



# GM UNIVERSITY

(Established under the Karnataka State Act No. 19 of 2023)

Post Box no-4, PB Road, Davangere-577006

## Faculty and Staff Enrichment Center (FASEC)

### One-Day Faculty Development Program

On

“MATLAB for Signal Processing and Its Applications”

on 27/07/2024

Resource Person

**Dr. Rajashekhar B Somasagar**

Associate Professor

Department of ECE

GM University, Davangere.

Event coordinator

Ms. Deepika V B

Mrs. Veena H T

Assistant Professor

Verified By

Dr. Somashekhar G C

Head of the Department

Approved by

Dr. Prakash S V

IQAC-Director

Approved by

Dr. Praveen J

Dean-FASEC

Dr. H.D. Maheshappa

Pro- Vice Chancellor



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## Faculty and Staff Enrichment Center (FASEC)

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## Faculty and Staff Enrichment Center (FASEC)

Date: 25<sup>th</sup> July 2024

To,

Dr. Praveen J  
Dean-Faculty and Staff Enrichment Center (FASEC)  
GM Univeristy, Davanagere

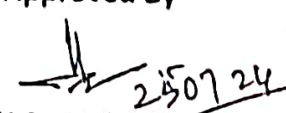
Respected Sir,

Sub: Requesting to conduct "Faculty Devlopment program"

Faculty Title	Faculty of Engineering and Technology
School Title	School of Engineering
Department	Department Electronics and Communication Engineering
Name of the Dean	Dr Prakash S V
Name of the Director	Dr Praveen J
Name of the Head	Dr Somashekhar G C
Theme of the Activity	Innovative Labs & Recent Tools
Name of the Activity	MATLAB For Signal Processing Applications
Proposed Date	27/07/2024
Proposed Time	11.00AM -1.00PM
Venue	VLSI Lab
Name of the Resource person	Dr Rajashekhar B Somasagar
Target Audience	ECE Faculty
Coordinator of the Event	Ms. Deepika V B(6362141497) and Mrs. Veena H T(8553352346)

  
Dr. Somashekhar G C  
Head of the Department

Verfled by  
  
Dr. Praveen J  
Dean FASEC

Approved By  
  
25/07/24  
Dr. H.D. Maheshappa  
Pro- Vice Chancellor

8/29/24, 10:15 AM

Fwd: Requested FDP approved from Faculty and Enrichment Center - deepikavb@gmit.ac.in - GM Institute of Technology, ...

Gmail

Q Search mail



- Compose
- Mail
- Inbox 1,554
- Starred
- Snoozed
- Sent
- Drafts 156
- More

Labels

Fwd: Requested FDP approved from Faculty and Enrichment Center



Dr. Somashekhar G C  
 to gmitecfaculty  
 Sir/ Madam  
 Greetings  
 Find approval letter from director  
 Regards  
 Hod ECE

----- Forwarded message -----

From: Dr Praveen J Director - School of Engineering - SE <dir.se@gmu.ac.in>  
 Date: Fri, Jul 26, 2024, 16:22  
 Subject: Requested FDP approved from Faculty and Enrichment Center  
 To: Dr. Somashekhar G C <somashekhar@gmit.ac.in>  
 Cc: VC GMU <vc@gmu.ac.in>, Pro VC GMU <pro-vc@gmu.ac.in>, Registrar GMU <registrar@gmu.ac.in>

Your request to conduct a Faculty Development Program on "MATLAB for Signal Processing Applications" on July 27th, 2024, from 11:00 AM to 1:00 PM has been approved by the Faculty and Enrichment Center. Please ensure that all faculty members attend the event without fail. Submit the complete report, as per the provided template, on or before August 1st, 2024.

Warm regards

**Dr. Praveen J**  
 Dean - Faculty and Staff Enrichment Center  
 Director - School of Engineering  
 GM University, Davangere  
 Ph: 8884767555



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## Faculty and Staff Enrichment Center (FASEC)

### Request Letter

Date: 20/07/2024

From,

The HOD,  
Department of ECE,  
GM University, Davangere.

