions and one more subject with Alzheimer's disease where Alzheimer's disease is a brain disorder that slowly destroys memory and thinking skills and, eventually, the ability to carry out the simplest tasks.



PRE-PROCESSING STEPS

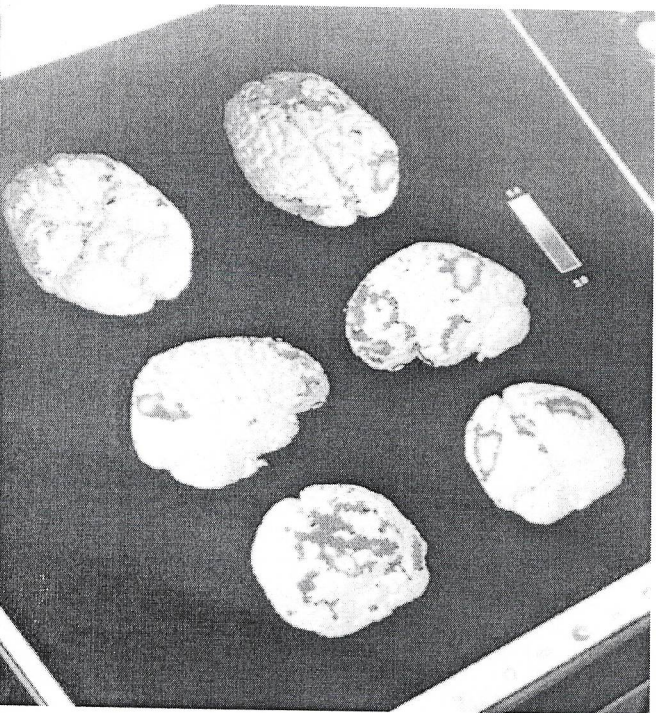
