

ANNEXURE-1

Name: Dr. Bonula Rama Rao

Faculty ID: A5ECET0021

Designation: Professor & Head of the Department

Department: ECE

Date of Birth: 01-06-1975

Date of joining: 10-03-2008

AICTE ID: 1-450929047

Father Name: Ramayya

Mother Name: Bangaramma

Address: D.No :28-3-12, Ram nagar, Opp. Kalinga Road., LBS Colony, Srikakulam

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Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph. D	Andhra University, Visakhapatnam	Awarded	June , 2015
M. Tech (Radar & Microwave Engg)	Andhra University, Visakhapatnam	FIRST class	2004
B. E	Andhra University, Visakhapatnam	Second class	1998

Total Years of Experience: 24 Years

Period		Organization/Institution	Designation
1 October 2021	Till Date	Aditya Institute of Technology and Management, Tekkali	Professor & Head
1 July 2015	30 Sept 2021	Aditya Institute of Technology and Management, Tekkali	Professor
March 2008	30-06-15	Aditya Institute of Technology and Management, Tekkali	Assoc. Professor
July 2007	March 08	Sarada Institute of Science Technology and	Assoc. Prof.

		Management, Srikakulam	& Head
Jan 2005	July07	Sarada Institute of Science Technology and Management, Srikakulam	Asst. Prof.& Head
June 2002	Jan 05	Tadra Paparaya Institute of Science and Technology, Bobbli	Asst. Prof.& Head
Dec 1998	March 2002	VASAVI Degree College, Visakhapatnam	Lecturer

Areas of Interest:

1. Antenna and wave propagation
2. Microwave Engineering
3. Radar Systems
4. Electronics Devices and circuits
5. Electronic circuit Analysis
6. Digital logic design
7. EDA Tools
8. Linear Integrated circuits
9. Analog and Digital Communications

Guidance of Academic Projects:

- i) Doctoral Projects : -
- ii) Masters Projects : 12
- iii) Bachelor Projects : 28

Memberships of Professional Societies and Other Organizations:

SMIEEE, MISTE, MIETE

Other Responsibilities:

1. Head of the Dept

Details of Publications:

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Co untry	Status
1	Design of a textile array antenna	K.S.Chakr adhar Mr.Dasari Nataraj Dr.Bonula Rama Rao	2019410 36705 A	11/10/2019	The Patent Office, Government of India Intellectual Property Rights Building,	Published

		Mandrakuriti Balakrishna			G.S.T. Road, Guindy, Chennai	
2	Corona virus detection 5-G mobile app: an app which enables a mobile phone to detect the corona virus	Dr.Bonula Rama Rao Mandrakuriti Balakrishna	20204102520 1A.	03/07/2020	The Patent Office, Government of India Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai	Published
3	Design and development of planar microstrip antenna for wireless sensor network communication	Dr.Bonula Rama Rao Mandrakuriti Balakrishna		04/09/2020	The Patent Office, Government of India Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai	Published

Details of Publications:

INTERNATIONAL JOURNALS

S. No	Author(s)	Title	Name of Journal	Volume	Page	Year
1	B. Rama Rao	Design of a Compact Low-Profile Ultra Wideband Antenna (UWB) for Biomedical Applications	Lecture Notes in Networks and Systems, springer	-	ISSN 2367-3370	2023
2	B. Rama Rao	Design, optimization and experimental verification of UWB-MIMO antenna with WLAN and complete X-band notched characteristics, checked with characteristic mode analysis (CMA)	Analog Integrated Circuits and Signal Processing	https://doi.org/10.1007/s10470-023-02149-9	-	2023
3	B. Rama Rao	Microstrip Patch Antenna Design with Improved Shark Smell Optimization Model	Wireless Personal Communications	https://doi.org/10.1007/s1127	0929-6212	2022