To,

Dr. Rajashekhar B Somasagar,  
Associate Professor,  
Department of ECE,  
GM University, Davangere.

Respected sir,

Subject: Request to Serve as a Resource Person for One-Day FDP on MATLAB for Signal Processing and Its Applications on 27/07/2024.

I hope this message finds you well. On behalf of the Department of Electronics and communication Engineering at GM University, Davangere, I am writing to extend a cordial invitation to you to serve as a resource person for a one-day Faculty Development Program (FDP) on "MATLAB for Signal Processing and Its Applications" scheduled to be held on 27th July 2024 under the auspices of the Faculty And Staff Enrichment Center(FASEC). Given your extensive expertise and experience in the field of MATLAB and signal processing, we believe that your participation would greatly benefit our faculty members and contribute to the overall success of the program.

The FDP aims to provide an in-depth understanding of MATLAB's capabilities in signal processing and to explore various real-world applications. We are confident that your session would enhance the knowledge base of our faculty and foster further research and development in this crucial area. We would be honored if you could accept our invitation and contribute your valuable time and expertise to this event. Please let us know if the proposed date is convenient for you, and we would be happy to make any necessary arrangements.

Thank you for considering our request.

Yours sincerely,

The HOD,  
Department of ECE,  
GM University, Davangere.

Accepted  
D. Somasagar



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## Faculty and Staff Enrichment Center (FASEC) DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 27<sup>th</sup> July 2024

### CIRCULAR

It is hereby informed to all the faculties that, Department of Electronics and Communication Engineering conducting "1-day FDP on MATLAB For Signal Processing Applications" under Faculty and Staff Enrichment Center (FASEC) on 27<sup>th</sup> July 2024 from 11 am to 1 pm in VLSI Lab.

In this regard, it is hereby informed to all the faculties to attend the above mentioned FDP.

*Deepika.V.B*

Ms. Deepika V B/Mrs. Veena H T  
Coordinators

Dr. Somashekhar G C  
Head of the Department



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**Faculty and Staff Enrichment Center (FASEC)**  
Department of Electronics and Communication Engineering

## Invitation

We cordially invite you for the

**“One-Day FDP on MATLAB for Signal Processing and Its Applications under FASEC”**

**27<sup>th</sup> July 2024**

### Resource Person

**Dr. Rajashekhar B Somasagar**  
Associate Professor, Dept. of ECE  
GM University, Davangere

### **Organizing Chair:**

**Dr. Praveen J**  
Dean FASEC

### **Convener:**

**Dr. Somashekhar G C**  
Head of the Department

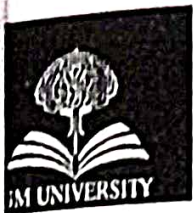
### Coordinators

**Ms. Deepika V B**  
Assistant Professor  
Dept. of ECE, GM University  
Davangere

**Mrs. Veena H T**  
Assistant Professor  
Dept. of ECE, GM University  
Davangere

**Venue: VLSI Lab, ECE Department**

**Date: 27<sup>th</sup> July 2024 Time: 11:00 AM to 1:00 PM**



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## Faculty and Staff Enrichment Center (FASEC) DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

