

FACULTY PROFILE

1. Name : **Dr.TUMATI VENKATESWARA RAO**
2. Designation : **PROFESSOR**
3. Department : **ECE**
4. Date of Joining : **03/09/2014**
5. Nature of Employment: **Regular**
6. Date of Birth : **10/08/1965**
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➤ Educational Qualifications:

Qualification	Institute	University/Board	Specialization	Year of Passing	Division/Class
Ph.D.	Jawaharlal Nehru Technological University Kakinada	JNTUK,	Microwave Antennas	Sep - 2017	
Ph.D.	Acharya Nagarjuna University, Guntur,	JNTUK	Electronics	May -2013	
M. Tech	Acharya Nagarjuna University, Guntur,	ANU	Microwave Engineering	June -2008,	1 ST CLASS with Distinction
M. Phil	Acharya Nagarjuna University, Guntur,	ANU	Electronics	Sep – 2007,	'A' grade
M.S	BITS, Pilani	BITS	software systems	June – 1996,	

➤ Work Experience: 31years

Teaching:31 Research: Industry: Total:31

Name of the Organization	Designation	Date From	Date To
SIR C R Reddy College of Engineering	Professor & HOD of ECE	03.09.2014	Till date
Dhanekula Institute of Engineering & Technology Vijayawada	Associate Professor	01-06-2010	28-08-2014
PSR & CMR Institute of Engineering Technology, Vijayawada	Associate Professor	04.06.2009	31.05.2010
PVP Siddhartha Institute of Technology, Vijayawada	Assistant Professor	01-10-2008	31-05-2009

PB Siddhartha College, Vijayawada	Lecturer of Dept of Electronics	20-07-1990	30-9-2008.
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➤ **Courses taught:**

S.No.	Name of the subject	UG/PG
1	Electronic Devices and Circuits	UG
2	ANTENNAS AND WAVE PROPAGATION	UG
3	MICROWAVE ENGINEERING	UG
4	Optical Communications;	UG
5	Electronic Circuit Analysis;	UG
6	Switching Theory and Logic Design	UG
7	Analog Communication	UG
8	Digital Communication	UG
9	Linear IC Applications	UG
10	Digital IC Applications	UG
11	TV & Switching Circuits	UG
12	Satellite Communications	UG
13	EMTL	UG
14	Circuit Analysis	UG

➤ **Administrative Responsibilities:**

S.No.	Description	College/ Department level
1	NAAC COORDINATOR	Department level
2	NBA	
3	AICTE sponsored 2 week FDP “ <i>BIO-MEDICAL SIGNAL PROCESSING AND APPLICATIONS</i> ” conducted from 1 st to 14 th November 2019	Coordinator
4	International Conference on Advanced Communication Technologies ICACT-2019	Convener

➤ **Research Guidance:**

- M.Tech Projects: 12+
- B. Tech Projects: 40+
- IE (I) AMIE Projects: 25+
- AMIETE Projects: 5

➤ **Organizational Activities:**

- Coordinator for AICTE sponsored 2 week FDP “*BIO-MEDICAL SIGNAL PROCESSING AND APPLICATIONS*” conducted from 1st to 14th November 2019
- **Convener** for International Conference on Advanced Communication Technologies ICACT-2019, SIR CR Reddy College of Engineering, on 26th & 27th April, 2019, AP.
- Chair, “NOVEL MODELLING TECHNIQUES FOR ELECTROMAGNETIC SYSTEMS (NMTE’ 16)”, **Springer** - ICMEET, Raghu Institute of Technology & Raghu Engineering College, on November 12th & 13th, 2016, AP.

- Research field of interests, Computational Electro-magnetic, Electromagnetic Fields and Waves, Electronics and Photonics, and published more than 25 research papers including **IEEE**, **Springer**, **CSIR** and chaired Internationals & several conferences and symposiums.
- Reviewer for journals like ACES
- **Visited China**, to present a paper in an **IEEE conference** in the year 2011
- Participated more than 25 Refresher Courses /Symposiums sponsored by UGC, DST, TEQUIP, BNRL etc... and also organized more than 35 Seminars/Workshops
- Involved in INUP – Indian NANO User Program, IIT Bombay, and attended Sardar Vallabhai National Institute of Technology - SVNIT, Surat, NIT Warangal, CAT Indore. Availed the research facilities in DLRL Hyderabad, ECIL Hyderabad, RCI Hyderabad for experimentation and measurements.
- Received appreciation from Governor and certificate of merit from State government, Andhra Pradesh for organized several blood donation camps with students, Indian Red Cross Society and other NGOs
- Served as In-Charge and Head of the Departments and presented the department before NACC, Active Member in ISO certifications, Member in NBA committee at Institutional level, exposure in executing various projects sanctioned by AICTE, UGC
- Having good exposure to Autonomous institutional environment and conducting BOS, framing new courses.

