



Kalyanii Charitable Trust's

LATE G. N. SAPKAL COLLEGE OF ENGINEERING

(Accredited with Grade 'B' by NAAC)

Affiliated to > Savitribai Phule Pune University (ID. No. PU/NA/Engg./152/2009 Ref.No.-CA/6501 Dated- 18/11/2009)

Approved by > A.I.C.T.E., New Delhi (F.N: 06/07/MS-Engg/2008/O-17, Dated- 11th June 2009)

> Govt. of Maharashtra (No. GEC-2009/(67/09)/T.E.- 4, Dated- 15th June 2009)

> D.T.E., M.S., Mumbai (No.2/NGC/Engg./Approval/2009/535, Dated - 23rd July 2009)

> AISHE CODE : C-42196

Dr. Sahebrao B. Bagal
M.E. (E & TC), Ph.D. (E & TC)
Principal



Dr. Ravindra G. Sapkal
Chairman & Managing Director
Kalyanii Charitable Trust

Ref: KCT's /LGNSCOE/2023-24/37461

Date: 20/03/2024

To,

Prof. (Dr.) D. D. Dighe

Head, E & TC Department

M.C.E. R. C, Nashik.

Subject: - Invitation letter to conduct Add Op Program on "Biomedical Signal & Image Processing."

Dear Sir,

We are pleased to invite you as a resource person for Add On program on "Biomedical Signal & Image Processing" organized by Electronics & Telecommunication Engineering Department in association with IQAC of Late G. N. Sapkal College of Engineering, Anjaneri, Nashik 422212.

We will be grateful if you could share your valuable expertise on the topic aforementioned. We hope that the students will be benefitted by participating in this program with the current edge technology on the topic.

We look forward to your presence in the campus as per the schedule attached.

Thanking You,

With warm regards.

Yours Faithfully,



Prof. K. J. Mahajan
Program Coordinator

Prof. Dr. V. A. Kolhe
IQAC Coordinator

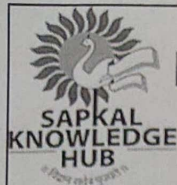
Prof. S. B. Borse
HOD, E & TC Engg.

Prof. (Dr.) S. B. Bagal
Principal



Prof. (Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213.

- CAMPUS :** Sapkal Knowledge Hub, Kalyanii Hills, Anjaneri-Wadholi, Trimbakeshwar Road, Nashik - 422 213, (India)
Tel.: + 91- 2594 - 220168/69/70 | Mob.: +91 9922252699 | Toll Free No.: 1800 233 2999 | E-mail : gns_engineering@sapkalknowledgehub.org
- CORPORATE OFFICE :** Sapkal Knowledge Hub, 'Parag' 46, Ashwin Sector, Opp. Hotel Sai Palace, Mumbai-Agra Highway, Nashik - 422 009.
Tel.: +91 - 253 - 2392450 / 51 | E-mail : head.marketing@sapkalknowledgehub.org | Website : www.sapkalknowledgehub.org
- MUMBAI OFFICE :** Sapkal Knowledge Hub, Unit No. 22, 1st Floor, Shubhada Tower Shopping Centre, Sir Pochkhanwala Road, Near R.T.O. Office, Worli, Mumbai - 400 030. Tel.: + 91 - 22 - 24938914 / 15 | E-mail : cmd@sapkalknowledgehub.org, ravi.sapkal@gmail.com



KALYANI CHARITABLE TRUST'S
LATE G. N. SAPKAL COLLEGE OF ENGINEERING

Kalyani Hills, Anjaneri-Vadholi, Trimbakeshwar Road, Dist: Nashik - 422 212 (India)
Tel.: +91 - 2594 - 220168/71. Fax : +91 - 2594 - 220174
Website: www.sapkalknowledgehub.org. E-mail: gns_engineering@sapkalknowledgehub.com



Ref: KCT's /LGNSCOE/2023-24/ 229 (1)

Date: 22/03/2024

Notice

All the Teaching , Non-Teaching staff members & students of E &TC department are hereby informed that, 30 hours Certificate course on “**Biomedical Signal & Image Processing**” is organized by Electronics &Telecommunication Engineering Department in association with IQAC at our college. All are requested to attend the program.