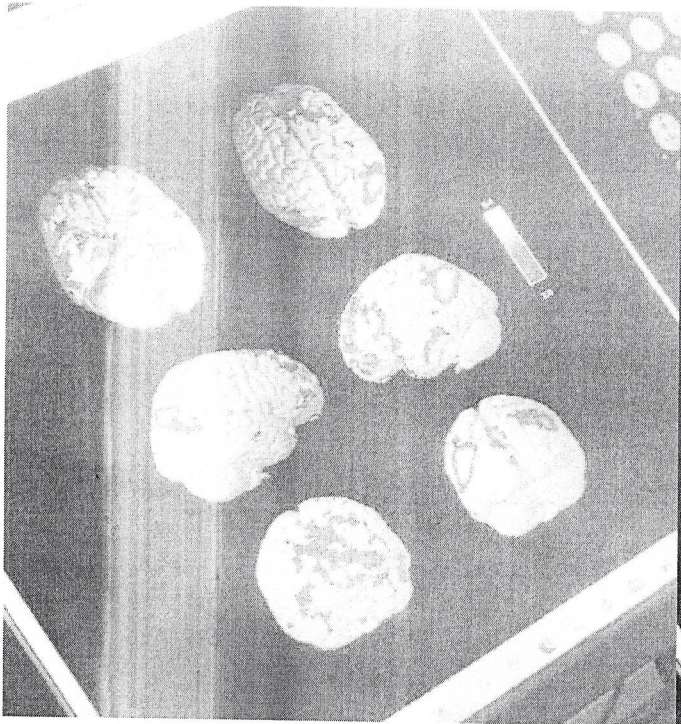
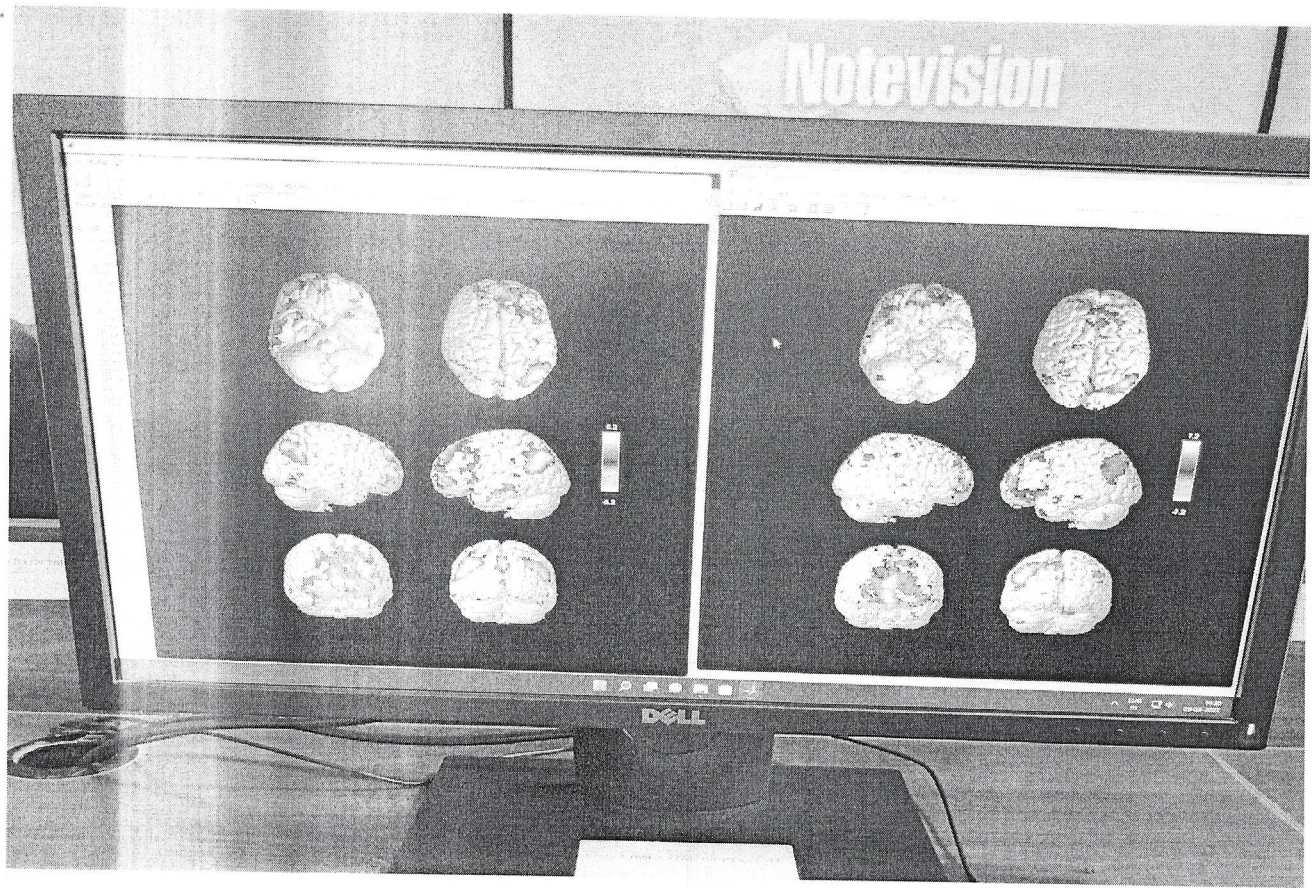
- ❖ Set the origin
- ❖ Image quality and orientation
- ❖ Removal of data points
- ❖ Time slice correction
- ❖ Realignment
- ❖ Co-register with structural images
- ❖ Normalize
- ❖ Smoothing