➤ **Active roles:**

- At Present Immediate past Chairman, The Institution of Electronics & Telecommunication Engineers- IETE, Vijayawada Local Centre _ 2018-2020
- Chairman, for the session 2016-2018, IETE, Vijayawada Local Centre Actively participating in organizing the programs
- Executive Member, for the session 2014-17, Institution of Engineers (INDIA) Andhra Pradesh State Centre. Actively participating in organizing the programs
- Convener, Board of Scrutinisers IETI, Vijayawada Centre for the Elections. Attended the Election software training of IETI, 6 July and Conducted the online elections in time. For the session 2012-14
- Honorary Secretary for the session 2012-14, IETE Vijayawada Local Centre & Initiated to start more than 15 new ISF centres in the Engineering colleges under the jurisdiction of IETE Vijayawada Local center and total gone up to 32.
- Conducted good number of Technical programs including the blood donation, Health camps 2012-14

- Member, Board of Scrutiners, for the session 2010-12 IET, Vijayawada Center & Technical Member for the Elections. Attended the Election software training of IET, 16-17 May 2010. Conducted the elections in time and Vijayawada local center is the first centre who attempted the online election processes throughout the country 2010-12
- ISO 9001-2010 Additional Deputy Management Representative. As ADMR of Dept of ECE monitored all the ISO works in the Department and presented the Dept ISO files to the External auditor and also act as internal auditor for the Mechanical Dept, DIET June -September 2013
- P.B Siddhartha College of Arts & Science, Vijayawada Founder Secretary, Alumni, P.G Center, PBSC Conducted good number of programs 2003-07
- Dhanekula Institute of Engineering & Technology In-charge HOD Department of ECE, Dhanekula Institute of Engineering & Technology, Ganguru Discharges the duties as HOD and get good results and also organized 3 workshops and 4 seminars in my tenure 01-06-2010 to 14-09-2011
- Gram Resource Person, Janma Bhoomi, Govt. of Andhra Pradesh Program in the year 2000 for the Kankipadu Mandalam
- under Janma Bhoomi 2000 As Gram resource person along with students of PBSC, Vijayawada, prepared nearly 52 reports pertaining all the records of beneficiaries who are availing government schemes and grants of the villages KUNDERU & KANDALAM PADU which are situated in Kankipadu Mandalam of Krishna District, Andhra Pradesh, India 1st to 11th January 2000
- NSS Program officer from Oct 2003 to September 2008, PB Siddhartha College, Acharya Nagarjuna University, Actively organized camps during Krishna Pushkars 2004. Conducted good number of programs including Blood Donation camps, Rehabilitation programs
- NSS Program officer, PVP Siddhartha Institute of Technology, Actively organized camps October 2008 to May 2009
- As Founder HOD (I/c) , Dept of ECE, Potti Sreeramulu College of Engineering & Technology established initial labs.
- Actively organized camps during Krishna floods 2009. Conducted good number of programs including Blood Donation camps etc... June 2009 to 2010.
- Chaired for a session in NCSPCS 2010, Signal Processing & Communication Systems, 25-26 February 2010.

➤ **Research Publications in Journals (National/International):**

- **Dr.T.Venkateswara Rao**, Dynamic frequency adjuster with respect to user allocation in fiber wireless systems, IJCRT, ISSN No:2320-2882, vol-09, issue 4, April-

2021, international open access, peer- reviewed referred journal.