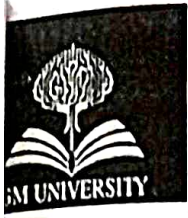
Date: 27<sup>th</sup> July 2024

### Registration Sheet

#### “1-day FDP on MATLAB For Signal Processing Applications”

Sl. No	Faculty name	Designation & Department
1	Dr. Somashekhar G C	HOD, ECE
2	Dr. Kavitha K J	Associate Professor, ECE
3	Dr. Vishwaraj	Assistant Professor, ECE
4	Mrs. Manjula B K	Assistant Professor, ECE
5	Mr. RavitejaBalekal	Assistant Professor, ECE
6	Mr. Harisha G C	Assistant Professor, ECE
7	Mr. Chetan B V	Assistant Professor, ECE
8	Mr. Sampath Kumar B	Assistant Professor, ECE
9	Mrs. Chaitra S N	Assistant Professor, ECE
10	Mr. Suprith P G	Assistant Professor, ECE
11	Mrs. Revathi S N	Assistant Professor, ECE
12	Mr. Santhosh B G	Assistant Professor, ECE
13	Mr. HanumanthRaju R K	Assistant Professor, ECE
14	Mrs. GayatriNarajji	Assistant Professor, ECE
15	Ms. Deepika V B	Assistant Professor, ECE
16	Mrs. Veena H T	Assistant Professor, ECE
17	Mrs. Sucharitha S D	Assistant Professor, ECE





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## Faculty and Staff Enrichment Center (FASEC)

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Sl. No	Faculty name	Designation
18	Mr. Arun Kumar B T	Assistant Professor, CSE
19	Mr. Santosh Kumar M	Assistant Professor, CSE
20	Mr. Kotreshi S N	Assistant Professor, CSE
21	Dr. B N Veerappa	Professor & HOD, CSE

  
Dr. Praveen J  
Dean FASEC

  
Dr. Somashekhar G C  
Head of the Department



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## Faculty and Staff Enrichment Center (FASEC) DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 27<sup>th</sup> July 2024

### Attendance Sheet

### "1-day FDP on MATLAB For Signal Processing Applications"

Sl. No	Faculty name	Designation	Signature
1	Dr. Somashekhar G C	HOD	
2	Dr. Rajashekhar Somasagar	Associate professor	
3	Dr. Kavitha K J	Associate Professor	
4	Dr. Vishwaraj	Assistant professor	
5	Mrs. Manjula B K	Assistant Professor	
6	Mr. Raviteja Balekai	Assistant Professor	
7	Mr. Harisha G C	Assistant professor	CL
8	Mr. Chetan B V	Assistant Professor	
9	Mr. Sampath Kumar B	Assistant professor	
10	Mrs. Chaitra S N	Assistant Professor	
11	Mr. Suprith P G	Asst. Prof	
12	Mrs. Revathi S N	Assistant professor	CL
13	Mr. Santhosh B G	Asst. prof	
14	Mr. Hanumanth Raju R K	Assistant professor	4 <sup>th</sup> Sem VTU External Examiner at UBDTCE
15	Mrs. Gayatri Narajji	Assistant professor	
16	Ms. Deepika V B	Assistant professor	
17	Mrs. Veena H T	Assistant professor	
18	Mrs. Sucharitha S D	Asst. Professor.	



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## Faculty and Staff Enrichment Center (FASEC) DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Sl. No	Faculty name	Designation & Dept	Signature
19	Anur Kumar B.T	Asst Prof, CSE	
20	Santoshkumar M	Asst Prof, CSE	
21	Kotreshi. S.N	Asst. Prof, CSE	
22	Dr. B.N. Verappa	Prof & HOD, CSE	
23			
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30			

Dr. Praveen J  
Dean FASEC

Dr. Somashekhar G C  
Head of the Department

Questions Responses **16** Settings

16 responses

 Link to Sheets



Accepting responses

Summary

Question

Individual

Email:

16 responses

kavithakj@gmit.ac.in

sampathkumarb@gmit.ac.in

vishwaraj@gmit.ac.in

chethanbv@gmit.ac.in

santhoshabg@gmit.ac.in

sucharithasd@gmit.ac.in

gayatrinarajji@gmit.ac.in

ravitejb@gmit.ac.in

manjulabk@gmit.ac.in

deepikavb@gmit.ac.in

Venaht@gmit.ac.in

suprithpg@gmit.ac.in

kotreshisn@gmit.ac.in

santoshkumarm@gmit.ac.in

chaltrasn@gmit.ac.in

veerappabn@gmit.ac.in

**Name:**

16 responses

Dr. Kavitha K J

Sampath Kumar B

Dr. Vishwaraj

Chetan B V

Santhosh

Sucharitha S D

Gayatri Narajji

Raviteja Balekai

Mrs. Manjula B K

Deepika V B

Veena H T

SUPRITH PG

Kotreshi SN

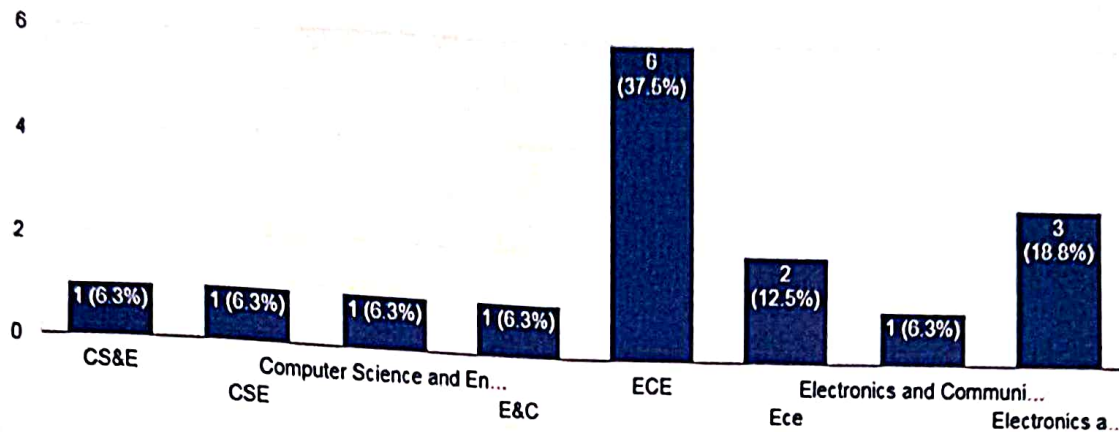
Santoshkumar M

Chaitra SN

B N Veerappa

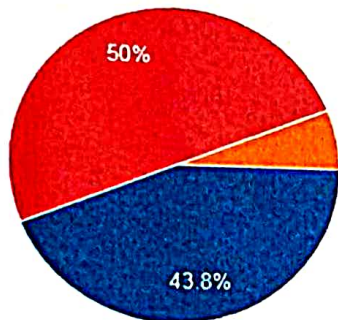
Department:

