

Curriculum Vitae

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, G.C.O.E. Pune, 1999
SUPPORT AREA: Microwave Engineering.
THESIS: Circularly Polarized Micro Strip Antenna Array.
 - **Bachelor of Engineering**, University of Pune, G.C.O.E. Pune, 1991
PROJECT: Robotic Arm Control.
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ACHIEVEMENTS

- 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
- 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
- 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.

PROFESSIONAL EXPERIENCE

- **Professor** in E&TC Engineering department, Bharati Vidyapeeth's College of Engg. For Women, Pune from 13th June 2006 till date.
- **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.

Course Taught

Under-Graduate	Post-Graduate
<ol style="list-style-type: none">1. Communication Engineering2. TV Engineering3. Digital Communication System4. Data Communication5. Computer Networks6. Electronic Circuit Design7. Electronic System Design8. Electronic Communication I9. Electronic Communication II10. Analog and Digital Circuits11. Voice Networks12. Audio & Video Engineering	<ol style="list-style-type: none">1. Digital Communication2. Wireless Computer Networks3. Mobile and Wireless Networks

- **Chairman of Theory paper for Pune University and BVU :**

Sr. No.	Name of the Subjects (Pune University)	Name of the Subjects (BVU)
1	Communication Engineering (S.E-E&TC)	Digital System Design (F.E –IT)
2	Digital Communication System (T.E-IE)	Electronic Communication I (S.E –Electronics)
3	Data Communication (BE-IE)	Electronic Communication I (T.E-Electronics)
4	Principles of Communication Engineering. (S.E.IT)	Digital Communication (T.E-Electronics)
		Data Communication (T.E-Computer)
5		Computer Networks (B.E –Electronics)
		Mobile Computing (B.E –IT)
6		Digital Communication (ME- Electronics – VLSI)
7		Wireless Computer Networks (ME-Electronics- VLSI)
8		Mobile and Wireless Networks (ME-Computer)

- **Chairman of Practical & Oral Examination for Pune University and BVU:**

Sr. No.	Name of the Subjects (Pune University)	Name of the Subjects (BVU)
1	Data Communication (B.E-I.E.)	Digital System Design (F.E –IT)
2	Analog Communication (S.E-E&TC)	Electronic Communication I (S.E-Electronics)
3		Electronic Communication I (T.E-Electronics)
4		Digital Communication (T.E- Electronics)
5		Computer Networks (B.E –Electronics)
6		Wireless Computer Networks (ME- Electronics – VLSI)
7		Mobile and Wireless Networks (ME-Computer)

Guidance to UG Students:

- **Some of the Projects guided recently.**
 - Railway Reservation using SMS.
 - Application of Blue tooth Security
 - Micro controller Based Automat Dialing System for Security.
 - PDH (TI) MAP/DE – MAP over SONET-Test Bench.
 - PC-based Caller ID System.
 - Remote Monitoring System using HART Protocol.
 - Employee Access System.
 - Remote Controlled Application based on DTMF.
 - Wireless Extension for EPABX
 - Instrumentation LAN
 - Light Controlling System
 - Miniature Model of Microwave Circuits.
 - RFID Based Time Attendance System.
 - Security System Inhibiting Intruders.

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.

- **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 are always above 80 %.

HIGHLIGHTS OF PROFESSIONAL EXPERIENCE

- Head of E & T.C. Department.
- Member of UGC Committee which visited Jaipur National University for assessing the Physical and Financial infrastructure to accord the status of private university.
- Vice-Chancellor's Nominee and subject expert for staff selection (University of Pune).
- LIC Committee Member (University Of Pune).
- Coordinator Biomedical Engineering (BVUCOE).
- Coordinator for Post Graduation course (BVUCOE).
- B. O. S. Member faculty of Electronics BVU.
- Resource Person IETE, Pune, MAE COE Alandi, SAE Kondhawa, VIIT Pune.
- Coordinator for preparation of NAAC Report (BVUCOE).
- Coordinator for preparation of NBA Report (BVUCOE).
- Assisting the principal in administrative activities(BVUCOE & BVCOEW).
- Member of purchase committee (BVUCOE & BVCOEW).
- Member of library committee (BVUCOE & BVCOEW).
- Member of Convocation committee BVU.
- Member of Admission committee BVU.
- T & P Coordinator of the Electronics Department, BVCOE, Pune.
- 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.
- Judge at the Intercollegiate Paper Presentation contest at Versatalia 2009 by PVG Pune.

- Coordinator for workshop on “BIOMEDICAL INSTRUMENTATION” on scheduled on 23rd & 24th Feb.2006.
- Chairman for “Prodigy” national level techfest held at B.V.C.O.E.W. from 6 to 8 March 2007
- Chairman for “Prodigy” national level techfest held at B.V.C.O.E.W. from 18 to 20 Feb 2008.
- Judge at the Intercollegiate Paper Presentation contest at BHARTIYAM 2007 by BVUCOE, Pune.
- Judge at the Intercollegiate Paper Presentation contest at BHARTIYAM 2008 by BVUCOE, Pune.
- Judge at the Intercollegiate Paper Presentation contest at BHARTIYAM 2009 by BVUCOE, Pune.
- Chief coordinator for JISHIN 2009 National Level Techfest held at BVCOEW, Pune 4th to 6th March 2009.