- N.Venkata Bhaskar, **T.Venkateswara Rao** , " Test System for Evaluation of Spacecraft Command Distribution Hardware ", International Journal of Application or Innovation in Engineering & Management (IJAEM), Volume 9, Issue 7, July 2020, pp. 023-030, ISSN 2319 – 4847
- Paladugu Sowmithri, M N Venkatesh Babu S, **Venkateswara Rao Tumati**, Mallireddy Renuka, "A Triangular Slot Band Notched MIMO Antenna for UWB Applications" Jour of Adv Research in Dynamical & Control Systems, Vol. 11, 02-Special Issue, 2019, Pages: 1002-1009
- Nallamothu Suneetha, Paladugu Sowmithri, **Venkateswara Rao Tumati**, Tangella poojitha "Design of a Compact Sectorial MIMO Antenna for Base Station Systems" Jour of Adv Research in Dynamical & Control Systems, Vol. 11, 02-Special Issue, 2019, Pages: 1129-1136
- V. R. Kandregula, **V. R. Tumati** and P. Susmitha, "Design of Gregorian reflector for imaging 2018 IJMTE" ISSN No. 2249-7455, Vol 8, November 2018
- Madhav, B. & **Rao, Tumati** & Tirunagari, Anilkumar. (2018). Design of 4-element printed array antenna for ultra-wideband applications. International Journal of Microwave and Optical Technology. 13. 8-17.
- Venkata Reddy kandregula, **V. R. Tumati** "Design of Gregorian Dual Reflector in Ku Band and W-Band for limited scanning" IJEAT, ISSN No:2249-8958
- **T. Venkateswara Rao**, A. Sudhakar, K. Padma Raju, "Analysis of Notch in Microstrip Antenna" International Journal of Advanced Electrical and Electronics Engineering, Vol 4, Issue 4, pp 15 -19, 2015.
- **T. Venkateswara Rao**, A. Sudhakar, K. Padma Raju, "Design of Microstrip Antenna With Notch Filter for UWB Application" , International Journal of Electronics & Communication Technology, Vol 7, Issue 1, pp 30-33, 2016.
- **T.Venkateswara Rao**, A.Sudhakar, K. Padma Raju, Band Stop Filter Loaded Triangular Slot UWB Notch Antenna, International Journal of Applied Engineering Research, 2016.
- **T. Venkateswara Rao**, A. Sudhakar, K. Padma Raju, "Novel Technique of MIMO Antenna Design for UWB Applications Using Defective Ground Structures", Journal of Scientific & Industrial Research, Vol. 77, 2018, 66-69
- Ch.Jaya, **T. Venkateswara Rao**, "Frequency Reconfigurable Patch Antenna for Bluetooth, WLAN and Radar Applications", IJIRSET, (2016) 2347-8753,vol-5,issue-4, Apr
- B.Santhosh Kumar, P.Sowmithri, **T Venkateswara Rao**, "Low Power and High speed conditional Push-Pull Pulsed Latches" IJMETMR, (2015) 2348-4845,vol-2,issue-6 June

- A.Siva Vardhana Reddy, K.Chandra sekhar, **T Venkateswara Rao**, “Channel Estimation in OFDM systems based on Wavelet Transform” IFERP (2015) 2277-2685, vol-5,issue-8,Aug
- **T. Venkateswara Rao**, K.Krishna Murthy, V.V.S.S.S.Chakravarthi "Working model of an optical fiber sensor for estimation of sludge in oil in an electrical transformer, IJPAP, (2011)2229-3027 Vol-49 Sept
- **T. Venkateswara Rao**, K.Krishna Murthy, V.V.S.S.S.Chakravarthi “Distribution of power between core and cladding in an Optical fiber” IJEECT (2011) 2229-3027 Vol 1(2) Jan-April
- **T. Venkateswara Rao**, K.KrishnaMurthy, V.V.S.S.S.Chakravarthi, D.Samanath Reddy "Intensity modulated fiber optic sensor effect of core length exposed in guiding medium JoS (2011) Feb, Vol-8, 1/161-65
- **T. Venkateswara Rao**, SV Prasad “Detection of Adulteration of edible oils Using optical fibers” Journal of Pure & Applied Physics 2006, Vol-18 2/51 to 55

