

Curriculum Vitae

Dr. Pradeep B. Mane

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EDUCATION

- **Doctor of Philosophy in Engineering & Technology, Bharati Vidyapeeth University, L. B. S. Road, Pune 411043.**
Dissertation: Studies of Hardware and Communication Protocol of Bluetooth Technology for LAN/Security System.
- **Master of Engineering, University of Pune, COEP Pune, 1999**
Specialization: Microwave Engineering.
THESIS: Circularly Polarized Micro Strip Antenna Array.
- **Bachelor of Engineering, University of Pune, COEP Pune, 1991**
Specialization: Electronics & Telecommunication
PROJECT: Robotic Arm Control.

□ Professional Experience

- **Principal** in AISSMS IOIT, Pune from 11th June 2009 to till date.
- **Professor** in E&TC Engineering department, Bharati Vidyapeeth's College of Engg. For Women, Pune from 13th June 2006 to 10th June 2009.
- **Assistant Professor** in Electronics Engineering department, Bharati Vidyapeeth University College of Engg., Pune from 1st July 1999 to 12th June 2006.
- **Lecturer** in Electronics Engineering department, From 11th July 1994 to 30th June 1999.
- **Customer support engineer** in Philips India Limited from 15th July 1991 to 30th June 1994.

□ Awards Received:

- Best Principal (Professional) from the Urban Area under the University Foundation Day Award of Savitribai Phule Pune University for the Academic Year 2020-21.
- B. R. Batra Memorial award for contribution in Teaching and Research from IETE New Delhi, 2019.
- Best Principal of the year award by Computer Society of India, Mumbai Chapter, 2018

- Bhartiya Vidya Bhavan National Award for Best Engineering College
Principal by ISTE, New Delhi, 2017.
- Felicitated by Janseva Sahyog Community Center (MAH/2299/85, Trust F-3586) for contribution in teaching on 5th Sep 2013.

● **ACHIEVEMENTS**

□ **As Individual:**

- The proposal submitted and received grant worth \$4,418 from the IEEE Humanitarian Activities Committee (HAC) and IEEE special Interest Group on Humanitarian Technology (SIGHT) for the project named “UV Based Disinfection Machine” (20-COV-49).
- The proposal submitted and presented received grant worth Rs. 45.5 lakhs from UGC under their innovative program scheme to start the Bio-Medical Engineering course in the department of Electronics BVUCOE, Pune.
- The research proposal submitted to University of Pune received grant of Rs. 3.00 lakh for project PCI Bridge
- Project guided received the first price in the national event, CONCEPTS and IMPETUS organized by PICT Pune in year 2003- 2004.
- U.G. Project guided received Motorola Scholarship in year 2006-07.
- Project guided received the first price in the national event, ZION 09 organized by D.Y.Patil Engineering & Technology, Pune in year 2008-09.
- Bibliographical profile selected for inclusion in the forthcoming 2010 Edition of Marquis Who’s Who in the World.
- Project guided received the Second price organized by IETE, Pune center in year 2012.
- Felicitated by Janseva Sahyog Community Center (MAH/2299/85, Trust F-3586) for contribution in teaching on 5th Sep 2013.
- Co-investigator for ISRO sponsored project (grants of Rs. 8.70 Laks).
- Co-investigator for BCUD sponsored project (grants of Rs. 1.80 Laks).

□ **As Principal:**

- Autonomous Institute from Academic Year 2022-2023
- NAAC Accreditation ‘A+’ Grade in the second cycle and ‘A’ Grade in the first cycle.
- NBA Accreditation first cycle 3 UG Programs and second cycle 5 UG Programs.
- AICTE Clean Campus Award 2019-20
- Gold Category (2016, 2017, 2018 and 2020) as per AICTE-CII Survey of Industry Linked Technical Institutes.
- Ranked among Top Best Private Engineering Colleges (2017-18:172, 2018-19:180, 2019-20:188 & 2020-21:158) Survey conducted by “INDIA TODAY-MDRA”
- The institute is ranked 85 in Private and 101 in overall in 2019, 93 (Private) and 104 (Overall) in 2020 and 83 in private, 91 in overall, 9th in Placement and 21 in Research in 2021 by “Times Engineering Survey”

- Best Private Engineering Institutes 2019-20 Survey conducted by WEEK MAGAZINE West-19 and All India – 103
- Best Private Engineering Institutes 2019-20 Survey conducted by Outlook- Rank 79
- The institute is recognized by AICTE for “Best practices in Education” in 2018.
- Best Private Institutes 2018-19 Survey Conducted by Business World- Overall Rank-128, Private institutions -68
- Best Private Engineering College Award 2017 by FSAI in Pune region.
- Best Private Engineering College Award 2015 by ISTE, New Delhi.
- Engineering Education Excellence Award 2015 by Indo Globalchamber of commerce industries and Agricultural.
- Permanent Affiliation for all Programs and received 2(f) and 12(B) from UGC.
- MoU : UK and US Universities (UKIERI Fund 12,000 pounds)
- Professional Bodies Awards : IETE - Received 1st prize (2010-11,2011-12,2012-13) (Best Students’ chapter), 2nd Prize (2013-14)
- CSI - Received 1st prize(2012-13,2013-14,2015-16,2016-17) (Best Students’ chapter)
- Total Amount of Grants received : 84,43,832/-
 - Seminar/Conference/STTP Rs. 23,76,832/-
 - Research Grants: 30,08,000/-
 - AICTE MODROB: 30,59,000/-

□ **As Department Head (BVCOEW Pune):**

- Department received Rs.5.5 lakh for research proposal submitted to University of Pune year 2006-07
- Department received Rs. 2.5 lakh for research proposal submitted to University of Pune year 2007-08
- Department received Rs. 1.49 lakh for workshops, seminars and national level techfest from University of Pune year 2007-08