				7-022-10059-8		
4	B. Rama Rao	Exploitation of various measurement techniques for positioning systems Over the Indian subcontinent	Stochastic Modeling & Applications	Vol. 26 No. 3	1049-1053	2022
5	B. Rama Rao	Extended Generalized Elgamal Cryptosystem for Secure M2M Communication	Journal of optoelectronics laser	Volume 41 Issue 6	427-437	2022
6	B. Rama Rao	Design of Multi Band Micro Strip Patch Antenna for S-Band and Ku Band Applications	Journal of optoelectronics laser	Volume 41 Issue 6	405-411	2022
7	B. Rama Rao	Performance Analysis of Rectangular Microstrip Wearable Textile Antenna with Series of Slots	<i>Journal of Communications</i>	vol. 17 no. 5	365-372	May-22
8	B. Rama Rao	An 8x1Sierpinski Carpet Fractal linear Array Antenna design for Multiband Applications	Journal of University of Shanghai for Science and Technology	Volume 22, Issue 11	1609-1622	2020
9	B. Rama Rao,	Compact Rhombus Ring Dual Frequency Microstrip Antenna for Wireless Applications	IJITEE	Volume -9 Issue-2S3	213-216	2019
10	B. Rama Rao, M.L.Naidu	Compact spiral shape patch antenna for LTE applications with defected ground structure	IJITEE	Vol-8 no 6S3	269-272	2019
11	J.Swathi, Dr.B.Rama Rao	Design of Compact Broadband Microstrip Antenna for UWB Applications	i-manager's Journal on Communication Engineering and Systems	Vol. 8 1 No. 1	31-35	2019
12	Dr. B. Rama Rao	Implementation of FPGA-based artificial neural network (ANN) for full adder	Journal of Analysis& Computation (JAC),	Vol XI, Issue I	273-278	2018
13	M. Lakshmu Naidu,B. Rama Rao, M. Bala	Design and Implementation of entagon Patch Antennas with slit for Multiband Wireless Applications	IRJET	Vol 5, Issue 12	1143-1148	2018

	Krishna					
14	Dr.Rama Rao Bonula Dr.Satyanarayana Moturi	Implementation of CPW -Fed Hilbert curve Fractal Antenna for UWB Applications	International Journal of Microwave and Optical Technology	VO L.14, NO.5	348-356	2019
15	B. Rama Rao	Design and Implementation of pentagon Patch Antennas with slit for Multiband Wireless Applications	IJET	Vol 7	PP246-249	2018
16	B. Rama Rao	Performance Analysis of Phase Sequence for Hybrid PTS Scheme	AIJREAS	3	496-501	2017
17	B. Rama Rao	Design of Compact microstrip antenna array for wireless applications	IJESE	7	14252-14256	2017
18	B. Rama Rao,	Implementation of Octagonal and Hexagonal Microstrip Patch Antennas for UWB Applications	ARPJ- J E A S	12	213-218	2017
19	B. Rama Rao,	Compact Rectangular Microstrip Patch Antenna with Defected	IJAER	12	10063-10067	2017
20	B. Rama Rao,Y.Srinivasa Rao	Design of DADDA multiplier with optimize power using ANT architecture	IJCEA	11	197-206	2017
21	B. Rama Rao, Dr. P.V. Sridevi	Design of Low Area Branch Penalty Free Pipelined Processor Architecture	IJECT	5	421-425	2014
22	B. Rama Rao, Dr. P.V. Sridevi	Design and Analysis of a Novel compact C-band Antenna for Wideband Applications	IJECCCE	6	516-520	2015
23	B. Rama Rao, Dr. P.V. Sridevi	Design Of CPW-Fed Monopole Antenna With L-Shape And T- Shape For WLAN/Wi-MAX Applications	IJSER	5	345-349	2014
24	B. Rama Rao, Dr. P.V. Sridevi	Design and Analysis of Plus Shape Slotted Fractal Antenna for Dual band Applications	IJECIERD	4	29-37	2014

