B.M.S. College of Engineering
Autonomous College, Affiliated to VTU

DEPT. OF MEDICAL ELECTRONICS ENGINEERING, ASSOCIATION OF MEDICAL ELECTRONICS AND BMSCE IEEE SB PRESENTS

A NATIONAL LEVEL PROJECT COMPETITION

BIOMED TECHNOPHILIA 1.0

28th JULY 2022

CASH PRIZE

1ST PLACE: 5K
2ND PLACE: 3K
3RD PLACE: 2K

REGISTRATION FEE

IEEE MEMBERS: ₹ 100
NON- IEEE MEMBERS: ₹200

CONVENOR
DR. MANISHA JOSHI
HOD, DEPT. OF MEDICAL ELECTRONICS ENG

FACULTY COORDINATOR
DR. VIJAYLAKSHMI
DR. BEENA

YUKTHI: 8431117759
DHYANA: 7019415869
RANJINI: 9902888806

REGISTER NOW!

BIOMED TECHNOPHILIA 1.0

EVENT REPORT

Introduction and Objective:

BioMed Technophilia 1.0 was a national level competition for projects based on concepts relating to biomedical engineering. It was hosted by the Department of Medical Electronic Engineering of BMS College of Engineering, in collaboration with BMSCE IEEE Student Branch and the Association of Medical Electronics.. Teams from across the country presented their ideas relating to physiology, healthcare, biology, health informatics and much more. They used their diverse skills to create solutions to continuing worldwide health issues, help change how patients are treated and lower the cost of care and other amenities.

Brochure:

in Singapore, NHS in the UK, and India to translate deep learning algorithms to simplify clinical diagnosis and management of ophthalmic diseases. He co-invented 'Digital-Staining,' a group of 2D and 3D AI algorithms for medical image recognition that was the of Abyss Processing, a deep-tech startup that spun off from the National University of Singapore. The AI technologies he developed are currently used by several internationally renowned academic research groups and clinical communities. He also serves as a reviewer in several tier 1 biomedical engineering journals.

Judges:

1. Mrs. Sumati Mishra
   Head of Department: Electronics
   Neurome Technologies Pvt. Ltd.

2. Mr. Shubham Anand
   Associate Director- Research
   Synaptic

Rules for the Event:

The participants were each given a total of 15 minutes to present their ideas/prototypes. Out of these, 12 minutes were allotted for the teams to present, and the remaining 3 minutes were allotted to the judges for a question and answer session. All the participants in the team were requested to be present and keep their cameras on at all times.

List of Participants

1. Team Name: Funtastic Five

5. Team Name: Maya Manthra
   Members:
   - Tharani

6. Team Name: Medwingers
   College: Hindusthan College of Engineering and Technology
   City: Coimbatore
   Members:
   - Sobika
   - Bharat
   - Varshini
   - Vishva
   - Dhanish

7. Team Name: Roshni A. Ramesan
   College: BMS College of Engineering
   City: Bengaluru
   Members:
   - Roshni A. Ramesan

8. Team Name: Biotrio
   College: BMS College of Engineering
   City: Bengaluru
   Members:
   - Aditi Prasad
   - Vaishnavi A.
   - Sruthi SS Kumar

9. Team Name: Biomed Blasters
   College: KPR Institute of Engineering and Technology
   City: Coimbatore
   Members:
   - Sriya B.

- Ridhima
- Samvruth

14. Team name: 4 A.M.
    College: BMS College of Engineering
    City: Bengaluru
    Members:
    - Shashank C

15. Team name: Blaze
    College: ACS college of engineering
    City: Bengaluru
    Members:
    - Chandana H
    - Likitha M
    - Sahaj Patil

16. Team name: Smart Trickers
    College: Hindustan College of Engineering
    City: Coimbatore
    Members:
    - Stevegladwin W.
    - Kishore A B

17. Team name: Revolution
    College: BMS College of Engineering
    City: Bengaluru
    Members:
    - Anusha L.
    - Nidhi R. Singh
    - Vaibhavi R
    - Vasudha N.

- Team Name: The Healers
- Topic: Design and Development of Phono Electroencephalogram
- College: BMS College of Engineering
- Members: Shreya S. Makam, Samskruthi R.S., Shria Patil, Monica B.M.