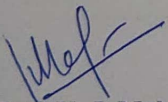
Speaker: Prof. (Dr.) D. D. Dighe

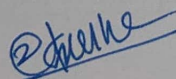
Venue: Embedded Systems Lab

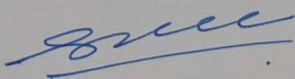
Day and Date: Tuesday, 2nd April to 6th April 2024

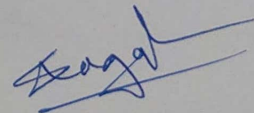
Time: 09:00 AM

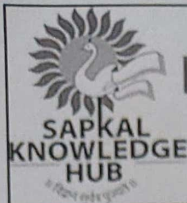



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Program Coordinator


Prof. Dr. V. A. Kolhe
IQAC Coordinator


Prof. S. B. Borse
HOD, E & TC Engg.


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Prof. (Dr.) Sahebrao B. Bagal
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Department of Electronics and Telecommunication

Add On Program

On

Biomedical Signal & Image Processing

In Association with IQAC Cell, LGNSCOE Nashik

08th to 13th April, 2024

Session wise Schedule

Sr. No.	Session	Details
Tuesday 02/04/2024	Session I (9:00 am to 12:00 pm)	Biomedical Signals and Images
	Session II (1:00 pm to 4:00 pm)	Speech Signals & Speech Coding
Wednesday 03/04/2024	Session I (9:00 am to 12:00 pm)	Fundamentals of Deterministic Signal and Image Processing
	Session II (1:00 pm to 4:00 pm)	Hands on Session ECG Filtering and Frequency Analysis of the Electrocardiogram Speech Coding Implement, test, and compare two speech analysis-synthesis systems.
Thursday 04/04/2024	Session I (9:00 am to 12:00 pm)	Analysis of Bio-signals
	Session II (1:00 pm to 4:00 pm)	Hands on Session Isolate one typical period of the signal, i.e., one cycle containing P-QRS-T. Calculate the duration of P, T, and QRS waves. For ECG signal.
Friday 05/04/2024	Session I (9:00 am to 12:00 pm)	Applications of Signal & image processing in Medical Field
	Session II (1:00 pm to 4:00 pm)	Hands on Session Extracting Classification Features from Physiological Signals
Saturday 06/04/2024	Session I (9:00 am to 12:00 pm)	Recent Trends in Biomedical Signal & Image processing
	Session II (1:00 pm to 4:00 pm)	Hands on Session Artifact Removal and Signal Filtering





Electronics & Telecommunication Department

PROGRAMME REPORT

- **Title of the Program:** Biomedical Signal & Image Processing.
- **Duration of the Program:** From 02/04/2024 to 06/04/2024
- **Number of Participants:** 60
- **Details of Resource Person:**

Prof. (Dr) D. D. Dighe, Mobile No: 960403007

- **Description of the Program:**

Department of Electronics & Telecommunication Engineering organized a 30 hours Add On program on Biomedical Signal & Image Processing for Third & Final Year Students. The resource person educated the students with the use of digital signal processing for biomedical applications. Also, he focussed on various algorithms for real time problems involving biomedical signals & systems. He also helped students to focus on various real time & latest developments in the field of biomedical instrumentation.

- **Objectives of the Program:**

1. To understand the theoretical background underlying the use of digital signal processing and statistical techniques for biomedical applications.
2. To study origins and characteristics of most commonly used biomedical signals, including ECG, EEG, Evoked potentials, and EMG.
3. Implement appropriate signal processing algorithms for practical problems involving biomedical signals and systems.
4. It focuses on latest developments in the field of biomedical instrumentation.