SCHOLARY CONTRIBUTIONS

Journals

Sr. No.	Title of Research Paper	Details of National /International Journal
1.	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

SCHOLARY CONTRIBUTIONS

- **Paper Publication**

Sr. No.	Title of Research Paper	Details of International/National Seminar Conference
1	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.
2	Bio-informatics Revolution	“Environment & Pollution Management for sustainable Development” at LNIT Bhopal on 24/4/2004
3	Enhanced Fold Head Cryptography	“International conference on soft Computing” at Chennai on 27-28/5/04
4	Elliptic Curve Cryptosystem For Secure Multimedia	“International conference on soft Computing” at Chennai on 27-28/5/04

	Transfer	
5	CPM as a Project Management Technique- Electrical Engineering Flied.	“International conference on soft Computing” at Chennai on 27-28/5/04
6	Simulator for lower layers of Bluetooth module.	“International conference on computer, control and communication” at Chennai on 20-22/8/04
7	Cell selection policies in ATM Network	“national conference on ADELCO-2004” at Kovilpatti on 3-4/6/04
8	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.
9	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.
10	Digital handshaking	National Conference on “Hi-Tech Trends in Emerging Computation Technologies” Sethu Institute of Technology On 10-11 Sept.2004
11	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.
12	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 18 th , 19 th April 2005.
13	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 18 th , 19 th April 2005.
14	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 18 th , 19 th April 2005.
15	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.
16	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
17	On line global business management system.	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
18	Embedded system application in automobile control system	NCES-06 no Embedded system, Thadomal Sahani Engineering college Mumbai, 25 th Feb 2006.
19	Mobile Phone Processor Architecture	NCES-06 no Embedded system, Thadomal Sahani Engineering college Mumbai, 25 th Feb 2006.
20	System Packet Interface 4.2 core design and verification	Nirma Institute of Technology Gandhinagar, Gujrat, 22 nd March 2006.
21	VISI Implementation of Core complaint to SPI 4.2 for Broadband Communication	VIIT-Pune-National Conference on Broadband Communication Systems, 1-3 Sept.2006.
22	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, 14-15 th Sept.2006 Page-77-81.
23	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.
24	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.
25	SPIHT Based Medical Image Compression for Telemedicine	NCACCN-2007 organised by PDVVPCOE, Ahmednagar; 9 th & 10 th March 2007.
26	Point to Poing 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.
27	Kernel Level on-Access Data Authentication and Security through stackable file systems	Proceedings of Computer Association of Nepal, Katmandu Nepal, 12-13 Jan 2007
28	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
29	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
30	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
31	Implement 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.
32	Implementation of Subbytes & 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.
33	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
34	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

- **Books:**

1. Mane P.B. and R. A. Barapate "Satelite TV and Video Technology.", 1st edition, 23rd Jan, 1998, Technolva Publication, Pune.
2. Mane P. B. "Communication System", Ist edition, 6th July 2000, Technova Publication, Pune.
3. Mane P. B. and C. B. Joshi "Consumer Electronics", 1st edition, 31st March 2001, Technova Publication, Pune.
4. Mane P. B. and J. S. Katre "Data Communication and Networks" 1st edition, 18th June 2003, Tech Max Publication, Pune.
5. Mane P. B. "Television & Video Engineering", 1st edition, 22nd Dec. 2003, Technova Publication, Pune.

- **Workshops and Seminar Attended:**

1. 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.
2. 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.
3. Short Term Training Programme on Calibration organized by Vishwakarma Institute of Technology Pune from 9th March to 10th March 2000.
4. Programme on Industry-Institute Partnership sponsored by ISTE & AICTE and Conducted by VIT College Pune, from 23rd to 28th Dec. 1996.
5. 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.
6. Workshop on writing Thesis organized by Global Research & Training Foundation Pune, 5th Oct, 2003.
7. Workshop on Wireless Communication at IIT Powai dated 27th, 28th March 2004.
8. A Workshop Organized by MCCIA and Pune University on “Industry-Institute Partnership” on 20th, 21st Aug. 2005 in Devang Mehta Hall, Persistant Pune
9. Workshop on Advances In Embedded System Technology organized by IEEE Pune sub section & TCS Pune on 21st Jan, 2006.
10. A seminar organized by Interface Devices India pvt ltd and ronde and Schwarz India pvt. Ltd ion vector networks analyzer on 13th Feb 2006
11. Workshop on Computer Networks organised by PES College of Engg and Sigma Trainers Pvt Ltd on 27 and 28th June 2006.

12. 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.
13. Workshop on Microwave Engg organised by PICT College on 26th Sept. 2006.
14. Workshop on Structuring Proposed M.E. (E&TC) Syllabus for University of Pune organized by RSCOE, Pune on 18th Dec 2006.
15. Workshop on Teaching Methodologies in Telecom Network & Management organized by I2IT Pune on 13th Jan 2007.
16. Workshop on Audio of Video Engg organised by D. Y. Patil Institute of Engg. & Technology Pune on 23rd Jan 2007.
17. Seminar on VLSI and Embedded Systems organised by PVG College of Engg on 29/6/2007.
18. Agilent Education Symposium 2007 organised by Agilent Technologies on Sept. 4 2007.
19. Multipurpose Lab Station organised by Agilent Technologies & Marathwada Mitra Mandal COE on 4th feb 2009.

Research Interest:

- Wireless Communication
- Computer Network

Professional Affiliations:

- FIETE
- LMISTE

University Services:

- Member of BOS for Electronic faculty BVU.
- Senior Supervisor of conduction of CET of BVU
- Internal and External Examiner for Practical and Oral Examination

- Paper Setting and assessment of Theory papers for Pune University and BVU.
- Senior Supervisor of conduction of Pune University Theory Examination.
- Subject Expert of Pune University Interview Panel.
- Senior Supervisor of conduction of BVU (UG, PG) Theory Examination.
- Chief Test Administrator for MH-CET for MBA.

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