

**Dr. Chava. Santhi Rani**  
**Professor & Head**  
**Department of ECE**  
**DMS SVH College of Engineering**  
**Machilipatnam**  
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❖ *Present Position*

- Professor & Head, Dept of ECE, DMS SVH College of Engineering, Machilipatnam
- Research Supervisor for JNTUK, Kakinada, JNTUH Kukatpally, Hyderabad and Acharya Nagarjuna University, Guntur
- Director, Women Empowerment Cell, DMS SVH College of Engineering, Machilipatnam.
- PG coordinator for the departments of ECE & EEE.

❖ *Nationality: Indian*

❖ *Academic Qualifications : B.Tech, M.Tech(DECS), PhD*

❖ *Teaching Experience (in Chronological order)*

SI No	Institute/Organisation	Start Date	End Date	Experience (Years)	Designation	Type of work
a	St. Theresa's Autonomous College for women, Eluru	12 <sup>th</sup> July 1993	28 <sup>th</sup> Feb 1998	5 Years	Lecturer	Teaching and NSS P.O
b	D. M. S. S. V. H. College of Engineering, Machilipatnam	6 <sup>th</sup> Mar 1998	4 <sup>th</sup> Oct 2005	7 Years	Assistant Professor	Teaching
c	D. M. S. S. V. H. College of Engineering, Machilipatnam	5 <sup>th</sup> Oct 2005	30 <sup>th</sup> Sep 2010	5 Years	Associate Professor	Teaching and Administrative Work

d	D. M. S. S. V. H. College of Engineering, Machilipatnam	1 <sup>st</sup> Oct 2010	26 <sup>th</sup> July 2015	5 Years	Professor	Teaching and Administrative Work
e	D. M. S. S. V. H. College of Engineering, Machilipatnam	27 <sup>th</sup> July 2015	Till Date	2 Years	Professor & HOD	Teaching and Administrative Work

### ❖ **Research Guidance**

#### **Ph.D**

Sl.No	Name of the Scholar	University	Supervisor/ Co-Supervisor	Year of Admission	Specialization	Status
1	Mr. Y.Chalapathi Rao	ANU	Supervisor	2011	Wireless Sensor Networks	Submitted Ph.D Thesis
2	Ms.Devarasetty Sudha	ANU	Supervisor	2011	Low Power VLSI	Completed Pre Ph.D
3	Mr.G.Veerapandu	ANU	Supervisor	2011	Wireless Communication	Completed Pre Ph.D
4	Ms.B.Lakshmi	ANU	Supervisor	2011	Smart Antennas	---
5	Mr.Vasamsetti.Srinivas	ANU	Supervisor	2011	Speech Processing	---
6	Mr.Karedla.Sriniva	ANU	Supervisor	2011	Wireless Communication	Completed Pre-talk
7	Mr.D.Sri Rama Murthy's	JNTU H	Supervisor	2012	Smart Antennas	---
8	Mr. B. Balaji	JNTU H	Supervisor	2012	Wireless Communication	Completed Pre Ph.D
9	Mr. S. Rama Rao	JNTU K	Co-Supervisor	2013	Smart Antennas	Completed Pre Ph.D

## ***M.Tech***

Sl.No	Name of the Scholar	University	Supervisor	Year of Registration	Specialization	Status
1	Renduchinthala H H S S Prasad	JNTU K	Supervisor	2015	VLSI	Completed
2	K. Meena Anusha	JNTU K	Supervisor	2015	Wireless Communication	Completed
3	K. Naga Divya Bhargavi	JNTU K	Supervisor	2015	Digital Image Processing	Completed
4	P.Naga Rani	JNTU K	Supervisor	2016	Cellular Communication	Submitted
5	P.Mounika	JNTU K	Supervisor	2017	Wireless Communication	Registered
6	Ch.Tidula	JNTU K	Supervisor	2017	Wireless Communication	Registered
7	G.Niharika	JNTU K	Supervisor	2017	Wireless Communication	Registered

❖ ***Membership in professional organizations: MISTE, MIE .***

❖ ***Research Interests:*** Smart Antennas, Wireless Sensor Networks, VLSI Design, Low power VLSI, Mobile and Cellular Communication, Digital Image Processing.