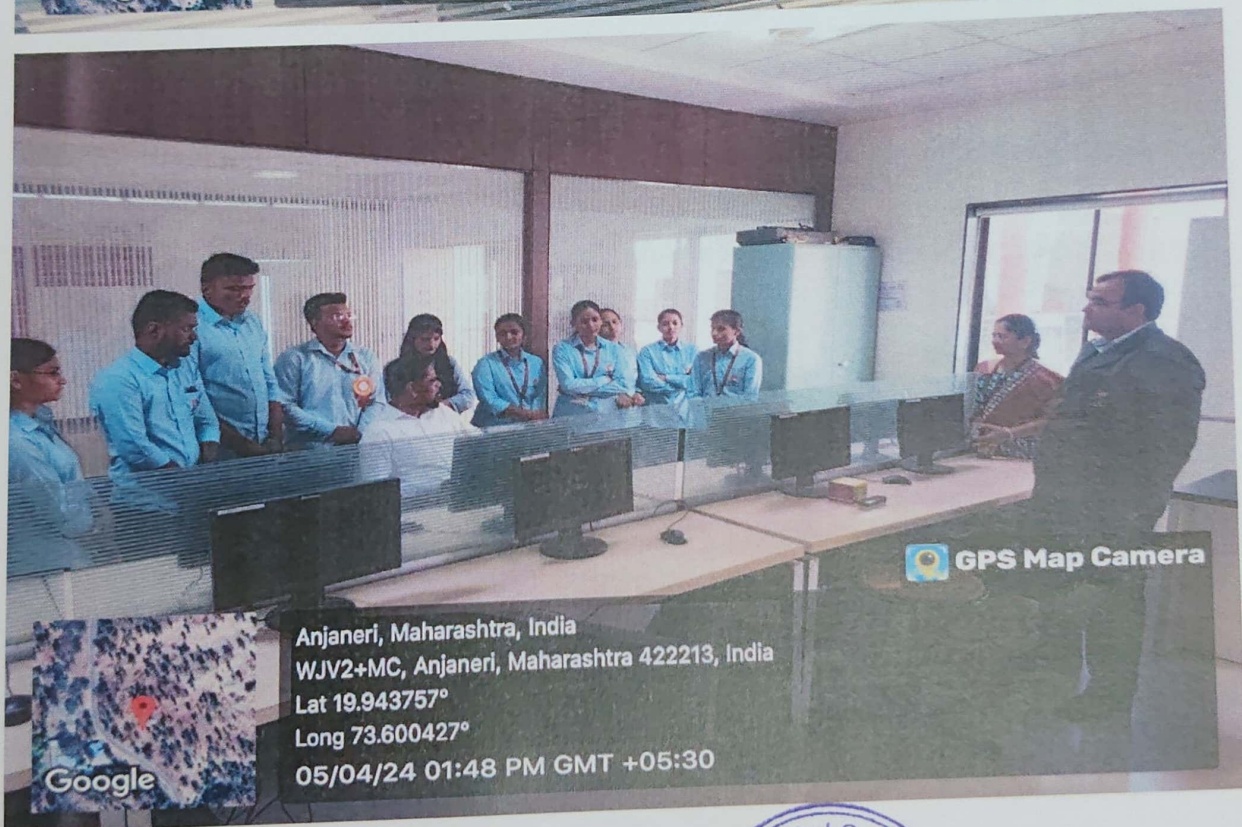


➤ **The Outcomes of the program:**

1. Acquired knowledge on signal processing for biomedical signals.
2. Faculty may be able to carry out the research in the field of biomedical instrumentation.
3. Awareness on latest developments on biomedical instrumentation.

➤ **Photographs of Event**





Mef
Prof. K. J. Mahajan
Program Coordinator

Borse
Prof. S. B. Borse
HOD, E&TC Dept.

Bagal
Prof. (Dr.) S. B. Bagal
Principal, LGNSCOE
Prof. (Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213.



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> AISHE CODE : C-42196

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Principal



Dr. Ravindra G. Sapkal
Chairman & Managing Director
Kalyanii Charitable Trust

Ref: KCT's /LGNSCOE/2023-24/389 (1)

Date: 06/04/2024

To,

Prof. (Dr.) D. D. Dighe

Head, E & TC Department

M.C.E. R. C, Nashik,

Subject: - Letter of appreciation.

