

Resume

Name: Venkumahanti Ashok Kumar

Employee ID: A5ECE00T13

Designation: Professor

Department: E.C.E

Date of Birth: 15.03.1969

Father Name: V.Prasada Rao

Mother Name: V.Sarojini Devi

Reservation Category :BC-D

Address:Plot No. 104, Govind Nagar, Behind Indira Nagar, Srikakulam.

Mobile Number:9441306123

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Date of Joining in the Institution: 27-07-2006

Academic Excellence:

| QUALIFICATION | BOARD / UNIVERSITY | DIVISION | YEAR |
|---------------|------------------------------------|---------------------------------|------------|
| Ph.D(ECE) | GITAM University, Visakhapatnam | Awarded | March,2019 |
| M. Tech (ECE) | JNTUK, Kakinada | FIRST class with distinction | 2010 |
| B. E(ECE) | University of Madras, Madras | SECOND class | 1990 |



Total Years of Experience (Teaching/Industry): 30 Years

| S.No. | Period | | Organization/Institution | Position Held |
|-------|----------------|-----------------------------|---|---|
| | From | To | | |
| 1 | 1st April 2019 | Till date | AITAM, Tekkali | Professor |
| 2 | 1st July 2011 | 31 st March 2019 | AITAM, Tekkali | Associate Professor |
| 3 | 1st July 2008 | 30 th June 2011 | AITAM, Tekkali | Sr. Assistant Professor |
| 4 | 27th July 2006 | 30 th June 2008 | AITAM, Tekkali | Assistant Professor |
| 5 | 16th Nov 1998 | 26 th July 2006 | Sri GCSR college, Rajam | Sr.Lecturer& HOD |
| 6 | 15th Nov 1997 | 15 th Nov 1998 | PRAKUN Equipments Pvt. Ltd. | Resident Engineer |
| 7 | 8th Sep 1993 | 31 st Oct 1997 | Pacific Telecommunications & Instruments Ltd., Hyd. | Resident Installation cum Service Engineer, VSP |
| 8 | 1st March 1992 | 14 th July 1993 | XEDD Telecom Pvt. Ltd., Hyd | Resident Engineer, VSP |

Areas of Interest:

1. Digital Image Processing (Watermarking).
2. Microprocessors & Micro controllers.
3. Electronic Devices and Circuits.
4. Electronic Circuit Analysis.

Guidance of Academic Projects:

1. UG Level (B. Tech.): 27
2. PG Level (M. Tech.): 09

Memberships of Professional Societies and Other Organizations:

- 1.The Institution of Electronics & Telecommunication Engineers (IETE), Associate Member –Mem.No: AM-210698.
2. Institute of Electrical and Electronics Engineers (IEEE),IEEE Member#99667462

Other Responsibilities:

- GRC- Convener
- SPOC - APSSDC
- QEEE Coordinator
- MOOCS Coordinator
- Anti-ragging committee Coordinator
- Anti- ragging squad Convener
- BOS Member

Details of Publications:

Book Publications:

1. MICROPROCESSORS and SYSTEMS,
SHREE PUBLISHING HOUSE, ISBN: 978-93-91117-22-1, Year 2022, Pages 1-306

Patents:

1. 'Patent Objects Selecting Recommender System Using AI- Based and Deep Learning Programming' Published with publication date 22/01/2021, application No. 202141000835 A

International Journals:

1. A.S.Srinivasa Rao, P.Mallikarjuna Rao ,E.Jaya and **V.Ashok Kumar**"An alternative approach to design & analysis of Broadband Beamspace adoptive arrays", IJEST, Vol.3 No.9,pp.7029-36,2011.
2. A.S.Srinivasa Rao, P.Mallikarjuna Rao ,M.Muralidhar and **V.Ashok Kumar** "Design and Analysis of Broadband Beamspace adoptive arrayas using Fractional fourier Transform", IJECE,Vol.5,No.2,pp.193-206,2012.
3. N.Dhanunjaya Rao,**V.Ashok Kumar**:FPGA "Implementation of high performance carry select adder" IJARECE,Vol.1,No. 6, pp.58-64,2012
4. **V.Ashok Kumar**, J.Sateesh , P.Sirish Kumar "Effective Digital Watermarking Approach Using Combined DWT –DCT", IJERT,Vol.2,No. 11,pp.1269-74,2013.
5. Thirupathi Naidu P, **Ashok Kumar V**, KranthiR "High-speed RC4 algorithm based on True dual Port RAM by using verilog HDL", (IJITEE) Vol. 4, No.7,pp.97-99, 2014.
6. D.Himabindu,**V Ashok Kumar**,Ch.SrinivasaRao,C.DharmaRaj:Performance evaluation of edge directional image interpolation scheme, IJCTA, Vol.6, No.7,pp.606-11,2015.
7. **Venkumahanti Ashok Kumar**,Dharma Raj Cheruku and Srinivasa Rao Chanamallu "Digital Watermarking Approach Based on Edgebased Sorted Pixel Value Difference(ESPVD)",IJST,Vol.9,No.(S1),pp.1-11, 2016.
8. I.Ramchand,**V Ashok Kumar**,Ch.SrinivasaRao,C.Dharma Raj "Digital Image Watermarking Approach based on QR and DWT Method", IJARECE, Vol.6, No.7,pp.837-42, 2017.
9. **V.Ashok Kumar**,C.Dharma Raj,Ch.Srinivasa Rao: A Hybrid Digital Watermarking Approach Using Wavelets and LSB, IJECE, Vol.7, No.5,pp.2483-94, 2017.

10. **V. Ashok Kumar**, Ch.Srinivasa Rao, C.Dharma Raj “IMAGE DIGITAL WATERMARKING: A SURVEY”, IJAMTES, Vol.8, No.1,pp.127-143, 2018.
11. E.Pavani, **V.Ashok Kumar**, A.JayaLkshmi “Performance Evaluation of Gate Diffusion Input and Modified Gate Diffusion Input Techniques for Multipliers and Fast Adders design”,IRJET, Vol.06, July,pp.1518-27, 2019.
12. **V.Ashok Kumar etal** “Breast Cancer Detection using CAD,IRJMETS”,Vol.04, No.06,pp.4464-67, 2022.
13. **V.Ashok Kumar etal** “Diabetes Detection Based on Iris Abnormal”,IRJMETS, Vol.04, No.06,pp.5000-04, 2022.
14. **V. Ashok Kumar etal**:Defects Detection in Integrated Circuits with Design for Test by using scan insertion approach,Semiconductor Optoelectronics , Vol.42, No.01,pp.636-44, 2023.
15. **V. Ashok Kumar etal** “Chaos Based Encryption And Data Hiding Scheme Based On Pixel- value Differencing In Dual Images”, IRJMETS, Vol.05, No.04,pp.1792-97,2023.
16. **V. Ashok Kumar etal** “Ocular Disease Identification Using deep Learning Techniques”, IRJMETS, Vol.05, No.04,pp.742-51,2023.

National Conferences:

| S.No | Date | Name of the Program | Name of the Paper | Host Institute |
|------|---|---|---|---------------------------------|
| 1 | 14 th -15 th , Dec, 2014. | National Conference on Advances in Communication Technologies(NCACT-2014) | PerformanceEvaluation of Digital Watermarking Using DCT-DWT and modified Bilinear Interpolation Technique | GITAM University, Visakhapatnam |
| 2 | 20 th -21 st , Feb,2015. | Emerging trends in Signal Processing and Communication Engineering(ESPACE-2015) | Performance evaluation of edge directional image interpolation scheme | AITAM, Tekkali |

Details of Conferences / Workshops / Refresher Courses Organized:

1. “ADVITYA” 2K-11
2. “ASPIRE 2K”-12
3. “ASIP 2K” – 13
4. Two-Week ISTE Workshop on “Pedagogy for Effective use of ICT in Engineering Education-14” conducted by IIT Bombay.
5. “ASPIRE 2K-14”

