

### REGISTRATION:-

Limited seats are available. The Registration will be made available on first come first serve basis to 40 participants. Candidate shall post/email the enclosed application form along with the D.D. details to the address mentioned below, **on or before 28/01/2015.**

### REGISTRATION FEE:-

**Academicians/Industry Persons :-Rs.2000/-**  
**Research scholars / PG students :-Rs.1500/-**

The Registration Fee can be paid through a Demand Draft drawn in favour of **"Principal, SAE (Kondhwa) (C/A No.51), Pune"** payable at Pune.

### ACCOMMODATION:-

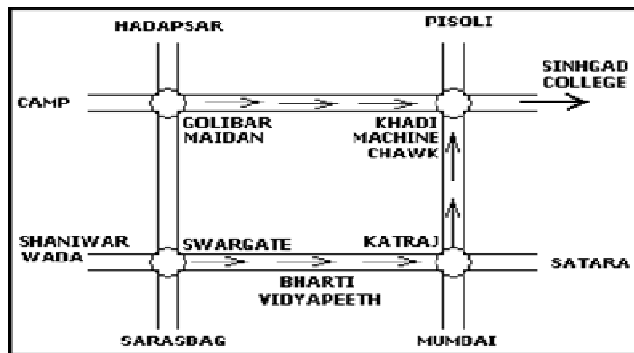
Limited accommodation will be provided to the participants in college hostel, strictly on first-come first-serve basis. Private lodging can also be made available in the nearby area with nominal charges as applicable.

No TA/DA will be paid to the participants.

### STTP VENUE:-

Seminar Hall, E&TC Dept. Sinhgad Academy of Engineering, Kondhwa (Bk.), Pune and Research Lab for Practical Sessions.

### LAYOUT PLAN:-



### CHIEF PATRONS

**Prof. M. N. Navale**  
Founder President, STES

**Dr. Mrs. S. M. Navale**  
Founder Secretary, STES

**Prof. S. N. Navale**  
Vice-President (Emeritus), STES

**Mr. Rohit M. Navale**  
Vice President (HR), STES

**Mrs. Rachna M. Navale-Ashtekar**  
Vice President (Admin), STES

### ACADEMIC Advisory COMMITTEE

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Dean, Faculty of Engineering  
SPPU Pune

**Dr. D. S. Bormane**  
Chairman BOS (Electronics)  
SPPU Pune

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Director Engineering, STES

**Dr. V. M. Wadhav**  
Principal, SAE Kondhwa

**Dr. A. V. Deshpande**  
Principal, SKNCOE

**Dr. S. D. Lokhande**  
Principal, SCOE

**Dr. M. S. Gaikwad**  
Principal, SIT

**Dr. S. N. Mali**  
Principal, SITS

**Dr. S. D. Markande**  
Principal, NBNCOE

**Dr. Janhavi Inamdar**  
Principal, SKNSITS

**Dr. C. B. Bangal**  
Principal, RMD SCOE

**Dr. K. P. Patil**  
Vice Principal, SAE Kondhwa

### CONVENOR

**Prof. M. M. Sardeshmukh**, HOD E&TC Engg.

### COORDINATORS

**Dr. R. P. Borse**

**Mr. A. B. Ingole**

### ORGANIZING COMMITTEE

Dr. Mrs. J. P. Shinde  
Prof. Mrs. S. H. Rajput  
Prof. D. K. Kamat  
Prof. Mrs. M. M. Patil  
Prof. V. D. Bharate  
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Prof. Mrs. K. N. Jagtap  
Prof. Mrs. A. K. Patel  
Prof. S. M. Kasar  
Prof. Mrs. S. S. Phule



A  
**State Level One Week**  
**Short Term Training Program**  
On  
**WAVELET AND ITS**

**APPLICATIONS IN SIGNAL AND**  
**IMAGE PROCESSING**

**04<sup>th</sup>Feb to 08<sup>th</sup> Feb 2015**

Sponsored by  
**Savitribai Phule Pune University**

Organized by  
**Department of E&TC Engineering**

**STES's**  
**Sinhgad Academy of Engineering,**  
**Kondhwa, Pune-48.**

S. No. 40/4A, Near Octroi Post,

**Kondhwa Saswad Road**

**Pune - 411048, Maharashtra, INDIA**

**TEL : 020-26934441; FAX :020-26934297.**

[www.sinhgad.edu](http://www.sinhgad.edu)

## ABOUT THE INSTITUTE

Prof. M. N. Navale established Sinhgad Technical Education Society in the year 1993 with the aim of imparting Quality Engineering Education. More than 117 model Institutions under the society are imparting education spanning from nursery levels to doctoral level, covering multifarious disciplines. Sinhgad Technical Education Society's Sinhgad Academy of Engineering, Pune was established in 2005 and has become synonymous with Quality Engineering Education. This bears a shining testimony to the magnitude of Prof. M. N. Navale's vision and relentless pursuit for excellence. This institute is approved by All India Council for Technical Education [AICTE], DTE and is affiliated to the SP Pune University.

