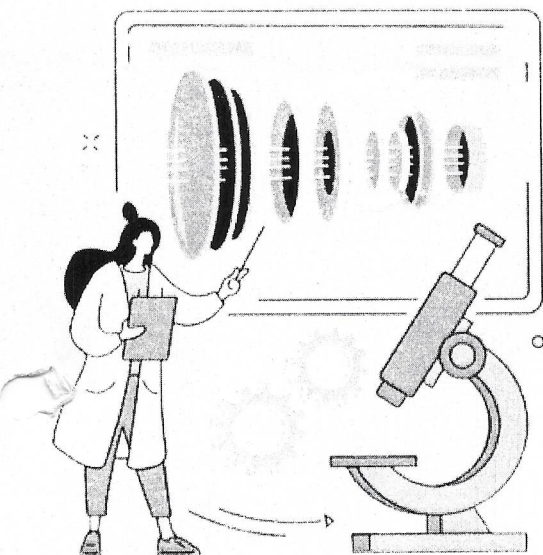


DEPARTMENT OF MEDICAL ELECTRONICS ENGINEERING, BMSCE IN
COLLABORATION WITH IEEE PHOTONICS SOCIETY, BANGALORE SECTION AND
ASSOCIATION OF MEDICAL ELECTRONICS
PRESENTS

A HANDS-ON WORKSHOP ON PHOTONIC CHIP DESIGN FOR BIOSENSOR

Photonics is the latest, upcoming science and application of light generation, detection, and manipulation through emission, transmission, modulation, signal processing, switching, amplification, and sensing.

In the hands-on session, Photonic Integrated circuit and Photonic biosensors combine the sensitivity and speed of photonic sensing with bio recognition elements to enable label-free rapid testing in a compact chip. Since, the underlying photonic technology can be functionalized with a wide range of bio recognition agents, photonic biosensors can detect an unrivalled range of biological agents ranging from DNA, proteins and cells to environmental pollutants and food contaminants. The workshop is focused on biosensors used for medical diagnostic instruments and biomedical research.



SPEAKERS



Dr. Preeta Sharan



Suchandana Mishra

MAY 15, 2022 | 10:30 AM - 5 PM

IEEE MEMBERS: ₹350 | NON IEEE MEMBERS: ₹500

Payments to be made at shreyapattankude98@eksbi (+91 8431789280)



Scan to Pay

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Report of Biosensors workshop:

It was photonics based biosensor workshop. We learnt to use the Rsoft tool and how it could be effectively used for research. Workshop was arranged by Dr Kalpana, who was also the faculty coordinator. Aakanksha Vetekar and Shreya Pattankude were the student coordinators. Dr Preetha Sharan and her PhD scholar Suchandana Mishra were the key speakers. There were around 27 participants. There was active participation by the PG first year students during the workshop.

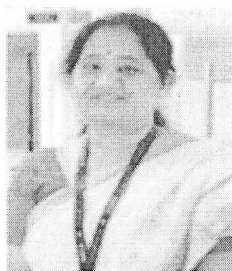
About workshop:

Photonics is the latest, upcoming science and application of light generation, detection, and manipulation through emission, transmission, modulation, signal processing, switching, amplification, and sensing. In the hands-on session, Photonic Integrated circuit and Photonic biosensors combine the sensitivity and speed of photonic sensing with bio recognition elements to enable label-free rapid testing in a compact chip. In this workshop, expected outcome was obtained by the participants which is to learn and get insight into photonics and have hands on experience with Rsoft tool. We learnt about implementation of temperature and pressure sensor and its use in biomedical applications for research purposes.

Date and time of workshop:

This workshop was conducted on 15th May from 10am to 5pm

Our Speakers:



Dr Kalpana R



Dr Preetha Sharan



Suchandana Mishra

(Faculty -Coordinator)

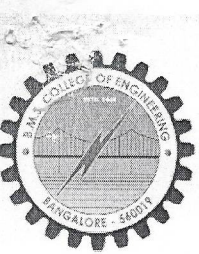
Screenshot taken on the day of workshop:



Outcome:

With the help of photonics we can diagnose various Medical Applications. Since, the underlying photonic technology can be functionalized with a wide range of bio recognition agents, photonic biosensors can detect an unrivalled range of biological agents ranging from DNA, proteins and cells to environmental pollutants and food contaminants..