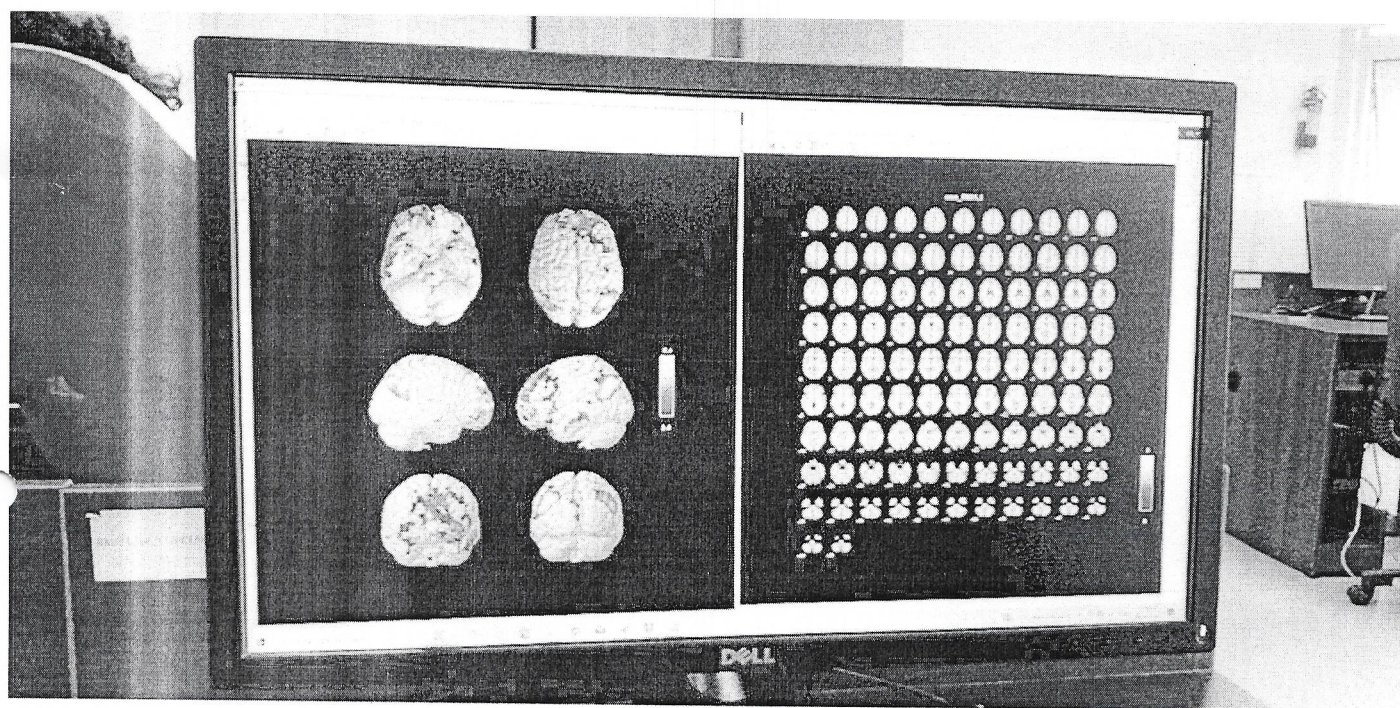
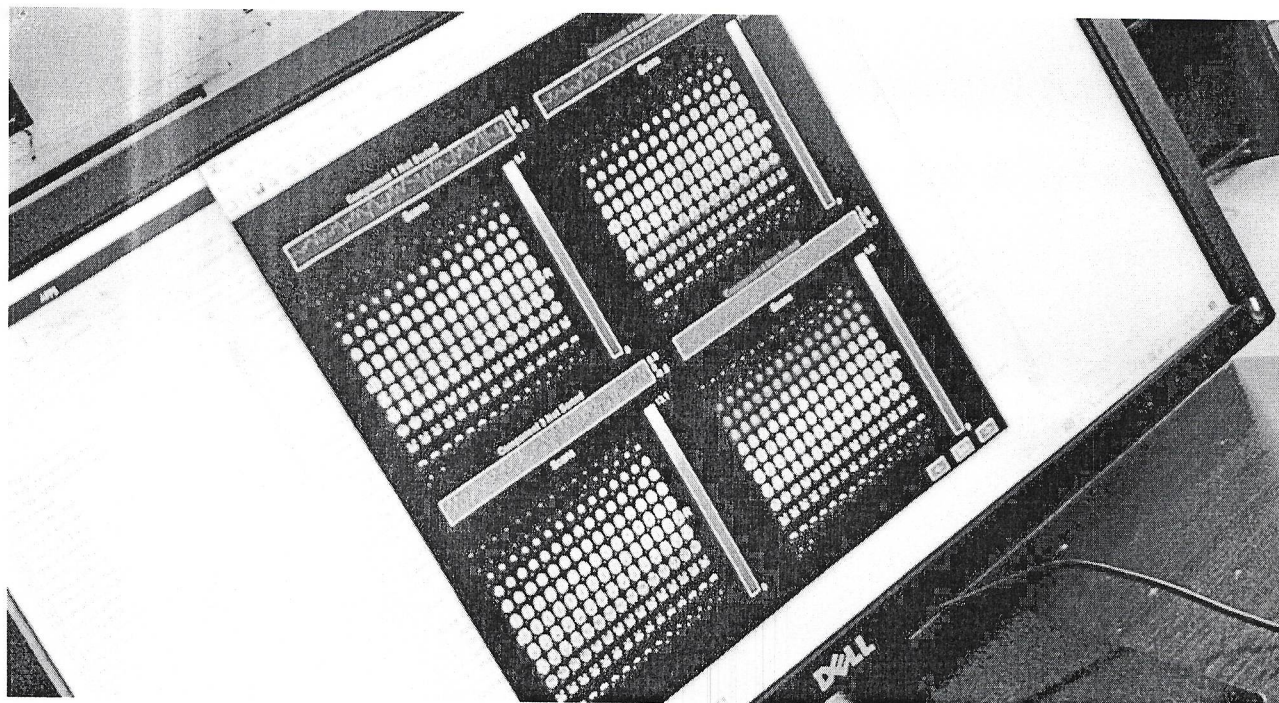
ANALYSIS

