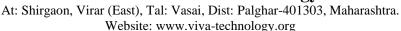


Late Shri Vishnu Waman Thakur Charitable Trust's

VIVA Institute of Technology





Department of Electronics and Telecommunication Engineering

Report on ISTE Approved One Week Short Term Training Program on

"Recent Trends in Image, Video and Speech Processing"

Organized by Electronics and Telecommunication Department

Digital image, video and speech processing emerging in thousands of applications like astronomical, bio-medical, consumer, industrial, and artistic which continues to enable the multimedia technology revolution we are experiencing today. This STTP throws light on the promising research areas such as Imaging, video processing and speech processing, booming trends and its diverse applications.

The objective of the STTP is to provide conceptual knowledge and research opportunities in the areas of Image, Video and Speech processing. The STTP aims at equipping teachers with skills and knowledge in order to create a better society by guiding, training and motivating the students to take up research projects.

Topics Covered in STTP on "Recent Trends in Image, Video and Speech Processing"

- Fundamentals of Image Processing
- Biometric and Biomedical Image processing
- Image fusion
- Fundamentals of Video Processing
- Image protection using cryptography
- · Recent industry applications in image and video processing
- Speech signal processing

•

At the end of STTP participants are able to

- ✓ Apply quantitative models of image and video processing for various engineering applications
- ✓ Develop innovative design for practical applications in various fields
- ✓ Enhance the basic knowledge of Speech Processing and Analyze application of speech processing in various areas

The University of Mumbai introduced revised curriculum which includes, Image and Video Processing as compulsory subject for the final year students in SEM VII as well as Speech Processing as an elective subject in SEM VIII



Late Shri Vishnu Waman Thakur Charitable Trust's

VIVA Institute of Technology



At: Shirgaon, Virar (East), Tal: Vasai, Dist: Palghar-401303, Maharashtra. Website: www.viva-technology.org

Department of Electronics and Telecommunication Engineering

As new algorithms, developments are introducing in multimedia industry day by day, it was felt necessary that the teaching faculty also become competent in the said technology. With keeping this as an intension the ISTE approved STTP was conducted from 25th Apr to 29th APR, 2016 in VIVA Institute of Technology, Electronica and Telecommunication Engineering Department.

The inauguration was attended by Principal Dr. Arun Kumar sir, H.O. D. of EXTC department Mrs. Archana Ingle and Dr, Amey Naik, Professor of K.J. Somaiya college of Engineering, Vidyavihar along with the faculties of the college and participants.

Details of the speakers is as under

SN.	Name of the Guest	Details of the Speaker	Topics Addressed	Date
	Speaker			
1.	Dr. Amey Naik	Assistant Professor, KJSCE,	1. Fundamentals of Image	25/4/2016
		Vidyavihar, Mumbai.	Processing, Image	
			enhancement,	
			Segmentation and object	
			recognition, Binary Image	
			Processing, Wavelet based	
			Image Processing, Colour	
			Image Processing,	
			Applications of Image	
			Processing with respect to	
			biometric and biomedical	
			applications.	
	Prof. Ashish Vanmali	Assistant Professor, VCET,	Video Processing: From	26/04/2016
		Vasai.(Pursuing Ph.D. from	Fundamentals To Coding	
		IIT Bombay)	Image Fusion:	
			Preliminaries &	
			Applications	
	Dr. M. Mani Roja	Associate Professor, TSEC,	Public Key Cryptography	27/04/2016
		Mumbai.	for Image Protection	
			Practical session in Lab	



Late Shri Vishnu Waman Thakur Charitable Trust's

VIVA Institute of Technology



At: Shirgaon, Virar (East), Tal: Vasai, Dist: Palghar-401303, Maharashtra. Website: www.viva-technology.org

Department of Electronics and Telecommunication Engineering

SN.	Name of the Guest	Details of the Speaker	Topics Addressed	Date
	Speaker			
	Mr. Shashikant	Project Manager,	2D Image processing and	28/04/2016
	Kamate,	Wavelet Group of	its industrial applications,	
	Mr. Jaideep	Technology Pune.	case studies with past	
	Mehendale		projects by Wavelet	
			Technologies	
			Real time video processing	
			applications on BlackFin	
			DSP based Hardware	
			(DSPPORT V.1)	
			3D Image processing and	
			its industrial applications,	
			case studies with past	
			projects by Wavelet	
			Technologies.	
	Dr. K. Samudravijay	Scientific Officer,	Speech Recognition via	29/04/2016
		TIFR,1,Homo Bhabha	Template Matching	
		Road,Colaba, Mumbai.	Statistical Models for	
			Speech Recognition and	
			Other Applications	

Participants were the teaching faculty of Engg. College. Total of 15 faculty members participated in the One week Short Term Training Program conducted.

In valedictory function institute had received the feedbacks from the participants that they have learned and enhanced their knowledge in this STTP and they would always want to attend this kind of STTP in this institute once again. The overall feedback of the Training Program was encouraging and was highly rated by the participants