➤ **International / National Conference:**

- Automatic Audience Identification Using Face Recognition, 2nd NATIONAL CONFERENCE ON "ARTIFICIAL INTELLIGENCE & MACHINE LEARNING", 16th - 17th JULY 2021.
- V Rao Tumati et al, “Four element MIMO antenna for K band & Ka band applications” ICACT-2019 International Conference - 26th – 27th April 2019, pp 117
- V Rao Tumati et al, “Analysis on mutual coupling effects of linear patch antenna array using HFSS for phased array radar applications” ICACT-2019- International Conference 26th – 27th April 2019, pp 46
- V Rao Tumati et al, “Enhanced 2x2 Compact Extended MIMO Antenna” ICACT-2019- International Conference 26th – 27th April 2019, pp 286
- V Rao Tumati et al, “Design of flag shaped 3-element array antenna for directive radiatin in Ku-band applications” SPACES-2018, Jan 5th 2018 KL University, IEEE International Conference Jan 5th 2018, pp 95-96
- V Rao Tumati et al, “Design and study of Serially Fed Array Antenna for Ultra-Wideband Applications“ ICMEET-2016 (6th & 7th January 2017) International Conference Springer LNNS Series 2017, pp 465 - 473
- V Rao Tumati et al, “Design and study of Frequency Reconfigurable Antennas for Wireless Applications” ICMEET-2016 (6th & 7th January 2017) International Conference Springer LNNS Series 2017, pp 491-499

- V Rao Tumati et al, "On the convergence of synthesis of desired nulls from circular arrays using Flower pollination algorithm" ICMEET-2016 (6th & 7th January 2017) International Conference Springer LNNS Series 2017, pp 475-489
- V Rao Tumati et al, "Design of CPW Feed Triangular Slot Antenna Array for WiMAX and WLAN Applications" ICEMS-2016 (March 17th to 19th 2016) International Conference 2214-7853, Proceedings Published by Elsevier 2016, pp 254-259
- V Rao Tumati et al, "Design of a Compact Wideband Bow-Tie Dielectric Stacked Patch Antenna for Ku-Band Spectrum" IC3T-2016 (28th – 29th Oct 2016) International Springer LNNS Series 2016, pp 567-575
- V Rao Tumati et al, "Design of compact wing shape Vivaldi Antenna for X-band applications" Recent Trends in Micro waves, Antennas and Communications, Aegis of Electronics Division Board IE (I) National Convention, 2016 Proceedings of National Convention 1st -2nd July 2016, pp 56-59
- V Rao Tumati et al, "Design of compact patch antenna for Wi-Max applications with tapered inset feed" Recent Trends in Micro waves, Antennas and Communications, Aegis of Electronics Division Board IE (I) National Convention, 2016 Proceedings of National Convention 1st -2nd July 2016, pp 75-78
- V Rao Tumati et al, "Design and simulation of compact CPW fed banmatched monopole antenna for UWB applications" National Conference on VLSI Design, National Conference on Signal Processing, Image Processing, Communications and Embedded Systems, JNTUK, Kakinada, ISBN: 978-93-5235-967-7, pp 242-245, November 6 -7, 2015.
- V Rao Tumati et al, Flat wheel Rail detection (Won FIRST Prize in poster presentation) IACQER-2011, International ICNB-2-2011, 28th -29th Dec 2011, pp 356-359
- V Rao Tumati et al, "Simulation of MPA using probe, edge, and inset feed for 2.4 and 5 GHz" IACQER-2011, International ICNB-2-2011, 28th-29th Dec 2011, pp 323-328
- V Rao Tumati et al, "Multipurpose fibre optic sensor for determination of Temperature, Density and Refractive Index" Xianning University, China, CECNET-2011, International Conference IEEE, 978-1-6184-459-6/11, pp 4199-4201
- V Rao Tumati et al, "Transmission of electromagnetic wave through a cylindrical optical fibre –Effect of cut off wavelength" Recent advances in communications & Electronics National Conference 11th -12th Mar, 2011, pp 42-44
- V Rao Tumati et al, "Effects of radiation parameters on UWB Antenna design" NCSPCS-2010 National Conference 25th -26th Feb 2010, pp 25
- V Rao Tumati et al, "Modelling V-Shaped Cantilever Beam using Finite Element method" Recent trends in DSP, ES, VLSI, Image Processing& Communication Engineering National Conference 13th -14th Nov 2010, pp 48

- V Rao Tumati et al, "The applications of Nano-scale Electro ceramics NC on Nano-Materials, Applications & Nano Technology Developments, National Conference 4th - 5th Sep 2009, pp 36
- V Rao Tumati et al, "Design of Gregorian Reflector for Imaging," 2018 IEEE Indian Conference on Antennas and Propagation (InCAP), Hyderabad, India, 2018, pp. 1-3, doi: 10.1109/INCAP.2018.8770747.

