



Dr. DEEPAK CHATRABHUJ KARIA

Associate Professor, Electronics Department,
Sardar Patel Institute of Technology

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- Date of joining the present institute: 11th July 2006
- Scholastic record: (*Begin with the highest degree and end with XII*)

S.No	Degree	Institute	Year of passing	Class/CGPI/percentage
1.	PhD (Electronics)	V.J.T.I., Mumbai University	May 2012	---
2.	M.E.(Electronics)	Sardar Patel College of Engineering/ Mumbai University	2008	70.2 %
3.	B.E. (EXTC)	Mumbai University	2001	66.67%

- Teaching experience in totality : 13 years+
- Academic merit record and achievements: (*only in graduation and post-graduation years*)
 - Topper in B.E. EXTC in 2001.
 - Topper in M.E. Electronics in 2008.
- Domain expertise and areas of interest:
 - Wireless Communication
 - Mobile Communication
 - Networking
- Details of subjects taught:

S.No.	Name of subject	Year and branch
1.	Principles of Communication Engineering	Second Year (Computer and EXTC)
2.	Antenna Wave Propagation	Third Year (EXTC)

3.	Electrical Networks, Circuits and Transmission lines	Second Year (EXTC)
4.	Digital communication, Communication Networks	Third Year EXTC/ETRX Fourth year ETRX
5.	Data Communication and Networking	SYMCA
6.	Next Generation Networks , Mobile and Wireless Communication, NDM, Wireless Technologies	ME EXTC ME CMPN
7.	Satellite Communication	Final Year and ME First Year (Sem-II (EXTC))

▪ **Workshops/Refresher courses/Training programs/Seminars attended:**

- Two days Workshop on “**Wireless Networking**” organized by I.I.T, Mumbai, March 2004.
- Two days seminar on “**Challenges Ahead in Telecommunication**”, organized by D.J.S.C.E, Mumbai, October 2005.
- Two weeks S.T.T.P on “**Wireless Technologies and Networking**”, organized by D.J.S.C.E, Mumbai, October 2005.
- One day Course on “**Matlab and its Applications**” Conducted by SPIT, Mumbai, 2006.
- One week S.T.T.P on “**Electromagnetic Spectrum and its Applications**”, conducted by SPIT, Mumbai, 2009.
- One week S.T.T.P on “**Emerging Areas of Signal Processing and Communication**”, conducted by Watumull, Mumbai, 2010.
- Two week S.T.T.P on “**Research Methodology**”, conducted by I.I.T.B., Mumbai, 2012.
- Three days NBA workshop on “**Outcome Based Accreditation for Stakeholders**”, conducted NBA in association with NMIMS , Mumbai, 2014.
- One week S.T.T.P on “**Communication Networks**”, conducted by I.I.T.B., Mumbai, 2014.

▪ **Workshops/Refresher courses/Training programs/Seminars conducted as a resource person: (Add only if applicable)**

- A two days seminar on “**LASERS AND ITS APPLICATIONS**” sponsored by B.A.R.C., for Shah and Anchor Kutchhi Engineering College, Mumbai, May 2006.
- A five days training program on “**Cisco Certified Network Associate**” for students of Sardar Patel Institute of Technology, Mumbai, 2008.

- A four days training program on “**Mobile Repairing**” for students of Sardar Patel Institute of Technology, Mumbai, Feb 2009.
- A four days training program on “**Mobile Repairing**” for students of Sardar Patel Institute of Technology, Mumbai, Sept2010.
- One Day Training program on “ **WLAN and its Security**” for students of PGDMIT, NITIE, Powai, 2014.

▪ **Membership of professional bodies:**

- Life Member of Institution of Electronics and Telecommunication Engineers (**IETE**).
- Life Member of Indian Society of Technical Education (**ISTE**).

