



DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE Affiliated to JNTU Kakinada)

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FACULTY PRPOFILE

Name of the Faculty Dr M Venkateswara Rao

Designation Assistant Professor

Date of Joining 11-02-2020

Nature of Association Regular

Email & Phone No mvenkatesh8692@gmail.com & 9441241642

Department Electronics and Communication Engineering

Educational Background

1. Phd in Metamaterial Microwave Antennas

2. M. Tech (Microwave and Communication Engineering) from PVPSIT, JNTU KAKINADA

3. B. Tech (ECE) from PPDCET, JNTU KAKINADA

Areas of Specialization

Microwave antennas, Microstrip antennas and communications

Research Areas

Antennas, Metamaterials, Metamaterial Absorbers, Biomedical antennas, Vehicular communication, Frequency selective surfaces, Artificial Magnetic conductors

Teaching/Research Experience

01/03.5 Years -Total 4.5 Years



Sl. No	Institute	Designation	Period
1	Dhanekula Institute of Engineering & Technology, Ganguru	Assistant Professor	11-02-2020 - till date
2	Koneru Lakshmaiah Education Foundation (Deemed to be University)	Research Assistant	01-07-2016 - 26-10-2019

List of Publications (National and International Journals):

SCI

- [1] *Venkateswara Rao*, M., Madhav, B. T., (2019). CSRR-loaded T-shaped MIMO antenna for 5G cellular networks and vehicular communications. *International Journal of RF and Microwave Computer-Aided Engineering*, 29(8), e21799.
- [2] *Rao, M. V.*, Madhav, B. T. P., (2018). Metamaterial inspired quad band circularly polarized antenna for WLAN/ISM/Bluetooth/WiMAX and satellite communication applications. *AEU-International Journal of Electronics and Communications*, 97, 229-241.
- [3] *Venkateswara Rao*, Manikonda, et al. "Circularly polarized flexible antenna on liquid crystal polymer substrate material with metamaterial loading." *Microwave and Optical Technology Letters*.
- [4] Madhav, B. T. P., *Rao, M. V.*, (2018). Conformal Band Notched Circular Monopole Antenna Loaded with Split Ring Resonator. *Wireless Personal Communications*, 103(3), 1965-1976.
- [5] Prudhvi Nadh, B., Madhav, B. T. P., & *Venkateswara Rao, M.* (2019). Circular ring structured ultra-wideband antenna for wearable applications. *International Journal of RF and Microwave Computer-Aided Engineering*, 29(4), e21580
- [6] Madhav, B. T. P., *Venkateswara Rao, M.*, (2018). Asymmetric ground structured circularly polarized antenna for ISM and WLAN band applications. *Progress In Electromagnetics Research*, 76, 167-175.
- [7] Deepak, Bandhakavi Srikanth, Madhav B T P, *M Venkateswararao* et al. "Design and analysis of hetero triangle linked hybrid web fractal antenna for wide band applications." *Progress In Electromagnetics Research* 83 (2018): 147-159.
- [8] Prudhvi Nadh, B., Madhav, B. T. P., Siva Kumar, M., Anilkumar, T., *Venkateswara Rao, M.*, & Kishore, P. V. V. (2020). Windmill-shaped antenna with artificial magnetic conductor-backed structure for wearable medical applications. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*.
- [9] Tilak, G. B. G., Kotamraju, S. K., Madhav, B. T. P., Sri Kavya, K. C., & *Venkateswara Rao, M.* (2020). Dual sensed high gain heart shaped monopole antenna with planar artificial magnetic conductor. *Journal of Engineering Science and Technology*, 15(3), 1952–1971.
- [10] Anilkumar, T., Madhav, B. T. P., *Venkateswara Rao, M.*, & Prudhvi Nadh, B. (2020). Bandwidth reconfigurable antenna on a liquid crystal polymer substrate for automotive communication applications. *AEU - International Journal of Electronics and Communications*, 117.
- [11] Vinitha , M Sivakumar, B T P Madhav, *M Venkateswararao* [2020] Srr Based Tri-Mode Resoanant Microstrip Bandpass Filter For Wlan Applications. *Journal of Engineering Science and Technology*, ,Article in Press
- [12] Tilak, G. B., Kotamraju, S. K., Madhav, B. T., Kavya, K. C., & *Rao, M. V.* (2020). AMC backed

circularly polarized dual band antenna for Wi-Fi and WLAN applications. Journal of Electrical Engineering, 71(5), 298-307.