3. Third Place:
- Team Name: Blaze
- Topic: Arduino based Detection of Kyphosis
- College: ACS College of Engineering
- Members: Chandana H., Likitha M., Sahaj Patil

Student Volunteers:

Coordinators:
1. Ranjini Ravi Iyer
   4th Semester
   Department of Information Science and Engineering

2. Mohit Jain
   2nd Semester
   Department of Information Science and Engineering

Volunteers:
1. Apoorva M.S.
   4th Semester
   Department of Medical Electronics Engineering
   USN: 1BM20MD005

2. Ashwathi S.

C-5.3.3-2
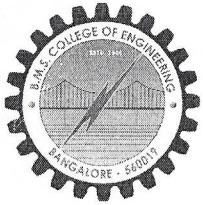
B.M.S COLLEGE OF ENGINEERING

DEPARTMENT OF MEDICAL ELECTRONICS ENGINEERING
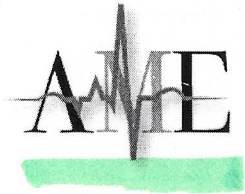
The senior students of the department interning and placed at Origin Health as Clinical Data Analysts

present

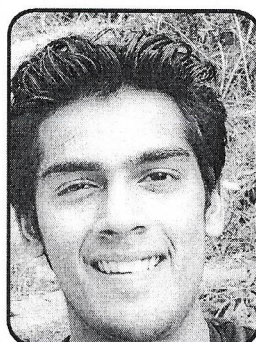# Medical Image and Data Analysis
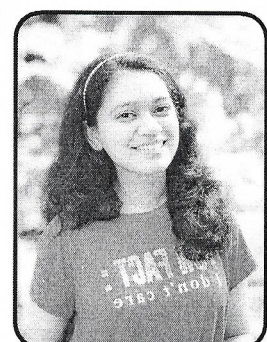# - a complete overview

Session by:
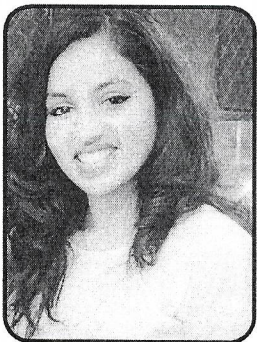
Samhita P.	Gopika D.	Shashi Kiran L.	Roshni Ramesan
(8th semester)	(8th semester)	(8th semester)	(PG student of 2020)

10 June, 2022

9:50 am - 10:45 am

Venue: CR-602

Contact

Vaishnavi Rangaraj

+91 8762660692

10/6/2022

Department of MEDICAL ELECTRONICS Engineering

Invited Talk from senior from Origin Health on Medical Image and Data Analysis a complete overview

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1	Gowthami. k	1BM20MD400	
2	S. Unnathi Annapurna	1BM19ML038	
3	Adwiti K. S.	1BM19ML002	
4	Akash k. A	1BM19ML004	
5	Yashaswini K Patange	1BM19ML059	
6	Um Hani Jawad	1BN19NL055	
7	Vaishnavi Bangera	1BM19ML056	
8	Rakshith K Shetty	1BM19ML036	
9	Arpitha Kumar	1BM19ML011	Arpithakumar
10	Yogeswara S	1BM19ML060	
11	Amogh. B	1BM19ML007	
12	Ashith Hawaldar	1BM19ML009	
13	Bavis SB	1BM19ML014	
14	Amit Sreeram	1BM19ML006	
15	Mohamed Basal	1BM19ML062	
16	Nithin. m.s	1BM19ML032	
17	Shreyas Malam	1BM19ML044	
18	Shria Patel	1BM19ML042	
19	Sadhu Sharma	1BM19ML044	

No.	Name	ID	Signature
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21	Krupa.S	1BM19ML022	_signature_
22	Sumedha	1BM19ML051	_signature_
23	Meghala Musali	1BM19ML025	_signature_
24	VARUN CANAMEDI	1BM19ML057	_signature_
25	RAJAT RANJAN	1BM19ML035	_signature_
26	Syed Sagalin	1BM19ML063	_signature_
27	Hardik Soni	1SM19ML016	_signature_
28	Swathi·H·N	1BM19ML053	_signature_
29	Pushkar·R·Shankar	1BM19ML023	_signature_
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Co-ordinator
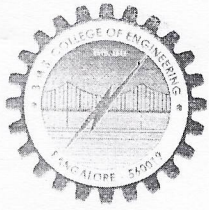
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B.M.S COLLEGE OF ENGINEERING