▪ **Publications:**

International Conferences

S.No	Organizers	Title of conference	Title of paper/article/poster presentation	Schedule and venue of conference
1.	IEEE	International Conference on Nascent Technologies in the Engineering Field (ICNTE), 2015	Performance measurement of WEP and WPA2 on WLAN using OpenVPN Authors	Vashi, New-Mumbai, India, 2015.
2.	IEEE	International Conference on Nascent Technologies in the Engineering Field (ICNTE), 2015	Performance measurement of WEP and WPA2 on WLAN using OpenVPN Authors	Vashi, New-Mumbai, India, 2015.
3.	Springer	International Conference on Recent cognizance in wireless communication & image processing	Multiband and Wideband Antenna for Wi-Fi, WLAN, X-Band and Space Research Applications	16-17 January 2015, Jaipur ,India
4.	IEEE	International Conference on Advances in Computing, Communications and Informatics (ICACCI, 2014)	Wideband printed dipole antenna with embedded loops and coupling patches for digital TV signal reception	Noida, India, September 2014.

5.	Springer	International Symposium on Signal Processing and Intelligent Recognition Systems	Wideband Printed Dipole Antenna with Embedded Loops and Coupling Patches for Digital TV Signal Reception	Delhi, India, September, 2014
6.	IEEE	International Symposium on advances in communication and computing technologies	Planar Dipole Antenna Design for DTV Broadcasting Application	Mumbai, July 2014
7.	IEEE	International Symposium on advances in communication and computing technologies	Planar Antenna for communication devices	Mumbai, July 2014
8.	Springer	International Symposium on Signal Processing and Intelligent Recognition Systems	Inbuilt Multiband Microstrip Antenna for Portable Devices	Trivandrum, India, 13-14 March 2014
9.	Springer	International Conference on Security in Computer Networks and Distributed Systems	Clustering Based Routing Strategies for Energy Management in Ad-hoc Networks	Trivandrum, India, 13-14 March 2014
10.	Springer	International Conference on Security in Computer Networks and Distributed Systems	MM-SOAR: Modified SOAR Protocol Using Multiple Metrics for Wireless Mesh Network	Trivandrum, India, 13-14 March 2014
11.	Springer	International Symposium on Security in Computing and Communications	Privacy Issues in Single and Multi-hop Wireless Mesh Network	Mysore, India, August 2013
12.	Springer	International workshop on energy efficient wireless communications and networking	Performance Analysis of ZigBee based on Load Control and Power Monitoring System	Mysore, India, August 2013

13.	IEEE	<i>International Conference on Machine Intelligence Research and Advancement</i>	Review of Routing Metrics for Wireless Mesh Network	Jammu, India Dec 2013
14.	IEEE	<i>International Conference on Energy Efficient Technologies for Sustainability</i>	Wireless Based Load Control and Power Monitoring System	Tamil Nadu, India April 2013
15.	IEEE	<i>International Conference on Signal Processing, Communication, Computing and Networking Technologies</i>	Interference Mitigation In Multiuser OFDM Systems Using Network MIMO	Kanyakumari, India, July 2011
16.	IEEE	<i>International Conference on Signal Processing, Communication, Computing and Networking Technologies</i>	Optimization of Power Control Algorithms for Mobile Cellular Networks	Kanyakumari, India, July 2011
17.	IEEE	<i>International Conference on Signal Processing, Communication, Computing and Networking Technologies</i>	Game Theory Based Spectrum Load Balancing in Cognitive Radio	Kanyakumari, India, July 2011
18.	IEEE	<i>International Conference on Signal Processing, Communication, Computing and Networking Technologies</i>	Embedded Web Server Application Based. Automation and Monitoring System	Kanyakumari, India, July 2011
19.	IEEE	<i>3rd International Conference on Electronics Computer Technology</i>	Cooperation based multihop relaying for IEEE 802.16	India, 2011
20.	IEEE	<i>International Conference on Intelligent Systems, Modelling and Simulation</i>	Radio Channel Characterization for IEEE 802.11	Liverpool, United Kingdom, Jan 2010
21.	IET	<i>IET International Conference on Next Generation Networks</i>	Modeling of Indoor Radio Propagation Channel for IEEE 802.11b/g	India, 2010
22.	IEEE	<i>International Conference on Mathematical/Analytical Modeling and Computer Simulation</i>	Statistical Tuning of Walfisch-Ikegami Model in Urban and Suburban Environments	Malaysia, May 2010
23.	IEEE	European Modeling	A QoS Provisioning for	Liverpool,

		symposium	Real and Non Real Traffic Over WLAN Using Connection Admission Policy	United Kingdom, Jan 2008
24.	IEEE	SPIT-IEEE Colloquium and International Conference	Performance Analysis using Call Threshold CAC Scheme for MANET in Wireless MAN	India, 2008