Types of analysis

- ❖ Group analysis
- ❖ Individual analysis
- ❖ Seed based analysis
- ❖ Independent component analysis
- ❖ Resting state analysis

OUTPUTS





HIGHLIGHTS OF THE SESSION



Annexure:

Host: Dr.K.Vijayalakshmi (Professor)

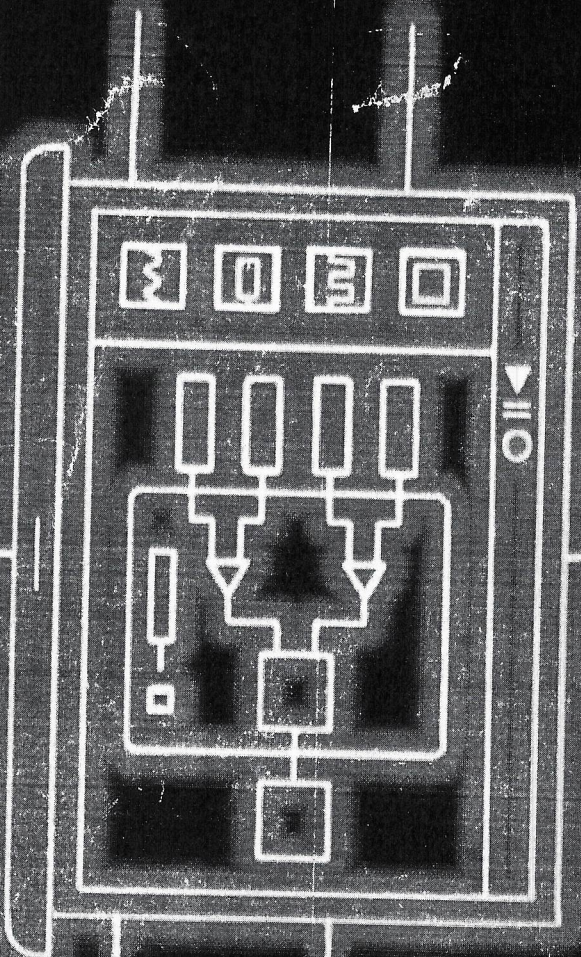
Sl.no	List of Participants
1	Aakanksha Mahesh Veterkar
2	Aqila Nazifa
3	Likhitha D Atada
4	Nisha N
5	Preksha A Das
6	Supritha S

AND BMSCE IEEE SB IN COLLABORATION WITH VI SOLUTIONS PRESENTS

A 3-DAY HANDS ON TRAINING PROGRAMME ON

A GRAPHICAL SYSTEM DESIGN TOOL

(IN LABVIEW AND HW PLATFORMS)



BY SATYANARAYAN R ACHAR

APPLICATION ENGINEER AT VI SOLUTIONS

CHIEF COORDINATOR: DR. JOSHI MANISHA S
PROFESSOR & HOD, ML DEPARTMENT.

FACULTY CO-ORDINATOR: DR. JISHA P
ASSISTANT PROFESSOR, ML DEPARTMENT.

DATE: 8TH - 10TH JUNE 2022 TIME: 9AM TO 5PM

REGISTRATION: FREE

EXCLUSIVELY FOR MEDICAL ELECTRONICS
ENGINEERING STUDENTS, BMSCE

**Report of Hands-on training Workshop on NI LabVIEW & Hardware Platform
08th to 10th JUNE, 2022, at BMS College of Engineering, Bengaluru.**