16 responses



1. How effective were the MATLAB demonstration sessions in helping you understand signal processing concepts?

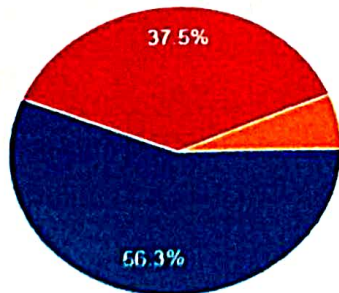
16 responses



- Very Effective
- Effective
- Somewhat Effective

2. How clear were the explanations of MATLAB functions related to signal processing provided during the FDP?

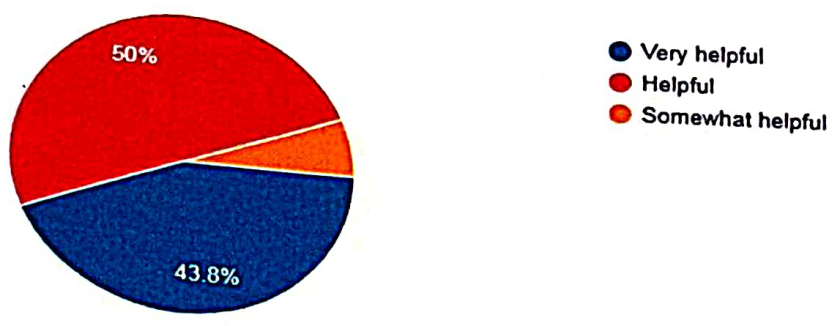
16 responses



- Very Clear
- Clear
- Somewhat Clear

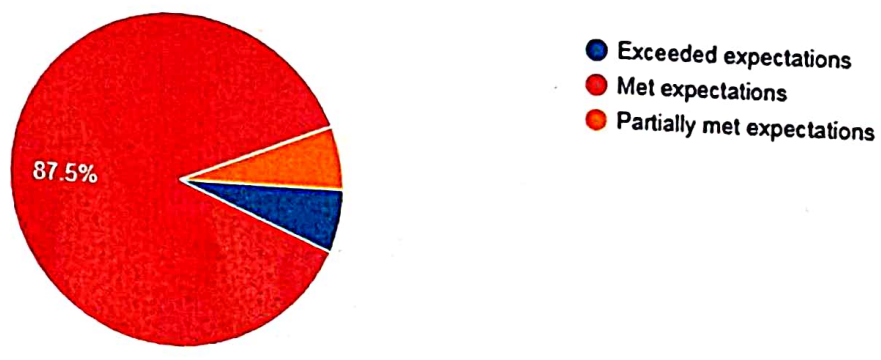
3. How helpful were the provided MATLAB examples in understanding practical applications?

16 responses



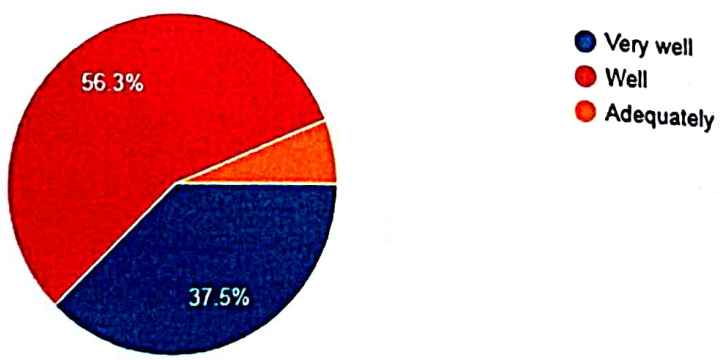
4. To what extent did the FDP meet your expectations for learning about MATLAB's applications in signal processing?

16 responses



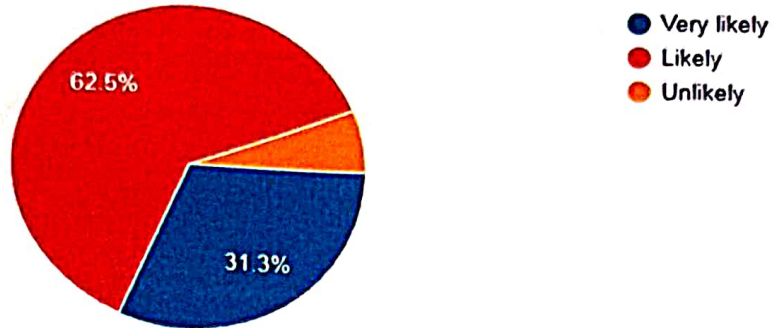
5. How well did the FDP address advanced topics in signal processing using MATLAB?

16 responses



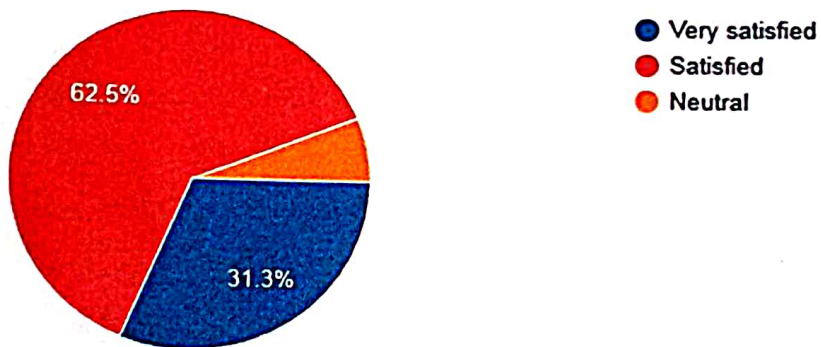
6. How likely are you to apply the MATLAB techniques learned in the FDP to your research or teaching activities?