PATENTS:

[1] Enhancement of Quality of service in wireless Sensor Network by Redundant Sensors Controlling

Application Number- 202041051968 , Application Ref Number- 202041051968, Filing Date- 28/11/2020 .

SCOPUS/E-SCI

- [13] *Venkateswara Rao, M.*, Madhav, B. T. P., Naveen, T., Sai Prashanth, N., & Niharika, B. (2019). Met material loaded rectangular monopole antenna with ultra-wideband applications. International Journal of Recent Technology and Engineering, 8(1), 1573–1576.
- [14] Madhav, B. T. P., *Venkateswara Rao, M.*,(2018). Compact metamaterial inspired periwinkle shaped fractal antenna for multiband applications. International Journal of Engineering and Technology(UAE), 7(1.1), 507–512. <https://doi.org/10.14419/ijet.v7i1.1.10157>
- [15] Madhav, B. T. P., Thirumalarao, K., *Rao, M. V.*,(2018). Metamaterial inspire multiband monopole antenna with defected ground structure. International Journal of Engineering and Technology(UAE), 7(1.5 Special Issue 5), 90–96. <https://doi.org/10.14419/ijet.v7i1.5.9128>
- [16] Priyadarshini, B., Madhav, B. T. P., *Venkateswara Rao, M.* (2019). A compact semi square split ring resonator slotted flag shaped mimo antenna for band notched uwb applications. International Journal of Recent Technology and Engineering, 8(1), 3011–3018.
- [17] Kishore, M. P., Madhav, B. T. P., & Rao, *M. V.* (2019). A CPW-fed elliptically curved antenna design for multiband operation with metamaterial loading. International Journal of Innovative Technology and Exploring Engineering, 8(7), 120–125.
- [18] Sanam, N., Madhav, B. T. P., *Venkateswara Rao, M.*(2019). A flag-like MIMO antenna design for wireless and IoT applications. International Journal of Recent Technology and Engineering, 8(1), 3023–3029.
- [19] Naik, D. K., Madhav, B. T. P., Krishna, J., *Venkateswara Rao, M.*,(2019). CSRR loaded miniaturized 5G antenna for vehicular communication appliance. International Journal of Innovative Technology and Exploring Engineering, 8(7), 786–791.
- [20] Raghavaendra Rao, P., Madhav, B. T. P., Deepthi, C. H., *Venkateswararao, M.*,(2019). Design and analysis of multi-band met material antenna for wireless and IOT applications. International Journal of Recent Technology and Engineering, 8(1), 334–340.
- [21] Anilkumar, T., Madhav, B. T. P., Hawanika, Y. S., *Venkateswara Rao, M.*, & Prudhvi Nadh, B. (2019). Flexible liquid crystal polymer based conformal fractal antenna for Internet of Vehicles (IoV) applications. International Journal of Microwave and Optical Technology, 14(6), 423–430.
- [22] Saravanan, R. A., Madhav, B. T. P., *Venkateswararao, M.*,(2019). Frequency and pattern reconfigured multi band cpw antenna for wimax and x-band applications. International Journal of Innovative Technology and Exploring Engineering, 8(6), 1202–1208.
- [23] Sai Sivakumar, B., Pardha Saradhi, P., Madhav, B. T. P., *Venkateswara Rao, M.*, & Kesava Sai, G. (2019). Meta-material inspired monopole antenna for LTE/bluetooth/Wi-max subsystems. International

Journal of Recent Technology and Engineering, 8(1), 3019–3022.