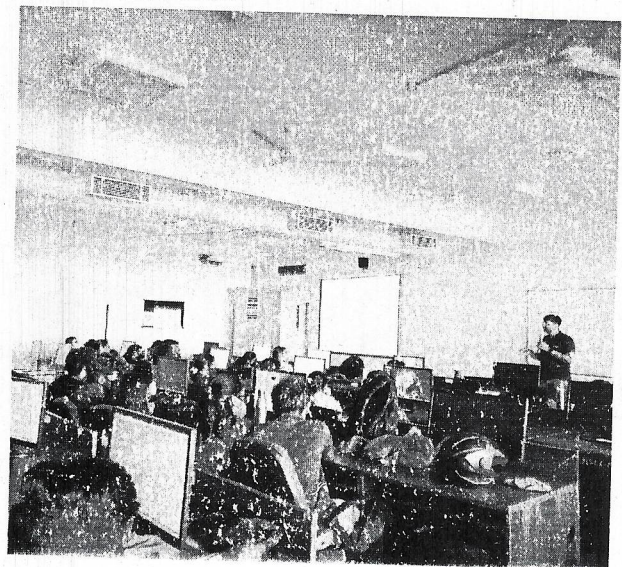
DAY 1

Date: 8th June 2022

The Department of Medical Electronics and BMSCE IEEE SB in collaboration with VI Solutions conducted a 3-day hands on training programme. The programme focussed on educating the attendees on Graphical System Design on NI LabVIEW and HW Platforms. It was conducted over a course of 3 days; on 8th June 2022, 9th June 2022 and 10th June 2022 from 9 AM - 5 PM. The speaker, Mr. Satyanarayan R Achar, Application Engineer at VI solutions, on the first day acquainted the attendees on the Basics of Engineering solutions using Graphical System Design and introduced the LabVIEW Environment. The session was followed by Hands on LabVIEW by demonstration of certain programming concepts such as Structures and Loops. The attendees found the session to be insightful and were quite eager to explore LabVIEW and Graphical System Design.



MORNING SESSION



AFTERNOON SESSION

DAY 3

Date: 10th June 2022

The speaker, Mr. Satyanarayan Achar, began the 3rd session introducing the attendees to the concepts of NI DAQmx and DAQ Assistant. The attendees were also briefed about the difference between port and line with respect to NI DAQmx.

Here are few sample programs that were taught during the session:

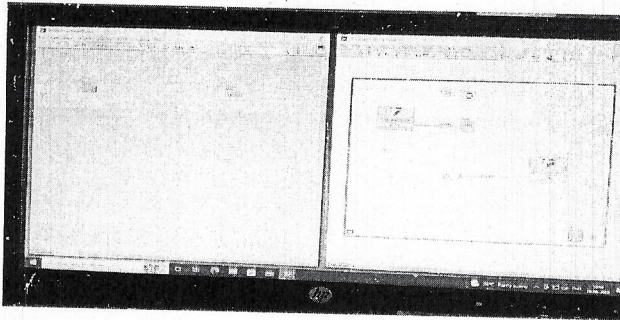
1. Blinking LED
2. IR Based Visitors Counter
3. Waveform Output

Post lunch, the students were introduced to myRIO, where the instructor helped the students understand the in and out thoroughly by splitting the students in groups for better discussion based understanding. The attendees were given a demo of NI myRIO for Real time Data Acquisition.

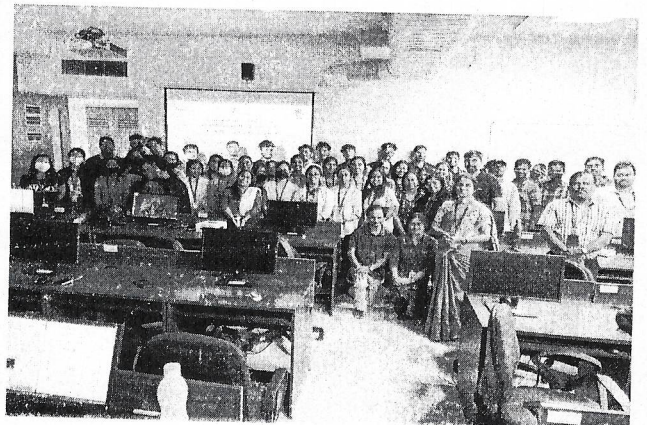
The programme saw a total of 50 participants which consisted of IEEE members and non-IEEE members and the Professors from the Department.

The session was ended by a Vote of Thanks given by IEEE SB committee members. The Head of the Department of Medical Electronics Engineering addressed the students about this workshop and took their valuable feedback, which was followed by a Q&A session.