DEPARTMENT OF MEDICAL ELECTRONICS ENGINEERING

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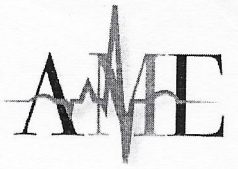
The Association of Medical Electronics
presents

CAMPUS TO CORPORATE TRANSFORMATION

by

Vijaylakshmi R

Senior Software Engineer at BGSW
(Bosch Global Software Technologies)

"It is smart to learn from one's own experience, but it is much wiser to learn from the experiences of others."

22 April, 2022

11:30 am - 12:30 pm
Venue: CR-602

Contact

Vaishnavi Rangaraj

+91 8762660692

About Vijayalakshmi R (photo attached in mail):

- Working currently as Senior software engineer at BGSW (Bosch Global Software Technologies), Koramangala, Healthcare Department.
- Completed schooling from Cambridge Public School, HSR and PUC from Christ Junior College, Hosur Road.
- Graduated with BE (Gold Medalist – CGPA 9.33) from BMSCE-Medical electronics in 2017, got placed in Bosch Healthcare solutions from college placements as Associate Software Engineer and have been working here since then.
- Technologies working on MIoT (Medical Internet of things), AWS Cloud development, Angular, Java, Python, Android and iOS development, AI and ML.
- Using the above technologies working on development of cutting-edge healthcare products like digital pathology solution and non-invasive hemoglobin monitoring solution.
- In 4.5+ yrs of Bosch I have got early promotions, various recognitions and awards like Rockstar, Bronze, Silver awards.
- Participated as representative of Bosch and won in various national level and industry level competitions like Philips innovation award, AIMA Young manager award.
- Been coordinator for BMSCE Phase Shift 2015 (First time Phase Shift was launched), Organizing member of Associate Engagement Committee at Bosch
- Contact: https://www.linkedin.com/in/vijayalakshmi-r-347744123

Abstract:

Topic: Campus to Corporate (C2C) Transformation

Now I am in college...but what next? How do I prepare myself for the industry? What is the industry required skills? How will the transition be from student to employee? Etc Etc

These are some of the questions which run in student's mind when they are aspiring to get placed and are about to start the new journey in the corporate world.

If you are one of those then we have a right stage set up for you.

The session will throw light on the journey from Campus to Corporate. We will have lots of discussions, some pro-tips about the skills required for the industry and what to expect from corporate.

Yes...Yes...Not to miss the open forum to ask questions and get clarifications.

The main aim of this session would be to guide you through campus to corporate by building oneself for the industry.

As they say "Its wise to learn from experience, its wiser to learn from experiences of others"

So here we are with our Alumni addressing the gathering to share her insights and experience.

Looking forward for an interactive session on 4th April 2022.

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

Organizes

EVENT: LECTURE SERIES

REF: BMSCE/UG/MD/2022/ELS-1

Topic: "CAMPUS TO CORPORATE TRANSFORMATION"

By

"Vijayalakshmi.R,"
Senior Software Engineer at BGSW
(Bosch Global Software Technologies)

Venue: CR-602

Date: 22ⁿᵈ April 2022
Time: 11.30AM-12.30PM

Faculty Coordinator

Medical Electronics Engineering

Dr. JOSHI MANISHA S
HOD

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

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

Attendance

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

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Faculty Coordinator

22/4/2022

HOD, MED.ELNS

22/4/2022

4

B.M.S. COLLEGE OF ENGINEERING

(Autonomous Institution Affiliated to VTU, Belgaum)

TEQIP III sponsored two days hands-on workshop

On

"Neural Networks Algorithm for bio-medical applications"

18th & 19th of March, 2019

CERTIFICATE

This is to certify that Mr. / Ms. / Dr. .... .S.A.M.P.L.E............................... of .... has participated and successfully completed two days TEQIP-III Sponsored workshop on **"Neural Networks Algorithm for bio-medical applications"**, from **18th & 19th of March 2019**, organized by Department of Medical Electronics and Electrical & Electronics Engineering, B M S College of Engineering, Bangalore, Karnataka.

