

## Registration Details

Students : 350/- [IEEE Members]  
: 400/- [Non-IEEE Members]  
Academicians : 500/- [IEEE Members]  
: 600/- [Non-IEEE Members]  
Industry Personnel : 750/-

- Registration charges include Workshop Kit, certificate of Participation, Lunch and High-tea.
- Interested participants are requested to fill the accompanying form and send the same to the workshop coordinators.
- Registration fee will be accepted only by Demand Draft drawn in favor of "Syed Ammal Engineering College", payable at Ramanathapuram along with the completed application form.

## Travel and Accommodation:

Participants are requested to make their own arrangements for travel and accommodation.

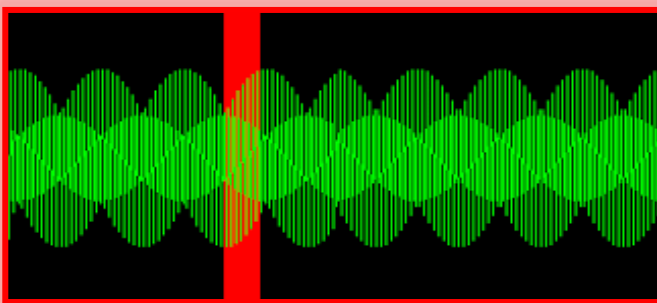
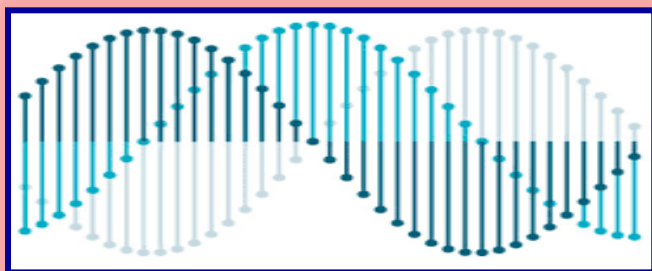
## Last Date for Registration

On or before 7<sup>th</sup> September, 2017



## All Correspondence to be addressed to Workshop Co-coordinators,

National Level One-Day Workshop on IMSPDC,  
Department of Electronics and Communication Engineering,  
Syed Ammal Engineering College,  
Ramanathapuram, TamilNadu, India.  
Mobile : +91 9842072052  
Email: [ecehod@syedengg.ac.in](mailto:ecehod@syedengg.ac.in)



## Organizing Committee

### Chief Patron

**Dr. Chinnadurai Abdullah,**  
Correspondant,  
Syed Ammal Engineering College.

### Patron

**Dr. P.Marimuthu**  
Principal,  
Syed Ammal Engineering College.

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**Dr. R. Dhanasekaran,**  
Director- Research,  
Syed Ammal Engineering College.

### Co-Convenors

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Vice Principal, SAEC

**Dr. G. Mahendran**  
HOD, Department of ECE,SAEC

### Co-ordinators

**Dr. N. Kirubananthasarathy, Prof./ECE**  
**Mr. B. Ramasubramanian, AP/ECE**  
**Mr. G. Arunmani, AP/ECE**

### Co-Coordinator

**Mr. P. Ravivarma, AP/ECE**  
**Mr. K.P. Sathyaprakash, AP/ECE**  
**Mr. B. Babu Mohan, AP/ECE**



**Syed Ammal Engineering College**  
Ramanathapuram-623502

## One Day National Level Workshop

On  
**Importance of  
Multirate Signal Processing  
for  
Digital Communications**

**9<sup>th</sup> September 2017**



In Association with  
**IEEE Communications Society**  
**IEEE Product Safety Engineering Society**  
Madras Chapter



Organized by  
**Department of  
Electronics and Communication Engineering**  
SAEC



**Syed Ammal Engineering College**  
Ramanathapuram-623502

**One Day National Level Workshop**  
On  
**IMSPDC**  
**9th September 2017**

**Registration Form**

Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Department : \_\_\_\_\_

Year/Semester: \_\_\_\_\_

Name of the Institution: \_\_\_\_\_

Address for Communication: \_\_\_\_\_

Mobile Number: \_\_\_\_\_

Email : \_\_\_\_\_

**Payment Details:**

Amount Rs. \_\_\_\_\_ DD No: \_\_\_\_\_

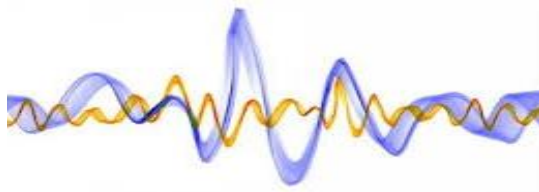
Date: \_\_\_\_\_ Bank: \_\_\_\_\_

Signature of the Participant

Signature of Head of the Organization/Institution

**About Workshop**

The aim of this workshop is to deliver the fundamental concepts of Signal Processing, communication and Multirate Signal Processing. Multirate systems are building blocks commonly used in digital signal processing (DSP). Their function is to alter the rate of the discrete-time signals, which is achieved by adding or deleting a portion of the signal samples. Multirate systems play a central role in many areas of signal processing, such as filter bank theory and multi resolution theory. They are essential in various standard signal processing techniques such as signal analysis, denoising, compression and so forth.



**Topics Covered**

**Multirate Signal Processing**

- **Decimation**
- **Interpolation**
- **Cascading Sample Rate Converters**
- **Multistage implementation of Sampling Rate Conversion**
- **Introduction and applications of adaptive filtering to equalization.**

This section brief about the two basic operations in Multirate signal processing; down sampling and Up sampling process and their importance. Realization of Efficient Transversal Structure, Polyphase Structure of Decimation and Interpolation.

**Resource Person**

**Dr. V. Jayaprakasan, M.E., Ph.D (JNTUA)**  
**Chairman – IEEE Product Safety Engineering Society**  
**Treasurer – IEEE Communications Society**  
**Madras Chapter**  
**Professor,**  
**Department of Electronics and Communication Engg.**  
**SITAMS - Autonomous, Chittoor, Andhra Pradesh.**

**About SAEC**

**Syed Ammal Engineering College**, Ramanathapuram is one of the best self-financing engineering colleges started in 10.7.1998 with a view to serve the youths of this remote under developed regions of our nation by offering quality technical education by Dr. E.M. Abdullah, M.B.B.S., through Syed Ammal Trust. Dr.E.M. Abdullah has been a great academician himself and a strict disciplinarian. By his tireless efforts, he brought up all his educational institutions with high standard and utmost discipline, which has been paving the way for getting best results in the government and in the university. Even after his demise, he has left the legacy of educational service to be continued with more vigour and seriousness. So, he has formed a trust named after his beloved mother “Syed Ammal” and made his wife, sons and daughters members of the trust in order to keep up the spirit of service in the field of medicine and education.

**About Department**

The department with its excellent infrastructure and experienced faculty has been greatly successful in bringing out the talents of the young minds, moulding and guiding them in the right path. Practical hands on training during the course of study are greatly Stressed, so that the students acquire knowledge about the industry and its growing needs.

**Department Vision:**

“To contribute the quality Engineers to the society by making students powerful and employable in Electronics, Communication and Computer technologies.”

**Department Mission:**

- To enhance the quality of education in Electronics and Communication Engineering.
- To empower the students to gain innovative ideas by inculcating them with curricular and co-curricular activities.
- To train the students in developing intellectual excellence with ethical values to meet the global challenges.