- [24] Pokkunuri, P., Madhav, B. T. P., Sai, G. K., *Venkateswararao, M.*, (2019). Metamaterial inspired reconfigurable fractal monopole antenna for multiband applications. International Journal of Intelligent Engineering and Systems, 12(2), 53–61. <https://doi.org/10.22266/ijies2019.0430.06>
- [25] Kishore, M. P., Madhav, B. T. P., & *Rao, M. V.* (2019). Metamaterial loaded elliptical ring structured mimo antenna. International Journal of Engineering and Advanced Technology, 8(6), 1798–1801. <https://doi.org/10.35940/ijeat.F8457.088619>
- [26] Madhav, B. T. P., Babu, M. A., Kumar, P. V. S. P., *Rao, M. V.*, (2018). Cylindrical Structured Multiple-Input Multiple-Output Dielectric Resonator Antenna. In Lecture Notes in Electrical Engineering (Vol. 471, pp. 589–597). Springer Verlag. https://doi.org/10.1007/978-981-10-7329-8_60
- [27] Saleem Akram, P., Madhav, B. T. P., Jeevana Sravya, G., Sudhakar, V., Lakshmi Sirisha, G., Mounika, C., & *Venkateswara Rao, M.* (2018). Design and analysis of square shaped serrated patch antenna for ultra-wideband applications with single rejection band. International Journal of Engineering and Technology(UAE), 7(1.1), 525–529. <https://doi.org/10.14419/ijet.v7i1.1.10160>
- [28] Ajay Babu, M., Madhav, B. T. P., Bhargavi, G., Sai Krishna, V., Hemanth Kumar Reddy, Y., Kalyan, G. V. S., & *Venkateswara Rao, M.* (2018). Design and analysis of stepped reconfigurable rectangular patch antenna for LTE, vehicular and ultra wideband applications. International Journal of Engineering and Technology(UAE), 7(1.1), 548–553. <https://doi.org/10.14419/ijet.v7i1.1.10164>
- [29] Vasujadevi, M., Madhav, B. T. P., Shiva Skandan, A., Rajeswari, P., Arjun Rao, K., Khyathi Reddy, K., & *Vekateswara Rao, M.* (2018). Maple leaf shaped array antenna for multiband applications. International Journal of Engineering and Technology(UAE), 7(1.1), 494–499. <https://doi.org/10.14419/ijet.v7i1.1.10153>
- [30] Ramakrishna, T. V., Madhav, B. T. P., *Venkateswara Rao, M.*, Babu Rao, A., Sunaina, A., Avinash, A., & Shivani, B. (2018). SRR loaded half -mode substrate integrated waveguide monopole slot antenna for multiband applications. International Journal of Engineering and Technology(UAE), 7(1.1 Special Issue 1), 560–564. <https://doi.org/10.14419/ijet.v7i1.1.10166>
- [31] Madhav, B. T. P., Reddy, V. S., Reddy, D. R., Sankar, K. R., Ramanujan, E. V. S. H., Prakash, V. V. S., & *Rao, M. V.* (2018). Tree shaped fractal antenna with multiband characteristics. International Journal of Engineering and Technology(UAE), 7(1.1 Special Issue 1), 333–338. <https://doi.org/10.14419/ijet.v7i1.1.9847>
- [32] Sujatha, M., Madhav, B. T. P., Prakhya, V., Akhila, B., Gowtham, N., Mozammil, S., & *Rao, M. V.* (2018). Tristrip monopole antenna with split ring resonators for ism band biomedical applications. Indian Journal of Public Health Research and Development, 9(6), 301–305. <https://doi.org/10.5958/0976-5506.2018.00568.5>
- [33] Madhav, B. T. P., Khan, H., Sri Harsha, B., Sai Kumar, P., Lavanya, M., Veena, K., & *Venkateshwara Rao, M.* (2018). X-Slotted circularly polarized antenna with parasitic patches. International Journal of Engineering and Technology(UAE), 7(1.1), 534–538. <https://doi.org/10.14419/ijet.v7i1.1.10162>
- [34] Madhav, B. T. P., Subbareddy, V., *Venkateswara Rao, M.*, (2017). A high gain metamaterial inspired vivaldi antenna for ultrawide band applications. Journal of Advanced Research in Dynamical and Control Systems, 9(Special Issue 14), 2078–2086
- [35] Madhav, B. T. P., Sai Santosh, T., *Venkateswara Rao, M.*, Sai Manikanta, S., Srinivas, K. B. V., & Hanumath Sastry, J. (2017). A novel ultra wideband mimo antenna with wimax band notch