25	B. Rama Rao, Dr. P.V. Sridevi	A Coplanar Waveguide-Fed Hilbert curve Fractal Antenna for UWB Applications	<i>IRECAP</i>	5	291-297	2014
26	B. Rama Rao, Dr. P.V. Sridevi	Design of Circular with triangle Microstrip Fractal Antenna for Dual band and UWB applications	IJSER	4	231-236	2013
27	B. Rama Rao, Dr. P.V. Sridevi	Design and Analysis of Co-planar Waveguide Multiband Triangular Fractal Antenna	IJEECE	43	442-446	2012
28	B. Rama Rao, Dr. P.V. Sridevi	Dominant mode Resonant Frequency of Circular Microstrip antennas with and without air gap	IJECET	3	111-122	2012
29	Kaki Venkatarao Malla Chaitanya Reddy · Bonula Rama Rao · Duppala Azad	Multi-response optimization in WEDM process of Al-Si alloy using TLBO-graph theory algorithm towards sustainability	The International Journal of Advanced Manufacturing Technology	https://doi.org/10.1007/s00177-023-11355-8		2023

INTERNATIONAL CONFERENCES

1. B. Rama Rao et al International conference on Microwave, Antenna and Remote sensing (ICMARS-2009), Jodhpur, Rajasthan, 19th -21st Dec, 2009.
2. B. Rama Rao et al “Fast low side lobe synthesis of linear array utilizing successive Fractional Fourier transforms”. International Conference on Control computer and Communication (ICCT-2011), Delhi, Aug, 7th – 8th, 2011.
3. B. Rama Rao et al “Design and Analysis of Fractal linear array with low side lobes”. International conference on Microwave, Antenna and Remote Sensing (ICMARS-2011), Jodhpur, Rajasthan, Dec, 07-10, 2011.

4. B. Rama Rao et al "Design of Three-layered Planar Structure Wideband Microstrip Antenna". International Conference on Control computing and Telecommunication (ICCT-2011), Chennai, 24th Dec, 2011.
5. B. Rama Rao et al "Design and Analysis of Fractal planar Hexagonal Array with low side lobes". International Conference on Control computing and Telecommunication (ICCT-2011), Bangalore, 30th Dec, 2011.
6. B. Rama Rao, Dr.P.V.Sridevi "Design of Finite Ground Coplanar Waveguide (FGCPW) fed Strip Monopole Antenna for WLAN Applications" IEEE International Conference on Communication and Signal Processing (ICCSP'13),Chennai on 3rd, 4th & 5th April 2013)
7. B. Rama Rao, Dr.P.V.Sridevi "CPW-fed Monopole Antenna with L shaped and stair shape slot for Dual-band WLAN / WiMAX Applications" International Conference on Innovations in Engineering and Technology (ICIET'2013) Dec. 25-26,2013, Bangkok ,Thailand
8. Dr.B.Rama Rao "A novel miniaturized Microstrip antenna with E and F Shape Defected Ground Structure", IEEE International Conference on Power, Control,Signal & Instrumentation Engineering, 21-22 September 2017.
9. Dr.B.Rama Rao K.S.Chakradhar ,Dr.P.Malleswar Rao " Design of a Compact Dumbbell Shape Micro strip patch Antenna for UWB Applications" IEEE International Conference on Power, Control, Signal & Instrumentation Engineering, 21-22 September 2017.
10. Sandeep Battula, Krishna chandramouli Aleti, Rama Rao Bonulas, Suresh Jaka "Sensing of Aerosol Particles Using SU-8 Polymer Based Microring Resonators" 978-1-5386-4707-3/18/\$31.00 ©2018 IEEE
11. "Exploitation Of Various Measurement Techniques For Positioning Systems Over The Indian Subcontinent" 3rd International Conference on Modern Research in Agriculture, Biological,Medical and Environmental Sciences, 20th March 2022
12. Design of a Compact Low-Profile Ultra Wideband Antenna (UWB) for Biomedical Applications' 13th International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2022) Held During December 15–17, 2022
13. Wearable Textile Antenna Design for Body Area Network Applications at 2.45 GHz Frequency Band with Conductive Fabric Patch International Conference on Computing and Communication Networks (ICCCNet -2023) Manchester Metropolitan University, Manchester, United Kingdom on 17th - 18 th November 2023.
14. Wearable Textile based Hexagonal Microstrip Antenna Design with Edge Cuts for ISM Band International Conference on Research and Innovation in Biomedical Engineering (RIBE2023) Department of Biomedical Engineering, Rajalakshmi Engineering College on 27th and 28th of July 2023.