Dr.K.Vijayalakshmi
IEEE Branch Counselor
BMSCE

Dr.S.B.Bhanu Prashanth
Prof. & Head Dept. of ML
BMSCE

Dr. P Meena Memon,
Prof.&Head, Dept. of E E E
BMSCE

Dr. Ravishankar B V
Principal,
BMSCE

Report of Workshop on

Neural Networks Algorithm for Biomedical Applications

Held during 18th-19th March, 2019

SPONSORED BY

TEQUIP-III

ORGANIZED BY

Electrical & Electronics Engineering
and
Department of Medical Electronics
in association with
FET, MJP. Rohilkhand University Bareilly U.P.
under Twining

OBJECTIVES

- To highlight the importance of modelling and enhancing the knowledge in solving engineering problems using modelling methods
- To familiarize the participants with the latest modelling tools and techniques
- Use of open-source algorithms for research, teaching and industrial usage pertaining to various areas.

LECTURE SESSIONS

Aiming to provide an intense training on Neural Networks at an undergraduate level, a two-day workshop on 'Neural Networks Algorithm for Biomedical Applications' was held at BMS College of Engineering, Bangalore.

The workshop was designed for students as well as teachers, with a view to make the participants gain in-depth knowledge of Machine Learning, and had eight lecture sessions altogether. Mr. Supreeth Y.S, Co Founder and CEO at Tequed Labs, along with his team, were the resource persons of the workshop.

Mr. Supreeth delivered the inaugural lecture by giving a brief introduction on Artificial intelligence, Machine Learning and their pertinence in today's world.

- Human Detection using Machine learning.
- Creating Machine learning models and working on various data sets.

→ **Session-4**

3.30pm - 4.30pm

- Natural Language processing and Sentimental Analysis.

CONCLUSION

The Neural Network workshop was beneficial to all the students and teachers who attended, as the topics were well elucidated by Mr. Supreeth and his team. The feedback received reflected that they were also equipped with a deep understanding of the topics covered.

CONVENERS

Dr. Vijayalakshmi K, Assoc. Professor, Dept of ML Engg.
Dr. R. S. Geetha, Assoc. Professor, Dept of E & E Engg.

CO-ORDINATORS
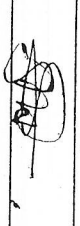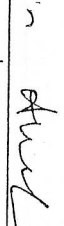
Dr.Suma M.S, Professor, Dept of ML Engg.
Dr.Chandasree Das, Assoc. Professor, Dept of E & E Engg.

B.M.S.COLLEGE OF ENGINEERING, BANGALORE-19
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-III
Neural Networks Algorithm for bio-medical applications

THE DETAILS OF PARTICIPANTS FOR THE PROGRAMME

Date: 18/03/2019

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29	LAVANYA SRIVASTAVA	1BM16ML011	GM	lavanya.srivastava@outlook.com	
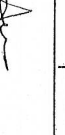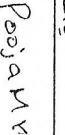
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40	Dr. R. Geetha Assoc Prof		GM		
41	Dr. Chandrappa Assoc Prof		GM		
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B.M.S.COLLEGE OF ENGINEERING, BANGALORE-19
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-III
Neural Networks Algorithm for bio-medical applications

THE DETAILS OF PARTICIPANTS FOR THE PROGRAMME

Date: 19/03/2019

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16	Dr. Joshi Manisha	—	GM	(sign)	(sign)
17	Divya Bharathi	1BM16ML001	OBC	divyabharathi SDE@gmail	Divya Bharathi
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24	Abhishek Am	Faculty	GM	abhishek.ml@bmsce.ac.in	(sign)
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27	Gunashri	1BM16ML008	SC	(sign)	Gunashni
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33	PRAJWAL SHETTY	1BM16ML405	GM	Poojshetty91@gmail.com	S. Varun
34	ANASYA PRASAD	1BM16ML004	GM	ANASYAB PRASAD@question@gmail.com	ANASYA B
35	ABHISHEK B	1BM16ML024	GM	abhishekbtbe@gmail.com	Abhishek B
36	SHREYAS NAIK	1BM15ML024	GM	shreyesa@gmail.com	
37	Pandurang. Kulkarni	—	GM	pandurang@yahoo.com	
38	Dr. Usha A	Asst Prof	GM	ushareeee@gmail.com	
39	Dr. R Chaitra		GM	@brotteracin@com	
40	Dr. Chandana Das		GM	omgenider	
41					
42					
43					
44					
45					

3

APPLICATION FORM

TEQIP
Technical Education Quality Improvement Programme Phase-III

sponsored

Two days hands-on workshop on

"Neural Networks Algorithm for bio-medical applications"

(18th and 19th March, 2019)

1. Name : ....
2. Designation : ....
3. Institution : ....
4. Address for communication :

....