characteristics. Journal of Advanced Research in Dynamical and Control Systems, 9(Special Issue 14), 2094–2103.

[36] Subbareddy, V., Madhav, B. T. P., Prathyusha, S., Gopi Janardhan, G., Kalpanath, N., & **Venkateswara Rao, M.** (2017). A printed staircase serrated CPW antenna for UWB applications. ARPN Journal of Engineering and Applied Sciences, 12(15), 4483–4488.

[37] Pardhasaradhi, P., Madhav, B. T. P., Vineel, M., Meghanadh Sai, K., Sharmada, M. R., Rahul, M., & **Venkateshwara Rao, M.** (2017). Bow-tie slot antenna for WLAN/WiMAX communication systems. Journal of Advanced Research in Dynamical and Control Systems, 9(Special Issue 14), 1840–1849.

[38] Prakash, B. L., Madhav, B. T. P., Lokesh, T., Sri, Y. R., Aditya, N. V. D. S., & **Rao, M. V.** (2017). Metamaterial inspired tri-band antenna with SRR and Shorting STUB. ARPN Journal of Engineering and Applied Sciences, 12(21), 6197–6205.

[39] Madhav, B. T. P., Reddy, M. V. K. C., **Rao, M. V.**, Krishna, C. M., Raj, P. C., & Jaya, G. (2017). Quad band filtenna using split ring resonators to notch unwanted frequencies in medical application bands. Journal of Theoretical and Applied Information Technology, 95(9), 2070–2077.

[40] Tilak, G. B. G., Kotamraju, S. K., Madhav, B. T. P., Sri Kavya, C., & **Venkateswara Rao, M.** (2019). Broken heart shaped monopole antenna for WiMAX applications. International Journal of Recent Technology and Engineering, 8(2), 2333–2337.

[41] Anilkumar, T., Madhav, B. T. P., Venkata Abhiram, R., Nikhil Sai Radhesh, K., Harish, J., & **Venkateswara Rao, M.** (2021). Analysis of CPW-Fed Modified Z-Shaped Reconfigurable Antenna for Automotive Communications. In Lecture Notes in Electrical Engineering (Vol. 655, pp. 709–717). Springer. https://doi.org/10.1007/978-981-15-3828-5_74

[42] Lakshmi, M. L. S. N. S., Madhav, B. T. P., Khan, H., **Venkateswara Rao, M.**, & Madhumati, G. L. (2020). Triple notch reconfigurable parasitic monopole patch antenna with defected ground structures. International Journal of Microwave and Optical Technology, 15(4), 318–324

Total Publications	SCI Indexed	Scopus INDEXED	UGC Indexed
60	12	30	18

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57210294053>

ORCID ID: <http://orcid.org/0000-0002-8766-9123>

Achievements / Awards etc.,

1. Gate Qualified : March 2013.
2. Conducted One day program on RF antenna Design in Ramachandra college Eluru
3. Conducted One day program on Antenna Design using HFSS in Andhra Loyola college Vijayawada
4. Won best paper award in ATMS 2019 held at Chennai



M Venkateswara Rao