□ **Highlights of Professional Experience**

- B. O. S. Member faculty of Electronics BVU (2000 to 2006)
- B. O. S. Member faculty of Electronics SPPU (2015-2018)
- Worked as organizing chair 2nd 3rd and 4th international conference on “Emerging Smart Computing and Informatics” ESCI-2020, 2021 and 2022 in AISSMS Institute of Information Technology, Pune, Maharashtra, India.
- Worked as organizing chair Wiecon -ECE 2016 IEEE International WIE Conference on Electrical and Computer Engineering from 19-21 December 2016 in AISSMS Institute of Information Technology, Pune, and Maharashtra, India.
- Invited as chief guest for Inaugural function of Faculty Development Program organized by PES Modern College of Engineering on 16th Dec 2016.
- Attended scrutiny meeting of Ph.D. Electronics Engineering for spiral thesis submitted during academic year 2015-16 on 2nd Dec, 2016.
- Worked as session chair in International Conference on “Advances in Electronics, Communication and computer Technology (ICAECCT 2016)”

organized by RSCOE Pune on 2nd and 3rd Dec, 2016.

- Worked as session chair in International Conference on Data Engineering and Communication Technology (ICDECT-2016) organized by Aspire Research Foundation, Pune during 10th to 11th March 2016.
- Worked as session chair in International Conference on Transformations in Engineering Education organized by College of Engineering in association with Indo-US Collaboration for engineering education during 8th to 12th Jan 2016.
- Worked as session chair in IEEE International Conference on Information Processing (ICIP) organized by Vishwakarma Institute of Technology during 16th to 19th Jan 2015.
- Regular reviewer for Springer Wireless Personal Communications Journal.
- Organizing Secretary for “e-PG Project Exhibition” on 29th-30th May 2015 organized under the aegis of BoS Electronics Engineering SPPU.
- Chief Test Administrator for MH-CET for MBA.
- Senior Supervisor of conduction of Pune University and BVU Theory Examination.
- Paper Setting and assessment of Theory papers for Pune University and BVU.
- Internal and External Examiner for Practical and Oral Examination
- Senior Supervisor of conduction of CET of BVU
- Worked as session chair in International Conference on Pervasive Computing (ICPC2015) organized by Sinhgad College of engineering during 8th to 10th Jan 2015.
- Panel judge for Phase-I evaluation of communication based project competition held on March 24, 2014
- Steering committee member in “INDO-US Education Colloquium 2013” February 5th – 6th 2013 organized by AISSMS.
- Technical Experts in e-PGCON 2011 on 26 April 2011 at Maharashtra Institute of Technology.
- Judge in e-PGCON 2010 on 17th April 2010 at Rajshree Shahu College of Engineering, Pune.
- Chief coordinator for JISHIN 2009 National Level Techfest held at BVCOEW, Pune 4th to 6th March 2009.
- Judge at the Intercollegiate Paper Presentation contest at BHARTIYAM 2009 by BVUCOE, Pune.
- Judge at the Intercollegiate Paper Presentation contest at Versatalia 2009 by PVG Pune.
- Judge at the Intercollegiate Paper Presentation contest at BHARTIYAM 2008 by BVUCOE, Pune
- Chairman for “Prodigy” national level techfest held at B.V.C.O.E.W. from 18 to 20 Feb 2008.
- Delivered lecture on “Blue tooth Technology” at IETE Pune, dated on 29th March 2008.
- Judge at the Intercollegiate Paper Presentation contest at BHARTIYAM 2007 by BVUCOE, Pune.
- Chairman for “Prodigy” national level techfest held at B.V.C.O.E.W. from 6 to 8 March 2007
- Presentation on Bluetooth Technology to IEEE student branch in 2006-07.

- Coordinator for workshop on “BIOMEDICAL INSTRUMENTATION” on scheduled on 23rd & 24th Feb.2006 BVUCOE.
- Convener for National Conference on “Emerging Trends in Biomedical Engineering” scheduled on 15th, 16th Sep.2005
- Judge at the intercollegiate contest at Intech Xication 2003 organized by MIT Pune.
- T & P Coordinator of the Electronics Department, BVCOE, Pune.
- Member of Admission committee BVU.
- Member of Convocation committee BVU.
- Member of library committee (BVUCOE & BVCOEW).
- Member of purchase committee (BVUCOE & BVCOEW).
- Assisting the principal in administrative activities (BVUCOE & BVCOEW).
- Coordinator for preparation of NBA Report (BVUCOE).
- Coordinator for preparation of NAAC Report (BVUCOE).
- Resource Person IETE, Pune, MAE COE Alandi, SAE Kondhawa, VIIT Pune.
- Coordinator for Post-Graduation course (BVUCOE).
- Coordinator Biomedical Engineering (BVUCOE).
- LIC Committee Member (University Of Pune).
- Vice-Chancellor’s Nominee and subject expert for staff selection (University of Pune).
- Assessing the Physical and Financial infrastructure to accord the status of private university.
- Member of UGC Committee which visited Jaipur National University.
- Head of E & T.C. Department.

□ **Courses Taught:**

Under-Graduate	Post-Graduate
<ol style="list-style-type: none"> 1. Communication Engineering 2. TV Engineering 3. Digital Communication System 4. Data Communication 5. Computer Networks 6. Electronic Circuit Design 7. Electronic System Design 8. Electronic Communication I 9. Electronic Communication II 10. Analog and Digital Circuits 11. Voice Networks 12. Audio & Video Engineering 	<ol style="list-style-type: none"> 1. Research Methodology 2. Digital Communication 3. Wireless Computer Networks 4. Mobile and Wireless Networks