❖ ***Subjects Taught:*** Electronic Devices, Electronic circuits, Linear Integrated Circuits and Applications, Digital Electronics, Microprocessors and Interfacing, VLSI design, Electronic Instrumentation and measurements, Antennas and Wave Propagation, Digital Image Processing, Circuit theory, Network Analysis and synthesis, Mobile and Cellular Communication.

❖ ***Subjects Taught at PG Level:*** VLSI Technology and Design, Wireless communication and Networks.

❖ **Reviewer: 1. Journal of Applied Research and Technology, (Elsevier)**

**2. Journal of Engineering Research**

❖ **Publications**

**Total Publications : 45**

**International Journals : 28**

**Conferences : 17**

➤ **PAPERS PUBLISHED IN INTERNATIONAL JOURNALS**

- [1] P.Naga Rani, Dr.Ch.Santhi Rani, "Filter Bank Multicarrier Modulation Scheme for 5G Cellular Communication Systems under Various Fading Channels", International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), ISSN(Print):2320-9798, ISSN(Online):2320-9801, Volume 5, Issue 4, April 2017, [Journal Impact Factor- 6.577](#), [H index 12](#).
- [2] K.Meena Anusha, and Dr.Ch.Santhi Rani, "COMPARISON OF STBC SYSTEM AND STTC SYSTEM USING VARIOUS DOPPLER SPECTRA", International Journal of Electronics and Communication Engineering and Technology (IJECEET), ISSN(Print):0976-6464, ISSN(Online):0976-6472, Volume 7, Issue 6, Nov–Dec 2016, pp. 01-13, [Journal Impact Factor\(2016\)- 8.2691](#).
- [3] K. Naga Divya Bhargavi, and Dr.Ch.Santhi Rani, " Performance Comparison of SIFT, SIFT+Sparse Coding Method and PCA\_K-Means Clustering", IJSRD - International Journal for Scientific Research & Development, Vol. 4, Issue 11, 2017, ISSN (online): 2321-0613, Impact Factor 2.39, IC value 64.89.
- [4] Y. Chalapathi Rao, and Ch. Santhi Rani, "DDCD Algorithm based Energy Efficient Clustering for WSNs", Indian Journal of Science and Technology (IJST), ISSN (Print) :0974-6846,ISSN(Online):0974-5645, Vol 9(29), DOI: 10.17485/ijst/2016/v9i29/85515, August 2016. [Scopus Indexed Journal](#), SJR, [H Index 18](#).
- [5] Y Chalapathi Rao, Dr.Ch.Santhi Rani, "Performance Evaluation and Optimization of Wireless Sensor Networks using Firefly Algorithm", International Journal of Applied

- Engineering Research(IJAER), Vol.10, Issue.10, May, 2015,pp 27191-27203, **Scopus Indexed Journal**, **H Index 9**, SJR:0.13
- [6] D Sudha, Ch. Santhi Rani, “ Design of low leakage power SRAM using Multithreshold technique”, in International Journal of Applied Engineering Research (IJAER), ISSN 0973 – 4562, Volume 10, No 23, 2015, pp 43549 – 43554, **Scopus Indexed Journal**, **H-index 9**.
- [7] V Srinivas, S Ravichand, Dr. Ch. SanthiRani, “Model Based Speech Enhancement and Coding”, International Journal of Applied Engineering Research (IJAER), Volume no 6, **Scopus Indexed Journal**, **H-index 9**.
- [8] Ch. Santhi Rani, Dr. P. V. Subbaiah, and Dr. K. ChennakesavaReddy, “The Effect of Multiple Access Interference in UMTS”, International Journal of Applied Engineering and Research, IJAER, Vol 3, No 12, Dec. 2008, pp 1781-1789, **Scopus Indexed Journal**, **H Index 9**, SJR:0.13.
- [9] Y Chalapathi Rao, Dr.Ch.Santhi Rani, “Energy Efficiency and Maximizing Network Lifetime for WSNs using ACO Algorithm”,International Journal of Innovative Technology and Exploring Engineering(IJITEE), Vol.5, Issue.2, July, 2015, pp15-20. **Impact Factor 3.48**, **Google Scholar**.
- [10] P. Ugandhar Sai Nadh, Dr.Ch.Santhi Rani, P.Kusuma, T. Manogna, P.Mounika, V.VeeraiahChowdary, “Advanced Integrated Wireless Health Care Monitoring”, in International Journal of Emerging Science and Engineering (IJESE), Vol.4, Issue-3, Feb 2016, pp17-19. **Impact Factor 3.21**.
- [11] Y Chalapathi Rao, Dr.Ch.Santhi Rani, “FFA routing algorithm to extend the lifetime and efficiency of wireless sensor networks”, 2<sup>nd</sup> IEEE-ICKCE, March, 2015 Proceedings to IJAER, **Scopus Indexed Journal**.
- [12] HemaThota, Ch.SanthiRani, KiranmayeeKagitha, AnushaBalagam, AnushaGoriparthi and NagalakshmiDevarapalli, “Performance analysis of OFDM for 4G wireless systems under various fading channels”, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE), Vol.3, Issue 1, January 2015, pp 51-54, **Impact Factor 4.855**, **Index Copernicus International 5.59** ISSN (Online) 2321-2004, ISSN (Print) 2321-5526, ISO 3297:2007, **Cited by 7**
- [13] HemaThota, Ch.SanthiRani, KiranmayeeKagitha, AnushaBalagam, AnushaGoriparthi and NagalakshmiDevarapalli, “A Transmit Diversity Technique for OFDMSystem”, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE), Vol.3, Issue 3, March 2015, pp72-76. **Impact Factor 3.885**, **Index Copernicus International 5.59**, ISSN (Online) 2321-2004, ISSN (Print) 2321-5526, ISO 3297:2007

