**ANNAMACHARYA UNIVERSITY FACULTY DETAILS FOR WEBSITE**

**About Profile**



NAME : Dr.K.PRASAD

DATE OF BIRTH : 16.05.1986

DESIGNATION : ASSOCIATE PROFESSOR

DEPARTMENT : ELECTRONICS & COMMUNICATION ENGINEERING

EMAIL ID : kpd@aitsrajampet.ac.in

 kasigariprasad@gmail.com

DATE OF JOINING: 10.12.2007 & 01.12.2011

EMPLOYEE ID :

## Academic Profile

| **Qualification** | **Name of the Board/University** | **YEAR** |
| --- | --- | --- |
| **PhD** | Sri Satya Sai University of Technology & Medical Sciences, Sehore, Bhopal, Madhya Pradesh. India. | **2018** |
| **M. Tech** | Jawaharlal Nehru Technological University, Anantapuramu, Andhra Pradesh, India. | **2012** |
| **B. Tech** | Jawaharlal Nehru Technological University, Hyderabad, Andhra Pradesh, India | **2007** |
| **Board of Intermediate Education** | Sri Shirdi Sai Junior College, Rajampet, Kadapa District, Andhra Pradesh from **Board of Intermediate Education**, Andhra Pradesh, India in the year 2001-2003. | **2003** |
| **SSC** | Jawahar Navodaya Vidyalaya, N.R.Palli, Rajampet, Kadapa District, Andhra Pradesh from **Central Board of Secondary Education** in the year 2000-2001. | **2001** |

## Research Details

1. **Areas of Specialization:**

Antennas & Wave propagation,

Electromagnetic Theory,

Wireless Communications.