□ **Guidance to PhD Students:**

Sr. No.	Name of the Student	Topic of Research	Date of Registration
1.	Mrs. Viddhulata S. Mohite	Radio Resource Management for heterogeneous wireless networks	6 th June 2009 (completed)
2.	Mr. Sandeep B. Vanjale	A comprehensive and analytical study of rogue access point detection methodologies in IEEE 802.11 with special emphasis on use of mobile agent and artificial Intelligence for detection.	15 th June 2009 (completed)
3.	Mr. Sushilkumar M. Rajbhoj	An Approach of combining fingerprint and Iris Biometric for Personal Recognition.	5 th June 2009 (completed)
4.	Mrs. Madhavi H. Belsare	Performance Analysis of Space Time Block Coded Multiple Input Multiple Output - MIMO System in different channels	17 th August 2012 (completed)
5.	Mr. Altaf Osman Mulani	Area Optimization of invisible digital image watermarking on reconfigurable platform	24 th August 2012 (completed)
6.	Mr. Kishor D. Shinde	Development of Novel Algorithm for Smart Inverter for High Penetration of Roof top Solar Energy in power utility Secondary Distribution network for next Generation Grid	15 th March 2016
7.	Ms. Shobha N. Pawar	Ultra Low Phase Noise PPL Frequency Synthesizer for Ku Band	26 th August 2016
8.	Mr. Sanjay M Bhilegaonkar	Performance Evaluation of compact High Efficiency Circularly Polarized Back Substrate Integrated waveguide Monopulse Tracking Antenna	7th March 2018
9	Mr Milind Patil	Blind Image Quality Assessment for Multi Spectral and Modal Fused Images ,	5th March 2018

□ **Guidance to PG Students:**

❖ **Some of the Projects guided recently.**

- LIC Policy Management System.
- Multimedia Streaming.
- Simulator for Base band & Link Controller.
- Chat Monitoring System.
- Design and Verification of Scheduler and SPI 4 output Modules at the Receiver side of System Packet Interface level 4 (SPI-4) Core.
- Design and Verification of Scheduler and SPI 4 output modules at the Transmitter side of System Packet Interface level 4 (SPI 4) Core.
- VISI Implementation of the SAFER + Encryption Algorithm for Bluetooth Systems.
- Web Based Process Plant Control.
- ATM Cell Selection Polices.
- Implementation of Peripheral Component Interconnect (PCI)Bridge Using FPGA.
- Implementation of Rijndael Algorithm Using Verilog.
- Design and simulation of data scrambler and convolucional encoder for WLAN (802.11a)
- Design of compact dual band (2.4 and 5.1 GHz) microstrip antenna for WLAN.
- Separation of singing voice from music accompaniment.

- ❖ Faculty for BITS Pilani Distance learning education for MS (Embedded Systems) at Patani Computer Systems, Pune
- ❖ Assessment of Paper for Mumbai University, UG.
- ❖ Assessment of Paper for Shivaji University, UG and PG.
- ❖ Assessment of Paper for Nagpur University, PG.

□ **Teaching Interest**

- Analog Communication
- Digital Communication.
- Computer Networks.
- Mobile Communication.
- Wireless Network.
- Television Engineering.

□ **Teaching Evaluation**

- Subject results above 80 %.

□ **Scholarly Contributions**

Patents							
Authors	Title	Year	Country	Assignee	Patent No	Number of Pages	Web Add
Mane Pradeep Bajrang, Bairagi Vinayak Kachardas	Smart Waste Collection and Management System	2015	India	Dr. Pradeep B Mane	1721/MUN/2015	33131	www.ipindia.gov.in
Mane Pradeep Bajrang, Bairagi Vinayak Kachardas	Method for blur detection and correction for images	2013	India	Dr V K Bairagi	18107	-	www.ipindia.gov.in
Mane Pradeep Bajrang .	Superconductor based electromagnetic Propulsion system	2018	India	Mane Pradeep Bajrang .	22184	05	www.ipindia.gov.in
Copyright							
Sr. No.	Title	Applicant	Registration No/ Diary Number	Status			
1	Rogue access point detection using multiple parameter	Dr. P. B. Mane	SW-9878/2017	Registered			

Journal Publication:

Sr. No.	Title of Research Paper	Details of National /International Journal
1.	Web app for quick evaluation of subjective answers using natural language processing	Scientific and Technical Journal of Information Technologies, Mechanics and Optics. Vol. 22 No 3, May–June 2022, ISSN 2226-1494 (print) ISSN 2500-0373 (online)
2.	Augmenting rooftop solar energy penetration ratio with secondary distribution network using smart inverter for maximum power transfer capacity for subordinate grid- A review	Sources, Part A: Recovery, Utilization and Environmental Effects. https://doi.org/10.1080/15567036.2018.1520353
3.	Review on high penetration of rooftop solar energy with secondary distribution networks using smart inverter	Energy Reports-Elsevier https://doi.org/10.1016/j.egy.2022.03.086 Volume 8, November 2022, Pages 5852-5860
4.	An Ultra-Low current mismatch charge pump and loop filter in 0.18um CMOS process for low spur PLL applications	International Journal of Engineering Trends and Technology 2021, 69(6), pp. 14–24
5.	Bluetooth: An attractive solution to internet of things	International Journal of Scientific and Technology Research, 2020, 9(2), pp. 4582–4586
6.	Trust and Opportunity Based Routing Framework in Wireless Sensor Network Using Hybrid Optimization Algorithm	Wireless Personal Communications ISSN-0929-6212
7.	Smart Farming using Temperature Sensor, Moisture Sensor, Flow Sensor and Ultrasonic Sensor Leading to Water Conservation.	International Journal of Recent Technology and Engineering (IJRTE) ISSN-2277-3878
8.	Evaluation of the Performance of a Reed Solomon Coded STBC MIMO System Concatenated With MPSK and MQAM in Different Channels	International Journal of Sensors, Wireless Communications and Control- 2019 ISSN:2210-3287(Online) ISSN: 2210-3279 (Print) DOI : 10.2174/2213275912666190410151455
9.	Image Processing Baesd Toll Automation Technique Using ANPR	Helix Scientific Explorer, 2019
10.	IPv4 to IPv6 Transition Mechanism Using Tunneling Technique	International Journal of Research and Analytical Reviews (IJRAR),2019
11.	High Throughput and Area Efficient FPGA Implementation of AES algorithm	International journal of Engineering and advanced Technology ISSN- 2249-8958, Volume 8 , Issue-4, April 2019