The students thanked the department and the instructor for their relentless efforts.



HANDS ON EXPERIENCE WITH NI myDAQ



POST Q&A SESSION

Date: 10-06-2022

To whomsoever it may concern

LabVIEW & Data Acquisition System Training Certificate

This is to confirm that the Hands-on Training on NI LabVIEW, NI myDAQ & NI myRIO has been successfully completed on **10-06-2022** for duration of **3 days** by **Mr. Satyanarayan R** at **Department of Medical Electronics Engg, BMS College of Engineering** located at **Bangalore**

Yours sincerely,

Acknowledged By,

For
VI Solutions

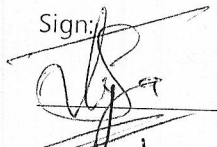
Name of the Trainer:

SATYANARAYAN. R

Designation:

Sr. Application Engineer

Sign:


10/6/22

For BMSCE, Dept. of Medical
Electronics Engg.

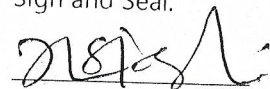
Name

Dr. JOSHI MANISHA S

Designation:

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Sign and Seal.

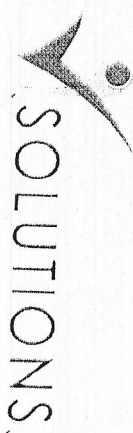
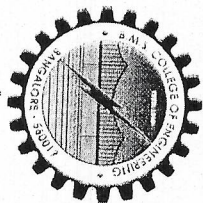


10/6/2022

Dr. JOSHI MANISHA S

Professor & Head

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B.M.S. College of Engineering,
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PARTICIPATION CERTIFICATE

Hands-on training

On

NI LabVIEW & Hardware Platform

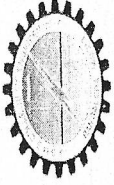
08th to 10th JUNE, 2022, at BMS College of Engineering, Bengaluru

This is to certify that Ms. R PRATHIKSHA of Medical Electronics Engineering department has participated in the above training program conducted by VI Solutions, Bangalore organized by the Department of Medical Electronics Engineering, B M S College of Engineering, Bengaluru in collaboration with IEEE students branch BMSCE.

Dr. Joshi Manisha S

Prof & Head Dept. of Medical Electronics Engineering
B.M.S College of Engineering, Bangalore

Mr. Sunil Kumar V
Managing Director
VI Solutions, Bangalore



B.M.S. College of Engineering, Bangalore - 560019
Department of Medical Electronics

Event: 3 Day Hands on training Programme **Date: 08 to 10 June-2022** **Time: 09-00AM TO 5.00PM**

Topic: "A Graphical System Design Tool"
(NI Lab view and HW Platforms)

Resource Person: SATHYANARAYAN RACHAR
Application Engineer, VI Solutions

DAY 1
Bangalore

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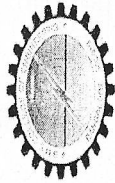
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B.M.S. College of Engineering, Bangalore – 560019
Department of Medical Electronics Engineering

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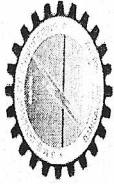
**Topic: "A Graphical System Design Tool
 (NI Lab view and HW Platforms)**

Resource Person: SATHYANARAYAN RACHAR
Application Engineer, VI Solutions

Bangalore

DAY 2 (09-06-2022)

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B.M.S. College of Engineering, Bangalore - 560019
Department of Medical Electronics Engineering

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 (NI Lab view and HW Platforms)"**

Resource Person: SATHYANARAYAN R ACHAR
Application Engineer, VI Solutions, Bangalore

DAY 3 (10-06-2022)

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DAY 3

Date: 10th June 2022

The speaker, Mr. Satyanarayan Achar, began the 3rd session introducing the attendees to the concepts of NI DAQmx and DAQ Assistant. The attendees were also briefed about the difference between port and line with respect to NI DAQmx.

