



B.M.S. COLLEGE OF ENGINEERING
Department of Medical Electronics Engineering
PHASE SHIFT 2022 ACTIVITY REPORT

THEME: DATAFICATION AND DIGITAL TRUST

Students of Department of Medical Electronics Enthusiastically participated in the two days International Annual Technical Symposium, Phase Shift 2022 on, 25th th & 26th th Nov 2022. Various technical events were conducted by the department during this technical event. The details of the various activities conducted during the event are given below.

In the Project Stall Exhibition, the department secured 2nd place during this event.



The following projects were presented:

1. Insole Pressure Sensor Data Acquisition System
2. Lingua Pigmentation Detector
3. Audile Gloves
4. Detection of Respiratory Abnormalities using Smart Spirometer
5. Vaginal Infection Detector

The projects displayed were in sync with the UN Sustainability Goal 3, Healthcare.

The details of the activities conducted:

1. **Techno Teaser**

Objectives:

To increase the skill of participants in circuit building along with soft skills like teamwork, collaboration and working under pressure.

Date: 25th November 2022

Time: 3 pm to 5 pm

Venue: Signal Processing Lab and Analog Electronics Lab, Department of Medical Electronics

Summary of the programme:

This was the department flagship event. It was a competition consisting of two rounds. The first round was a screening round which consisted of participating teams answering a quiz based on electronics and medical science. The second round was a circuit building round where 4 selected teams were asked to build circuits based on problem statements given. The judge selected which problem statement was to be given. The winning team was Anand HJ and team from EEE department, BMSCE and the second place was bagged by Srikrishna and team from Medical Electronics Department, BMSCE.

The judge for the event was Mr. Shrikrishna S Chippalkatti, Joint Director, CDAC.

Outcomes:

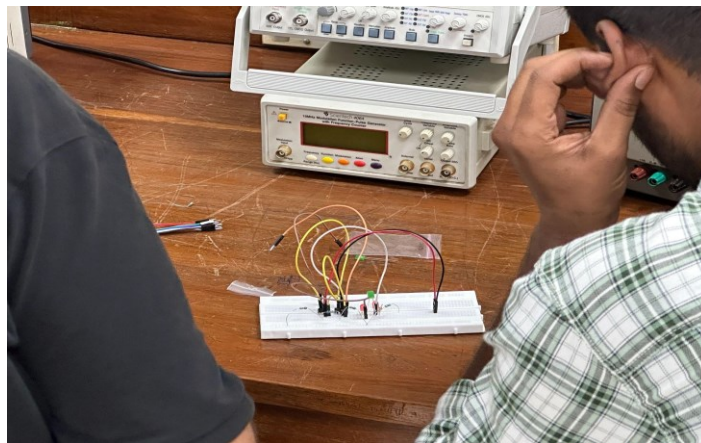
The participants were able to:

- Build circuits using purely analog electronic components.
- Work as a team under pressure.
- Improve their problem solving skills and come up with innovative solutions

Number of Participants

Particulars	Number of Faculty		Non-Teaching Staff		External Participants	
	Male	Female	Male	Female	Male	Female
Number of Participants	0	0	2	0	14	7

Photographs:



2. Record Defense

Objectives:

To make participants understand the importance of security in medical files and increase their knowledge in cybersecurity.

Date: 26th November 2022 Time: 10:30 am to 3:30 pm

Venue: Telecom Lab 1, Department of Telecommunications Engineering

Summary of the programme:

This was a theme-based Capture the Flag competition, where participants were asked to solve problems ranging from cryptography, steganography, digital forensics etc. and find

a hidden flag. The competition was hosted on the CTFD platform where it was automatically graded. The winning team was Pragnashri G and team, VKIT and the second place was bagged by Vaishnavi J Inamdar and team, VKIT.

Outcomes:

The participants effectively tested and further enhanced their network security skills in the domain of digital health.