12.	Performance Analysis of Uncoded and Coded 4XN Space Time Block Coded MIMO System Concatenated with MQAM in Rayleigh Channel	International Journal of Engineering & Technology, 7(3.13) (2018) 193-195
13.	BER Performance Evaluation of 2X2, 3X3 and 4X4 Uncoded and Coded Space Time Block Coded (STBC) MIMO System Concatenated with MPSK in Rayleigh Channel.	International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 1 (2018)pp. 113-117
14.	Multi Parameter Based Robust and Efficient Rogue AP Detection Approach	Wireless Personal Communications 2018
15.	Secure and area efficient implementation of digital image watermarking on reconfigurable platform	International Journal of Innovative Technology and Exploring Engineering -2018
16.	Performance Based Appraisal System for Technical Education : Challenges	International journal for research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653, IC Value 45.98, SJ Impact Factor :6.887 Volume 6 Issue II, Feb- 2018
17.	Multiparameter Based Robust and Efficient Rough AP Detection Approach.	Springer Wireless Personal Communications September 2017, Volume 96, Issue 1, pp 1093-1110, DOI 10.1007/s11277-017-4860-5, Print ISSN: 0929-6212, Online ISSN: 1572-834X , Publisher: Springer US
18.	O.S.C.A.R.- Orbital Satellite Communication using Amateur Radio	IJSRD- International Journal for Scientific Research & Development, Vol. 5, Issue 04, 2017/ISSN (online):2321-0613
19.	Adaptive Cruise Control Collision Warning With Brake Support.	International Journal of Advance Engineering and Research Development (IJAERD)/ Volume-04, Issues-06 of June 2017.
20.	Power Management System in Smart Home based on WSN	Journal of Advance research in Dynamical and control System, 13-Special Issues, November 2017 ISSN 1943-023X
21.	Smart Environment Monitoring Using WSN	Journal of Advance research in Dynamical and control System, 13-Special Issues, November 2017 ISSN 1943-023X

22.	“Fast and Efficient VLSI Implementation of DWT for Image Compression”,	International Journal for Research in Applied Science & Engineering Technology, Vol.5 Iss.IX, 2017.
23.	“Watermarking and Cryptography Based Image Authentication on Reconfigurable Platform”	Bulletin of Electrical Engineering and Informatics, Vol.6 No.2, 2017
24.	Area Efficient High Speed FPGA Based Invisible Watermarking for Image Authentication	Indian Journal of Science and Technology, Vol 9(39), DOI: 10.17485/ijst/2016/v9i39/101888, October 2016 ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645
25.	Impact of Packet Size and Mobility on Heterogeneous Wireless Network	Springer Wireless Personal Communications December 2015, Volume 85, Issue 3, pp 1093-1110, DOI 10.1007/s11277-015-2828-x, Print ISSN: 0929-6212, Online ISSN: 1572-834X , Publisher: Springer US
26.	Separation of Signing voice from music background	International Journal of Computer Applications, Volume-129, Issue-4, Pages-22-26, November 2015
27.	Robust Invisible Watermarking for Image Authentication	Emerging Trends in Electrical, Communications and Information Technologies: Proceedings of ICECIT-2015, Pages pp 193-200, DOI 10.1007/978-981-10-1540-3_20, Print ISBN 978-981-10-1538-0, Online ISBN 978-981-10-1540-3
28.	Biometrics based IRIS Recognition System	VidyaCare Journal Of Engineering Research, Volume 1 No.1, July-August 2015, pages 1-5
29.	A Survey of Hardware Implementation for Video Watermarking	VidyaCare Journal Of Engineering Research, Volume 1 No.1, July-August 2015, pages 6-10
30.	Applications of Intelligent Transportation Systems using RFID Systems	VidyaCare Journal Of Engineering Research Volume 1 No.1, July-August 2015, pages 11-14
31.	Detecting Unauthorized Access Point in WLAN by using CTT	International Journal of Advanced Research in Computer Science and Software Engineering, Volume 5, Issue 7, July 2015, ISSN: 2277 128X, pp829-833
32.	Transformation based Approach of Combining Iris and Fingerprint Biometric at Confidence Level	International Journal of Computer Applications, ISSN: 0975 – 8887, Vol.116, issue 13, 2015
33.	Detection and Prevention of Rogue Access Point in the 802.11 Using Various Parameters	International Journal of Advanced Research in Computer Science and Software Engineering, Volume 5, Issue 5, May 2015, ISSN: 2277 128X, pp 1723-1727
34.	Hand Gesture Implementation For Device Control	IJSART - volume 1 Issue 4 –APRIL 2015 ISSN [ONLINE]: 2395-1052