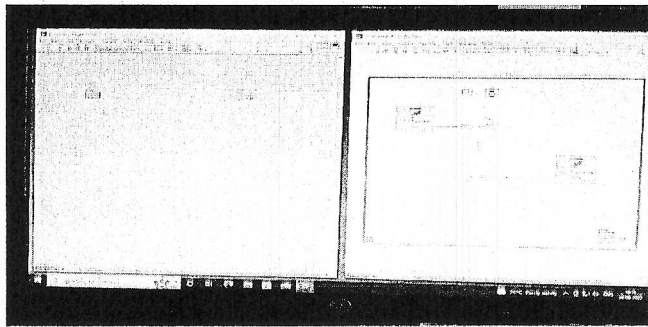
Here are a few sample programs that were taught during the session:

1. Blinking LED
2. IR Based Visitors Counter
3. Waveform Output

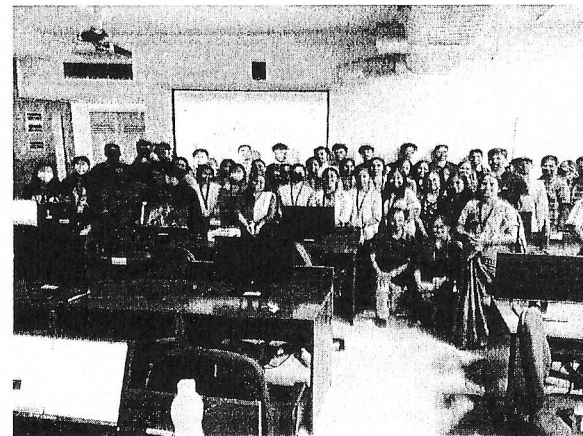
Post lunch, the students were introduced to myRIO, where the instructor helped the students understand the in and out thoroughly by splitting the students into groups for better discussion-based understanding. The attendees were given a demo of NI myRIO for Real-time Acquisition.

The programme saw a total of 50 participants which consisted of IEEE members and non-members and the Professors from the Department.

The session was ended by a Vote of Thanks given by IEEE SB committee members. The Head of the Department of Medical Electronics Engineering addressed the students about the workshop and took their valuable feedback, which was followed by a Q&A session. The students thanked the department and the instructor for their relentless efforts.



HANDS ON EXPERIENCE WITH NI myRIO



POST Q&A SESSION

FEEDBACK : Hands-on training On NI LabVIEW & Hardware Platform08th to 10th JUNE, 2022, at Dept. of ML, BMS College of Engineering, Bengaluru