Dear Sir,

We would like to take this opportunity to express our appreciation to you for successfully conducting 30 hours Add On program **"Biomedical Signal & Image Processing."** organized by Department of Electronics & Telecommunication Engineering of Late G. N. Sapkal College of Engineering, Nashik in association with IQAC cell LGNSCOE Nashik, during 2nd Apr. 2024 to 6th Apr. 2024.

It was extremely informative, and participation illustrated the importance of this topic to our students. We would like to thank about your personally taking time out of your hectic schedule to provide us with the full of information.

Thanking You,

With warm regards.

Prof. S. B. Borse

HOD E & TC



Prof. (Dr.) S. B. Bagal

Principal

Prof.(Dr.) Sahebrao B. Bagal
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Anjaneri, Nashik-422 213.



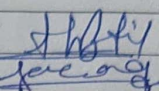
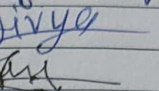
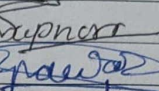
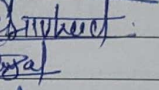
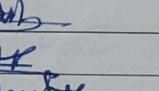
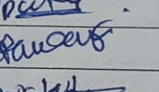
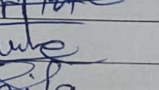
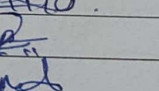
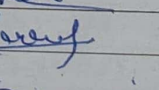
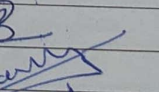
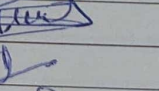
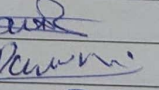
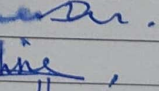
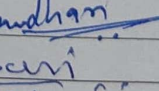
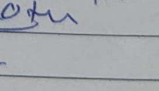
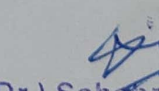
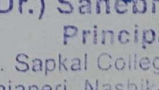
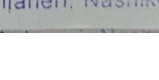
- CAMPUS** : Sapkal Knowledge Hub, Kalyanii Hills, Anjaneri-Wadholi, Trimbakeshwar Road, Nashik - 422 213. (India)
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Department of Electronics & Telecommunication Engineering

in Association with IQAC

ENROLLMENT OF PARTICIPANTS (Students)

30 hours Certificate Course on "Biomedical Signal & Image Processing"

Sr. No.	Name of Participants	Sign
1.	Anirudha H. Patil	
2.	Sawant Anurag Ramkrishna	
3.	Bhagwat Divya Kailas	
4.	Neelam Sahish Ralcard	
5.	Sapnar Shalini Vilas	
6.	Putyia C. Pawar	
7.	Avhad Valsheeli Khunchu	
8.	Gunjal Gayatri Babasaheb.	
9.	Bhagade Manohar Minarath	
10.	Deepak pawar.	
11.	Ganesh Pote	
12.	Rajendra Pawar	
13.	Sarkar Mukute	
14.	Hinde mahendra Jayram	
15.	Sanika patil	
16.	khushi Patil	
17.	Mule Anirush Datta	
18.	Kudlay Snehal Kailas	
19.	Sameer phule	
20.	Bhushan Mahajan	
21.	Prajakta Jadhav	
22.	Rahul Kolhe	
23.	Manjuri Patil	
24.	Harshad Lalhe kute	
25.	Saigabhi Pawar	
26.	Dipesh Bhosale	
27.	Prathamesh Ahire	
28.	Lohan Chaudhari.	
29.	Gosani Nishigandha B.	
30.	Harshikesh R. Kotwal	
31.	Shubham D. Galkar	



Prof.(Dr.) Sahebrao B. Bagal
Principal

Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213.