- [14] Y Chalapathi Rao, Dr.Ch.Santhi Rani, K.Ayyappa Ravi Kiran “Performance Evaluation of Cluster Tree Topology Based Wireless Sensor Networks”, IASET-IJECE, Vol. 3, Issue 1, Jan, 2014, pp. 17-33.
- [15] Srinivas Karedla, Dr. Ch. Santhi Rani, “ An Efficient Power Allocation Approach in Multi carrier Wireless communication System”, International Journal of Engineering Trends and Technology,(IJETT), Vol.16, Number.4, October 2014,pp 164-169, **Impact Factor 1.795**,**Index Copernicus value 4.15**, Directory of science score 21.78,**ISSN:2231-5381**
- [16] K. Sneha, Dr.Ch.Santhi Rani, A.B.L. Mounica, K.Vivek, K.S. Murali Krishna, K.R.V.M. Sankar, “Efficient allocation of power resource in OFDM Systems with diverse modulation techniques”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, (IJAREEIE), Vol.3, Issue.4, April 2014, pp 9006-9012, **Impact Factor 5.621**, **Google Scholar**, **H-Index 3**, ISSN (Online) 2278-8875, ISSN (Print) 2320-3765
- [17] BodavulaLokeshPhani, Akula Yogesh, Lanka Jyothi, BallemumaKiranmayee, BalagamSindhura and Dr. Ch. Santhi Rani, Smart WCDMA FDD downlink system with Constant modulus algorithm: Depreciates the mobile radiation effect on human and convalesces system performance”, Indian Journal of Applied Research(IJAR), Vol.4, Issue.4, April 2014, pp 197-199, **Thomson Reuters**, **IC Value 74.5**, **ImpactFactor 5.336**, **H-Index 2**, ISSN 2320-5407.
- [18] BodavulaLokeshPhani, Akula Yogesh, Lanka Jyothi, BallemumaKiranmayee,BalagamSindhura and Dr. Ch. Santhi Rani, “Compensation if ISI Accomplished byCMAEqualizer in WCDMA Communication System”, International Journal of InnovativeResearch in Electrical, Electronics, Instrumentation and Control Engineering(IJIREEICE), Vol.2, Issue 3, March 2014, pp 51-54. **Impact Factor 4.855**, **Index Copernicus International 5.59**, ISSN (Online) 2321-2004, ISSN (Print) 2321-5526, ISO 3297:2007
- [19] N. S. V. L Sowjanya, Y. Chlapathi Rao, Ch. Santhi Rani and B. Siri Dhatri, “WSNs based on SugarCane Industrial Monitoring and Control Using Energy Efficient Algorithm”, International Journal of Electronics and Communication Engineering (IJECE), Vol. 2, Issue.4, Sep 2013, pp 85-94, **Impact Factor 0.905** , ISSN: 2088-8708, **Cited by 73**
- [20] Y Chalapathi Rao, Dr.Ch.Santhi Rani, B.SiriDhatri “WSN’s based Oil Well Health Monitoring and Control Using ARM9 Processor”, IJCT, Vol. 10, Issue 1, July, 2013,