1. **List of Publications:**
2. **K.Prasad,** N.Sreekanth, B.Abdul Rahim. 2012. Comparitive Analysis of Fractal Antennas, *International Journal of Communications and Engineering.* 3(1): 196 – 207.ISSN NO 0988-0382E
3. **K.Prasad,** 2012. “Handwriting: Changing the phase of the Nation” *International journal of multidisciplinary educational research 1*(4): 314-332, ISSN : 2277-7881
4. **K.Prasad**, K.Ramudu, B.Abdul Rahim, 2012. Compensation of Inter Carrier Interference in OFDM systems by using Self cancellation scheme. *“International Journal of Advanced research in Technology”* 2(3):6-12. ISSN: 6602 3127.
5. C.SatyaHaritha. **K.Prasad.** 2015. Performance Analysis of ICI in OFDM systems using self-cancellation and Extended kalman filtering. *International Journal of Advanced research in Electronics and communication Engineering,* 4(7): 2064-2069.ISSN:2278-909X
6. Venkata Subbaiah Y, **Prasad K** 2015. Linear Pre-coder Design to Minimize Peak to Average Power Ratio (PAPR) For MIMO-OFDM System, *International journal & Magzine of Engineering Technology management & research* 2(7): 202-208.ISSN No 2348-4845
7. **Prasad K,** B. Lakshmi Devi. 2016. Design and simulation of wide Band Square Micro-strip Patch Antenna, *International Journal of Advanced research in computer and communication Engineering* 5(7): 457-460. DOI: 10.17148/IJARCCE.2016.5790, ISSN: 2278 – 1021.
8. **K.Prasad,** S.Muneera Begum, 2016. Novel approach to the design and simulation of square spiral antenna, *International journal of Research in Engineering Technology,* 1(5):6-10, ISSN:2455-1341, Open Access
9. **K.Prasad,** C.Santhoshini 2016. A Review on Neoteric Blade antenna for Airborne *International Journal of Advanced Trends in Engineering, Science and Technology(IJATEST),* 4(1): 38-43.
10. **Prasad K,** M.Lakshmi Prasanthi, K.Likitha, R.Lakshmi Prasanna. 2016. A brief study on basic antenna types for wireless communications *International Journal of Advanced Trends in Engineering, Science and Technology*, 1-4. ISSN: 2395-1303, Open access.
11. **K.Prasad,** R.P.Singh, N.Sreekanth 2016. A Systematic survey on Blade antennas for Airborne applications. *International Journal of Advanced Trends in Engineering, Science and Technology*, 4(1), 17-22.
12. **K.Prasad,** K.Narendra2017. Design of Circular Patch Fractal Antenna by using Sierpinski Carpet Geometry, *International Journal of Advanced Scientific Technologies in Engineering and Management Sciences* 3(11): 22 -26.ISSN:2454-356X
13. **K.Prasad,** R.P.Singh, N.Sreekanth 2017. Modeling and Investigation of Blade antenna with and without single ring resonator*. International journal of Advanced Research in science and Engineering,* 6(1): 569-573. ISSN: 2319-8354
14. **K.Prasad,** R.P.Singh, N.Sreekanth 2017. Comparitive Investigation of Blade antenna in S band for airborne applications, *Journal of advanced research in dynamical and control system*, 9(12): 1969-1976 ***Scopus***
15. **K.Prasad,** R.P.Singh, N.Sreekanth. 2018. An Enhanced Bandwidth Blade Antenna model for Air borne applications, *International Journal of Engineering and Techniques*, 1-4. ISSN: 2395-1303, Open Access.
16. **K.Prasad,** R.P.Singh, N.Sreekanth 2018. Design and analysis of blade antenna using diverse rectangular substrates with SSRR and SRR. *International journal of pure and applied mathematics,* 118(14): 295-300.ISSN:1314 – 3395 ***Scopus***
17. **Prasad K,** B. Chaitanya Lahari,K. Adi Lakshmi. 2019. A Methodical Review on Yagi Uda Antenna for Broadcasting Applications. *International Journal of Engineering Research,* 8 (2): 115-117. ISSN:2319-6890
18. **Prasad K**, K.Adilakshmi, K. Harsha Vardhan 2019. Design Of Miniaturized Multi-Band Metamaterial Planar Patch Antenna (Mmmpp) For Atmospheric Sureillance And Air Traffic In L Band. *International Journal of Engineering Research,* 8 (1): 59-62. ISSN:2319-6890
19. **Prasad K**, 2019. “Investigation of Blade Antenna with different Resonating shapes” *Smart computing and Informatics SCI.*  ***Web of Science***1: 313-318. DOI: DOI: 10.1007/978-981-32-9690-9\_31
20. **Prasad K**, S.Imran Basha, Y.Keerthi, D.S.Ifsha Tabassum. 2020 “Design and modelling of miniaturized inverted e-shaped textile antenna for ISM applications” *The International journal of analytical and experimental modal analysis*. 12(4): 1971 – 1925. ISSN : 0886-9367, DOI:18.0002.IJAEMA.2020.V12I3.200001.0156526
21. **K.Prasad,** R.P.Singh, 2021 “A Systematic synthesis and analysis of linear antenna arrays using Matlab”. *Cybernetics, Cognition, and Machine Learning for Communication Technologies – lecture Notes –* ***Springer – Scopus***643: 445 -454. DOI:10.1007/978-981-15-3125-5\_43.