Details of Conferences / Workshops / Refresher Courses Attended:**1.Internal:**

| S. No. | Dates | Name of The Programme | Host Institution |
|---------------|---|---|-------------------------|
| 1 | 6 th -7 th Sept 2008 | Advances in Electrical Engineering | AITAM, Tekkali |
| 2 | 12 th -13 th Sept 2008 | Recent Developments in Information and Communication Technologies | AITAM, Tekkali |
| 3 | 22 nd Sept2008 | Workshop on Recent Trends of Nano Technology | AITAM, Tekkali |
| 4 | 29 th March2011 | Workshop on Advances in MATLAB and its Tools | AITAM, Tekkali |
| 5 | 16 th -29 th April 2012 | Soft Computing Application to Power system & Control MATLAB | AITAM, Tekkali |
| 6 | 28 th -29 th April 2012 | A Two day National workshop on “Soft- Computing Applications toCommunication And Management”(SACAM-12) | AITAM, Tekkali |
| 7 | 19 th January, 2013. | A One day workshop on Outcome Based Education | AITAM, Tekkali |
| 8 | 12 th June – 2 nd August 2014 | A Two-Week ISTE Workshop on “Pedagogy for Effective use of ICT in Engineering Education- 14” conducted by IIT Bombay. | AITAM, Tekkali |
| 9 | 15 th -16 th Nov 2014 | Twenty First Century the dawn of Digital Era:Pedagogical Issues of Technical Teachers | AITAM, Tekkali |
| 10 | 6 th Dec,2014 | A One day workshop on Outcome Based Education | AITAM, Tekkali |
| 11 | 23-25 th June 2016 | Pedagogy and Mngement Capacity Enhancement Program for Teaching Staff | AITAM, Tekkali |
| 12 | 26 th Sep-1 st Oct 2016 | Advances in Communication Technology | AITAM, Tekkali |
| 13 | 13 th -14 th July 2019 | Outcome Based Education | AITAM, Tekkali |
| 14 | 22 nd – 26 th June 2020 | Technological Advances in Wireless Communication Systems | AITAM, Tekkali |

2.External:

| S. No. | Dates | Name of The Program | Host Institution |
|---------------|---|---|---|
| 1 | 18 th -19 th February 2006 | Best Practices in higher education – A special emphasis on rural institution | Govt. Degree College(Men), Srikakulam |
| 2 | 8 th -9 th Sept 2006 | Recent trends in Nano Electronics | GMRIT, Rajam |

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| 3 | 14 th -15 th February 2007 | A Two Day National Workshop on DSP Tools | Aditya Engineering College, Surampalem, E.G. Dist |
| 4 | 18 th -19 th February 2008 | Applications of Microprocessors & Micro Controllers | GMRIT, Rajam |
| 5 | 24 th November 2009 | Research Methodologies | University College of Engineering, Kakinada |
| 6 | 18 th -19 th November 2011 | Advanced Communication Systems and Networks | GMRIT, Rajam |
| 7 | 28 th -29 th June 2013 | Communication Signal and Image Processing(COSIP-13) | JNTUK University College of Engg. VZM. |
| 8 | 17 th -18 th Dec2013 | Quality Enhancement in Engineering Education(QEEE) | IIT Madras |
| 9 | 28 th February- 1 st March 2014 | VLSI Applications to Radar and Image Processing(VARIP-14) | GMRIT, Rajam |
| 10 | 11 th -12 th Dec 2014 | Research and Teaching Methodologies in Electrical Engineering. | IIT, Hyderabad |
| 11 | 4 th January 2016 | Quality research writing and research impact measures | GITAM University, Visakhapatnam |
| 12 | 8 th July 2017 | Empowering teaching excellence through E- learning platforms | JNTU Kakinada |
| 13 | July- Oct 2018 | Faculty Development Program – Digital Image Processing | NPTEL- AICTE, MHRD, Govt.of India. |
| 14 | 25 th Feb - 2 nd March 2019 | Practical RF Antenna Design with Simulation | Electronics & ICT Academy NIT Warangal(T.S), India and AITAM Autonomous Tekkali, Srikakulam Dist.AP |
| 15 | Aug- Oct 2019 | Faculty Development Programme – Accreditation and Outcome Based Learning | NPTEL- AICTE, MHRD, Govt.of India. |

