situations where the signal contains discontinuities and sharp spikes. Wavelets were developed independently in the fields of Mathematics, Quantum Physics, Electrical Engineering, and many more. Interchanges between these fields during the last ten years have led to many new wavelet applications such as image compression, turbulence, human vision, radar, and earthquake prediction. Wavelets are the result of collective efforts that recognized common threads between ideas and concepts that had been independently developed and investigated by distinct research communities. They provide a unifying framework for decomposing images, volumes, and time series data into their elementary constituents across scale. Although a relatively recent construct, wavelets have become a tool of choice for engineers, physicists and mathematicians, leading to efficient solutions in time and space frequency analysis problems, as well as a multitude of other applications. One of the consequences is that wavelet methods of analysis and representation are presently having a significant impact on the science of medical imaging and the diagnosis of disease and screening protocols. Because of a powerful underlying mathematical theory, they offer exciting opportunities for the design of new multi-resolution image processing algorithms, and novel acquisition methods such as wavelet-encoded MRI.

To cater these needs, Department of Electronics & Telecommunication Engineering of Sinhgad Institute of Technology & Science, Narhe, Pune has taken initiative to conduct a Workshop for the Engineers, Teachers of Electronics, Instrumentation, Electrical, Computer, Information Technology, and allied branches. This workshop is proposed in association with renowned Professionals from industries and academicians who will be sharing their experiences with the participants. The participants of this program will be benefited in terms of knowledge, hands on training on Wavelet Tool, which will provide help for laboratory developments using state-of-the-art Technology to cultivate research ideas.

CONTENTS OF WORKSHOP
✓ Introduction to Wavelets.
✓ Wavelet Fundamentals
✓ Hands on experience on Wavelet toolbox and implementation of 1-D and 2-D wavelet
✓ Multi-resolution Analysis
✓ Tree structured Wavelet and Wavelet Packets
✓ Multichannel/ M-Band Wavelet
✓ Rotated Wavelet
✓ Implementation of M-Band and Rotated Wavelet
✓ Gabor Wavelet
✓ Complex Wavelet Transform
✓ Dual Tree Complex Wavelet Transform
✓ Rotated Dual Tree Complex Wavelet Filter
✓ Implementation of Gabor, DT-CWT and DT-RCWF
✓ Curvelet and Ridgetlet
✓ Applications of Wavelet to CBIR, IRIS Recognition, Digital Image Watermarking, Document Image retrieval, and Fingerprint recognition
✓ Application of wavelet in Medical Image Analysis
REGISTRATION FORM
(One Week STTP on Wavelets)
(13th to 18th December 2012)

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Chief Executive Officer, Narhe Technical Campus
Head E & TC Engg .Dept. SITS, Narhe, Pune.

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IMPORTANT DATES
Duration of Program: 13 – 18 December 2012
Last Date of Registration: 10 December 2012

REGISTRATION FEES
Registration Fees is Rs. 3000/- per participants.
The registration fees should be paid in advance
through a DD drawn of any Nationalized Bank in
favor of “The Principal, SITS, Narhe “,payable at
Pune.

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IETE APPROVED
National Level
One Week STTP
On
WAVELETS
December 13 – 18, 2012
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