22. **K.Prasad,** P.Kishore Kumar 2021 “Design and investigation of the performance of composite spiral antenna for direction finding applications” *Cybernetics, Cognition, and Machine Learning Applications.* 2 : 375-386 ***Springer – Scopus***DOI: 10.1007/978-3-030-68291-0\_30
23. **Prasad K,** K.Lakshmi Prasanna, O.Bhavya Sree, S.Basha, K.Divya. 2021. Design of miniacturized dual band microstrip antenna for wireless LAN Applications, *Journal of Interdisciplinary cycle research,* 3(16): 1428-1432. ISSN: 0022-1945. DOI:18.0002.JICR.2021.V13I6.008301.3171229128.
24. **K. Prasad,** M. Venugopal, T. Yogeswar Reddy, V. Surendrababu, B.Sreenivasulu. 2021. Real time water quality monitoring sytem, *Journal of Interdisciplinary cycle research.* 13(6): 1433-1438. DOI:18.0002.JICR.2021.V13I6.008301.3171229129.
25. **Prasad K**, N.Ratna Kumari, T.Pravallika, K.Rohit Reddy, N.Sai Sumanth, 2022. “Gender and age detection using convolutional neural networks on real time stream”, *Journal of Information and Computational Science.*12 (5): 88-97. ISSN: 1548-7741, DOI:10.12733.JICS.2022.V12I05.535569.58012
26. **Prasad K**, J.Soumika, K.Supreeth Reddy, B.Sumitra, D.Sudharshan, 2023. “Design Simulation and analysis of wide band directional antenna using Artificial Magnetic Conductor for Ultra wide band Applications”, *Journal of Information and Computational Science.*13 (3): 54-64. ISSN: 1548-7741, DOI: 10.12733.JICS.2023.V13I3.535569.77617, <https://drive.google.com/file/d/108pDOOSSW_O9Khr8kQVHtM_sHzrwJfNn/view>
27. **K. Prasad K**, C. Baba Faqruddin, C. Chetan Kumar, A. Greeshma Sree,G. Bhavitha 2023. “Smart Bag with Safety And Real Time Tracking: To Prevent Thefting And Human Trafficking”, “*International Journal of All Research Education and Scientific Methods”(IJARESM).*11(3):198-204. ISSN: 2455-6211, Impact Factor: 7.429
28. **Kasigari Prasad,** “A comprehensive survey of metamaterials based Microstrip patch antenna for multiband applications”, *Educational Administration: Theory and Practice,* 29(4), 1221-1234, 2023.
29. **Kasigari Prasad, “**Ai-Driven Optimization of Iot Antenna Design for Enhancing Efficiency, Adaptability, and Performance”, *Journal of Harbin Engineering University,* ISSN: 1006-70431, Vol 45 No.6, June 2024, Page No: 1-8.
30. **Kasigari Prasad, “**Ai-Driven Optimization of Iot Antenna Design for Enhancing Efficiency, Adaptability, and Performance”, *Journal of Harbin Engineering University,* ISSN: 1006-70431, Vol 45 No.6, June 2024, Page No: 1-8.
31. **Kasigari Prasad,** S.Vandana, G.Sudharshan, A.Srinivasulu, M.Madhav Varma, “Development OF a Portable Emergency Ham Radio Communication System For Disaster Response”,” *IEEE Conference: 2025 International Conference on Computer, Electrical & Communication Engineering (ICCECE),* February 2025.
32. **Kasigari Prasad,** Moving Drone Based on Track Association using Ebola Optimized Sparse DAE Network for Vehicle Tracking”, *Journal of Information Systems Engineering and management* – ISSN:2468-4376 (Under Processing – Accepted).
33. **Awards Received:**
34. Received **International Young Investigator Award** from IR NET – INDIA in 2012
35. Received **Best Educators Award** from International Association Of Research And Developed Organization, India in 2019
36. Received **Best Engineer Award** from Institution Of Engineers, India in 2015
37. Received **The Jewel Of Rajampet Award** from Regency Educational Institutions, Andhra Pradesh in 2015
38. Received **Best Teacher Award** from Jawahar Navodaya Vidyalaya, Kadapa in 2020
39. Received Best Engineers Award from Institution of Engineers (India) Kadapa in the year 2023
40. Received **Best Teachers Award** from Lions Club (India) – Rajampet in September - 2023
41. Received **Best Education Influencer Award** from the Bharatiya Janatha Party division – Rajampet in September 2023
42. Research Guidance:
43. No. of PhD Guided: 02
44. No. of M. Tech Guided: 06
45. No. of B. Tech Guided: 25
46. Details of Professional Membership:
* Institution of Engineers (India) -AMIE – AM155572-6
* Institute for Engineering Research & Publications -IFREP-PMIN23465870
* International Association of Engineers IAENG -320777
1. Subjects Taught:
* Antennas & Wave Propagation
* Electromagnetic Waves & Transmission Lines
* Microwave Engineering
* Optical Fiber Commendations
* Wireless Communications
* Cellular Mobile Communications
* Satellite Communications
* Radar Engineering
* Television Engineering
* Digital Image Processing
* Electronic Circuit Analysis
* Basic Electronics Engineering
* Probability Theory & Stochastic Process
* Introduction to Communication Systems
* Data Communication Systems
* Principles of Communication Systems
* Design Thinking & Innovation