16 responses



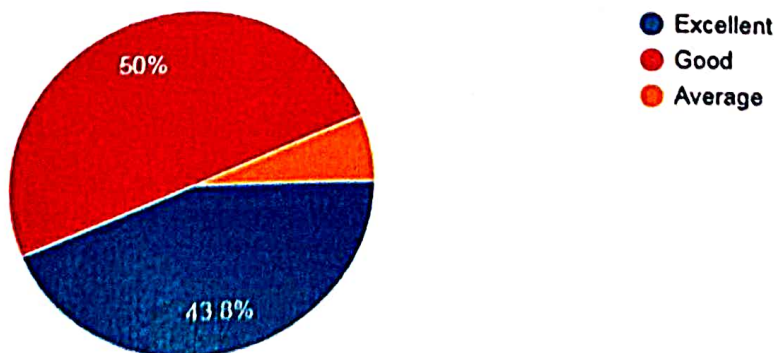
7. How satisfied are you with the duration of the FDP in covering the content?

16 responses



8. How would you rate the overall quality of the FDP on MATLAB for Signal Processing?

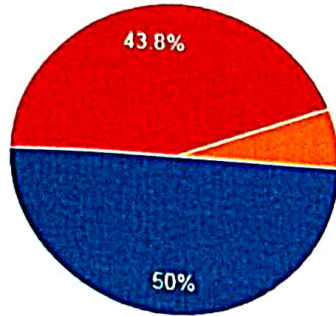
16 responses





9. How would you rate the presenter's ability to engage with participants and answer questions?

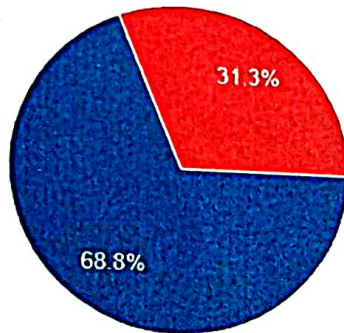
16 responses



- Excellent
- Good
- Fair

10. What aspect of the FDP would you most like to see improved for future sessions?

16 responses



- Hands-on practice
- Content depth
- Duration of the program



## Faculty and Staff Enrichment Center (FASEC)

### Report on One-Day FDP on MATLAB for Signal Processing and Its Applications

Date: 27-07-2024

Venue: VLSI Lab

Resource Person: Dr. Rajashekhar B Somasagar

Dean of FASEC: Dr. Praveen J

Organized by: Faculty and Staff enrichment center (FASEC), GMU, Davangere.

On July 27, 2024, the Faculty and Staff enrichment center (FASEC) organized a one-day Faculty Development Program (FDP) titled "MATLAB for Signal Processing and Its Applications" at the VLSI Lab. The event designed to enhance the technical skills of faculty members, was led by Dr. Rajashekhar B Somasagar, Associate Professor, Department of ECE, GMU, Davangere, a distinguished expert in signal processing. The FDP saw active participation from all faculty members of the Electronics and Communication Engineering (ECE) department, as well as faculty from other departments, with Dr. Praveen J, the Faculty Enrichment Director, also present to support and oversee the session.