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



B.M.S COLLEGE OF ENGINEERING

DEPARTMENT OF MEDICAL ELECTRONICS

brings 2 DAYS WORKSHOP PROGRAM ON

"GRAPHICAL SYSTEM DESIGN FOR BIOMEDICAL APPLICATIONS"



SPEAKER

Nagarajan G

Sr. Application Engineer
VI Solutions, Bangalore

For more
details a
schedule

Kindly go
through
BROCHU

(5 JUNE & 6 JUNE for 8th Sem)

(12 JUNE & 13 June for 4th, 6th Sem & PG)

Registration Fees : Rs. 400

Last Date to Register : 02 June, 2021

Link to Register : <http://bit.ly/LabviewforBiomedical>



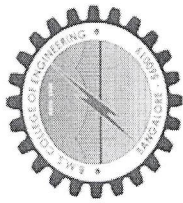
Coordinator

Dr. Kalpana R

Associate Professor
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For Queries Contact

Dr. R. Kalpana - 9886201
Bhavani S - 8550047369
Swarna Kedia - 75748179



Graphical System Design for Biomedical Applications

Venue: BMSCE, Bangalore

Date	Session-01	15 min	Session-02	45 min	Session-03	15 min	Session-04
Day-1	Engineering solutions using Graphical Systems Design WHY? WHAT? HOW? & LabVIEW for Bio-Medical Engineers	Tea	Hands on LabVIEW Programming concepts – Programming Loops & structures	Lunch	Introduction to Biomedical signal Processing	Tea	Hands on Programming on Bio-Medical Signal Processing (File Signals)- ECG Feature Extraction
Day-2	Hands on Programming on Bio-Medical Signal Processing – Blood Pressure Analyzer		Introduction to NI LabVIEW Image processing for Bio-Medical		Hands on Programming on Bio- Medical Image Processing (File Images)		Hands on demo- NI Biomedical Vernier Sensors

Technical Requirements for online courses

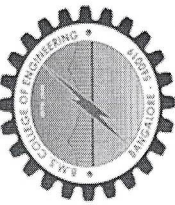
- Computer and Internet Connection
- Operating System: Windows 7 SP1 or Later
- LabVIEW should be installed in system along with the required toolkits and drivers for hardware interface
- Web Browser: Firefox, Chrome, Internet Explorer 11, or Microsoft Edge

Duration

- Instructor-led Virtual: Four Hour Sessions per day (Total 2 days)

Corporate office: # 22, 2nd Floor, Akai Plaza, D Rajagopal Road, Sanjaynagar, Bengaluru 560094.

Phone: 91-80-40948484 www.visolutions.org Email: support@visolutions.org



Audience

- New Users and users preparing to develop applications using LabVIEW

Instructor

- Professional & NI Certified Instructor from VI Solutions.

Training Fee

- Rs 200/- per day per student (Minimum Participants: 30)
- Total Rs. 400 for 2 days - Registered participants can Gpay on 9886201137

Organized by

Dept of Medical electronics,
B. M. S College of Engineering, Bengaluru

Coordinator

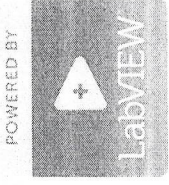
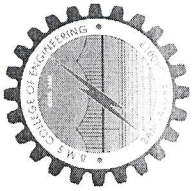


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Resource Person



Nagarajan G
Sr. Application Engineer
VI Solutions, Bangalore
Mobile no. 9791324912




CERTIFICATE OF PARTICIPATION

This is to certify that

ANSHU ANDANI

has participated in two days workshop on "Graphical System Design for Biomedical Applications - Hands On Training" organised by Department of Medical Electronics,
BMS College Of Engineering on 5 - 6th June, 2021



Dr. VIJAYLAKSHMI K
HOD, Dept. Of Medical Electronics
BMSCE



Dr. KALPANA R
WORKSHOP CO-ORDINATOR
Associate Prof., Dept. of Medical Electronics, BMSCE



Mr. NAGARAJAN G
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Total no. of participants - 33

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