## ABOUT THE INSTITUTE

Electronics and Telecommunication Engineering is an important branch of Engineering. Particularly in globalization era, it has to play very important role of communicating with the world. **The department is accredited by National Board of Accreditation (NBA).** It presently has an intake of 180 students for UG Programme. We also offer 2 post graduate programmes(PG) with specialization in Digital Systems and Embedded & VLSI Systems with an intake of 18 each. The department also plans for a research center in near future. Department has various well equipped laboratories including Research, PG, Comm., Signal Processing, Embedded system etc. Every year department organizes various knowledge enhancement programs like STTP, workshops, VAP, conferences, seminars. Six patents have been filed by the faculty members. Many faculty members are working on research projects funded by University and other agencies. Presently, research projects of more than Rs. 14 lacs are in progress.

## OBJECTIVE OF THE WORKSHOP

The objective of this short term training program is to train Faculties and PG students into the concepts, principles and practice of wavelets as regards signal processing.

## RESOURCE PERSONS

1. **Dr. Aditya Abhyankar**, Professor and Dean, Department of Technology, SP Pune University, Pune.
2. **Dr. Manesh Kokare**, Associate Professor, E&TC Engg. Dept., SGGSJET, Nanded.
3. **Dr. Vishwas Udpikar**, Wavelet Group, Pune.
4. **Dr. Krishna Warhade**, Professor, MITCOE, Pune.
5. Other eminent personalities from academics and Industry.

## COURSE CONTENTS

| Day                            | Topics   |
|--------------------------------|--|
| 4 <sup>th</sup><br>Feb<br>2015 | Fundamentals of Signal and Image Processing, Filter Bank Theory, Linear Algebra and Vector Spaces.<br><b>Dr. Aditya Abhyankar</b>  |
| 5 <sup>th</sup><br>Feb<br>2015 | Wavelet Fundamentals, CWT and DWT Wavelets for 1-D and 2-D Signals & implementation, Hands on Session on Implementation of 2-band Wavelet.<br><b>Dr. Manesh Kokare</b>   |
| 6 <sup>th</sup><br>Feb<br>2015 | Multiresolution Analysis and Applications, M-Channel and Rotated Wavelet, Wavelet Applications, Hands on Session on Implementation of M-band Wavelet.<br><b>Dr. Manesh Kokare Dr. Vishwas Udpikar</b>  |
| 7 <sup>th</sup><br>Feb<br>2015 | Time-Frequency analysis & estimation of Instantaneous Frequency, Gabor Wavelet and Applications, Application of Wavelets in Biometrics, Hands on Session on Implementation of Gabor Wavelet.<br><b>Dr. Aditya Abhyankar</b>                                |
| 8 <sup>th</sup><br>Feb<br>2015 | Dual Tree Complex and Rotated Complex Wavelet & its Applications, Wavelets Application in CBIR, thinking beyond wavelets, Ridgelet and Curvelet and its Applications, Application of Wavelet in Industry.<br><b>Dr. Manesh Kokare Dr. Aditya Abhyankar</b> |

Contacts: (For enquiry please call us or mail on)  
Prof. A B Ingole, Mobile: +91 8421990911  
email id: [abingole.sae@sinhgad.edu](mailto:abingole.sae@sinhgad.edu)

## REGISTRATION FORM

A  
State level One Week  
Short Term Training Program  
On

**WAVELET AND ITS APPLICATIONS IN  
SIGNAL AND IMAGE PROCESSING**  
**04<sup>th</sup> Feb to 08<sup>th</sup> Feb 2015**

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

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

Qualification: \_\_\_\_\_

Experience: \_\_\_\_\_

A. Teaching: \_\_\_\_\_

B. Industry: \_\_\_\_\_

Institute/Industry Name & Address: \_\_\_\_\_

Mobile No: \_\_\_\_\_

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

Phone No. Off.: \_\_\_\_\_

Accommodation required (Y/N): \_\_\_\_\_

DD No : \_\_\_\_\_

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

Branch: \_\_\_\_\_

Amount in (Cash/DD)Rs : \_\_\_\_\_

Date

Signature of Participant

Signature & seal of sponsoring authority