35.	An Approach of Combining Iris and Fingerprint Biometric At Image Level in Multimodal Biometrics System	International Journal of Soft Computing and Engineering (IJSCE) ISSN: 2231-2307, Volume-5 Issue-1, March 2015, pp 102-106
36.	Study of Algorithms for Separation of Singing Voice from Music	International Journal of Innovative Research in Computer and Communication Engineering (An ISO 3297: 2007 Certified Organization) Vol. 3, Issue 3, March 2015
37.	Implementation of Multiple Input Multiple Output System Prototype Model in Different Environment	International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE), Vol 4, Issue 3, March 2015, pp 504-508, ISSN: 2278 – 909X, Vol.4, issue 3
38.	Wireless Lan Intrusion Detection By Using Statistical Timing Approach	IJRET: International Journal of Research in Engineering and Technology, eISSN: 2319-1163 pISSN: 2321-7308, PP 457- 461, Nov 2014
39.	Comparison of Omni-Directional Rectangular Micro Strip Antennas	Technical Journal of the institution of Engineers, Vol: 38 Nov 2014, ISBN No: 978-81-924990-2-4
40.	Impact of Mobility Management on Heterogeneous Wireless Network	International Journal of Computer Technology and Electronics Engineering (IJCTEE) Vol. 4, Issue 5,ISSN:2249-6343, October 2014
41.	Omni-Directional Rectangular Micro Strip Antenna for WLAN	International Journal of Advanced Research in Computer Science and Software Engineering, ISSN: 2277-128X, Vol.4, issue 9, 2014.
42.	Implementation Of Microcontroller Based Wireless Scada System	International Journal of Science, Engineering and Technology Research (IJSETR), Volume 3, Issue 4, April 2014
43.	Non-Intrusive Appliance Load Monitoring System Using Zigbee Protocol	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 4, April – 2014
44.	Elimination of Rogue access point in Wireless Network	International Journal of Scientific & Engineering Research, ISSN 2229-5518, Vol:4, ISSUE 12, Dec 2013
45.	Haar wavelet approach of iris texture extraction for personal recognition	International journal of innovative technology And exploring engineering (IJITEE), ISSN: 2278-3075, Vol.3, issue 2, July 2013.
46.	Automatic Controlling Of Train Using Wireless Protocol Zigbee	IOSR Journal of Electronics and Communication Engineering (IOSR-JECE) e-ISSN: 2278-2834,p- ISSN: 2278-8735. Volume 6, Issue 3 (May. - Jun. 2013), PP 01-03
47.	DESIGN AND SIMULATION OF WLAN (802.11a) TRANSMITTER	International Journal Of Scientific & Engineering Research, Volume 4, Issue 5, May-2013, ISSN 2229-5518, Pp 1981-1987
48.	A survey of evil twin detection methods For wireless local area network.	International journal of computer engineering and technology (IJCET),ISSN 0976-6367,
49.	Analysis Of Improvement QoS Parameters Techniques Used For Hybrid Networks	International Journal of Emerging Technology and Advanced Engineering, ISSN 2250-2459, Volume 3, Issue 3, March 2013 pp. 867-873
50.	Design and simulation of data scrambler and convolutional encoder for WLAN (802.11a)	UACEE International journal of advances in computer networks and its security, Vol.2, Issue 2, [ISSN 2250-3757], 2012.
51.	Unapproved access point avoidance approach for WLAN:New algorithm	International journal of Recent trends in Engineering and science, ISSN: 2277, vol2, issue2, 2012.

52.	Analysis of Handoff Techniques used for Hybrid Networks: Cellular / WLAN	International Journal of Research in Computer Science eISSN 2249-8265 Volume 2 Issue 4 (2012) pp. 45-50
53.	Vertical Handoff technique for Heterogeneous Wireless Network	International Journal of Computer Applications, 5166-1078, ISBN: 978-93-80866-68-7
54.	Spectrum Sensing in Cognitive Radio using TSA	International Journal of Computer Networks and Wireless Communications (IJCNC), ISSN: 2250 - 3501 (Online), 2277 – 5307, Vol: 2, Issue 4, pp 514-518
55.	An Improved binarization based algorithm using minutiae approach for Fingerprint Identification	International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249–8958, Volume-1, Issue-6, August 2012
56.	Performance evaluation of space time block coded spatial modulation, vertical-BLAST and diagonal-BLAST space time block code	International journal of computer networks and wireless communications (IJCNC), ISSN: 2250-3501, Vol. 2, No.4, August 2012.
57.	A Novel and Efficient Algorithm of Textural Feature Extraction for Fingerprint Identification	International Journal of Engineering Research & Technology, Volume/Issue: Vol.1 - Issue 5 (July - 2012) e-ISSN: 2278-0181
58.	Providing data security for WI-FI Network using mobile agent in distributed system.	International journal of advanced engineering Technology, E-ISSN: 0976-3945, Vol.3, issue2, April-2012.
59.	Synthesis and Simulation of Data Scrambler, Convolution Encoder, Data Interleaver and BPSK Modulator for WLAN (802.11a) Base band Chip	International Journal of Engineering and Innovative Technology (IJEIT) Volume 1, Issue 3, March 2012, ISSN: 2277-3754, pp 139-143
60.	Unapproved access points elimination in WLAN using multiple agents and Skew intervals.	International journal of Engineering science and Technology (IJEST), ISSN:0975-5462, Vol.4, No.02, Feb., 2012.
61.	Detection of illegal access points using filters and network attacks using Signatures for providing security in WLAN.	International journal of Engg. Research and industrial Appls.(IJERIA), ISSN0974-1518, Vol.4, No. III (August 2011, pp309-318)
62.	Providing Data Security In WLAN By Detecting Unauthorized Access Points And Attacks	International Journal Of Engineering Science & Technology, ISSN: 0975-5462, Vol.3 No.5 May2011
63.	On Fast Accurate Detection Of Unauthorized Access Point using Time Stamp in WLAN	International Journal Of Computer Science & Technology, Vol.2 Issue 3,ISSN:- 0976-8491,2011
64.	Unapproved Access Point avoidance approach for WLAN	International Journal of Recent Trends in Engineering Sciences,2, 2277-3258,2011
65.	Implementation of Rijndael Algorithm using Verilog for Enhancing Data Security	International Journal for Engg. Research & Indu Appls. ISSN 0974-1518, Vol 2,No.V, PP 259-269, Sep-Dec2009
66.	Development of Event Reporting Slandered in Generic Equipment model layer for semi automation tool	International Journal for Engg. Research & Indu Appls. ISSN 0974-1518 Vol 2,No.V ,pp73-86, July-sep09
67.	Implementation of transparent peripherals component interconnect bridge using FPGA	Journal of Multi-Disciplinary Engg Technologies ISSN-0974-1771, Vol 3,No.2,Jan-june 2009
68.	A Java Platform Based Approach For Implementing Customized Blue tooth Profiles	A journal of Advance in Engineering Science section C No-2: April June 2008 published by Sinhgad Technical Education Society, Pune

