



# ST FRANCIS DE SALES COLLEGE

Permanently Affiliated to Bangalore University | Electronics City, Bengaluru - 100

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A FRANSALIAN INSTITUTE OF HIGHER LEARNING

## A report on workshop on Research in signal Processing

**Dept:** Department of Science and IP, research cell

**Date:** 5<sup>th</sup> -6<sup>th</sup> August 2019

**Venue:** Business lab/ Electronics Lab

### Resource Persons:

Dr. Naveenkumar R., Assistant professor, Ramaiah College of Arts, Science and Commerce, Bangalore

Mr. M. Meganadhan, Dept. of Mathematics, Sacred Heart College, Tripattur

Prof. Smrutee Markhedkar, St. Francis de Sales College

Prof. Senthil kumar, St. Francis de Sales College

A two day workshop on Research in signal Processing was conducted by Department of Science in association Research Cell , St. Francis de sales college on 5<sup>th</sup> – 6<sup>th</sup> August 2019. The workshop was intended to make the participants to understand recent development in research in the field of signal processing. The workshop was conducted for undergraduate students. At the conclusion of the workshop, students are tested on their knowledge, and top scorers are awarded with certificate and memento.

The workshop focused on the following aspects:

- Introduction to signal processing
- Principles of Transforms in signal Processing
- Applications of signal Processing & recent research advances
- Practical implementation

All of these concepts and contents were explained to the participants through six technical sessions in two days with eminent and experienced resource persons.



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**Day One: 05-08-2019**

**Inaugural session**

The two day workshop started with a short inaugural session. The inaugural session commenced at 09.30 am. Prof. Smrutee Markhedkar briefed the profile of the chief guest and resource person for the post lunch sessions (Technical session 1 and 2). Dr. Naveenkumar R., Assistant professor, Ramaiah College of Arts, Science and Commerce, Bangalore. The resource person is a budding researcher in Electronics. Dr. Naveen have published research papers on signal processing in leading journals. Fr. Dr. Roy P.K., Principal and Vice Principal Fr. Jijo Jose were also present in the inaugural session.

Ms. Maya Mathew gave an overview of the two day workshop. Prof. Roshini Anne Koshy delivered the vote of thanks. Later on the resource person took over the session.

**Technical session 1(10:00am- 11:15 am): Introduction to signal processing**

The session started immediately after the inaugural session. Dr. Naveen took over the session. The resource person gave a detailed introduction to signal processing. This session dealt with application of signal processing, present trends in signal processing research and its future scope. The session followed a tea break.

**Technical Session 2 (11.30am to 1.00pm): Signal Processing research**

Dr. Naveen continued with the post tea break session on Signal Processing research. Dr. Naveen explained various areas of specialisation in signal processing. A detailed outlook onto Digital signal processing and image processing was given to the participants. The session proved to be very effective.

At the end of the session, Prof. Maya Mathew, Asst. Professor, Department of Science thanked and felicitated Dr. Sanjeev. Later on, adjourned for lunch break.

**Technical session 3 (1.30pm to 3.00pm): Hands on session**

The post lunch session was conducted by Prof. Smrutee Markhedkar, Asst. Professor, and Department of Science. A test based on the sessions conducted was given and review of the sessions was done.



**Day 2: 06-08-2019**

**Technical session 4 (9.30am to 11.15am): Applications of Transforms**

The second day of the workshop started with the technical session 4. The resource person for this session was welcomed and introduced by Desalite Dharshan Kumar M V. Mr. Meganathan was the resource person for the session. Mr. Meganathan is from department of Mathematics, Sacred Heart College, Tripattur. A keen researcher in the field of discrete frontier transforms has published many papers in leading journals. This session covered the applications of transforms in signal processing. The resource person explained the how the research in signalling can be benefitted through research and development in the area of transforms. Later on a tea break was given.

**Technical session 5 (11.30pm to 1.00pm): Transforms in signal processing**

The post tea break session continued with a session on transforms in signal processing. The resource person well explained Frequency via the DFT/FFT along with hands on practice by the participants.

**Technical session 6 (1.30pm to 4.00pm): Test and Review**

The post lunch session was conducted by Prof. Senthil Kumar, Asst. Professor, Department of Science. A test based on the sessions conducted was given and review of the sessions was done.

**Valedictory Session (4.00pm to 4.30pm)**

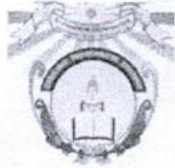
The technical session 6 was immediately followed by valedictory session in which the certificates for the participants were distributed and the concluding remarks were made. The resource persons were felicitated and thanked. The feedback from the participants was collected.



Co-ordinator  
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St Francis de Sales College  
Electronics City Post, Bangalore - 560 100.



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ATTENDANCE LIST

SL.NO	NAME	ROLL NO	Signature
1	ABHIJITH P SURESH	19NCS85001	Abhijith
2	ABHINASH SHAILESH M	19NCS85002	Abhinash
3	ABIRAMI V	19NCS85003	Abi
4	ALEX ROBINSON A	19NCS85004	Alex
5	ARAVINTHA JINESH B S	19NCS85005	Aravintha
6	BOOMIKA M G	19NCS85006	Boomika
7	CHAITHRA K	19NCS85007	Chaitra
8	D BHUVANESHREE	19NCS85008	Bhuvaneshree
9	DHARUN VIJAY R	19NCS85009	Dharun
10	FLORINA JOSEPH	19NCS85010	Florina
11	GURUKIRAN R	19NCS85011	Gurukiran
12	HARSHITHA B S	19NCS85012	Harshitha
13	JAGADISHWAR REDDY S	19NCS85013	Jagadishwar
14	JANHAVI M	19NCS85014	Janhavi
15	JASHWANTH L	19NCS85015	Jashwanth
16	JAYASHREE R	19NCS85016	Jayashree
17	JENSON JOSHY	19NCS85017	Jenson
18	JOEFERNANDES N	19NCS85018	Joefern
19	JOEL SHIJU	19NCS85019	Joel
20	JOYAL V ALEX	19NCS85020	Joyal v Alex
21	KARTHIK S	19NCS85021	Karthik
22	KOMALA M	19NCS85022	Komala
23	MADHUSHREE M	19NCS85023	Madhushree
24	MADHUSUDAN P K	19NCS85024	Madhusudan
25	MATHEW ALAN X	19NCS85025	Mathe