- pp. 1178-1185, [Google Scholar Impact Factor 1.46](#), Waiting for Thomson Reuters IF.
- [21] M R S Neelima, A. Haritha, A. SudhaMadhuri, K. DevanamPriya, K. Sandhya and Dr. Ch. Santhi Rani, " Smart Antenna for WCDMA FDD Downlink System" , Indian Journal of Applied Research (IJAR), Vol.3, Issue.2, Feb 2013,pp128-130, [Thomson Reuters, IC Value 74.5, ImpactFactor 5.336](#), ISSN: 2320- 5407.
- [22] Y. Chalapathi Rao, Dr. Ch. Santhi Rani and P. Lavanya, " Rapid Spanning Tree and Cluster Head Routing in WSNs Using a Hybrid Routing Protocol", International Journal of Innovative Research and Development (IJIRD), Vol. 1 , Issue 4, July 2012, pp216-230. [Index Copernicus value 65.68, Impact Factor 0.567](#)
- [23] Y. Chalapathi Rao, Dr. Ch. Santhi Rani and P. Lavanya, "Energy Efficient Aggregation Algorithm for Wireless Sensor Networks", International Journal of Scientific and Engineering Research (IJSER), Vol. 3 Issue 7, July 2012, pp 1-7, [Index Copernicus Impact Factor 3.8](#)
- [24] Y. Chalapathi Rao, Dr. Ch. Santhi Rani and P. Lavanya, " Monitoring and Protection of Oil and Gas condition in Industrial using wireless sensor Networks", International Journal of Electronics Communication and Computer Technology (IJECCT), Vol.2, Issue 5, Sep 2012, pp 213-218, [Google Scholar Impact Factor 1.245](#)
- [25] Ch. Santhi Rani, Dr. P. V. Subbaiah, and Dr. K. Chennakesava Reddy, "The Performance Evaluation of a New Proposed Adaptive Beamforming Algorithm in WCDMA Environment", International Journal of Mathematical Sciences and Engineering Applications (IJMSEA), Vol. 4 No. 1 March 2010, pp 359-370, [Google Scholar Impact Factor 0.525](#)
- [26] Ch. Santhi Rani, Dr. P. V. Subbaiah, and Dr. K. Chennakesava Reddy, "Performance Evaluation of DMI Algorithm in W-CDMA FDD Uplink", International Journal of Engineering Research and Industrial Applications (IJERIA) ,Vol 2, No III (2009), pp 353-368, [Global Impact and Quality Factor 0.435](#)
- [27] Ch. Santhi Rani, Dr. P. V. Subbaiah, and Dr. K. Chennakesava Reddy, "LMS and RLS Algorithms for Smart Antennas in W-CDMA Mobile Communication Environment", International Journal of Engineering and Applied Sciences(IJEAS), Vol. 4 No. 6 August 2009, pp 1-11, [Thomson Reuters Impact Factor 1.227](#)
- [28] Ch. Santhi Rani, Dr. P. V. Subbaiah, and Dr. K. Chennakesava Reddy, "Smart Antenna Algorithms for WCDMA Mobile Communication Systems", IJCSNS International Journal of Computer Science and Network Security, Vol 8, No. 7, July 2008, pp 182-186, [Thomson Reuters Impact Factor 2.56](#)