- **Conference Publications:**

Sr. No.	Title of Research Paper	Details of National /International Conference
1.	Investigation of Effects of Solar Photovoltaic Penetration in an IEEE 13-bus Radial Low-Voltage Distribution Feeder System.	2022 19th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON)
2.	Analysis of Radial Distribution Test Feeders in Presence of Solar Photovoltaic Systems Using Power Factory	2022 IEEE International Conference in Power Engineering Application, ICPEA 2022 - Proceedings, 2022
3.	IoT Based UV Disinfection Machine	2021 International Conference on Intelligent Technologies, CONIT 2021.
4.	Design and Implementation of KU Band LC-VCO using 90nm CMOS Process	Proceedings - International Conference on Smart Electronics and Communication, ICOSEC 2020, 2020, pp. 1234–1238, 9215283
5.	Case study of outcomes of innovative teaching methods adopted in engineering education in India	2020 Advances in Science and Engineering Technology International Conferences, ASET 2020, 2020, 9118188
6.	Analysis of performance Parameters of X-band Substrate Waveguide Antennas for different slot Shapes	2019 Indian Conference on Antennas and Propagation (InCAP-2019)
7.	Performance Analysis of Space Time Block Coded MIMO System Concatenated With M-PSK And MQAM In Different Channels	2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA)
8.	Detection of rogue access point using various parameters	Advances in Intelligent Systems and Computing 2017
9.	Wide band PLL frequency synthesizer: A survey	2017 International Conference on Advances in Computing, Communication and Control (ICAC3)
10	A survey on energy efficient routing protocol for MANET	Proceedings of the 2016 2nd International Conference on Applied and Theoretical Computing and Communication Technology, iCATccT 2016
11	Swarm Intelligent WSN for Smart City	ICDECT-2016, Volume 2, pp 691-700, ISBN 978-981-10-1677-6

12	ZigBee Topology: A survey	International Conference on Control Instrumentation Communication and Computational Technologies, ICCICCT 2016
13	Robust Invisible Watermarking for Image Authentication	Emerging Trends in Electrical, Communications and Information Technologies: Proceedings of ICECIT- 2015, Pages pp 193-200, DOI 10.1007/978-981-10-1540-3_20, Print ISBN 978-981-10-1538-0, Online ISBN 978-981-10-1540-3
14	Assessment of Course Outcomes (COs) in University affiliated engineering programs - case study of Course Outcome attainment	MOOCs, Innovation and Technology in Education (MITE), 2015 IEEE 3rd International Conference on , Page(s): 112 - 116 , 2015/10/1
15	Separation of singing voice from music accompaniment using matrix factorization method	2015 International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT) , Page(s): 166 – 171, 2015/10/29
16	Area Efficient technique for implementation of Discrete Wavelet Transform on FPGA	2015 IEEE International Conference on Engineering and Technology(ICETECH), 20 th March 2015, Coimbatore, India
17	Wireless LAN Intrusion Detection And Prevention System for malicious Access Point	Bharati Vidhyapeeth's Institute of Computer Applications and Management, ISSN: 978-9-3805-4415-1, Vol.9, issue 2, 11th-13th March 2015
18	A Novel approach for elimination of Rough Access Point in Wireless Network	India Conference (INDICON), 2014 Annual IEEE, 11-13 Dec. 2014, Print ISBN: 978-1-4799-5362-2, Page(s): 1 -4 DOI: 10.1109/INDICON.2014.7030418 Publisher: IEEE
19	Area optimization of cryptographic algorithm on less dense reconfigurable platform	IEEE International conference on Smart Structures and Systems, Chennai, ISBN: 978-1-4799-6506-9/17, 9th Oct 2014,
20	Wireless LAN Intrusion Detection (WLID) And Prevention System for malicious Access Point	Proceedings of 02nd ITR International Conference, 07th September-2014, Bhubaneswar, ISBN: 978-93-84209-50-6, pp 66-70

21	Illegal Access Point detection using clock skews method in wireless LAN	Computing for Sustainable Global Development (INDIACom), 2014 International Conference on Date of Conference: 5-7 March 2014 Page(s):724 – 729 Print ISBN: 978-93-80544-10-06-2022 INSPEC Accession Number: 14382798 Conference Location : New Delhi DOI: 10.1109/IndiaCom.2014.6828057 Publisher: IEEE
22	Match Score Integration of Iris and Fingerprint in Multibiometrics System	International Conference on Electronics and Communication Systems(ICECS'14), 13 th -14 th Feb 2014, IEEE, ISSN: 978-1-4799-2320-2/14, pp 136-140, DOI:10.1109/ECS.2014.6892564
23	Omni-directional dual band [2.4GHz and 5.1 GHz] Micro-strip antenna for WLAN	International conference on Electrical and Electronics Engineering, 27 th Jan 2013, Goa. ISBN: 978-93-82208-58-7.
24	Vertical Handoff technique for Heterogeneous Wireless Network	Third International Conference On Computational Intelligence Applications, 11 – 12 Feb 2012
25	4G Technology: Challenges,SWOT, and RRM Analysis	i-COST electronics and communication conference proceeding, 13-15 Jan 2011
26	Network simulator and net beans IDE 6.8 for hybrid network analysis	i-COST electronics and communication conference proceeding, 13-15 Jan 2011,pp 7.52.1-7.5.6
27	Implementation of 32 bit PCI Bus Interface using HDL.	International Conference on Emerging Microelectronics & Interconnection Technology (EMIT-08) at National Institute of Advanced Studies (NIAS) Bangalore on 15-18 Dec, 2008
28	Rijndael (AES) Algorithm Implemented in Verilog	International Conference on Emerging Trends in Engineering (PICETE 2008), Pravara Rural Engg. College , 20-22 Dec 2008 pp-1057-1061
29	Implementation of Sub-bytes & shift rows Rijndael Algorithm in Verilog.	International Conference on Emerging Techniques in computery, Electronics, Embeded System & VLSI Design (ICEVD) organized by RVVP COE, Ahemadnagar. On 20-21 feb 2008.
30	Implementation of PCI Bridge using HDL.	International Conference on Emerging Techniques in computery, Electronics, Embeded System & VLSI Design (ICEVD) organized by RVVP COE, Ahemadnagar. On 20-21 feb 2008.
31	Enhancement in Bluetooth Communication Security	In proceedings of ACVIT-07 IEEE International Conference organized by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 28-30 Nov.2007 pp 188-194