NATIONAL CONFERENCES

1. B. Rama Rao et al “Effect of a short in the n-th fed port of a Wave guide slot array” National Symposium on Instrumentation (NSI-33), Vizag, 8th-9th, Dec, 2008.
2. B. Rama Rao “ Design of Compact Broadband Microstrip Antenna for UWB Applications” National Conference on Technological Research Advancements in Communication and Electronics Systems NCTRACE-2019,Vizianagaram, Andhra Pradesh, India 21-22nd JUNE 2019, ISBN: 712190883065
3. B. Rama Rao Impact of SRR on Defected Metallic Antenna for Biomedical and Wireless Communications AICTE Sponsored National E-CONFERENCE on Advances In Computer Vision, Artificial Intelligence And Computer Applications NECACAC-2020 28 NOVEMBER, 2020 Department of CSE, Pragati Engineering College (Autonomous)

Details of Conferences / Workshops / Refresher Courses Organized:

1. A one day work shop on Recent Trends in Information and communication Technologies on 12-13 August 2008
2. A One day workshop on Outcome Based Education (In compliance with NBA Accreditation) on 19th January, 2013.
3. A One day workshop on “Outcome Based Education” on 20th June, 2014
4. A One day workshop on “Outcome Based Education” on 17th Aug, 2014.
5. 6-Day Faculty Development Programme (FDP) On “Practical RF Antenna Design with Simulation Studies” 25th February – 2nd March, 2019
6. AICTE Recognized Faculty Development Programme on Antenna & Wireless Technologies Conducted by Electronics and Communication Engineering Department from 20/02/2023 to 24/02/2023 (One Week) at ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
7. AICTE Recognized Faculty Development Programme on Outcome Based Curriculum Design Conducted by Curriculum Development Centre Department from 13/02/2023 to 17/02/2023 (One Week) at Aditya Institute of Technology and Management, Tekkali, Andhra Pradesh

Details of Conferences / Workshops / Refresher Courses Attended:

Sl. No	Name of the Workshop	Place	Title	Month & Year
1	Two day national workshop	Tekkali	Work shop on Emerging Trends in Image, Video communication standards & protocols	20-22 Dec 2007
2	Two day national workshop	Vizianagaram	Work shop on Latest Technologies in Electronic Communication	2007

3	Two day national workshop	Tekkali	Nation Building Through Personality Development & Carrier Planning	15-16 th Nov 2008
4	Two day national workshop	Vizianagaram	Work shop on Latest Technologies in Electronic Communication	14-15 th Feb 2008
5	Tree day national workshop	Tekkali	Work shop on Recent developments in Information & Communication Technologies	12-13 th Sep 2008
6	One day national workshop	Tekkali	Work shop on Recent Trends in Nanotechnology	22 Sep 2008
7	One Day FDP	Tekkali	Teaching Methodology and Techniques for Engineering Teachers	Nov 2009
8	A One day national workshop	Visakhapatnam	Best Practices For Strategic Growth Of Professional Institutions	17 th June-2011
9	A 2 day national workshop	Visakhapatnam	MATLAB & Its Applications in Communication and Signal processing	12-13 Nov 2011
10	Three Day Workshop	Hyderabad	“Quality Initiatives in Technical & Higher Educational Institutions (In compliance with NBA & NAAC Accreditation),	29 th – 31 st January, 2013
11	5 - Day FDP	IIM, Indore	Management Capacity enhancement Programme	12-18 January 2015
12	5 - Day FDP	NIT Warangal	Practical RF Antenna Design	6-10 July 2015
13	5 –Day STC	IIT, Khargpur	Analysis and Implementations of dielectric resonator Antennas	Nov 21-26 ,2016

