

CURRICULUM VITAE

Dr. K.PAVAN KUMAR

Associate Professor,
Department of Electronics and Communication Engineering,
K.S.R.M. College of Engineering,
Kadapa,
AndhraPradesh-516005, India.
E-mail: pavan@ksrmce.ac.in (office)
pavankattela424@gmail.com (Personal)
Mobile: 9966625764



Career Objective:

To build a long-term profession as a teacher that will offer endless opportunities for career growth and to keep up with cutting-edge educational technologies.

Education:

Degree	Specialization	Board/University	Class	Year of Pass
SSC	--	SSE, AP	First Class	1999
Intermediate	MPC	BIE, AP	First Class	2001
B.Tech	ECE	JNTUH -Hyderabad	First Class	2005
M.Tech	ECE	JNTUA- Anantapuramu	First Class	2011
Ph.D.	ECE	K.L.University (Deemed to be University), Guntur, AP	---	2024

Professional Experience:

Organization	From	To	Designation
Kuppam Engineering College, Kuppam.	16-08-2005	12-06-2006	Assistant Professor
S.S.I.T.S, Rayachoti	13-06-2006	15-12-2006	Assistant Professor
KSRM College of Engineering, Kadapa.	08-12-2006	30-04-2024	Assistant Professor
KSRM College of Engineering, Kadapa.	01-05-2024	Till date	Associate Professor

Total Teaching Experience: 18+ years

Research Interest : Signal Processing
Image Processing

Teaching Interest : MATLAB Programming,
Arduino Programming
PYTHON Programming

Subject Dealt:

Electromagnetic theory and transmission lines, Antennas and wave propagation, Microwave Engineering, Radar Systems, Signals and Systems, Probability theory and Stochastic Processes, Pulse and Digital Circuits, Linear Integrated circuits and applications, Electronic Devices and Circuits, Network Theory, Computer Networks.

Academics Administration:

- College level NAAC Coordinator.
- College level NBA Coordinator.
- NIRF coordinator
- Accreditations and Affiliations Committee member.
- Public Relation Officer.
- BoS Member
- IQAC Member

Membership in Professional Bodies:

ISTE (Life Member) : LM 107127

Membership in Social Bodies:

Indian Red Cross Society (Life Member) : Reg. No:138

Ph.D Thesis:

Domain : Signal Processing

Title : Higher Order Spectral Analysis based Underwater Image Recovery
Techniques

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Projects Guided:

B.Tech : 40

M.Tech: 15

Certifications:

1. Completed NPTEL course on Cloud Computing.
2. Completed NPTEL course on Accreditations and outcome based education.

Research Publications in Journals:

- 1.Kumar, K.P., Rao, M.V.G. & Venkatanarayana, M., “Adaptive Higher-Order Spectral Analysis for Image Recovery Under Distortion of Moving Water Surface using Dragonfly-Colliding Bodies Optimization”. *Sensing and Imaging* 23, 19 (2022). <https://doi.org/10.1007/s11220-022-00388-0>.
2. Kumar, K.P., Rao, M.V.G. & Venkatanarayana, M. Hyperparameter tuning-based triple correlation for spectral analysis-enabled image recovery from moving water surface. *Intelligent Robot Appl* (2022). <https://doi.org/10.1007/s41315-022-00254-y>
- 3.Kattela Pavan Kumar, Matcha Venugopala Rao and Moram Venkatanarayana, “A Novel Image Recovery from Moving Water Surface using Multi-objective Bispectrum Method”, International journal of Image and graphics (2023). <https://doi.org/10.1142/S0219467824500384>
4. K.Pavan Kumar, M.Venkata narayana and M.Venugopal Rao. “An efficient method for underwater image recovery”, International journal of control theory and applications, vol.9, no.42, pp.279-285, 2016, ISSN: 0974-5572.
5. M.Tulasi, K.Pavan Kumar. “DOA estimation using weighted spatial bispectrum correlation matrix of noisy speech source environments”, International journal of Innovative Technologies, vol.5, no.11, pp.2169-2172, 2017, ISSN: 2321-8665.
6. A.Sahithi, M.Venkata narayana, K.Pavan Kumar,. “Bispectrum technique to image recovery from water imaging”, International journal of Industrial Electronics and Electrical Engineering ,vol.4,no.11,pp.44-48,Nov-2016, ISSN:2347-6982.
7. K.L.Narasimha Babu, K.Pavan Kumar,. “Reversible picture data hiding with contrast enhancement”, International Journal of VLSI System Design and communication systems, vol.4, no.08, pp.0579-0581, 2016, ISSN: 2322-0929.
8. K.Srinivasa Rao, K.Pavan Kumar. “Water Flow Identification and Theft Control of Automated Urban Water Supply”, International journal of applied sciences, Engineering and Management, vol.2,no.06,pp.138-142,2013, ISSN:2320-3439.

Research Publications in Conferences:

1. K.Pavan Kumar, “An efficient method to underwater image recovery” 3rd international conference on Advances in computer science and Engineering, Hyderabad, India, February 4, 2017.
2. K.Pavan Kumar, “Bispectrum technique to image recovery from water imaging” International academic conference on Electrical,Electronics and Communication Engineering, Hyderabad, India, February 25th, 2016.
3. K.Pavan Kumar, “Reversible picture data hiding with contrast enhancement” IJVDCS, Hyderabad, India, February 11th August, 2016

Book/Book Chapter Publication:

1. Published a book titled “Analog Circuits and Communication Electronics”, Professional Books publisher, Hyderabad.

FDP/Workshop Attended:

1. Participated in one week FDP on “Applications of atmospheric Remote Sensing & GIS” held from 25th -29th JULY, 2022, Organized by the Department of ECE,KSRMCE,Kadapa.
2. Participated in one week workshop on “Precision agriculture ,Remote sensing and Drone technology for Sustainable crop production ” held from 15th -19th MAY-2023, Organized by the Department of ECE,KSRMCE,Kadapa.
3. Participated in one week FDP on “Introduction to Machine Learning” held from 24th -30th September 2020, Organized by the Department of ECE,KSRMCE,Kadapa.
4. Participated in one week FDP on “Machine learning using Python” held from 16-08-2021 to 04-09-2021, Organized by APSSDC.
5. Participated in one week FDP on “Advanced Digital signal Processing & Its Applications ” held from 20th -26th November 2017, Organized by E&ICT Academy, NIT-Warangal at KSRMCE, Kadapa.
6. Participated in one week FDP on “Advanced Digital signal Processing ” held from 20th -26th February 2017, Organized by NIT-Warangal.
7. Participated in Five day FDP on “Advances in Signal Processing and Artificial Intelligence Technologies ” held from 06th -10th July 2020, Organized by GPREC, Kurnool.

Achievements/Services rendered:

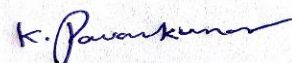
1. As a Steering Committee member of NAAC accreditation work for Criteria-VI and achieved highest score.
2. As a Steering Committee member of NBA accreditation work for Criteria-X and achieved good score
3. Actively involved in the process of Renewal of Autonomous Status and also during the UGC committee visit.
4. Being Member of BoS, involved in designing curriculum and syllabus.
5. Question Paper setter for many institutes.
6. Attended for Project Viva-Voce for UG and PG level.
7. Acted as Department Time-Table Coordinator for 5 years.
8. Acted as Department Placement Coordinator for 5 years.
9. Actively involved and conducted various events during fests in college.

CERTIFICATE

This is to certify that the information furnished above is true to the best of my knowledge.

Date:

Place:



(Sri.K.Pavan Kumar)