32	PCI Bridge using HDL.	INNOVATION 2007 organized by University of pune on 19th – 20th Nov 2007
33	Point to Point Communication Using Ad-hoc Network	National Conference on Signal Processing and Automation, NCSPA- 07, Dr.D.Y.Patil Institute of Engg. And Techno. Pimpri, Page-18, 6-8 Sept.2007.
34	Genetic Algorithm for Bluetooth Scatternet protocol	National Conference on Communication and Signal Processing organized by Thadomal Sahani Engineering college Mumbai, 12-13 April 2007. pp 63-69.
35	SPIHT Based Medical Image Compression for Telemedicine	NCACCN-2007 organised by PDVVPCOE, Ahmednagar; 9 th & 10 March 2007.
36	Wireless Protocol Standards and their Impacts	International Conference (ADELCO- 2007) on “advance in Electronics Communication held at National Engg. College, Kovailpatti, Tamilnadu on 1 st to 3 rd Feb 2007. pp 677-683
37	Kernel Level on-Access Data Authentication and Security through stackable file systems	Proceedings of Computer Association of Nepal, Katmandu Nepal, 12-13 Jan 2007
38	Remote Health Monitoring System.	National Conference on Engineering Trends in Electronics NCETE-2006, Organised by MAEER Pune’s Maharashtra Academy of Engineering Alandi (D), Pune, Dec.-28-30 2006.
39	VISI Implementation of SAFER + Algorithm for Bluetooth Technology	Padre Conceido College of Engg Verna Goa, National conference on Emerging trends in Electronics and Communication Engg, 14-15 th Sept.2006 Page-77-81.
40	VISI Implementation of a Crypto processor based on RJINDAEL Algorithm	Padre Conceido College of Engg Verna Goa, National conference on Emerging trends in Electronics and Communication Engg, 14-15th Sept.2006 Page-77-81.
41	VISI Implementation of Core complaint to SPI 4.2 for Broadband Communication	VIIT-Pune-National Conference on Broadband Communication Systems, 1- 3 Sept.2006.
42	System Packet Interface 4.2 core design and verification	Nirma Institute of Technology Gandhinagar, Gujrat, 22 nd March 2006.
43	DSP-Embedded Application in Automobile Control	NCES-06 no Embedded system, Thadomal Sahani Engineering college Mumbai, 25th Feb 2006.
44	Mobile Phone Processor Architecture	NCES-06 no Embedded system, Thadomal Sahani Engineering college Mumbai, 25th Feb 2006.
45	Embedded system application in automobile control system	NCES-06 on Embedded system, Thadomal Sahani Engineering college Mumbai, 25th Feb 2006.

46	On line global business management system.	Proceedings of the International conference on recent trends on information systems (IRIS06) national engineering college Kovilpatti, Tamilnadu Jan 6th -8th 2006 page no. 323-331
47	Flaws in bluetooth security	Proceedings of the International conference on recent trends on information systems (IRIS06) national engineering college Kovilpatti, Tamilnadu Jan 6 th -8 th 2006 page no. 323-331
48	Authentication and encryption for blue tooth suing VHDL	National Conference on modern trends in information and communication technology held on Oct. 20 th to 22 nd 2005 at Maharishi Markandeshwar engineering college, Mullana (Ambala) Haryana.
49	Remote Patient Monitoring System	National Conference on “Emerging Trends in Biomedical Engineering” organized by Bharti Vidyapeeth Pune on 15th – 16th Sep 2005
50	Design And Analysis of an ATM Switch With Priority Discarding Scheme	N.C.SP CON, Vol 1, June 2005, pp 183-187
51	Real Time Multimedia Streaming in Mobile Communication System.	Second National Conference (ADELCO-2005) on “advance in Electronics Communication held at National Engg. College, Kovailpatti, Tamilnadu on 18th, 19th April 2005.
52	Cost Effective Banayan Network for ATM Network	Second National Conference (ADELCO-2005) on “advance in Electronics Communication held at National Engg. College, Kovailpatti, Tamilnadu on 18th, 19th April 2005.
53	Implementation of Cryptography using VLSI technology to improve data security with high flexibility	Second National Conference (ADELCO-2005) on “advance in Electronics Communication held at National Engg. College, Kovailpatti Tamilnadu on 18th, 19th April 2005.
54	Interface reduction techniques for coexistence of Bluetooth and Wi-Fi	National Conference on “Trends of Computational techniques in Engg” to be hold at Sant Harachand singh Longowal Central institute of engg & Tech, Longowal. On 15-16 Oct.2004.
55	Chat Monitoring System	National Conference on “Trends of computational techniques in Engg” to be hold at Sant Harachand singh Longowal central institute of engg & Tech, Longowal. On 15-16 Oct.2004.
56	Digital handshaking	National Conference on “Hi-Tech Trends in Emerging Computation Technologies” Sethu Institute of Technology On 10-11 Sept.2004

57	Pulse Oximeter Using Micro controller Using 89c51”	National Conference on “Hi-Tech Trends in Emerging Computation Technologies” Sethu Institute of Technology On 10-11 Sept.2004 Technology
58	Simulator for lower layers of Bluetooth module.	“International conference on computer, control and communication” at Chennai on 20-22/8/04
59	CPM as a Project Management Technique-Electrical Engineering Field	“International conference on soft Computing” at Chennai on 27-28/5/04
60	Elliptic Curve Cryptosystem For Secure Multimedia Transfer	“International conference on soft Computing” at Chennai on 27-28/5/04
61	Bio-informatics Revolution	“Environment & Pollution Management for sustainable Development” at LNIT Bhopal on 24-04-2004
62	Blue tooth Ad-hoc PAN System	National Seminar on Nationwide Cellular mobile Telecommunication Services on 9 th and 10 th August 2003 Organized by IETE-Pune.