Number of Participants

Particulars	Number of Faculty		Non-Teaching Staff		External Participants	
	Male	Female	Male	Female	Male	Female
Number of Participants	0	0	1	2	2	10

Photographs:



3. MED-Shield

Objectives:

To increase the awareness and knowledge of participants in the domain of data security in digital health.

Date: 25th November, 2022 Time: 11 am to 1 pm

Venue: RK Hall, PG Block, 1st Floor

Summary of the programme:

This was a workshop based on data security in digital health. It consisted of two talks, one on datafication in the medical domain and the other one on digital trust. The speakers were Anandi Giridharan, Principal Research Scientist IISC and Gayathri Devi B R, Asst. Manager Hindustan Unilever. Mrs. Anandi Giridharan addressed on datafication and Ms. Gayathri Devi B R addressed the participants on digital trust.

Outcomes:

This workshop educated participants about the importance of datafication and digital trust in the field of healthcare.

Number of Participants

Particulars	Number of Faculty		Non-Teaching Staff		External Participants	
	Male	Female	Male	Female	Male	Female
Number of Participants	0	1	1	0	8	7

Photographs:

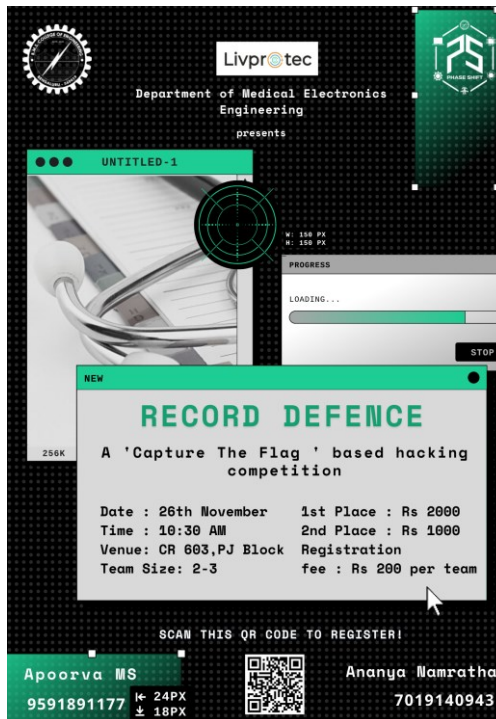




Supporting documents:

Event Posters:





Attendance Sheet:

1. Techno Teaser
2. Record Defense

	A	B	C	D	E	F	G	H	I	J
1	MENTTR	d0045014-9f4d-	pritam1273.pp@	B Karthik Prabhu	prabhu.karthikb@	Apoorva S G	apoorvasg.ec21@	Pritam Panigrahi	pritam1273.pp@gmail.com	
2	MENTTR	4af4429e-7e22-	keerthim.ec21@	Lakshmi Girish	lakshmigirish.ec	Keerthi M	keertim.ec21@b	Deepthi M	deepthim.ec21@bmsce.ac.in	
3	MENTTR	2e0e6932-9fc5-	srikrishnas.ml19	srikrishna s	srikrishnas.ml19	nandakumar e l	nandael.ec19@t	sudiksha bhat m	sudikshabhat.ml19@bmsce.ac.in	
4	MENTTR	6b2d87f3-380b-	madhusudhan00	madhusudhan d	madusudhan007	bhargava r	bhargava200228@gmail.com			
5	MENTTR	abc06ca4-f8eb-	naumanahmed.r	nauman ahmed	naumanahmed.r	mohnish reddy n	mohnish.ml20@bmsce.ac.in			
6	MENTTR	471fbf34-dea2-4	keertibr02@gma	keerthana b r	keerthanab.ml20	prathita gowri	prathita.ml20@bmsce.ac.in			
7	MENTTR	18ab1fd0-b781-	itschyavan12@	chyawan hegde	itschyawan12@	yashwanth s v	yashwanthsv396@gmail.com			
8	MENTTR	8c641de8-24d7-	anandh.ee20@t	anand h j	anandh.ee20@t	lokesk	lokesk.ee21@br	prajwal k	prajwal.ee20@bmsce.ac.in	
9	MENTTR	baf7b2ad-694a-	harindraj.ml20@	srinivasa ranga	srinivasa.te20@	sai rupesh r	sairupesh.te20@bmsce.ac.in			

