

FACULTY PROFILE

1. **Name** : Dr.M. Venkata Narayana
2. **Date of Birth** : 15-05-1977
3. **Education Qualifications** : Ph.D.
4. **Teaching Experience** : 16 Years



5. **Area of Specializations**

B.Tech. : Electronics and Communication Engg.,

M.Tech. : Electronic Instrumentation and

Communication

Systems

Ph.D. : Spectral Analysis (Ph.D Title:

Variance reduction in

Power spectrum using cepstrum

Thresholding

approach)

6. **Education Qualification:**

Ph.D (Spectral analysis) in ECE faculty from JNTUA, Anantapuramu, February, 2014.

Master of Technology in Electronic Instrumentation and Communication systems,
from S.V.University, Tirupati, First class with distinction, February, 2006.

Bachelor of Technology in ECE, from K.S.R.M.College of Engg., Kadapa, First class with
distinction, May, 2000

7. **Subjects Handled:**

- Advanced DSP
- Adaptive filter theory
- Detection and Estimation theory
- Probability theory and Stochastic Processes
- Digital Signal Processing, Signal and Systems
- Analog Communications
- Pulse and Digital Circuits
- Microprocessors and its applications
- Digital Communications
- Integrated circuits and applications
- Electronic instruments and Measurements
- Electronic Devices and Circuits
- Human values and Professional ethics

6. Publications in Journals :

1. Sahithi, M. Venkatanarayana and K. Pavan Kumar, "Bispectrum Technique To Image Recovery From Water Imaging", Published in International Journal of Industrial Electronics and Electrical Engineering, ISSN: 2347-6982 Volume-4, Issue-11, Nov.-2016.
2. B.S. Venkata Jyothi , M. Venkata Narayana, " Palm Print Recongnition For Colour Images Using Histogram Of Oriented Lines" published in Journal Research In Electrical Electronics And Communications, July Issue'2015.
3. M. Venkatanarayana and Dr. T. Jayachandra Prasad, "*Smoothed Doppler profile in MST radar data - the modified cepstrum approach*", published in ARPN Journal of Engineering and Applied Sciences, vol. 7, no. 9, September, 2012.
4. M. Venkatanarayana and Dr. T. Jayachandra Prasad, "*Variance reduction in MST radar data – the modified cepstrum approach*", published in IJSER, vol. 3, no. 8, August, 2012.
5. M. Venkatanarayana, Md. Mahaboob Pasha and Dr. T. Jayachandra Prasad, "*Elimination of Non-Monotonicity of Variance Estimate in Weighted Overlap Segment Averaging*", i-manager's Journal on Future Engineering & Technology, vol. 7 , no. 3 1 , pp. 35-42, 2012.
6. M. Venkatanarayana and Dr. T. Jayachandra Prasad, "*The Lifting Wavelet Transform for Periodogram Smoothing*", International Journal of Computer Science and Technology, vol. 3, Issue 1, pp. 235-239, 2012.
7. M. Venkatanarayana and Dr. T. Jayachandra Prasad, "*Data Driven Choice of threshold in Cepstrum Based Spectrum Estimate*", Signal & Image Processing: An International Journal, vol. 2, no. 4, pp.145-159, 2011.
9. M. Venkatanarayana and Dr. T. Jayachandra Prasad, "*Performance Evaluation of Filter-bank based Spectrum Estimator*", International Journal of Modern Engineering Research vol. 1, Issue 2, pp. 247- 251, 2011.
10. M. Venkatanarayana and Dr. T. Jayachandra Prasad, "*Consistent Nonparametric SpectrumEstimation via Cepstrum Thresholding*", International Journal (SPIJ), vol. 4, Issue 5, pp. 292-303, 2010, CSJ, Malaysia.

9. List of Conferences

1. M. Venkatanarayana and Dr. T. Jayachandra Prasad, "Pruning FFT Algorithm for Arbitrary Sequences", Proceedings of the NCECS-2011, Aurora Seethaiah Engineering College, IDA, Patancheru, Medak district-502 319.
2. M. Venkatanarayana, Md. Mahaboob Pasha and Dr. T. Jayachandra Prasad, "Elimination of Non-monotonicity of Variance Estimate in Weighted Overlap Segment Averaging". Proceedings of International Conference on ICICES-2011, S.A.Engineering College, Chennai.
3. V.Kishore, Dr.T.Jayachandra Prasad and M.Venkatanarayana, "Reduced Variance Smoothed Nonparametric Spectral Estimation via Cepstrum Thresholding", Proceedings of the NCINCT-2010, Dr.Mahalingam College of Engg., Pollachi, Coimbatore-642003, pp.no.360-363.
4. A. Valli Bhasa, M. Venkatanarayana and Dr. T. Jayachandra Prasad, "Non parametric

Spectral Estimation via the Cepstrum Thresholding”, Proceedings of the International Conference on ASECI - 2010, Siddhartha Engineering College, Vijayawada, pp. 86-90, 2010.