....

5. Contact No : ....
6. E-mail ID : ....
7. Educational qualifications : ....
8. Area of specialization/interest : ....
9. Years of experience : ....
   Teaching .... Industry..............
10. DD Details:

DECLARATION

The information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for the entire duration. I will submit the registration fee on or before 15-03-2019.

Place:

Date:

Signature of the applicant
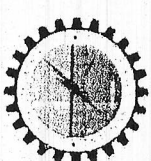
BMS College of Engineering
Bengaluru-19

TEQIP
Technical Education Quality Improvement Programme Phase-III

TEQIP sponsored two days hands-on workshop

on

Neural Networks Algorithm for bio-medical applications

(18th and 19th March, 2019)

Organized by

Department of Medical Electronics

and

Electrical & Electronics Engineering

in association with

FET, MJP. Rohilkhand University Bareilly U.P.

under Twining
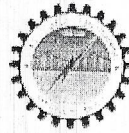
BMSCE IEEE SB and the Department of Medical Electronics Engineering presents

INDUSTRIAL VISIT

To Centre for Nano and Material Sciences (CNMS) at Jain University, Bangalore

Chief Coordinator
Dr. Joshi Manisha S

Faculty Coordinator
Dr. Jisha P

Dr. K R Niranjan

Exclusively for the students of Medical Electronics Engineering!

Centre for Nano and Material Sciences (CNMS) is a new research centre established in 2012 by Jain University. The centre presently has oriented its research in chemistry focussing on Catalysis, Electrochemistry, Neurochemistry and Engine Materials. It offers a critical mass of world class researches with unique capabilities and expertise in Nano structured assemblies, electrochemical phenomena, catalyst materials integral to energy conservation and storage sensing technologies, together with clinical characteristics of anti neuro inflammatory potentials. The aim of the visit to the CNMS is to help our UG and PG students in exploring and learning more about biomaterials, their synthesis, characterization and processing of nanomaterials n real time.

Date: 22nd March 2022

Reporting Time: 8 AM

Venue: 6th floor, Dept. of Medical Electronics Engineering, Platinum Jubilee Block

CONTACT US:
Dr. Jisha: 89513 52753
Dr. Niranjan: 99026 88944

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

Organizes

EVENT: INDUSTRIAL VISIT

Event: "Industrial Visit to Centre for Nano and Material Sciences (CNMS),"
Jain University, Bengaluru.

In collaboration with
IEEE BMSCE chapter
Scheduled on
Date: 22 - 03 -2022
Time: 9.30AM-4.30PM

Faculty Coordinator
Dr.Jisha.P
Dr.Niranjan.K.R

HOD
Medical Electronics Engineering

Director,CNMS
Jain University

CENTRE FOR NANO & MATERIAL SCIENCES
JAIN UNIVERSITY
Jain Global Campus, Jakkasandra Post,
Kanakapura Taluk, Ramanagara District – 562112

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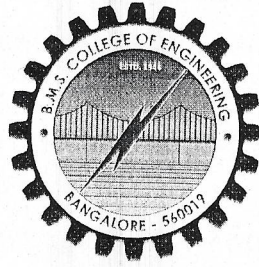
B. M. S COLLEGE OF ENGINEERING

Department of Medical Electronics Engineering
(Autonomous under VTU)

INDUSTRIAL VISIT REPORT

V Semester
(2021-2022)

Name	USN	Signature
Ume Hani Jawad	1BM19ML055	Ume Hani Jawad
Vaishnavi Rangaraj	1BM19ML056	Vaishnavi Rangaraj
Chief Coordinator		Dr Joshi Manisha S
Faculty Coordinator		Dr Jisha P
		Dr K. R Niranjan