➤ **Book Chapters**

- Design and Study of Serially-Fed Array Antenna for Ultra Wideband, Proceedings of 2nd ICMEET – 2016, Springer LNNS series 2017
- Design and Study of Frequency Reconfigurable Antenna for Wireless Applications, Proceedings of 2nd ICMEET – 2016 Springer LNNS series 2017.
- On the Convergence of Synthesis of Desired Nulls from Circular Arrays using Flower Pollination Algorithm, Proceedings of 2nd ICMEET – 2016 Springer LNNS series 2017
- Design of a Compact Wideband Bow-Tie Dielectric Stacked Patch Antenna for Ku-Band Spectrum, IC3T-2016 and publication in Springer LNNS series 2016.

➤ **Workshops /STTP/FDP Attended:**

- AICTE sponsored 2 weeks FDP on "Design challenges in Deep sub-micron technology", organized by Dept of ECE, Raghu Institute of Technology from 5th to 19th Aug, 2019.
- PLC Programming and Applications- Hitech Automation, organized by SIR CR Reddy College of Engineering 1-03-2015 -11-03-2015
- Research Methodologies -Directorate of Research & Development, Jawaharlal Nehru Technological University Kakinada, from 1st May to 15th May 2013.
- Intellectual Property Rights and Patents - Directorate of Research & Development, JNTUK, Kakinada, from 16th May to 30th May 2013
- "Advanced Engineering Optimization through Intelligent Techniques" – STTP, SVNIT, Surat, Gujarat State, India, from 07th – Jan 2013 to 11th Jan 2013
- 6th INUP Familiarization Nanofabrication Technologies' At Centre of Excellence in NANO Electronics, IIT Bombay. Mumbai, India, from 30th Nov to 4th Dec, 2011
- Two weeks staff Development program (SDP), Signal Processing & Wireless Communications, Refresher Course Attended Dept of ECE, VR Siddhartha Engineering

College, Vijayawada, AP, India, AICTE sponsored Staff Development Programme, 13th July to 25th July 2009.

- Training and Orientation, National Service Scheme' Ministry of Youth Affairs and Sports, Govt. of India RVR & JC Engg., College, Guntur, under TOC, Andhra University, Visakhapatnam, from 15th July to 24th July 2004
- 'Modern Antennas: Simulation & Applications' under TEQUIP, Dept of ECE, National Institute of Technology Warangal, 17th to 19th Feb 2012
- 'Optical & Wireless Networks' OWN-2007, G.S.S School of Telecommunications, Indian Institute of Technology, Kharagpur, 17th to 22nd Dec 2007
- 'Management Information System' A 21 days UGC Sponsored refresher course, organized by Department of Computer Science & Engineering, Acharya Nagarjuna University, AP, India, from 4th Jan to 24th Jan 2006
- 'Electronic Equipment Maintenance' A 15 days UGC Sponsored orientation course conducted at Shri G. S. Institute of Technology & Science, Indore, from 1st July 1995 to 15th July 1995.
- Attended and completed ' PCB Design, Fabrication & Assembly' a one month certified training program at NTTF Electronic Training Institute, Bangalore ; from 15th May to 9th June 1995.
- Training in control systems - TSS, Electronic Corporation of India Limited - ECIL, Hyderabad. Govt. of India from 20th Aug 1989 to 30th Nov 1989.

➤ **Workshops/Seminars conducted:**

- A 4 day Workshop On Introduction to IOT & Its Applications, Dept Of ECE, SIR CRR COE, In Association With Gk Tech. Solutions, Hyderabad, 11-03-2020 To 14-03-2020
- "3 Days WORKSHOP" On IOT USING RASPBERRY PI, Dept of ECE, SIR CRR COE, under IEEE Student Branch, in Association with Chinmaya Micro Technologies Hyderabad, 13-02-2020 to 15-02-2020
- A one day orientation program on " DBMS using python concepts" Dept of ECE, SIR CRR COE, in Association with Codegnan IT SOLUTIONS Vijayawada, 15-02-2020
- A "orientation programme" on CUBESAT, Dept of ECE, SIR CRR COE, by Mr.ASHHAR FARHAN, Director, EXSEED SPACE, Hyderabad & Mr.THOMAS GEORGE Member of Lamakaan Annual Radio Conventions, Hyderabad on 18-11-2019 in connection with selection of Payload designed by team of Faculty and students to ISRO Space share program
- A 5 day Work shop on 'computer vision with python' Dept of ECE, SIR CRR COE, in association with Codegnan IT solutions OPC , Pvt. Ltd. Vijayawada, 11-09-2019 to 14-09-2019