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Fax : +91-2594-220174

Website: www.sapkalknowledgehub.org, Email: gns_engineering@sapkalknowledgehub.com



32	Harshal S Deshmukh	<u>Harshal</u>
33	Harshal S mahajan	<u>Harshal</u>
34	Rudraksha S MURKUTE	<u>Rudraksha</u>
35	Bhavesh R. Jadhav	<u>Bhavesh</u>
36	Shirani S Anahale	<u>Shirani</u>
37	Rahul A Gosavi	<u>RA</u>
38	pratiksha A. Gite	<u>P.A. Gite</u>
39	Archana S. Gavit	<u>Archana</u>
40	Tambe Monika B.	<u>Monika B.</u>
41	subale Mina R.	<u>Subale</u>
42	Mayur A. Ahire	<u>Mayur</u>
43	Darade Swati Gangadhar	<u>Swati</u>
44	Nikhil D. Shimpi	<u>Nikhil</u>
45	Vishal R. Shirsath	<u>Vishal</u>
46	Shaikh Aman	<u>A</u>
47	Bhosale Poatik	<u>Poatik</u>
48	Nikam Omkar	<u>Omkar</u>
49	Mundhe Poatik	<u>PDM</u>
50	Borse Chirayu	<u>CBorse</u>
51	Patil Poshani	<u>Poshani</u>
52	Rumne Sushil	<u>SR</u>
53	Bhangre Daya	<u>PBhangre</u>
54	Nilesh Patil	<u>NKP</u>
55	Ritesh Patil	<u>RPatil</u>
56	shreya Aware	<u>Shreya</u>
57	Yogita chavan	<u>Ychavan</u>
58	Bhanika Rathod	<u>Bhanika</u>
59	Niraj Bawa	<u>NB</u>
60	Bhaskar Mahajan	<u>BM</u>



Sahebrao B. Baga

Prof.(Dr.) Sahebrao B. Baga!
Principal

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Anjaneri, Nashik-422 213.

Department of Electronics & Telecommunication Engineering
in Association with IQAC
ATTENDANCE OF PARTICIPANTS (Students)
30 hours Certificate Course on "Biomedical Signal & Image Processing"

Sr. No.	Name of Participants	Sign (2 April 2024)	Sign (3 April 2024)	Sign (4 April 2024)	Sign (5 April 2024)	Sign (6 April 2024)
1.	Anirudha H. Patil					
2.	Sawant Anurag R.					
3.	Bhagwat Divya Kailas					
4.	Neelam Saheli Polcade					
5.	Sapna Shalini Vilas					
6.	Priya C. Pawar					
7.	Gayatri B. Gernyal					
8.	Avhad Vaishali K.					
9.	Bhagade Manohar M.					
10.	Deepak Pawar					
11.	Ganesh pote					
12.	Gaurav Pawar					
13.	Sanket murkute					
14.	Hinde mehendra					
15.	Sanika patil					
16.	Khushi Patil					
17.	Mule Avinash D.					
18.	Kallap Snehal K.					
19.	Milind D. Shimpi					
20.	Sumeet Dhiure					
21.	Bhushan Mahajan					
22.	Priyanka Jadhav					
23.	Rahul Colhe					
24.	Mayuri Patil					
25.	Harshad Kute					
26.	Saurabh Pawar					
27.	D. Pesh Bhasan					
28.	Prathamesh Ahire					
29.	Tohan Chaphari					
30.	Gosavi Nishigandha					