## Publication Details

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| --- | --- | --- |
| **Title**  | **Publisher** | **Published Year** |
|
| Compensation of Inter Carrier Interference in OFDM Systems by using Self Cancellation Scheme | IJART | 2012 |
| HANDWRITING- CHANGING THE FACE OF THE NATION | International Journal of Multidisciplinary Educational Research | 2012 |
| Comparative Analysis of Fractal Antennas | International Journal of Communications and Engineering | 2012 |
| Performance Analysis of ICI in OFDM systems using self cancellation and Extended Kalman Filtering | International Journal of Advanced Research in Electronics and Communication | 2015 |
| Linear Pre-coder Design to Minimize Peak to Average Power Ratio (PAPR) For MIMO-OFDM System,  | International journal & Magazine of Engineering Technology management & research | 2015 |
| Design and simulation of wide Band Square Micro-strip Patch Antenna,  | International Journal of Advanced research in computer and communication Engineering | 2016. |
| Novel approach to the design and simulation of square spiral antenna | International Journal of Research in Engineering Technology | 2016 |
| A review on neoteric blade antenna for Airborne applications | International Journal of Advanced Trends in Engineering Science and Technology | 2016 |
| A brief study on basic antenna types for wireless communications  | International Journal of Advanced Trends in Engineering, Science and Technology, | 2016. |
| A Systematic survey on Blade antennas for Airborne applications.  | International Journal of Advanced Trends in Engineering, Science and Technology,  | 2016 |
| Design of Circular Patch Fractal Antenna by using Sierpinski Carpet Geometry  | International Journal of Advanced Scientific Technologies in Engineering and Management Sciences | 2017. |
| Modeling and Investigation of Blade antenna with and without single ring resonator.  | International journal of Advanced Research in science and Engineering, | 2017. |
| Comparative Investigation of Blade antenna in S band for airborne applications,  | Journal of advanced research in dynamical and control system, | 2017 |
| An Enhanced Bandwidth Blade Antenna model for Air borne applications,  | International Journal of Engineering and Techniques, | 2018 |
| Design and analysis of blade antenna using diverse rectangular substrates with SSRR and SRR | International Journal of Pure and Applied Mathematics | 2018 |
|  A Methodical Review on Yagi Uda Antenna for Broadcasting Applications.  | International Journal of Engineering Research  | 2019 |
| Design Of Miniaturized Multi-Band Metamaterial Planar Patch Antenna (Mmmpp) For Atmospheric Surveillance And Air Traffic In L Band.  | International Journal of Engineering Research,  | 2019 |
| Investigation of Blade Antenna with different Resonating shapes | Smart computing and Informatics SCI.  | 2019 |
| Design and modelling of miniaturized inverted e-shaped textile antenna for ISM applications | The International journal of analytical and experimental modal analysis. | 2020 |
| A Systematic synthesis and analysis of linear antenna arrays using MATLAB.  | Cybernetics, Cognition, and Machine Learning for Communication Technologies | 2021 |
| Design and investigation of the performance of composite spiral antenna for direction finding applications | Cybernetics, Cognition, and Machine Learning Applications. | 2021 |
| Design of miniaturized dual band microstrip antenna for wireless LAN Applications,  | Journal of Interdisciplinary cycle research, | 2021 |
| Real time water quality monitoring system,  | Journal of Interdisciplinary cycle research. | 2021 |
| Gender and age detection using convolutional neural networks on real time stream | Journal of Information and Computational Science. | 2022 |
| Design Simulation and analysis of wide band directional antenna using Artificial Magnetic Conductor for Ultra-wide band Applications”,  | Journal of Information and Computational Science. | 2023 |
| Smart Bag with Safety and Real Time Tracking: To Prevent Thefting and Human Trafficking  | International Journal of All Research Education and Scientific Methods. (IJARESM). | 2023 |
| A comprehensive survey of metamaterials based Microstrip patch antenna for multiband applications. | Educational Administration: Theory and Practice  | 2023 |
| Ai-Driven Optimization of Iot Antenna Design for Enhancing Efficiency, Adaptability, and Performance | Journal of Harbin Engineering University | 2024 |
| Design and Modelling of Frequency Reconfigurable Antenna by Using Bow-Tie Geometry | Cognitive Computing and Cyber Physical SystemsPublished in: Cognitive Computing and Cyber Physical SystemsPublisher: Springer Nature Switzerland | 2025 |
| Development OF a Portable Emergency Ham Radio Communication System For Disaster Response | IEEE Conference: 2025 International Conference on Computer, Electrical & Communication Engineering (ICCECE), | February 2025. |

## Books Published

1. **Engineering – A weapon to change the World – Kasigari Prasad,** IIP Publications – ISBN : 978-93-5747-063-6
2. **Kasigari Prasad, Revolution – *Realization at all levels for better society,*** Research India publications, ISBN: 978-93-84144-24-1
3. **Graphology –** A systematic and scientific method to Personality development
4. **Constitution of India: A comprehensive Guide for Engineering students –** ISBN: 978-1-68576-527-9, Selfypage Developers Pvt Ltd. – Iterative International Publisher

## Patent Details

| **Sno.** | **Title of Patent** | **Submitted/Published/Awarded** |
| --- | --- | --- |
| **1** | IOT sensors based multi-functional and intelligent walk guiding stick for visual disabled person. | **Published** 2019410516032019.Intellectual property India |
| **2** | System for walking Assistance device for visually impaired person using Machine Learning. | **Published** 2020140073512020.Intellectual property India |