- A '24 hours' HACKATHON on 'computer vision with python – IOT applications in the Dept of ECE 14th Sep 8 AM to 15th Sep 2019 8 AM.
- A 4 days Work shop on "DATA ANALYTICS WITH PYTHON" Dept of ECE, SIR CRR COE, in association with Codegnan IT solutions OPC , Pvt. Ltd. Vijayawada, 28-08-2019 to 31-08-2019.
- In-House Training - 'Learn from seniors' on PROGRAMMING ON ARDUINO+Node MCU (IOT) and Sensors Interfacing, Dept of ECE, , SIR CRR COE, in two phases 30-08-2019 to 31-08-2019 and 04-09-2019 to 05-09-2019.
- International conference on Advanced Communication Technologies – ICACT- 2019, Dept of ECE, SIR CRR COE 26-04-2019 & 27-04-2019.
- A 3 days WORK SHOP ON ISB skill development and incubation period, organized by ISB Hyderabad, in the Dept of ECE, , SIR CRR COE, from 1st to 3rd March 2019
- A 3 day Workshop on "SCILAB Fundamentals" from APSSDC, AP, Dept of ECE, SIR CRR COE, from 28th to 30th Jan 2019
- 2 day Workshop on "Bludroid", Dept of ECE, in association with CMT Hyderabad, 07-01-2019 & 08-01-2019
- FDP on "Industrial Robotics", Dept of ECE, SIRCRRCOE, 01-01-2019
- Workshop on 'IOT' in association with Thingtronics Bangalore on 28-12-2018
- Workshop on "Introduction to Embedded Systems" Dept of ECE, SIR CRR COE 16th Oct 2017 to 24th Oct 2017
- A Two day FDP program on "GRAPHICAL SYSTEM DESIGN USING Lab-VIEW" in Association with National Instruments, Chennai Dept of ECE, SIR CRR COE, 3rd AUG-2017 & 4th, AUG-2017
- A Two day Workshop on "Arduino Programming and sensors interfacing" Dept of ECE, SIR CRR COE, 21st Sep 2017 & 14th Oct 2017
- A Two day National Workshop on "FPGA Based System Design Using Verilog" Dept of ECE, SIR CRR COE, 06th OCT 2017 & 07th OCT 2017
- A Four day Workshop on "ARM and Raspberry Pi", Dept of ECE, SIR CRR COE 09th Oct 2017 to 12th Oct 2017
- Two Day Work Shop On IC Design Flow Using Mentor Graphics Tools" , - Trident Tech Labs, Dept of ECE SIR CRR COE, 5th Aug 2016 & 6th Aug 2016
- MATLAB for Engineering Applications Math Works, Capricot Technologies Pvt.Ltd. Bangalore, Dept of ECE, SIR CRR COE, 19th August, 2016 & 20th August, 2016
- 3D Modeling of Electromagnetic Systems using ANSYS-RF Tools Electromagnetics Innovent Engg., Solutions, Bangalore, Dept of ECE, SIR CRR COE 9th Sep 2016 & 10th Sep 2016