➤ **PAPERS PUBLISHED IN INTERNATIONAL CONFERENCES**

- [1] Y. Chalapathi Rao, Dr.Ch.Santhi Rani, P.Lavanya, "Network Calculus Based Performance evaluation of Cluster-Tree Wireless Sensor Networks", NCCAS, March, 2017.
- [2] K. MeenaAnusha, Dr. Ch. Santhi Rani, "Improved Performance of 8 – PSK STTC system over Rayleigh and Rician fading channels using different Doppler Spectra ", in Proceedings IET - IEEE3<sup>rd</sup> International Conference on Electrical, Electronics, Engineering Trends, Communication, Optimization and Sciences (EEECOS-2016), June. 01-02, 2016, pp 839-844.Link <http://www.ieeexplore.ieee.org>
- [3] K. MeenaAnusha, Dr. Ch. Santhi Rani, "Performance analysis of OFDM-OSTBC system under various fading channels using different Doppler spectra", in Proceedings IEEE International Conference on Electrical, Electronics & Optimization Techniques (ICEEOT-2016), Mar. 03-05, 2016, DMI College of Engineering, Chennai,pp 396-399. Link <http://www.ieeexplore.ieee.org>
- [4] RHHSS Prasad, Dr.Ch.Santhi Rani, "UART IP Core Verification by Using UVM", International Conference on Electrical, Electronics, Computer Science, Mathematics, Physical Education and Management (ICEECMPE), held at Chennai, 15<sup>th</sup> May 2016.
- [5] D Sudha, Ch. Santhi Rani, "FinFET-One Scale up CMOS: Resolving Scaling Issues", Proceedings of the 10<sup>th</sup> INDIACom-2016, IEEE Conference ID: 37465, 3<sup>rd</sup> International Conference on "Computing for Sustainable Global Development", 18<sup>th</sup> March, 2016, pp: 1880-1884. Link <http://www.ieeexplore.ieee.org>
- [6] Srinivas Karedla, Dr.Ch.Santhi Rani, "An Approach to Control Interference in Multi-Carrier Mobile Communications Systems", in Proc 2<sup>nd</sup> IEEE Int. Conf on Advances in Electrical, Electronics, Information, Communications and Bio-Informatics (AEEEEICB-2016), Feb-2016. Link:<http://www.ieeexplore.ieee.org>
- [7] Naga Rani P, Dr.Ch.Santhi Rani, "UFMC: The 5G Modulation Technique", IEEE International Conference on Computational Intelligence and Computing Research (ICCIC), Dec 15<sup>th</sup> to 17<sup>th</sup>, 2016,Agni College of Technology, Chennai, pp. 814-816. Link <http://www.ieeexplore.ieee.org>
- [8] Kommineni Naga Divya Bhargavi, Dr.Ch.Santhi Rani, "CBIR Based On Linear SPM Using SIFT Sparse Codes", IEEE International Conference on Computational Intelligence and Computing Research (ICCIC), Dec 15<sup>th</sup> to 17<sup>th</sup>, 2016, Agni College of Technology, Chennai, pp. 895-897. Link <http://www.ieeexplore.ieee.org>
- [9] Y Chalapathi Rao, Dr.Ch.Santhi Rani, Dr.SyedBasha S "Efficient clustering and Energy optimization Algorithm for WSNs: An approach in environment monitoring



system”, 2<sup>nd</sup> IEEE-ICIIECS, March, 2015, pp. 927-935. DOI: [10.1109/ICIIECS.2015.7192868](https://doi.org/10.1109/ICIIECS.2015.7192868)).Link:<http://www.ieeexplore.ieee.org>