5. S. Nasreen and M. Venkatanarayana, “detection and removal of rain in videos using modern approach”, Proceedings of the National conference on Signal Processing and Communications, RGM CET, Nandyal, 22nd March, 2014.
6. P.Padmini Reddy and M.Venkatanarayana, “Refined 3d hand detection and tracking using kalman filter”, Proceedings of the National conference on Signal Processing and Communications, RGM CET, Nandyal, 22nd March, 2014.
7. B.S.Jyothi and M. Venkatanarayana, “Palm Print Recognition For Colour Images Using Histogram Of Oriented Lines”, presented in ICETSTEM-2015, on October 9-10, 2015,
8. Organized by Malla Reddy Engineering College, Hyderabad.
A. Sahithi, M. Venkatanarayana, “Bispectrum Technique To Image Recovery From Water Imaging”, presented in IACEECE-Hyderabad on 25-09-2016.
9. K. Pavan Kumar and M. Venkatanarayana, “An efficient method to under water image recovery” presented in ICACSE 2017 on 4-2-2017 at Hyderabad.

10. Workshops attended:

Name of the workshop	Place	Title	Month & Year	National / International
Five day STTP Course	NIT, Warangal	Speech processing	March, 2008	National
Five day AICTE-ISTE STTP	N.B.K.R., Vidya nagar	Advanced signal processing and applications	May, 2008	National
Five day AICTE-STTP	IIT, Madras	Wavelet Transforms for Data analysis theory and applications	July, 2008	National
Five day QIP-AICTE	IISc, Bangalore	Wireless Security	March, 2009	National
Two week advanced course-MHRD	NIT, Warangal	Advanced Digital Signal processing and applications	July, 2009	National
Five day Mission 10X – wipro	AITs, Rajampet	Mission 10X – Innovative teaching methods	Feb, 2011	National
Two day workshop	JNTUA, ATP	Outcome based education approach in engineering curriculum	Aug., 2014	National
Two day workshop	JNTUA, ATP	Formulation of Research & Development Initiatives for Engineering Faculty	Sep., 2014	National

One day workshop	JNTUA, ATP	Awareness on Washington Accord for Outcome Based Education”	Aug.,2014	National
One day workshop	JNTUA, ATP	Didactical Programme on Crafting power questions	16-07-2016	National
Two day workshop	CBIT, HYD	Electronic warfare devices: Signal processing and Filter banks	2-3, March,2017	National

11. No. of Books Published with details : --

Moram Venkatanarayana and Talari Jayachandra Prasad published the book with title "*Periodogram Processing: Wavelet and Cepstral Thresholding Approaches*" , ISBN 978-3-639-71346-6, in the month of March, 2014.

12. List of Conferences and Workshops conducted:

S. No.	Conference / Workshop	Title	Date	Coordinators
1	National Level Workshop	Transform Techniques in DSP: Theory and Applications	04/07/2009	Sri M.V.Narayana
2	National Level Students Technical Symposium	ELICITE-2K11 (Paper and Poster Presentation, Project Design and Circuit Debugging)	28/10/2011	Sri M.V.Narayana and Sri R.V.Sree Hari
3	National level Two day Workshop	Graphical System Design Platform using LabView	4-5, January 2013	Sri M.V.Narayana And Sri Md Mahaboob Pasha
4	Two day National level Technical symposium	Evince2k14 (Paper,Poster,and Project presentations, Technical quiz, Circuit debugging, non-technical events)	11-12, April, 2014	Dr. M.V. Narayana and Sri Md. Mahaboob Pasha
5	Two day National level workshop	Internet of Things	25-26, March, 2016	Dr. M.V.Narayana and S.Zahiruddin

13. Particulars of Project work guided:

- Number of Students registered for PhD Under my guidance : 1
- Number of Students completed M.Tech. under my guidance : 5
- Number of Students completed B.Tech. under my guidance : 15

14. List of Projects guided:

- Object detection in FOG/SMOKE using Arduino
- Denoising of Mammograms using Wavelet based Thresholding approach
- Image compression using both wavelet transform and Huffman coding
- Bi-spectrum technique to image recovery from water imaging
- Vehicle detection and classification from high resolution satellite images
- DPSK modem design using CORDIC algorithm.
- Rain removal in Videos using probabilistic approach and automatic single image based.
- 3D hand shaking detection and tracking using Kalman filter
- Variance reduction in power spectrum using cepstral thresholding approach
- Bispectrum
- Lane detection using Generalized Hough Transform
- Fourier Transform representation by Frequency Time Wavelets
- Data Compression Techniques
- Efficient Utilization of Radio Spectrum using Adaptive Filters.
- Security issues in Wireless communication: Digital Signatures
- Speech analysis and Speech Enhancement

15. Academics Administration: (From 26-07-2001)

- Warden of Kandula Boys Hostel, KSRMCE.
- NBA Coordinator
- As a Secretary in Alumni Association office
- Involved two times in the NBA activities at KSRMCE, KADAPA.
- Involved in the NAAC activities at KSRMCE, KADAPA.

16. Additional Incharges:

- As incharge of ECE department, As a Academic council member,
- As a Time Table Incharge,
- As a Placement coordinator, As a Lab Incharge,
- As a Project Guide and involved in the preparation of Lab Manuals.