- ARDINO Programming and sensor Interfacing, Dept of ECE, SIR CRR COE 22-01-2016 & 2-3-2016
- PLC Programming & Applications, Hi.Tech Automations, Vijayawada, Dept of ECE, SIR CRR COE, 26/2/2015 to 02/03/2015
- PCB Design and Testing, Q-Technologies, Vijayawada, Dept of ECE, SIR CRR COE, 5/2/2015 to 12/2/2015
- September 2010 - Organized a guest lecture for the benefit of the II/IV B.Tech ECE, students of Dhanekula Institute of Engineering & Technology on “Applications of Embedded Systems in Defense and Future Trends” by Naresh P Nawale, Scientist-D, DLRL, Hyderabad.
- October 2009 - Actively participated in conducting the National Level Technical Paper Contest as an organizing member. The resource person for the event is Sri T. Radha Krishna, Project Director, DRDO, Hyderabad, and the program was arranged for the benefit of the II/IV B.Tech ECE, students of Potti Sreeramulu College of Engineering & Technology.
- December 2008 - Organized a seminar on ‘Modern Trends - Antenna design’, the resource person is Sri Chakravarthy, Sr. Scientist DRDL, Hyderabad, and the program was arranged for the benefit of the III/IV B.Tech ECE, students of P.V.P. Siddhartha Institute & Technology.
- September 26, 2007 - Organized a seminar on ‘Modern Trends in Television’, the resource person being Sri P. Kalee Prasad, Engineer Dooradarsan & Vice President IETE, local Chapter, Vijayawada for the benefit of the B.Sc Electronics students of P.B.Siddhartha College of Arts & Science.
- October -2006 - Organized a seminar on Modern Techniques in Communications and their Applications with invited expertise from Prof. T.Radhakrishna, JNTU, Hyderabad and Dr.V.K.Anandan, Sr. Scientist, DST RADAR, Tirupathi, for U.G & P.G electronics students.
- March – 2006 - Guided the students to develop a web site for the Electronics association of Siddhartha Students (EASS), www.eassvijayawada.org, Inaugurated on 6th March 2006.
- January-2005 - Organized a seminar on ‘Embedded Systems & DSP’ , with invited expertise from Prof. K. Subba Rao, dept of ECE, College of engineering, Osmania University and Dr. B.V.S .Goud, HOD, USIC, Acharya Nagarjuna University, Vijayawada for the benefit of the UG & PG Electronics students of P.B.Siddhartha College of Arts & Science.

- January -2004 - A seminar was organized on “Fiber Optic Sensor and Applications”. Resource persons are Prof. J.Ramachandra Rao, N.I.T, Warangal and Prof. T.Radhakrishna, JNTU, Hyderabad.
- October -2003 - A talk was arranged on “Fiber Optic communications” and the resource person is Prof. G.R.C. Reddy, Dept of Physics, NIT, Warangal.

➤ **Technical Talks/Guest/ Organized and delivered**

- A technical talk on Computational Electromagnetics – applications of Array antennas & Chief Guest, Narsaraopeta Engineering College, 11-02-2020
- Member BOS , Dept of ECE PACE Institute of Technology and Sciences, Ongole., A.P., India, 29-07-2018
- Chief Guest PACE Institute of Technology and Sciences, 23rd Dec 2017
- Chief Guest Sasi Institute of Engineering & Technology, Tadepalli Gudem, WG (Dt.,) Andhra Pradesh, INDIA, 7th Nov 2017
- Chief Guest, Workshop on HFSS, Andhra Loyola Institute of Engineering & Technology, Vijayawada, Krishna (Dt.,) Andhra Pradesh, INDIA 23rd Sep 2017
- Judge and resource person VR Siddhartha Engineering College, Vijayawada, Krishna (Dt.,) Andhra Pradesh, INDIA 15th Sep 2017
- Guest lecture on Digital India RK College of Engineering, PARITALA, Krishna (Dt.,) Andhra Pradesh, INDIA, 11th March 2017
- Chair & Invited Guest ICMEET-16, Raghu Institute of Technology, Visakhapatnam, Andhra Pradesh, INDIA 6th & 7th Jan 2017
- Judge and resource person RVR & JC College of Engineering, Guntur Andhra Pradesh, INDIA 4th Jan 2017
- Chief Guest Andhra Loyola Institute of Engineering & Technology Vijayawada, Krishna (Dt.,) Andhra Pradesh, INDIA 27th Dec 2016
- Co-chairman, Two day all India workshop on Emerging techniques on VLSI Institution of Engineers (India) & PACE, Ongole, Andhra Pradesh, INDIA 9th & 10th Oct 2015
- Chief Guest, NRI Institute of Technology, Vijayawada, Andhra Pradesh, INDIA 24-09-2016
- Chief Guest, AIKYA-2016, VVIT, Guntur, Andhra Pradesh, INDIA 15-09-2016
- DAC External advisor Ramachandra College of Engineering, ELURU 2016-17, 2015-16
- Chief Guest and resource person, PACE, Ongole, AP 24th march, 2015,
- Convener, Tech-fest 2016 SIRCRR College of Engineering 4-03-2016,

