

About RCASC

Dr. M S Ramaiah, a visionary and philanthropist established "Gokula Education Foundation (GEF)", in the year 1962, to deliver education and healthcare for the betterment of mankind. Under the tutelage of GEF, Ramaiah college of Arts, Science and Commerce (RCASC) was established in 1994. RCASC is Re-accredited with "A" Grade by NAAC, permanently affiliated to Bangalore University (BU) and Bengaluru Central University, and approved by AICTE.

About the Department

The department was conventional in the year 2008, now offering under graduate course BSc in Electronics. The has well established spacious laboratories with advanced Electronic calibration systems with qualified faculties to provide good lab facility. The course syllabus followed BOS Electronics prescribed by the Bengaluru City University. The Department was recognized under DBT Star college Scheme-2020, Under these scheme various training courses is engaging in every year to prepare individuals who are technically sound and capable of fitting into the modern IT and Electronics environment in the present industry scenario.

About Training Program

- Students are capable to understand the concept of signal processing
- Students are understanding the simple mat lab code for signal processing
- Interaction with mat lab environment
- Caple to write simple mat lab code for signal processing
- Each student will get the online course completion certificate from math work training service.



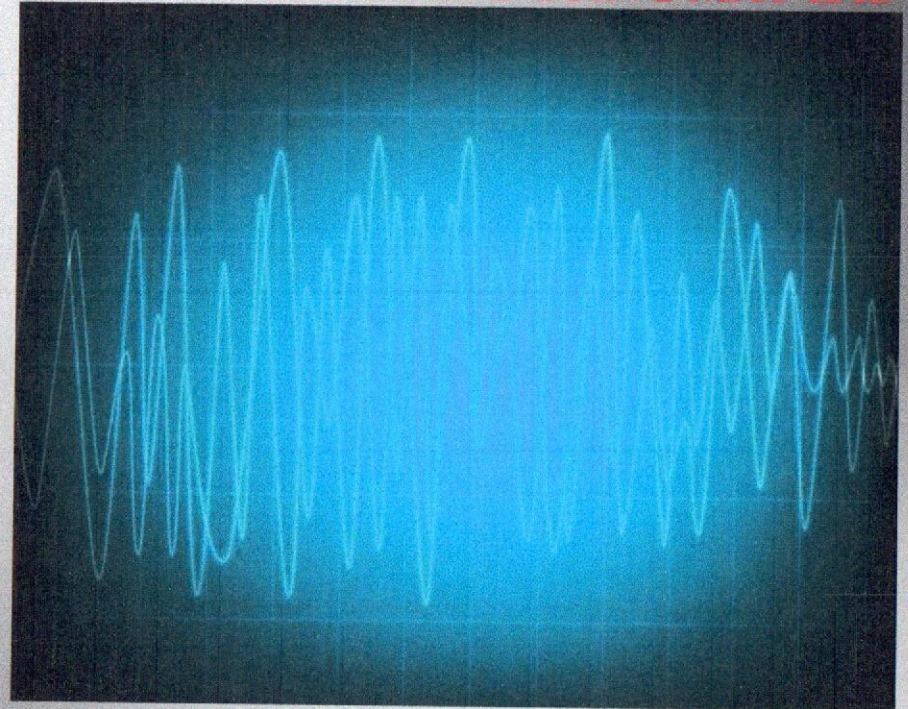
RAMAIAH

College of Arts, Science &
Commerce



(Under DBT Star College Scheme)

Two Day Hands on Training Course for "SIGNAL PROCESSING USING MAT LAB"



24/05/2022 to 25/05/2022.

Organized by:

Department of Electronics
(Under DBT Star college scheme)

M S Ramaiah college of Arts, Science and Commerce, Bangalore – 560054



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M S Ramaiah College of Arts, Science and Commerce

Re-accredited 'A' by NAAC, Permanently Affiliated to Bengaluru City University,

Approved by Government of Karnataka, Approved by AICTE, New Delhi,

Recognized by UGC under 2f & 12B of UGC act 1956



(National Institutional Ranking Framework, Ministry of Education, Govt of India)

Ranked 62nd in NIRF India Ranking by MHRD, New Delhi

DBT Star College Scheme

MSRCASC/ELE_HT/2021-22/06

Date: 20/05/2022

CIRCULAR

The Department of Electronics is conducting Two Day Hands on Training Course for **"SIGNAL PROCESSING USING MAT LAB"** for all the second Year EMCs students from 24/05/2022 to 25/05/2022. The interested candidates can register your name in the Electronics Department.

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HOD

HEAD OF THE DEPARTMENT
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M. S. Ramaiah College of
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M.S.R. Nagar, Bangalore-560 054.

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Department of Electronics

Report: Hands on Training Course for "SIGNAL PROCESSING USING MAT LAB"

Place: Electronics LAB

The Department of Electronics is conducting Hands on Training Course for "SIGNAL PROCESSING USING MAT LAB" for all the second Year EMCs students from 24/05/2022 to 25/05/2022.