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| 16 | 18 th – 30 th May 2020 | Faculty Development Programme – Internet of Things (IOT). | APSSDC |
| 17 | 18 th -24 th April 2020 | Practical aspects of finite analysis using ABAQUS | APSSDC |
| 18 | 30 th April -04 th May 2020 | Design, simulation and development of unmanned aerial vehicles (Drones) and applications in various engineering sectors | NAFEMS and RIT Islampur and RCE Eluru |
| 19 | 30 th April - 2 nd May 2020 | Automotive structures design using the CATIA | APSSDC |
| 20 | 11 th -15 th May 2020 | Art of Effective Teaching | Excel college for commerce and science, Komarapalayan |
| 21 | 18 th -22 nd May 2020 | Nano Materials for Energy Harvesting and Bio medical Applications | Godavari Institute of Engineering and Technology, Rajamahendravaram |
| 22 | 8 th -13 th June 2020 | Arduino based low cost data acquisition system using Scilab | Pragathi engineering college, EG district |
| 23 | 15 th -20 th June 2020 | Blockchain security and smart contracts | Vellagapudi Ramakrishna Siddhartha Engineering college, Vijayawada |
| 24 | 15 th -27 nd June 2020 | Embedded Systems | APSSDC |
| 25 | 16 th Aug-04 th Spet 2021 | Python Programming | APSSDC |
| 26 | 22 nd -27 th Aug 2022 | IoT based Smart Automation System | MVGR College of Engineering(A), Vizianagaram |
| 27 | 13 th -17 th Feb 2023 | Outcome Based Curriculum Design | NITTR, Chandigarh |
| 28 | 20 th -24 th Feb 2023 | Antenna & Wireless Technologies | NITTR, Chandigarh |

Certifications:

1. NPTEL Online Certification Course On DIP with top 5%
2. NPTEL Online Certification Course On Accreditation and Outcome Based Learning
3. Introduction to Satellite communications - 6 Week Study - authorized by Institute Mines – Telecom offered through Coursera, May19, 2020.
4. Introduction to Software Product Management - 2 Week Study - authorized by University of Alberta offered through Coursera, May 11, 2020.
5. AWS Fundamentals : Going cloud – Native - 5 Week Study - authorized by Amazon Web Service sand offered through Coursera, June 01, 2020.
6. Getting Started with AWS Machine learning - 5 Week Study - authorized by Amazon Web Services and offered through Coursera, April 28, 2020.
7. IOT(Internet of Things) Wireless and Cloud computing Emerging Technologies– 6 Week Study - Authorized by YONSEI university offered through Coursera, May 25, 2020.
8. Internet history, technology and security - 10 Week Study - authorized by University of Michigan offered through Coursera, April 22, 2020.
9. AI for everyone - 4 Week Study - authorized by Deep learning.ai offered through Coursera, April 16, 2020.
10. Pressure, Force, Motion and Humidity sensors - 5 Week Study - authorized by University of Colorado Boulder offered through Coursera, May 17, 2020.
11. Computer Architecture - 11 Week Study - authorized by Princeton University offered through Coursera, April 19, 2020.

Other Achievements:

1. 100% Pass percentage in EDC& DIP
2. Ratified as Asst. Professor in 2012 in JNTUK
3. Acted as a Judge for Student Paper Presentation at AITAM Polytechnic and Engineering.
4. Certificate of excellence received from (MHRD) for conducting 2 week ISTE workshop.
5. Certificate of excellence from IIT, Madras, for the 5th phase of QEEE.
6. Certificate of excellence from IIT, Madras, for the 7th phase of QEEE.
7. Performed the duties as Observer for AP-EAMCET-2015,JNTUK.

8. Performed the duties as Observer for APSLPRB-2016,JNTUK.
9. Actively participated in 29online Webinars &Quizzes.

Signature