□ **Books:**

1. Mane P. B., Atul P. Godse, U. A. Bakshi , Basic Electronics Engineering, Technical Publications; 1st edition (2019 & 2020)
2. Mane P.B. Pawar S. “Research Methodology: A Practical and Scientific Approach: Book chapter” Published by February 4, 2019, Taylor and Francis group.
3. Mane P.B. Bormane D.S. and Itkarkar R.R. “Television Engineering Audio and Video systems” 1st edition, 2016, Wiley Publication.
4. Mane P. B. “Television & Video Engineering”, 1st edition, 22nd Dec. 2003, Technova Publication, Pune.
5. Mane P. B. and J. S. Katre “Data Communication and Networks” 1st edition, 18th June 2003, Tech Max Publication, Pune.
6. Mane P. B. and C. B. Joshi “Consumer Electronics”, 1st edition, 31st March 2001, Technova Publication, Pune.
7. Mane P. B. “Communication System”, Ist edition, 6th July 2000, Technova Publication, Pune.
8. Mane P.B. and R. A. Barapate “Satelite TV and Video Technology.”, 1st edition, 23rd Jan, 1998, Technolva Publication, Pune.

□ **Workshops and Seminar Attended:**

1. Participated in one day Seminar on “Quality Assurance in Higher Education” held on 5th Oct 2016, at SPPU, Pune.
2. Participated in the Principals/Directors Workshop of Savitribai Phule Pune University, Pune held on 3rd to 5th May 2015 at Sinhgad Institutes, Lonavala.
3. Attended one day workshop on “Examination system” organized by Nowrosjee Wadia College, Pune in association with University of Pune

on 26th Feb 2014.

4. Participated in National Level workshop on “Problem and Project Based learning” organized by Sinhgad Institute of Technology, Lonavala.
5. Participated in Annual Workshop organized by Student welfare organization held on 11th Sep 2009.
6. Participated in ‘One day workshop on train the trainers for Principles /teachers’ held at University of Pune during 22nd and 23rd May 2009.
7. Multipurpose Lab Station organised by Agilent Technologies & Marathwada Mitra Mandal COE on 4th Feb 2009.
8. Agilent Education Symposium 2007 organised by Agilent Technologies on Sept. 4 2007.
9. Seminar on VLSI and Embedded Systems organised by PVG College of Engg on 29/6/2007.
10. Workshop on Audio of Video Engg organised by D. Y. Patil Institute of Engg. & Technology Pune on 23rd Jan 2007.
11. Workshop on Teaching Methodologies in Telecom Network & Management organized by I2IT Pune on 13th Jan 2007.
12. Workshop on Structuring Proposed M.E. (E&TC) Syllabus for University of Pune organized by RSCOE, Pune on 18th Dec 2006.
13. Workshop on Microwave Engg organised by PICT College on 26th Sept. 2006.
14. Workshop on Teaching Methodologies for B.E. SEM-II (E&TC/ Electronics) 2003 course for University of Pune organized by PICT, Pune on 25th Sept.2006.
15. Workshop on Computer Networks and Wireless Technology organized by MES College of Engg and Sigma Trainers Pvt Ltd on 28 and 29th June 2006.
16. A seminar organized by Interface Devices India pvt ltd and ronde and Schwarz India pvt. Ltd on vector networks analyzer on 13th Feb 2006
17. Workshop on Advances In Embedded System Technology organized by IEEE Pune sub section & TCS Pune on 21st Jan, 2006.
18. A Workshop Organized by MCCIA and Pune University on “Industry-Institute Partnership” on 20th, 21st Aug. 2005 in Devang Mehta Hall, Persistent Pune
19. Workshop on Wireless Communication at IIT Powai dated 27th, 28th March 2004.
20. Workshop on writing Thesis organized by Global Research & Training Foundation Pune, 5th Oct, 2003.
21. Short Term Training Programme on Calibration organized by Vishwakarma Institute of Technology Pune from 9th March to 10th March 2000.
22. Basic PC Hardware Maintenance & Networking Workshop organized by Resource Centre, Indian Institute of Technology, Mumbai under project SSS-IMPACT, sponsored by Dept. of Electronics conducted at Pune, on 13th to 16th March 1999.
23. Programme on Industry-Institute Partnership sponsored by ISTE & AICTE and Conducted by VIT College Pune, from 23rd to 28th Dec. 1996.
24. Seminar on Compact Disc Player & Video CD Player from 24th to 28th

June 1996 held in Pune organized by the Association for Overseas Technical Scholarship, Japan implemented by Sharp Corporation in cooperation with Kalyani Sharp India Ltd and The Ministry of International Trade and Industry, Japan.

25. Seminar on Camcorder with LCD monitor (View Cam) and LCD Projector from 4th to 8th Sept.1995 held in Pune organized by the Association for Overseas Technical Scholarship, Japan implemented by Sharp Corporation in cooperation with Kalyani Sharp. India Ltd and the Ministry of International Trade and Industry, Japan.

□ **Foreign Countries Visited:**

- ECTI-CON 2022- Huain, Thailand Date- 24th May 2022 – 27th May 2022
- Sakal Educon- Tokyo, Japan, Date-24th September -26th September 2019
- Sakal Educon- in [Moscow, Russia](#), Date- 4th October – 10th October 2018
- Sakal Educon- Germany, Date-6th October -6th October 2015.
- Asia Pacific University, Malaysia, April 2011.

□ **Research Interest:**

- Wireless Communication
- Computer Network

□ **Professional Affiliations:**

- FIETE
- LMISTE
- IEEE (Senior Member)
- Broadcast Engineers
- ISA(Member)
- IJERIA
- CSI(Member)
- ISSS (Member)

□ **Industrial Experience:**

- **Job Responsibilities:**
 - Performance of “Authorized Philips Service Center”
 - Customer Complaints
 - Quality Feedback and Reporting
 - Conducting Training Courses
 - Technical Reports on Defective Damaged sets at Dealer Premises and Depot
 - Spare Part Availability at Distributor and Stockiest.
 - Special Task – Free Check UP Campaign.

Pradeep B. Mane