- DAC External advisor PACE, Ongole, AP 2015-16 & 2016-17,
- Guest lecture on Modern Communication systems SIR CR Reddy College, Eluru, AP 21st Nov 2014,
- Judge for Projects ExpoPBS College, Vijayawada, AP, India February 2012,
- Satellite Communications, P. G Center, PB Siddhartha College, Vijayawada, AP, India October 2011.
- Judge for Technical Paper contest, VR Siddhartha Engineering College, Vijayawada, AP, 15 September 2011
- Member of Selection Committee Sivasivani Institute of Engineering & Technology, Mylavaram, AP, India June, 2011
- Optical Fiber Communications TJPS College, Guntur, AP, India 4th December 2007
- Judge for Projects Exhibition SDMS college, Vijayawada, AP, October 2007
- Fiber Optic Sensors SSN Degree College, Ongole, AP, India 14th February 2007
- Chief Guest and resource person, AP Teachers training program, Up-gradation of D Ed teachers to B Ed Program, May 2005.

➤ **Sponsored Projects:**

S.No.	Title	Sponsored by	Amount	Period	Ongoing/ Completed
1.	Faculty development programme on “BIO-MEDICAL SIGNAL PROCESSING AND APPLICATIONS” conducted from	AICTE sponsorship	3,40,000/-	1st to 14th Nov’2019,	Completed
2	ISRO space share program, one payload is selected for PSLV LEO launch.	SIR C R Educational Institutions	Rs 4,00,000/-		

➤ **Consultancy Projects:**

S.No.	Title	Agency	Amount	Period	Ongoing/ Completed

➤ **No of Patents (Filed/Granted):**

S.No	Title of the patent	Application Number & Date	Status	

1	Multimode Real time Data Transmission System for Aquaculture water monitoring – Fishpond automation with all possible communication to farmers	202041046392 06/11/2020	Published	
2	Portable and wearable alerting and disease preventing device - Colert	202041048634 13/11/2020	Published	
3	System and method for monitoring insulating oil quality in transformer	202141010932 15.03.2021	Published	
4	Sanitizer Free Corona Disinfector-Design – Spikes Distructor	CBR_342262 11.05.2021	Filed	
5	Mathsya Vardhini (Design Patent)	CBR_344264-001 07.06.2021	Filed	
6	Wearable Personnel monitoring Emergency Responsive Device	20214106628 23.04.2021	Filed	
Inter Institutional Patents				
1	Hearing aid and Method employed in its functioning	202041014902 03/04/2020	15/05/2020	

➤ **Professional Memberships:**

S.No.	Name of the Professional Body	Membership No.	Membership Type
1	IEEE and Counsellor for IEEE student branch,	M- 93966772	Senior Member
2	Fellow IETE	F-191928	Fellow
3	The Institution of Engineers (India), MIE	135737/3	MIE
4	Society of EMC Engineers (INDIA)	LM-1022	EMC Member
5	International Association of Engineers (IAENG)	M:117091	

➤ **Membership in BOS/ Editorial Boards:**

S.No.	Name of the University/ Journal	Member/ Editor/ Reviewer	Period
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1	Dept of ECE, PACE Institute of Technology and Sciences, Ongole., A.P., India	BOS Member	29-07-2018
2	journals ACES	Reviewer	
3	The Institution of Electronics & Telecommunication Engineers- IETE, Vijayawada Local Centre	Immediate past Chairman	2018-2020
4	IETE, Vijayawada Local Centre	Chairman	2016-2018
5	Institution of Engineers (INDIA) Andhra Pradesh State Centre.	Executive Member	2014-17
6	IEI, Vijayawada Center & Technical Member for the Elections.	Member, Board of Scrutinizers	2010-12

➤ **Details of Personal Blogs/ Educational Youtube Channels/ e content (if any):**

- Google scholar ID: https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:optical_sensors
- Orcid ID: <https://orcid.org/0000-0001-9676-5240>
- Research Gate: <https://www.researchgate.net/profile/Tumati-Rao-2>
- Blog: <https://vraotumati.blogspot.com/>

28. Details of Innovative Design/ Development of Product or Model (if any):

29. Technology Transfer:

30. Special Achievements (If any):

31. Personal Details:

Father's Name : Sri T. Janardhana Rao

Mother's Name : Mrs. T. Vanajakshi

(a) Gender : MALE

(b) Marital Status : MARRIED

(c) Religion : HINDU

(d) Nationality : INDIAN

T.VENKATESWARAO

Signature