

## Faculty Profile



**Name:** Dr. P ADAVALA AKHENDRA KUMAR

**Designation:** Senior Assistant Professor

**Teaching Areas:** VLSI, Signal Processing and Machine learning

**Research Interests:** Analog/RF VLSI

### Education:

- Ph.D, from National Institute of Technology Warangal in 2018
- M.tech from GMRIT(JNTU K) in 2011
- B.tech from BVCITS(JNTU H) in 2008.

### Research / Selected Publications: (Journals-14)

#### Ph.D Guided: 02

1. **P Akhendra Kumar**, Puranam Revanth Kumar, Rajesh Kumar Jha, P Brain hyperintensities: automatic segmentation of white matter hyperintensities in clinical brain MRI images using improved deep neural network, The Journal of Super computing, 2024, Doi: Springer, 10.1007/s11227-024-06080-2.
2. **P Akhendra Kumar** and Keerthi Somraj Design analysis of a multi-port 8-shaped inductor for RF applications, October 2023, 023 Eng. Res. Express 5 045023.
- 3.
4. **P. Akhendra Kumar**, A N Kiran, N. Bheema Rao, High quality factor fractal inductor with complementary split-ring array inclusion, Circuit World, Jan 2020, Pages 1–6, DOI: 10.1108/CW-06-2019-0052 (SCI).
5. **P. Akhendra Kumar**, N. Bheema Rao, Series stacked fractal inductor for Radio frequency Applications, IET Electronics Letters, Volume 53, Oct 2017, Pages 1387–1388, DOI : 10.1049/el.2017.2623 (SCI).
6. **P. Akhendra Kumar**, N. Bheema Rao, Fractal spiral capacitor for Wireless Applications, IET Electronics Letters, Volume 52, April 2017, Pages 481–483, DOI: 10.1049/el.2015.3420 (SCI).

### Research / Selected Publications: (Conferences-14)

1. **Keerthi Somaraj, P Akhendra kumar**, Analysis and Implementation of a Multi-path and Metal Stacked 8-Shaped Inductor, Springer Lecture Notes in Electrical Engineering, Vol 992, May 2023, PP, 27-35.
2. **P. Akhendra Kumar**, N. Bheema Rao, High Q miniature fractal inductor based 2.4 GHz Low Noise Amplifier, ICIET - 2022 (Presented)