Faculty in charge:

Mrs. Asharani. R
Assistant professor
Department of Electronics
MSRCASC

Objective:

- Students are capable to understand the concept of signal processing
- Students are understanding the simple mat lab code for signal processing
- Interaction with mat lab environment
- Caple to write simple mat lab code for signal processing
- Each student will get the online course completion certificate from math work training service.

Facilities available:

- In this laboratory there are sufficient number of working computers with uninterrupted internet service, so that the students can work comfortably.
- Instruction material for matlab code

Mrs. Asharani explains the significance of signal processing in the field of electronics. all the naturally generated signals are analog signals it is very important to process that signals. For example, the FM radio signal, sound signal which is coming from audio devices. Signal processing is the process of analysing and extracting information from the signal. Signal processing involves converting the signal into another form. It helps to analyze the signal which including data, image, audio or video...etc. the signal processing involve the processing of signal



purely analog domain. The signal processing which involving summing of two signal, calculating the power spectrum of signal which is required for further data processing and circuit designing in communication. The signal processing applied in the following fields

- Audio and video compression
- Speech recognition and processing
- Data transmission
- Error detection and correction
- Medical signals like EEG, ECG and EMG signal processing
- Medical image processing like MRI
- Data acquisition
- RADAR, SONAR, LiDAR
- Signal compression

In this workshop we are using mat lab to process signal. MATLAB provides a individual commands to process the signal. When we open the MATLAB, command window is appearing there we can use commands to process the signal or we can use M file also to edit the code in the MATLAB environment. But in this workshop online onramp platform we used to execute the code and for demonstration. All the students analyzed and leaned the matlab commands to process the signal and they can capable to perform basic signal processing operations like summing two signal, noise addition, calculating power spectrum and scaling of signal, plotting of signal with title. Filtering of signal, sampling of signal....ect. the students can be able to write simple matlab code for signal processing.

Outcome:

In this workshop students learned about mat lab code for signal acquisition, plot, interference of random noise in the signal, scaling of signal, creating scalogram. Calculating power spectrum of a given signal, creating spectrogram. Designing of simple low pass filter and high pass filter using MATLAB code in MATLAB environment.

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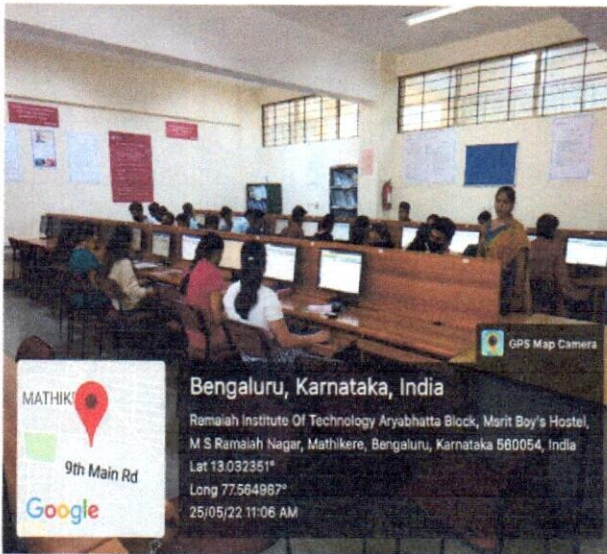
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Photos of HTC on "SIGNAL PROCESSING USING MAT LAB"



students participation in the workshop on signal processing using MATLAB

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DBT Star College Scheme

Department of Electronics

Participants list from 24/05/2022 to 25/05/2022(4TH SEM BSc EMCs)

Sl.no		NAME	STUDENT SIGNATURE
1.	S2014618	AKHILESH K	
2.	S2014619	AKSHAY KUMAR D R	
3.	S2014620	B R SASHAANK	
4.	S2014622	DEEPA G	
5.	S2014623	DEEPAK M	
6.	S2014628	HARIHARAN N S	
7.	S2014629	INDRA D	
8.	S2014631	KOUSHIK S	
9.	S2014632	M YATHISH	
10.	S2014633	MIHIR A DIWAKAR	
11.	S2014636	NISARGA H S	
12.	S2014637	NISHA A N	
13.	S2014639	PAVITHRA N	
14.	S2014640	PRAVEEN P M	
15.	S2014641	R DHANUWANTH KUMAR	
16.	S2014642	RAKSHITH GOWDA G	
17.	S2014643	RUCHITHA V	
18.	S2014645	SANTHOSH YADHAV N	
19.	S2014647	SPOORTHI N	
20.	S2014648	SURABHI PRASAD	
21.	S2014650	V LAKSHMI	
22.	S2014653	VENKATESHWARA PRASAD K N	
23.	S2014654	YESHWANTH C R	
24.	S2014617	A LIKITHA	
25.	S2014625	DISHA HEGDE	
26.	S2014655	VINOD KUMAR B TALWAR	
27.	S2014627	GREESHMA K JOSHY	

Faculty in charge

(ASHARANI R)

HOD

HEAD OF THE DEPARTMENT

Department of Electronics

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Course Completion Certificate

Vinod kumar Talawar

has successfully completed **100%** of the self-paced training course

Signal Processing Onramp



DIRECTOR, TRAINING SERVICES

25 May 2022