



## BIO-DATA

1	Name of the Faculty	<b>Dr. K. MADHUSUDHANA RAO</b>
2	Father's Name	Late Sri.K.Sreeramulu
3	Mother's Name	Late Smt.K.Satyanarayanamma
4	PAN NO	AITPK8414H
5	Department	ECE
6	Present Designation	Professor
7	Date of Birth	01/07/1965
8	Place of Birth	Giddalur, Prakasam district
9	Sex	Male
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## Educational Qualification:

S.No	Qualifications	Name of the Institution	University	Specialization	Year of Passed
1.	B.Tech	SRKR Engineering College, Bhimavaram	Andhra University Vishakapatnam	Electronics & Communication Engineering	1989
2.	M.Tech	NEC, Narasaraopet	JNTU Hyderabad	D.E.C.S	2008
3.	Ph.D	Acharya Nagarjuna University, Guntur	Acharya Nagarjuna University, Guntur	Novel techniques for Planar Antenna Design and Synthesis for Commercial Wireless applications	May'2021

## Professional Experience: 31+ Years of Teaching Experience

S.No	Name of the Institution	Position Held	Duration
1.	C.R.Polytechnic Chilakaluripet Guntur(Dt)	Lecturer in ECE Dept.	22-01-1990 to 12-10-2007(17 years)
2.	Priyadarshini Institute Of Technology and Science, Tenali	Professor & HOD in ECE Dept.	22-10-2007 to 07-06-2010(3 years)
3.	KKR & KSR Institute of Technology and Sciences, Guntur	Professor in ECE	14-06-2010 to 30-11-2024

## Professional Memberships:

- LIFE MEMBER IN ISTE(LM11063 )
- MEMBER IN IAENG(170063)

## Additional Duties:

- Internal Examination Co-Ordinator
- NBA,NAAC- Criteria 2

## Subjects Taught:

1. Electronic Devices and Circuits (EDC)
2. Electronic Circuit Analysis (ECA)
3. Electronic Measurements and Instrumentations (EMI)
4. Switching Theory and Logic Design (STLD)
5. Data Communication for CSE(DC)
6. Pulse and Digital Circuits (PDC)
7. Linear Integrated Circuits and Applications (LICA)
8. Cellular Mobile Communications (CMC)
9. Radar Systems (RS)
10. Computer Architecture and Organization (CAO)
11. Computer Networks (CN)
12. Internet of Things (IOT)
13. Basic Electric & Electronic Engineering (BEEE)....

In addition, the laboratories of EDC, PDC, STLD ,BEEE are handled.

## Number of Publications: 18

1. **K. MadhuSudhana Rao**, Dr. P.V. Naganjaneylu “an extended companding algorithm for PAPR in OFDM” in IJRSAE vol.2(4), ISSN: 2390-6106 on 2012.
2. **K. MadhuSudhana Rao**, venkata Naryana Eluri & A.srinag “Wireless solution for water saving in agriculture using embedded systems” in IJCSBI vol.2, NO.1, June 2013, ISSN: 1694-2108.
3. **K. MadhuSudhana Rao**, T. Revathi “A novel fault detection method for memory applications using EG-LDPC” in IJEECS vol.2,issue 10.2014, ISSN (online): 2347-2890.
4. **K. MadhuSudhana Rao**, P. Malleswari “Design of Tri band antenna for MIMO applications” in IJRTET vol.6,issue 3, NOV 2015, ISSN:2371-XX78.
5. **K. MadhuSudhana Rao**, M.Loknath “Design of UWB Dual Notch Antenna for WBAN

applications ” in IJAEM Vol.05,Sept2016,pp.39-43, ISSN 2320-3439.