▪ **Details of National and International Journal publications:**

S.No	Title of Journal	Title of paper	Co-authors
1.	<i>International Journal of Wireless Mobile Computing, Inderscience Publishing House, England, 2012 - Vol. 5, No.2 pp. 161 - 167</i>	QoS Provisioning in Cellular Networks Using Environment Based Interference Alleviation Model	B.K.Lande and R.D.Daruwala
2.	<i>International Journal of Intelligent Engineering Informatics, Inderscience Publishing House, England, 2011 - Vol. 1, No.3/4 pp. 246 - 260</i>	Back Propagation Neural Network Based Energy Efficient Routing Protocols for Mobile Ad-hoc Networks	B.K.Lande and R.D.Daruwala
3.	<i>International Journal of Intelligent Engineering Informatics, Inderscience Publishing House, England, 2013 - Vol. 2, No.1 pp. 21 - 29</i>	Improving Spectral Efficiency in Cooperative Cellular Networks Via Convex Optimization	B.K.Lande and R.D.Daruwala
4.	<i>International Journal of Ad-hoc Ubiquitous Computing, Inderscience Publishing House, England, 2012 - Vol. 11, No.4 pp. 206 - 213</i>	Performance Analysis of HMM and ANN based Spectrum Vacancy Predictor Behaviour for Cognitive Radios	B.K.Lande and R.D.Daruwala
5.	<i>International Journal of Intelligent Engineering Informatics, Inderscience Publishing House, England, 2013 - Vol. 2, No.1 pp. 30 - 46</i>	Mobility Models and Traffic Pattern Generation Based Optimization of Reactive Protocols (In Press)	V. Godbole
6.	<i>International Journal of Ultra Wideband Communications and Systems, Inderscience Publishing House, England, 2012 - Vol. 2, No.3 pp. 133 - 140</i>	Genetic Algorithm-Based Energy-Efficient Protocol For Wireless Sensor Networks (In Press)	V. Godbole
7.	<i>IET journal of Networks, England, 2013, Volume:2, Issue 3, pp.171-180</i>	A New Approach For Routing In Mobile Ad-Hoc Networks Based On Ant Colony Optimization With GPS	V. Godbole
8.	<i>International Journal of Communication Networks and Distributed Systems, Inderscience Publishing House, England, 2014 - Vol. 12, No.3 2, pp. 169-182</i>	Dynamic Clustering Scheme for Distributed Spectrum Sensing in Cognitive Radio Networks	P. Joshi, P. Rawat and M.Thakur
9.	<i>International Journal on Advanced Computer Theory and Engineering</i>	Wireless Electronic Notice Board	A. Gaikwad, T. Kapadia, M. Lakhani

10.	<i>International Journal of Swarm Intelligence, Inderscience Publishing House, England(In-Press)</i>	ACO based Biology Inspired Routing Protocol for Ad-hoc Networks	V. Godbole
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▪ **Contribution to and role played in the administrative affairs of the institute:**

1. Controller of examination section, SPIT, since May 2014.
2. Program Coordinator, ETRX Department, SPIT, since Sept2014.
3. Chief Coordinator of MH-DTE-MCA Counseling Round-III for the academic years 2010-11, 2011-12, 2012-13 and 2013-14.
4. In-Charge of Institute Level F.E. Admission Rounds for the academic years 2009-10, 2010-11, 2011-12, 2012-13 and 2013-14.
5. Faculty In-Charge SPIT, IETE and ISF Students' forum from 2008-2014.

• **Other Contributions:**

Invited Reviewer for IEEE Transactions on Wireless Communications, IEEE Journal on Vehicular Technology, IET Journals of Sensor Systems, Networks, IEEE Communication Magazine, IEEE Symposiums and Conferences.