Details of FDPs Attended:

1. Participated in one week FDP on “Practical aspects of finite analysis using ABAQUS”, Organized by APSSDC during April 18-24,2020.
2. Participated in Three day FDP on”Automotive structure design using CATIA”.
3. Participated in “India First Leadership Talk”, Organised by MHRD’s Innovation Cell, Govt. of India on May 9th , 2020
4. Participated in one day FDP on” IPR awareness” on 13.05.20, organized by keyway research.

5. Participated in one day FDP on "Fuzzy Logic" organized by Kristu Jayanti College on 09.05.20.
6. participated in the 5 Day Online Faculty Development Program on "IoT Trends to Drive Innovation for Business and Digital Technology", organized by the Department of Electronics and Communication Engineering, Hindustan Institute of Technology, Coimbatore from 11.05.2020 to 15.05.2020.
7. participated in the one day virtual Faculty Development Programme on " Robotic Process Automation and its allied Machine Learning Techniques " organized by the Department of Electronics and Communication Engineering, VISTAS in association with Elektroniklab India Pvt Ltd on 23rd May 2020 .
8. Attended Leadership talk With Mr Mahesh Babu CEO Mahindra Electric Mobility Ltd. India's First Leadership Talk Series Session with Mr Mahesh Babu CEO Mahindra Electric Mobility Ltd. by MHRD's Innovation Cell.
9. Participated in one week FDP on " Recent trends in electronics industry" during 18.05.20 to 23.05.20 organized by Annamacharya Institute of Technology and Sciences.
10. participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things" from 07-05-2020 to 11-05-2020 at NIT JAMSHEDPUR.
11. Participated Five - Day Online FDP on "Integration of Renewable Energy Systems- Research Tools / Industrial Perspective" Organized by Department of Electrical and Electronics Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna(Dt), during 18.05.2020 to 22.05.2020.
12. National Level Quiz on NAAC on 27-5-2020, organized by Department of Computer Engineering, P.V.P.P. College of Engineering, Mumbai.
13. Participated in the Online AICTE Recognized Faculty Development Programme on NBA Accreditation of Engineering Programs From 11-05-20 to 15-05-20 (One Week) Organized by NITTTR Mechanical Engineering Department.
14. Participated in "India First Leadership Talk", Organised by MHRD's Innovation Cell, Govt. of India on May 30th, 2020.
15. Attended one week FDP on Python Organised by center for virtual learning, Dr. N.G.P. Arts and Science College from May 4-10, 2020.
16. Participated in Two weeks FDP on "Internet of Things(IoT)", Organized by APSSDC during May 18-30, 2020.
17. Participated in "India First Leadership Talk", Organised by MHRD's Innovation Cell, Govt. of India on June 13, 2020.
18. Participated in the Online AICTE Recognized Faculty Development Programme on Technological Interventions using Wireless Communication from 18-05-20 to 22-05-20 (One Week) Organized by NITTTR.

19. participated in the faculty development program on “Research Paper & Project Proposal Writing” under IEEE Student Branch held on 15-May to 16-May, 2020 organized by the Department of Electrical and Electronics Sree vidyanikethan engineering college.Engineering college.
20. Participated in Season 4 of Skycampus on the theme “The Future of Education, Employment & Entrepreneurship” conducted by ICT Academy during 04.05.20 to 08.05.20.
21. Global Navigation Satellite Systems" from 2021-07-26 to 2021-07-30 at Indian Institute of Information Technology Designand Manufacturing Kurnool.
22. "Signal Processing for 5G - Algorithms and Implementation" from 09/08/2021 to 13/08/2021 atIndian Institute of Technology, Goa.
23. RECENT ADVANCES IN SIGNAL PROCESSING" from 2021-08-02 to 2021-08-06 at JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA.
24. "WirelessCommunication Technologies" from 2021-06-21 to 2021-06-25 at Atal Bihari Vajpayee Indian Institute of Information Technology and Management.
25. One Week Online Faculty Development Program on “Trends andChallenges in Advanced VLSI System Design” organized by Dept.of E.C.E, S.R.K.R Engineering College(A) during 21st – 26th February 2022.