- <u>Synthetic organic chemistry lab</u> - The main equipment and studies done in this lab revolved around Carbines, TLC chamber, GCMS.
- <u>Applied electrochemistry lab</u> - This lab specialized in energy storage devices. The studies on energy storage devices involved computer technologies and wearable sensors. Demonstration of data collection and analysis was given.
- <u>Sustainable energy materials and processes lab</u> - Focuses on sustainable materials. The highlight of this lab was the water purifying plastic membrane. Their main area of research was on waste particle purification.
- <u>Bio-organic and clinical chemistry lab</u> - Synthesis of nanomaterials (MOFS). A brief overview about the analysis on separation of biological entities (like cancer cells) from bloodstreams using nanotechnology was given . They are also working on a drug delivery system. The operation of the BET surface analysis equipment was demonstrated and explained.
- <u>Photo and electrocatalysis lab</u> - This lab specialized in 2D materials and dye degradation studies. They work with photoactive materials, sensors and solar cells. Three different types of membranes are used for water purification studies - electro nanofiber membrane, nanofiber and flat sheet membranes.

The morning session and the visit to the laboratories ended with a quick group photo session.
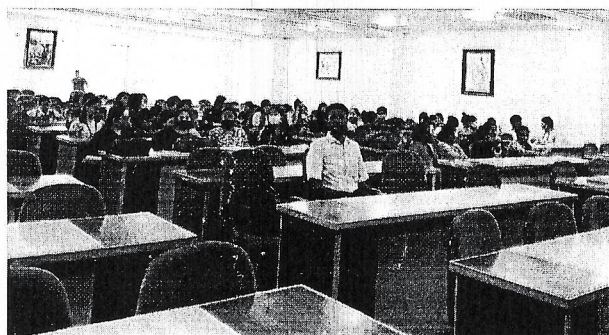
The industrial visit helped the students in understanding the science and the technology behind the design, fabrication and application of nanomaterials. All the UG and PG students had the opportunity to interact with subject matter experts.
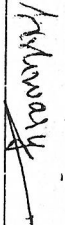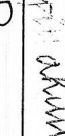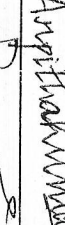
The industrial visit was a welcome experience for all the students and every student looks forward to the next industrial visit.
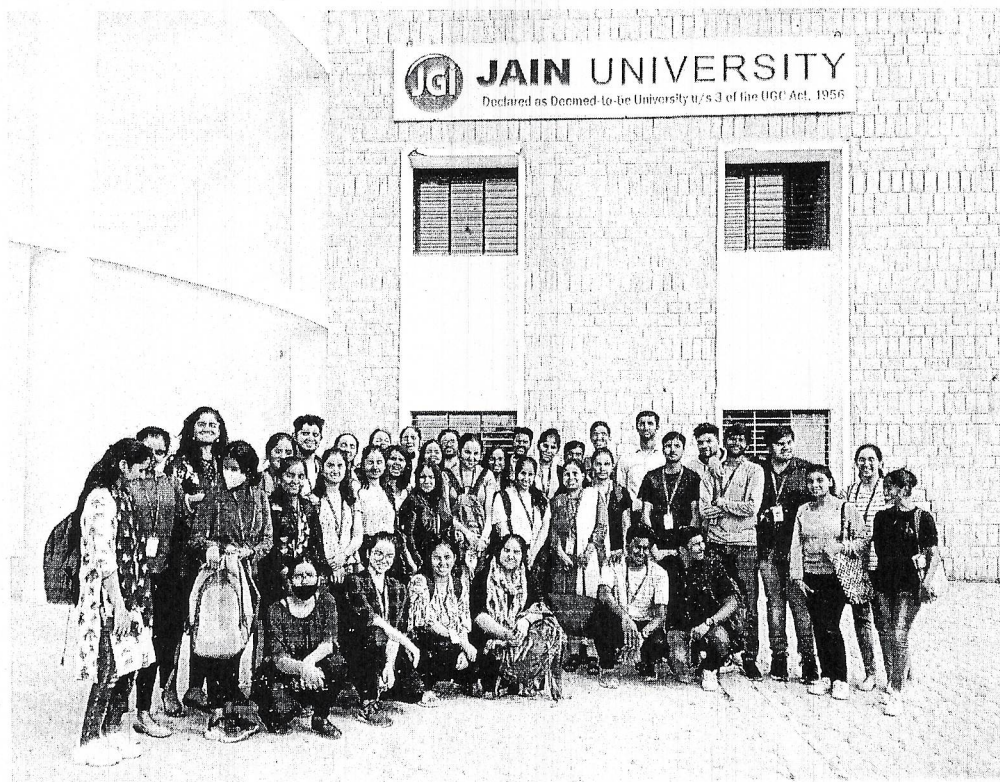
B.M.S. College of Engineering, Bangalore – 560019
Department of Medical Electronics Engineering
EVENT: Industrial Visit to Centre for Nano and Material Sciences (CNMS), Jain University on 22 - 03 -2022