- [10] Y Chalapathi Rao, Dr.Ch.Santhi Rani, “Energy Efficient Clustering for Wireless Sensor Networks using EASSR” IJAER (Scopus Indexed Journal), Vol.10, Issue.16, September, 2015.
- [11] D Sudha, Ch. Santhi Rani, “ SCPG: A New Technique to reduce Leakage Power in 16-bit binary multiplier”, in Proceeding of IEEE International Conference on Computational Intelligence and Computing Research, 2014, Link <http://www.ieeexplore.ieee.org>
- [12] Venkatraj. Tilak, Srinivas Karedla, Ch. Santhi Rani and V.V. RamaKrishna, “Two Way LMS Coding for Adaptive Channel Estimation Over Fast Frequency Selective Channel”, 2013 IEEE International Conference on Signal Processing Computing and Control ( ISPPCC 2013), Sep 26-28, 2013, Jaypee University of Information Technology(JUIT), Shimla, India. Link<http://www.ieeexplore.ieee.org>
- [13] K. Srinivas, Ch. Santhi Rani and M. Ramesh, “ An optimized Power Allocation Approach in Multi Carrier ommunication System” , International Conference on Recent Trends in Communication and Computer Networks (ComNet 2013), Nov 08-09, 2013, Hyderabad, India.
- [14] Ch. Santhi Rani, Dr. P. V. Subbaiah, and Dr. K. Chennakesava Reddy, “Smart Antenna Systems for Mobile Communication Networks”, International Conference on Advanced Communication Systems, Jan. 10-12, 2007, GCT, Coimbatore, ICACS-2007, pp. 85- 92.
- [15] Ch. Santhi Rani, Dr. P. V. Subbaiah, and Dr. K. Chennakesava Reddy, “MUSIC And LMS Algorithms for a Smart Antenna System”, Proceedings of IET-UK International Conference on Information and Communication Technology in Electrical Sciences (ICTES-2007), Dr. MGR University, Chennai, Tamilnadu, Dec 20-22, 2007, pp 965-969. Link <http://www.ieeexplore.ieee.org>
- [16] Ch. Santhi Rani, Dr. P.V. Subbaiah ,and Dr.K. ChennakesavaReddy,“Adaptive Beamforming Algorithm for Smart Antenna System in a CDMA Mobile Communication Environment”, Proceedings of the International Conference on Information and Communication Technology (IICT-07), July 26-28, 2007, Dehradun Institute of Technology, Dehradun, pp. 897-901.
- [17] Ch. Santhi Rani, Dr. P. V. Subbaiah, and Dr. K. Chennakesava Reddy, “Signal Processing Algorithm for Smart Antennas”, Proceedings of the International

Conference on Computer Communication, Control & Instrumentation, 3CI-2007, 21-23 Nov., pp. 196-200.

### ❖ **Seminars/ Conferences/ Workshops**

- Participated in National Level Seminar on Digital Signal Processing (NSDSP-2008), organized by DMS SVH College of Engineering, Machilipatnam on 16<sup>th</sup> Feb 2008
- Participated in the International Conference on Advanced Communication Systems (ICACS-2007), organized by the Department of Electronics and Communication Engineering, Government College of Technology, Coimbatore, from 10<sup>th</sup> to 12<sup>th</sup> January, 2007
- Participated in the National Work shop on Wireless Communications (WWC-2006), from 29<sup>th</sup> to 30<sup>th</sup> December 2006, organized by the department of Electronics and Communication Engineering, VR Siddhartha Engineering College, Vijayawada.
- Participated in Two-day National workshop on Digital Signal Processors & Practice held from 11<sup>th</sup> to 12<sup>th</sup> March, 2006 by the department of Electronics and Communication Engineering, Sri Sarathi Institute of Engineering & Technology, Nuzvid.
- Participated in a one day state level Workshop on Computational Electro Magnetics held on 1<sup>st</sup> December 2005 at Koneru Lakshmaiah College of Engineering, Vaddeswaram, Guntur.

### ❖ **Workshops Organized**

1. Work shop on “Arduino & its Applications”, at DMS SVH College of Engineering, Machilipatnam from 6<sup>th</sup> to 8<sup>th</sup> March 2017, as Convener.
2. Conducted National Level Student Technical Symposium, Vidura-2K17 at DMS SVH College of Engineering, Machilipatnam from 27<sup>th</sup> to 28<sup>th</sup> Feb 2017, as Convener.
3. Work shop on “Advanced C Programming” at DMS SVH College of Engineering, Machilipatnam from 18<sup>th</sup> to 19<sup>th</sup> Feb 2017, as Convener.
4. Two Day National Level Workshop on “Quadcopter”, at DMS SVH College of Engineering, Machilipatnam from 4<sup>th</sup> to 5<sup>th</sup> Jan 2017, as Convener.
5. Workshop on “Wireless Networks”, at DMS SVH College of Engineering, Machilipatnam, on 4<sup>th</sup> Nov 2015, as Convener.
6. Two Day Workshop on “PCB Design” at DMS SVH College of Engineering, Machilipatnam, on 1<sup>st</sup> & 2<sup>nd</sup> July 2016, as Convener.

7. Conducted National Level Student Technical Symposium, Vidura-2K16 at DMS SVH College of Engineering, Machilipatnam on 3<sup>rd</sup> March 2016, as Convener.
8. Conducted Inhouse training on embedded systems in collaboration with Winnerve info services private limited for a period of 6 weeks in the department of ECE, DMS SVH College of Engineering for academic year 2016-17 .

***Google scholar citations : 166***