Fig. 1: Dr. Rajashekhar B Somasagar Introducing MATLAB for Signal Processing

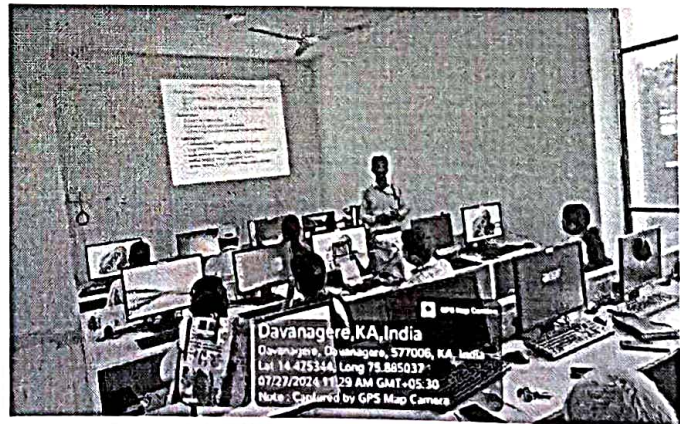
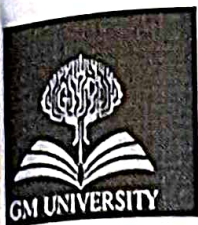


Fig. 2: Dr. Rajashekhar B Somasagar Discussing Advanced Signal Processing Techniques

The FDP began with a comprehensive introduction to MATLAB's capabilities in signal processing. Dr. Somasagar provided an in-depth overview of MATLAB's interface, focusing on its signal processing toolbox. The session covered fundamental topics such as signal acquisition, Fourier Transforms, and digital filtering. Dr. Somasagar employed demonstrations to illustrate these concepts, allowing participants to observe MATLAB's functionality in action. This segment was designed to establish a solid foundation for the faculty, many of whom were new to MATLAB or needed a refresher on its signal processing capabilities.

The program transitioned to more advanced topics in signal processing. Dr. Somasagar explored sophisticated techniques such as adaptive filtering, time-frequency analysis, and real-time signal



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## Faculty and Staff Enrichment Center (FASEC)

processing. Through case studies and examples, he demonstrated how these advanced methods can be applied to solve complex problems in research and industry. This segment provided participants with insights into the latest developments in signal processing and illustrated how these techniques can be integrated into their academic and professional work.



**Fig. 3: Participants Engaged in MATLAB Demonstrations**

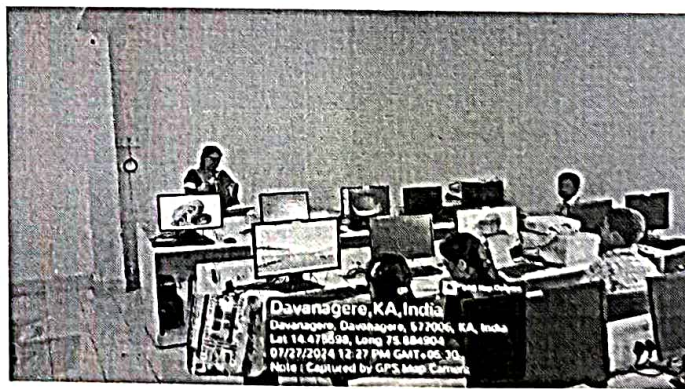


**Fig. 4: Group Photo of FDP Participants and Resource Person**

The FDP organized by FASEC, was a resounding success. Dr. Somasagar's expertise and engaging presentation significantly contributed to the enrichment of the faculty. The skills and knowledge gained from the session are expected to enhance the teaching and research capabilities of the participating faculty members, fostering a deeper understanding of MATLAB's signal processing applications.



**Fig. 5: Interaction with participants**



**Fig. 6: Vote of Thanks by Organizing committee**

In conclusion, the one-day FDP on "MATLAB for Signal Processing and Its Applications", held on July 27, 2024 was highly successful, thanks to Dr. Rajashekhar B Somasagar's expert guidance and Dr. Praveen J's support. Participants gained valuable insights into both fundamental and advanced MATLAB techniques, significantly enhancing their technical skills. The program effectively achieved its goals of faculty enrichment and professional development, fostering a stronger foundation in signal processing for all attendees.