Batch 1

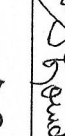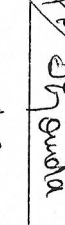| Sl.No.	USN	Name	IEEE Member	Contact No.	Signature-Morning Session	Signature-After noon Session
1	1BM19ML002	Adithi ks			*(signature)*	*(signature)*
2	1BM19ML003	Aishwarya Ramesh Rao		9380325801	*(signature)*	*(signature)*
3	1BM19ML004	Akash K A		9448655450	*(signature)*	*(signature)*
4	1BM19ML006	Amit sreeram			*(signature)*	*(signature)*
5	1BM19ML007	Amogh B		9071060435	*(signature)*	*(signature)*
6	1BM19ML009	Ankith Havaldar			*(signature)*	*(signature)*
7	1BM19ML010	Arjun Teli			*(signature)*	*(signature)*
8	1BM19ML011	ARPITHA KUMAR			*(signature)* Arpithakumar	*(signature)* Arpithakumar
9	1BM19ML061	Binay Kumar chaudhary			*(signature)*	*(signature)*
10	1BM19ML012	Dhanyashree G		6366185842	*(signature)*	*(signature)*
11	1BM19ML013	G SHRADDHA			AB	AB
12	1BM19ML014	Ganica SB			AB	AB

B.M.S. College of Engineering, Bangalore – 560019
Department of Medical Electronics Engineering
EVENT: Industrial Visit to Centre for Nano and Material Sciences (CNMS), Jain University on 22 - 03 -2022

Batch 2

Sl.No.	USN	Name	IEEE Member	Contact No.	Signature-Morning Session	Signature-After noon Session
1	1BM19ML025	Meghala Murali		6364022225	Meghalamurali	Meghala murali
2	1BM19ML026	Meghana Meghanath		9916231385	Meg	Meg
3	1BM19ML028	Meghana V J		7892979540		
4	1BM19ML027	Meghana.umesh			Meghana V	Meghana V
5	1BM19ML062	Mohamed rasal			AB	AB
6	1BM19ML030	Monica B M		7892738057	Monica	Monica
7	1BM19ML031	Neha N			Neha N	Neha N
8	1BM19ML032	Nithin M S		9663914623	Nithin	Nithin
9	1BM19ML034	Prathiksha R		7406733149	Prathiksha	Prathiksha

B.M.S. College of Engineering, Bangalore – 560019
Department of Medical Electronics Engineering
EVENT: Industrial Visit to Centre for Nano and Material Sciences (CNMS), Jain University on 22 - 03 -2022

Batch 3

Sl.No.	USN	Name	IEEE Member	Contact No.	Signature-Morning Session	Signature-After noon Session
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2	1BM19ML046	Srikrishna S		–	AB	AB
3	1BM18ML049	Srinath v		–	AB	AB
4	1BM19ML047	Sudiksha Bhat M		–	AB	AB
5	1BM19ML046	Suhas GM		7019426517	Sudi	Sudi
6	1BM19ML052	Supriya G		–	AB	AB
7	1BM19ML053	Surabhi H N		7899801301	Surabhith-N	Surabhith-N
8	1BM19ML054	Tharusha k		8861314655	Tharusha k.	Tharusha k
9	1BM19ML055	Ume Hani Jawad				
10	1BM19ML056	Vaishnavi Rangaraj			Vaish.	Vaish.
11	1BM19ML058	Vikhyath Kashyap		–	AB	AB