Name	USN	Phone Number	Year of Study	How useful did you find the event?	How well was the event organised?	Virtual Instrumentation concept explanation	Time Maintenance for each session	How do you feel about LabVIEW Program	Confident on LabVIEW Program	Doubts cleared in each session	Audio & Visualization Effects	Comments about Training	Any other feedback/suggestions?	IEEE Member
Samskruthi R S	1BM19ML039	8431562348	3rd	5	5	Excellent	Excellent	Excellent	Good	Excellent	Excellent	It was a different experience, we got to learn new software which will further help us in the project work	No	No
R Prathiksha	1BM19ML034	7406733144	3rd	5	4	Excellent	Good	Excellent	Excellent	Excellent	Good	It was a different hands on experience in the flat form of graphical programming and virtual concepts. The study time was managed with concepts explanations and working experience simultaneously. It helped in a better understanding on concepts that could be created easily.	Little more detailed working on all the concepts would have helped in better development of skills on the NI LABVIEW PLATFORM.	No
Prathiksha Harish	1BM20MD035	8618133529	2nd	5	5	Excellent	Good	Excellent	Excellent	Excellent	Excellent	It was very informative.	No feedback. It went smooth.	Yes
Likitha S	1BM20MD026	9110638574	2nd	3	3	Good	Average	Good	Average	Excellent	Good	Excellent interaction with the students	No	No
Vani S Ramachandran	1BM20MD055	9902409303	2nd	4	3	Excellent	Excellent	Excellent	Good	Excellent	Average	Excellent, very hands-on and useful	None	Yes
Mohammed Ibaad	1BM20MD029	9036923798	2nd	5	5	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent interaction with the students	None it was phenomenal	No
Sakshi Marodia	1bm20md043	8340308732	2nd	5	4	Excellent	Excellent	Excellent	Good	Excellent	Excellent	It was indeed a wonderful learning experience.	No	Yes
Apoorva M S	1BM20MD005	9591891177	2nd	5	3	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	None	None	Yes
DARSHAN A S	1BM20MD011	6361598641	2nd	5	5	Excellent	Good	Excellent	Excellent	Excellent	Excellent	It's very helpful for us to idea about making projects and working of softwares	No	Yes
PRATHITA GOWRI A K Rao	1BM20MD036	7406209252	2nd	5	5	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good at explaining the concept.	-	Yes
Ashwathi S	1BM20MD006	9148528488	2nd	5	4	Excellent	Good	Good	Good	Good	Good	Training was very good, I learnt a lot	No	Yes
Praival Prakash	1BM20MD033	9916941383	2nd	5	5	Excellent	Good	Excellent	Good	Good	Excellent	Good	No other suggestions	Yes
Kritik Raj	1BM20MD023	919514E+11	2nd	5	5	Good	Good	Excellent	Excellent	Good	Excellent	It was well organized.	None.	No
Narasimna Dg	1BM20MD031	917484E+11	2nd	4	4	Excellent	Good	Good	Excellent	Excellent	Excellent	Training sir was too good	Good, good, very very good	No
Rohith Raj	1BM20MD040	8277158386	2nd	5	5	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Learnt about LabVIEW and explored the same	More workshops	Yes
Sahana S	1BM20MD042	914C736242	2nd	5	5	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Very informative	-	Yes
Shashaank A Balaguragi	1BM20MD045	8660182989	2nd	5	5	Excellent	Good	Good	Good	Excellent	Average	It was a good experience but more hand on equipments time was needed	No	Yes
Ananya Namratha	1BM20MD004	7019140943	2nd	5	5	Excellent	Good	Excellent	Good	Excellent	Good	Informative and interactive	None	No
Umme Hani Gadiwar	1BM20MD051	8088379244	2nd	4	5	Good	Excellent	Excellent	Good	Good	Good	Nicely conducted	Install this software on all the desktops of our lab	Yes
Rahul	1BM20MD038	9380934744	2nd	5	5	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Brilliant	Brilliant	No
Farhan Ahmed	1BM20MD016	8904889336	2nd	5	5	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Learnt about Visual Lab view and national instruments	Good workshop	No
Nauman Ahmed	1BM20MD032	9742655577	2nd	5	4	Excellent	Good	Good	Good	Good	Excellent	It was very understandable and simple to comprehend	More time is needed to properly explain the latter programs	No
Madhu M	1BM20MD027	6362482599	2nd	4	5	Good	Good	Excellent	Good	Good	Good			No
Thanusha K	1BM19ML054	8861344655	3rd	4	5	Good	Excellent	Good	Good	Good	Excellent	It was an informative workshop, an hands on section and gained good knowledge on LabVIEW ,my daq ,myRio	Nil	No

Professional Society Activities (2018 - 2022)

SL. No	Name of the Event	Duration	Resource Person	Place	No of Participants
1	BIOMED TECHNOPHILIA 1.0	28th July 2022, 9:30AM to 4:30PM	Chief Guest: Dr.Sripad Krishna Devalla Judges: Sumathi Mishra, Shubham Anand	Department of Medical Electronics BMSCE	19
2	VLSI, VERILOG & IMAGE PROCESSING	6th-18th June 2022, 5pm to 8pm	Dr. A.N.Nagashree, Dr. V Champa, Dr. Venkata Madhava Ram T, Dr. M.S.Suma, Dr. Seemantini K, Dr. Pawan Dubey, Dr. Nidhi Saxena	Department of Medical Electronics BMSCE	UG & PG Students from Electronics Cluster
3	Protecting against pandemic - Holistic Approach towards Health	8th-13th June 2020, 11AM to 12PM	Dr. Vanajakshama, Dr. Raghu K, Dr. Senthil Kumar Raja, Dr. Gangadhar Eluru, Shobha S, Mina Sham	Department of Medical Electronics BMSCE	50
4	Photonic Chip Design for Biosensor	15th May 2022, 10:30AM to 5PM	Dr. Preeti Sharan, Suchandana Mishra	Department of Medical Electronics BMSCE	28
5	A Graphical System Design Tool(NI Labview and HW Platforms)	8th-10th June 2022, 9AM to 5PM	Satyannarayan R Achar	Department of Medical Electronics BMSCE	58
6	Neural Networks Algorithm for Bio-Medical Applications	18th-19th March 2019	Supreeth Y.S	Department of Medical Electronics BMSCE	41
7	Industrial Visit to Centre for Nano and Material Science(CNMS)	22nd March 2022	Dr. Shajesh, Prof.R.Geetha Balakrishna, Dr. Akshaya K Samal	Jain University, Bangalore	21

27/8/2022