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31	Haishikash R. Kotwal	AKOM	AKOM	AKOM	AKOM	AKOM
32	Rudraksha Muthure	Rudraksha	Rudraksha	Rudraksha	Rudraksha	Rudraksha
33	Vishal R. Shirse	Vishal	Vishal	Vishal	Vishal	Vishal
34	Bhavesh A. Tadhal	Bhavesh	Bhavesh	Bhavesh	Bhavesh	Bhavesh
35	Harshal S. Mahajan	Harshal	Harshal	Harshal	Harshal	Harshal
36	Shivani S. Andhale	Shivani	Shivani	Shivani	Shivani	Shivani
37	Harshal S. Deshmukh	Harshal	Harshal	Harshal	Harshal	Harshal
38	Rahul Anil Gosavi	Rahul	Rahul	Rahul	Rahul	Rahul
39	Pratiksha A. Arte	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha
40	Archana S. Gavil	Archana	Archana	Archana	Archana	Archana
41	Tambe Monika B.	Tambe	Tambe	Tambe	Tambe	Tambe
42	Sabale Mina R.	Sabale	Sabale	Sabale	Sabale	Sabale
43	Mayur A. Ahire	Mayur	Mayur	Mayur	Mayur	Mayur
44	Darade Suresh G	Darade	Darade	Darade	Darade	Darade
45	Shubham D. Gaikwad	Shubham	Shubham	Shubham	Shubham	Shubham
46	Shaikh Aman	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh
47	Bhosale Pratik	Pratik	Pratik	Pratik	Pratik	Pratik
48	Nikam Omkar	Omkar	Omkar	Omkar	Omkar	Omkar
49	Mundhe Pratik	PDM	PDM	PDM	PDM	PDM
50	Borse Chirayu	CBorse	CBorse	CBorse	CBorse	CBorse
51	Patil Roshani	Roshani	Roshani	Roshani	Roshani	Roshani
52	Rumne Sushil	SSR	SSR	SSR	SSR	SSR
53	Bhangore Daya	DBhangore	DBhangore	DBhangore	DBhangore	DBhangore
54	Patil Nilesh	NKP	NKP	NKP	NKP	NKP
55	Ritesh Patil	RPatil	RPatil	RPatil	RPatil	RPatil
56	Shreya Aware	Shreya	Shreya	Shreya	Shreya	Shreya
57	Yogita Chavan	Ychavan	Ychavan	Ychavan	Ychavan	Ychavan
58	Bhanka Rathod	Bhanka	Bhanka	Bhanka	Bhanka	Bhanka
59	Niraj Bawa	NB	NB	NB	NB	NB
60	Bhushan Mahajan	BM	BM	BM	BM	BM



Prof.(Dr.) Sahebrao B. Bagal
Principal

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Anjaneri, Nashik-422 213.

FFEDBACK FORM – RESOURCE PERSON

We would appreciate if you could take a few minute to share your opinion with us.

Name of the Resource Person: Prof. (Dr.) D. D. Dighe

Mobile No: 9604030007 E-mail id: devidasdighe@gmail.com

Name of the Affiliating Organisation: Matoshri College of Engineering + Research Centre

Address of the Affiliating Organisation: MCOERC Eklahare Dist Nashik

Title of Event: Add On Program "Biomedical Signal & Image Processing"

Date(s) of Participation: From 2/4/24 to 6/4/24 Days: 05 days

Kindly tick mark (✓) in the relevant box below

Sr.	Performance Attributes	Rating		
1.	Involvement of the participants in the event	1	2	3 ✓
		1 – Not ; 2 – Moderate ; 3 – Very Inquisitive		
2.	Nature of the event organized (Relevance to students / Academics)	1	2	3 ✓
		1 – Not; 2 - Moderately; 3 – Most Relevant		
3.	Infrastructural capacity of the organizing Department / Institute	1	2	3 ✓
		1 –Insufficient; 2 – Sufficient; 3 – Excellent		
4.	Overall impact of the event on the participants	1	2	3 ✓
		1 – Beneficial; 2 – More Beneficial; 3 – Most Beneficial		
5.	Comments on the boarding and lodging facilities (if availed)	1	2	3 ✓
		1 – Average; 2 – Good; 3 – Excellent		
6.	In near future how would you like to associate with the Students / Department / Institute?			
	Mentoring	Infrastructure Sharing	✓	Employment
				Financial Support
				All of the above
7.	Comments / Suggestions:	<u>Good participation of the students</u> <u>Good Organization & better infrastructure</u>		

Signature of Resource Person

Please return this form to the Event Co-ordinator.

Late G. N. Sapkal College of Engineering
Department of Electronics & Telecommunication Engineering
FEEDBACK OF PARTICIPANTS

Title of the Program/Event: 30 hours Certificate course on "Biomedical Signal & Image Processing"

Department of Electronics & Telecommunication Engineering in Association with IQAC

Name of Participant:Saurabh Ramesh Pawar.....