Details of Webinars Attended:

1. Participated in one week webinar on “Design,simulation and development of unmanned aerial vehicles and applications in various engineering sectors” organized by Rajarambapu institute of technology, Maharastra and Ramachandra college of engineering ,Eluru during 30.04.20 to 04.05.20.
2. Participated in one week webinar on “LabVIEW”, conducted by LabVIEW Academy, SJBIT, Bengaluru, from 04-05-2020 to 08-05-2020. ”
3. Attended a webinar on Basics of Solar Photovoltaic System Organised by the Department of Electrical and Electronics Engineering,Karpagam Institute Of Technology, Coimbatore on 13 May 2020
4. Attended a webinar on “ Outcome based education software” on 14th May 2020,organized by vmedulife.
5. Attended online webinar on Moving Forward with IoT by Mr.D Suresh, Vice president - Techsys IOT Labs, Hyderabad on 14.05.2020 organized by Department of Electrical and Electronics Engineering of RMK College of Engineering and Technology.
6. Attended a webinar on “ONLINE LEARNING TOOLS POST COVID-19” organized by SCSVMV kanchipuram.

COURSERA Certifications:

1. Introduction to Satellite Communications.
2. Custom Prediction Routine on Google AI Platform.
3. On Premises Capacity Upgrade and Monitoring with Google Cloud's Apigee API Platform
4. Python Data Structures
5. Digital Signal Processing.
6. On Premises Installation and Fundamentals with Google Cloud's Apigee API Platform.
7. Introduction to Software Product Management.
8. AWS Fundamentals: Going Cloud-Native.
9. Fundamentals of Network Communication.
10. On Premises Management, Security, and Upgrade with Google Cloud's Apigee API Platform.
11. AWS Fundamentals: Going Cloud-Native.
12. Structuring Machine Learning Projects
13. Smart Device & Mobile Emerging Technologies.
14. Wireless Communications for Everybody
15. Building Arduino robots and devices
16. AI For Everyone.

Details of Quizes Participated:

1. COVID-19 pandemic general awareness quiz.
2. NAAC Awareness Programme for Faculty" organized by Marathwada Mitra Mandal Institute of Technology (MMIT), Lohgaon, Pune - 47 conducted online during the period 08/05/2020 to 14/05/2020.
3. Faculty Awareness Programme on NBA to keep in touch with NBA Accreditation" organised by Internal Quality Assurance Cell(IQAC),PACE Institute of Technology and Sciences, Ongole on 5/20/2020.
4. NAAC Awareness Quiz – 2020 organised by AISSMS Institute of information technology on 19.05.20.
5. VLSI Design & Technology" organized by Department of Electronics & Telecommunication Engineering on 5/22/2020.
6. Research Metrics in Scientific Publications" conducted on 28-05-2020 organized by MLR inst of technology.
7. Attended E-QUIZ on "ARTIFICIAL INTELLIGENCE" and successfully passed with score of 88% , conducted by Department of Electronics and Communication Engineering in Association with Incubation Center of ECE , Mohamed Sathak Engineering College, Tamil Nadu.
8. National Level Quiz on NBA on 5-6-2020, organized by the Department of Computer Engineering, P.V.P.P. College of Engineering, Mumbai.

9. participated in the “Quiz on Signals & Systems” conducted by the Department of ECE , GMR Institute of Technology on 5-6-2020.
10. participated in the “Quiz on Digital Electronics” conducted by the Department of ECE , GMR Institute of Technology on 12-6-2020.
11. National Level Quiz on IoT, Organized by Department of Electronics and Communication Engineering, NRI Institute of Technology, NRIIT on 9-6-2020.

Sd/-

Dr. B. Rama Rao