

## ABOUT FDP

Prof. Alan V. Oppenheim stated that "There will always be signals, they will always need processing, and there will always be new applications, new mathematics, and new implementation technologies." Signal Processing is ubiquitous nowadays and it is the science behind our digital life today. Behind every processing, there underlies an interesting math, indeed. This FDP will give the fundamental insight into the required mathematics to model today's communication and signal processing technologies.

## COURSE OBJECTIVES

- To develop strong basics in mathematical concepts for understanding communication and signal processing theory.
- The course covers the mathematical foundation needed to understand the various signal processing techniques.

## COURSE CONTENTS

- Linear Algebra
- Probability and Random Process
- Abstract Algebra
- Multi-rate signal processing
- System Modelling
- Homomorphic Signal Processing
- Graph Theory
- Transforms in Signal Processing

**Chief Patron:** - Prof. P.O.J. Lebba  
(Secretary, MES)

**Patron:** - Dr. K. P. Mohammed  
(Director, MESCE)  
Dr. Varadarajan A.S.  
(Principal, MESCE)

### Convener

Dr. A Gopakumar, HOD, ECE

### Co-ordinators

Dr. Shaeen K., Assistant Professor, ECE  
Mr. Edet Bijoy K, Assistant Professor, ECE

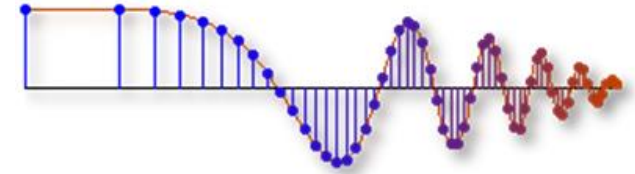
## RESOURCE PERSONS

Dr. Shayan G. Srinivasa,  
Dept. of Electronic Systems Engineering  
Indian Institute of Science Bangalore  
Dr. Elizabeth Elias,  
Professor, ECED, NIT Calicut  
Dr. Deepthi P.P,  
Associate Professor, ECED, NIT Calicut  
Dr. Murali Krishnan,  
Associate Professor, CSED, NIT Calicut  
Dr. Sudeep K.S,  
Assistant Professor, CSED, NIT Calicut  
Mr. Rajeev Kumaraswamy,  
Consultant - Computer Vision, Machine  
Learning and Analytics, Trivandrum  
Dr. Rajan Babu,  
Professor, EEED, MESCE  
Dr. Anzar S.M,  
Associate Professor, AEID, MESCE

## Faculty Development Programme on

## Mathematics for Communication and Signal Processing

8 - 12 January 2018



Sponsored by

APJ Abdul Kalam Technological University  
Kerala

Organized by



Department of Electronics & Communication  
Engineering  
MES College of Engineering Kuttippuram

### **MES ENGINEERING COLLEGE**

M.E.S College of Engineering Kuttippuram the first private Engineering College established under the self financing sector in Kerala is situated on the beautiful and serene banks of Bharathapuzha. It was established as an institution with minority status in 1994. Widely acknowledged as one of the premier institutions imparting technical education in the state, the college offers admission to all categories of students with special consideration to educationally backward communities. At present college offers eight undergraduate programmes including Btech, BArch and ten post graduate courses in M Tech, MCA, MBA and M Arch. Nearly 3000 students study here under the guidance of over 240 qualified faculty members and research guides. Dept. Of ECE is a approved research centre of APJ Abdul Kalam Technological University.

### **ECE DEPARTMENT**

The department started functioning right from the inception of the college in 1994. Currently Dept offers B Tech Electronics and Communication Engineering consisting of 2 batches and a post graduate program in Communication Engineering and Signal Processing, started in the year 2012. The department is accredited twice by NBA in the years 2004 and 2009. The B-Tech, M-Tech and PhD Degree offered by the Department follows the curriculum and syllabi as well as the rules and regulations of the University of Calicut and APJ Abdul Kalam Technological University.

### **ELIGIBILITY**

Faculty members from KTU affiliated Engineering Colleges with relevant background.

### **REGISTRATION**

Since the FDP is funded by APJ Abdul Kalam Technological University, there is no course fee for participation.

### **HOW TO APPLY - SCHEDULED DATES**

The registration form is available in the website or can be downloaded from college website.

**Last date for Online Reg. : 01 – Jan - 2018**

**Intimation of selection : 03 - Jan - 2018**

**Confirmation from the participants :**

**05 – Jan - 2018**

**Filled in application form may be sent by post / Email to :**

Dr. A Gopakumar,  
Professor and Head,  
Dept. of Electronics and communication  
Engineering  
MES College of Engineering,  
Thrikkanapuram PO, Malappuram ,  
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### **APPLICATION FORM**

#### **FDP on Mathematics for Communication and Signal Processing**

1. Name :
2. Designation :
3. Educational Qualification :
4. Name of the Institute :
  
5. Address for Communication :
  
- Email :
- Mobile :
6. Professional Experience :  
Teaching :  
Industry :
7. Accommodation needed: Yes/No

#### **Declaration:**

The information furnished above is true to the best of my knowledge.

Date:

Place:

Signature of the Applicant

Mr./Ms./Dr. \_\_\_\_\_ is an employee/student of our institute. He / She will be permitted to attend the programme if selected.

Date:

Place:

Signature & Seal  
Head of Organization