6. **K. MadhuSudhana Rao**, P. Kranthi “ Design An Efficient Built In Self Test Pattern For Memory Access” InWRFER international Conference,June 2017
7. **K. MadhuSudhana Rao**, “Design of Micro Strip Antenna for WLAN Applications” in International Journal of Applied Sciences, Engineering and Management ISSN 2320 – 3439, Vol. 06, No. 03, May 2017, pp.52-55
8. **K. MadhuSudhana Rao**, “ Design and Simulation of UWB Hexagonal Patch Antenna in International Journal of Applied Sciences, Engineering and Management ISSN 2320 – 3439, Vol. 06, No. 03, May 2017, pp.56-57
9. **K. MadhuSudhana Rao**, M.V.S. Prasad “Performance of Slotted Hexagonal Patch for Wireless Applications” © Springer Nature Singapore Pte Ltd. 2017 S.C. Satapathy et al. (eds.), Computer Communication, Networking and Internet Security, Lecture Notes in Networks and Systems 5, DOI 10.1007/978-981-10-3226-4\_56
10. **K. MadhuSudhana Rao**, M.V.S. Prasad “Design of UWB elliptical notch antenna for wireless applications”. in International Journal of Research January 2018.
11. **K.MadhuSudhana Rao** and M V S Prasad, “Design and implementation of Planar antenna techniques for commercial wireless applications”, Jour of Adv Research in Dynamical & Control Systems, Vol. 10, No. 4, 2018, pp.125-131. (Scopus Journal)
12. **K. MadhuSudhana Rao** and M V S Prasad, “Design performance of UWB antenna for portable devices applications”, Indian journal of science and technology, Vol.11, no. 44, 2018. (UGC Journal)
13. **K. MadhuSudhana Rao** and M V S Prasad, “Design of Microstrip patch antennas at UWB for wireless applications”, Journal of Engineering and Applied Sciences, Vol.14, No.14, 2019, pp. 4728-4735. (Scopus Journal).
14. **K. MadhuSudhana Rao** and M V S Prasad, “CPW Fed antenna with UWB characteristics”, IJRTE, Vol.8, No.1, 2019, pp.1511-1514. (Scopus Journal)
15. **K .MadhuSudhana Rao** and M V S Prasad, “Design of CPW FED UWB Antenna with Multiple Narrow Circular Slots”, IJEAT, Vol. 8, No.5, 2019, pp.1015-1019.S
16. **K.MadhuSudhana Rao** and others, Gesture based Home Automation JICR April 2023,ISSN NO:0022-1945.
17. **K.MadhuSudhana Rao** and others, A real-time Hadoop bigdata maintenance model using a software-defined and u-net deep learning mode IJISAE ISSN NO:2147-6799
18. **K.MadhuSudhana Rao** and others, Accident preventing system using BUMPER PULLING MECHANISM AND Eye-Blink sensor IJERT, Vol. 12, No.03, 2023

## **Book Chapters:**

1. Satyanarayana Chanagala and Madhu Sudhana Rao Kanduri , Determination of Correlation and Relative Intensity Noise of the Chaos and the Message Masked by the Chaos- New Approaches in Engineering Research Vol. 15 ,2021, ISBN: 978-93-5547-063-8, eBook ISBN: 978-93-5547-064-5
2. Satyanarayana Chanagala and Madhu Sudhana Rao Kanduri, An Experimental Investigation to Enhance the Life of Wireless Sensor Network by Optimizing the Transmission Power Level ISBN: 978-93-5547-231-1, eBook ISBN: 978-93-5547-239-7,2022

## **Patents:**

1. A system based on thermal image processing for subcutaneous detection of veins,bones andmethod thereof, Application Number. Application Number: 202141056431 A, Published on 10/12/2021
2. A Novel Feature Extraction And Classification Of Breast Cancer Using Ensemble Pre-Fully Connected Layers In Convolutional Neural Network, Application Number 202341001920 A,

Published on 20-1-2023

3. Agriculture Drone for pesticides spray, Application Number 202341058049 A, Published on 13/10/2023
4. Intelligent Detection of Retinopathy of Prematurity using Adaptive CNN based Deep learning applications; Application Number 202341078859A, Published on 01/12/2023.

## **Conferences :**

1. **K. MadhuSudhana Rao**, “Fourth Generation wireless communication systems” presented in National Conference on information sciences-2010, Manipal University, Manipal on 23<sup>rd</sup> & 24<sup>th</sup> April 2010.
2. **K. MadhuSudhana Rao** and M V S Prasad, “Performance of slotted Hexagonal Patch”, ICMEET 2017 (Springer LNNS series). (Scopus publication).

## **Workshops:**

1. Participated in Quality improvement program conducted by TTT institute, Madras, Extension centre, Hyderabad from 19-06-2000 to 23-06-2000.
2. A two day national workshop on “computational Biology” at KKR & Institute Of Technology and Science on 4&5<sup>th</sup> July 2014.
3. Participated in 6-day Faculty development program on Resent trends in Signal processing at KKR & KSR Institute Of Technology and Science From 31-10-2016 to 5-11-2016 conducted by NIT ,WARANGAL.
4. Participated in 3-day Faculty development program on “Real Time Control of Solar Inverters using DSPACE&DSP at KKR & KSR Institute Of Technology and Science From 13-11-2017 to 15-11-2017
5. Participated in 5-day Faculty development program on “VLSI Chip design Hands on using open source EDA” at KKR & KSR Institute Of Technology and Science From 08-07-2019 to 12-07-2019 conducted by IIT Guwahati.
6. Participated in 5-day Faculty development program on “Advancements in Signal Processing & Optimization Technics” at KKR & KSR Institute Of Technology and Science From 08-07-2019 to 12-07-2019 conducted by IIT Guwahati.

I here declare that the above information is true to the best of my knowledge.

**(Dr. K. MADHUSUDHANA RAO)**