	A	B	C	D	E	F	G	H	I	J	K
1	Event ID	Ticket ID	Campaigner Em	Event Name	Amount	Participant Name	Participant Email	Participant Phone	Participant College	TIMESTAMP	
2	MENRDF	84739f7d-019f-4	online	Record Defence	200	Avanthi Anand	avanthianand24	9986070214	DSCE	2022-11-20T11:09:00.553Z	
3	MENRDF	c581ccb5-6345-	online	Record Defence	200	Sarthak	vishalhiremath.h	9844505220	Reva IT	2022-11-20T05:44:28.208Z	
4	MENRDF	pass-MDB-1	chinmayar.ml20	Record Defence	200	Pragnashri G	g.pragnashri@gi	8073806104	others	2022-11-20T08:47:28.151Z	
5	MENRDF	8a0ec992-1803-	online	Record Defence	200	Prajwal Prakash	prajwal.ml20@br	9916941383	BMSCE	2022-11-21T08:29:25.798Z	
6	MENRDF	pass-MDB-5	chinmayar.ml20	Record Defence	200	A J V Madhumol	madhumohan.ai	8050503539	BMSCE	2022-11-21T10:07:16.611Z	
7	MENRDF	a029dbe3-d726-	online	Record Defence	200	Vinayak Vineeth	vinayakvineeth4	9845947782	PESIT	2022-11-21T10:57:12.442Z	
8	MENRDF	6f0fa5d6-e8b7-4	online	Record Defence	200	Vaishnavi J Inam	vaishnavi18200	9901529394	Others	2022-11-21T12:30:33.778Z	
9	MENRDF	cbd1d018-4353-	online	Record Defence	200	Prathiksha Haris	prathiksha.ml20	8618133529	BMSCE	2022-11-23T14:31:21.701Z	

3. MED-Shield

	A	B	C	D	E	F	G
1	MENMDS	pass-MDB-11	keertanalprakash	Keertana	keertanalprakash23@gmail.com		
2	MENMDS	pass-MDB-13	sainandanvg@g	Sai Nandan V G	sainandanvg@gmail.com		
3	MENMDS	pass-MDB-19	Darshangowda6	Darshan N	Darshangowda63511@gmail.com		
4	MENMDS	pass-MDB-7	rohithraj.ml20@	Rohith Raj	rohithraj.ml20@bmsce.ac.in		
5	MENMDS	pass-MDB-15	deekshareddy36	Deeksha N	deekshareddy3602@gmail.com		
6	MENMDS	pass-MDB-12	chandana12skac	Chandana S	chandana12skac@gmail.com		
7	MENMDS	pass-MDB-18	truptinavin2002@	Trupti N	truptinavin2002@gmail.com		
8	MENMDS	pass-MDB-10	mohnish.ml20@	Mohnish Reddy	mohnish.ml20@bmsce.ac.in		
9	MENMDS	pass-MDB-20	darshurao1@gr	Darshan D	darshurao1@gmail.com		
10	MENMDS	736fadfe-6634-4	umme99288@g	Umme Hani	umme99288@gmail.com		
11	MENMDS	pass-MDB-21	sowmyabai2002	Sowmya Bai	sowmyabai2002@gmail.com		
12	MENMDS	pass-MDB-9	naumanahmed.r	Nauman Ahmed	naumanahmed.ml20@bmsce.ac.in		
13	MENMDS	pass-MDB-17	Sam0709000@	Samedh S M	Sam0709000@gmail.com		
14	MENMDS	19346567-666e-	lekha.ml20@bm	Lekha M	lekha.ml20@bmsce.ac.in		

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12/12/2022

HOD
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