Name of the Faculty: Mechanical / Civil / Electrical / E&TC / Computer / Other

1.	Did you find the Workshop is useful?	1	2	3
				✓
		1-not useful ; 2-To some Extend ; 3-Very useful		
2.	Did it fulfill your expectation?	1	2	3
				✓
		1-not useful ; 2-To some Extend ; 3-Very useful		
3.	Did the Workshop improve your knowledge about the topic discussed?	1	2	3
			✓	
		1-not useful ; 2-To some Extend ; 3-Very useful		
3.	Suggestion to further improvement:			

Date: 19/05/2023

Signature of Participants

Late G. N. Sapkal College of Engineering
Department of Electronics & Telecommunication Engineering
FEEDBACK OF PARTICIPANTS

Title of the Program/Event: 30 hours Certificate course on "Biomedical Signal & Image Processing"

Department of Electronics & Telecommunication Engineering in Association with IQAC

Name of Participant:Garvi Nishigandha Bhimashankar.....

Name of the Faculty: Mechanical / Civil / Electrical / E&TC / Computer / Other

1.	Did you find the Workshop is useful?	1	2	3
			✓	
		1-not useful ; 2-To some Extend ; 3-Very useful		
2.	Did it fulfill your expectation?	1	2	3
				✓
		1-not useful ; 2-To some Extend ; 3-Very useful		
3.	Did the Workshop improve your knowledge about the topic discussed?	1	2	3
				✓
		1-not useful ; 2-To some Extend ; 3-Very useful		
3.	Suggestion to further improvement:			

Date: 19/05/2023

Signature of Participants

Late G. N. Sapkal College of Engineering
Department of Electronics & Telecommunication Engineering

FEEDBACK OF PARTICIPANTS

Title of the Program/Event: 30 hours Certificate course on "Biomedical Signal & Image Processing"

Department of Electronics & Telecommunication Engineering in Association with IQAC

Name of Participant: Shivani Sharad Ankole

Name of the Department: Mechanical/Civil/Electrical/E&TC/Computer/Other

1.	Did you find the Workshop is useful?	1	2	3
			✓	
		1-not useful ; 2-To some Extend ; 3-Very useful		
2.	Did it fulfill your expectation?	1	2	3
				✓
		1-not useful ; 2-To some Extend ; 3-Very useful		
3.	Did the Workshop improve your knowledge about the topic discussed?	1	2	3
				✓
		1-not useful ; 2-To some Extend ; 3-Very useful		
3.	Suggestion to further improvement:			

Date: 19/05/2023

Shivani Sharad Ankole
Signature of Participants

Late G. N. Sapkal College of Engineering
Department of Electronics & Telecommunication Engineering

FEEDBACK OF PARTICIPANTS

Title of the Program/Event: 30 hours Certificate course on "Biomedical Signal & Image Processing"

Department of Electronics & Telecommunication Engineering in Association with IQAC

Name of Participant: Gite Pratiksha Anil

Name of the Faculty: Mechanical / Civil / Electrical / E&TC / Computer / Other

1.	Did you find the Workshop is useful?	1	2	3
				✓
		1-not useful ; 2-To some Extend ; 3-Very useful		
2.	Did it fulfill your expectation?	1	2	3
				✓
		1-not useful ; 2-To some Extend ; 3-Very useful		
3.	Did the Workshop improve your knowledge about the topic discussed?	1	2	3
			✓	
		1-not useful ; 2-To some Extend ; 3-Very useful		
3.	Suggestion to further improvement:	—		

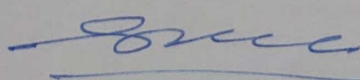
Date: 19/05/2023

Gite Pratiksha Anil
Signature of Participants

Analysis Report of Program Feedback Form

Title: 30 hours program on Certificate Course "Biomedical Signal Processing"

Sr. No.	Parameters	Scale→	1	2	3	Sample Size	Average Rating Out of 3
1	Did you find the workshop is useful?	Qty	2	14	14	30	2.40
		Point wise weightage	2	28	42	72	
2	Did it fulfil your expectation?	Qty		10	20	30	2.67
		Point wise weightage	0	20	60	80	
3	Did the workshoop improve your knowledge about the topic discussed?	Qty		12	18	30	2.60
		Point wise weightage	0	24	54	78	



HOD: Prof. S. B. Borse