

FIVE DAY  
FACULTY DEVELOPMENT PROGRAMME

on

RECENT TRENDS IN MEDICAL IMAGE PROCESSING  
USING WAVELET TRANSFORMS

1-5 January, 2019

Organized By

Department of

Electronics & Communication Engineering

Registration Form

Name : .....

Affiliation : .....

Department : .....

Mobile no : .....

Phone (0) : .....

Email : .....

Registration Details:

Name of the Bank .....

UTR No. ....

Date of Payment .....

Certified that the above information is true and correct to the best of my knowledge and belief.

Date : Signature of the Applicant

Signature of Head of the Institution

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Bishop of Mangalore & President, SJEC

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Director, SJEC

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Principal, SJEC

Dr Joseph Gonsalvis  
Chief of R & D, SJEC

Dr Savitha H M  
Professor, ECE, SJEC

Dr Dayakshini  
HOD-ECE, SJEC

CONVENOR

Dr Sandhya Dass  
Associate Professor, ECE, SJEC

PARTICIPANTS

The program is open to all interested engineering Faculty Members, Research Scholars, Participants from Industry, and PG Students

ADDRESS FOR COMMUNICATION

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ST JOSEPH ENGINEERING COLLEGE

(Affiliated to VTU, Belagavi and recognised by the AICTE, New Delhi.  
B.E. - CSE, ECE, EEE, ME Accredited by NBA, New Delhi)

Vamanjoor, Mangaluru – 575028

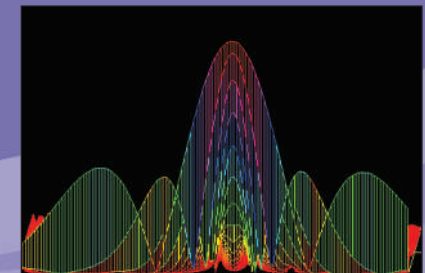


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St Joseph Engineering College, Mangaluru

## About the College

SJEC is affiliated to Visvesvaraya Technology University, Belagavi, Karnataka and is recognized by All India Council for Technical Education (AICTE), New Delhi. Established in 2002, the college offers top class education in Engineering, Business Administration and Computer Applications at UG, PG and Research levels. It has well-qualified staff, state of the art laboratories with latest facilities. Presently about 2500 students are studying in the college. The college provides scope for a wide variety of co-curricular and extracurricular activities which give a head-start to students, developing their personality and imparting skills of decision making and leadership. The college also holds the consistent growth in the Placements record.

## About the Department

The Department of Electronics and Communication Engineering was established in the year 2002. With the effort of well-qualified faculty and best infrastructure, the Department has grown from strength to strength in the last decade. Currently, the student intake is 120 at the UG level and 18 at the PG level. Also, VTU has approved the Department to offer Ph.D./ M.Sc (Engg) from 2015. The Department has faculty who are actively involved in teaching and research with specializations in Communication, Signal Processing, and VLSI. The Department maintains a constant dialogue with the alumni to meet the industry requirements and holds guest lectures both in Engineering and Management, by industry experts.

The Department encourages students to present papers in seminars, workshops, conferences, participate in various inter-college technical and non-technical events. All the laboratories of the department are accessible to the students and are equipped with the latest software like Cadence VLSI Design Tool, Xilinx Vivado, MATLAB 2018 for regular projects and to try out ideas leading to entrepreneurship development. Recently, Biomedical research lab has been set up in the department. A Systematic procedure for selection and rubrics based rigorous evaluation of UG/PG projects, seminars, and mini projects and rewarding the best projects have helped the department to achieve KSCST- Best Project of the Year (2017-18), publish articles in international journals and win Best paper awards.

## About the FDP

This FDP will explore a new direction in the field of Signal/ Image Processing using Wavelet Analysis. Hands-on experience will be demonstrated to the participants who are not necessarily wavelet experts. It will provide a timely update on the most recent developments in this area.

The applications of Wavelets, in Signal and Image processing, will be discussed which will help the educators, practicing engineers and the students to continuously update their knowledge and skills. The FDP focuses mainly on the specialized topics of Wavelets and its practical applications in Medical Images. This will help the participants to update themselves and widen their horizon.

## Programme Schedule

- Day 1:** Wavelet Fundamentals and applications, Implementation of 2-band Wavelet
- Day 2:** Fundamentals of Image Processing, Spatial and Frequency Domain Filters, Hands on experience on IP Tool Box
- Day 3:** Tree-Structured and Wavelet Packet, M-Channel and Rotated Wavelet, Application of Wavelet in Retinal Image Analysis, Implementation of M-band Wavelet
- Day 4:** Dual-Tree Complex and Rotated Complex Wavelet, Gabor Wavelet/ CBIR, Application of Wavelet in CBIR, Implementation of Gabor Wavelet
- Day 5:** Ridgelet and Curvelet/ Application of Wavelet in Iris Recognition, Why and How Research? How to write Best Research Paper?

## About the Resource Person

**Dr Manesh B Kokare** received Ph.D. from the Department of Electronics and Electrical Communication Engineering, Indian Institute of Technology, Kharagpur, India, in 2005. He completed Post-Doctoral research work in 2011-12 from University of California, Santa Barbara, USA. He is presently holding a position of Associate Professor and Head of the Department of Electronics and Telecommunication Engineering, Coordinator of Center of Excellence in Signal and Image Processing, and coordinator of RUSA at Shri Guru Gobind Singhji Institute of Engineering and Technology Nanded, Maharashtra, India. He has published about

80 papers in international and national journals and conferences. His research work has got the citation of 1706, h-index-18, and i-10 index 27. He is a recipient of many prestigious awards like **Career Award for Young Teachers** from AICTE and **BOYSCAST Fellowship** of US \$ 38000 from Government of India.

Acknowledging Dr Kokare's research contribution, he has been selected as a reviewer of twenty international journals and his research interests include wavelets, image processing, pattern recognition, Computer Vision, and Content-Based Image Retrieval. For the benefit of faculty members and research scholars in Engineering, he has conducted more than 225 professional workshops and short-term training program in various Engineering colleges of India. Based on his significant research contribution, Dr Kokare had been chosen as a candidate, whose biography was included and published in the 2007 Edition of **Who's Who in the World**.

## Details of Registration

**Faculty from Engineering Colleges:** Rs. 2000/-

**PG Students:** Rs. 1500/-

**Industrial participants:** Rs. 2500/-

No TA/DA will be admissible to any participant.

Registration will be done on "First Come First Served" basis.

The registration fees should be paid through electronic money transfer (NEFT) to

**Account Number: 10792191000040**

**Name of the Account: St Joseph Engineering College**

**Bank: Oriental Bank of Commerce**

**Branch: Vamanjoor**

**IFSC/RTGS Code: ORBC0100966**

Kindly send a mail with a copy of registration form, UTR number and proof of payment to [vijayal@sjec.ac.in](mailto:vijayal@sjec.ac.in)

The registration form should be submitted on the first day of the workshop.

**Last date for registration: 15 December 2018**

**Accommodation:** Shared Non-AC accommodation will be arranged in the guest house of the college on prior request by payment of nominal charge of Rs. 250/- per day.