

# Curriculum vita

## Personal

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## Educational Qualification

1. M. Sc. ( Electronic Science), NET( qualified Joint CSIR-UGC test for Junior Research Fellowship and Lectureship in Nov. 1992)
2. Recognition as Postgraduate Teacher by University of Pune from Jun. 30<sup>th</sup> 2003 onwards.

## Academic Qualification

1. Completed Orientation Course on Dec.4th - 31st 1997 at Staff Academic College, University of Pune, Pune.
2. Completed first Refresher Course in the subject of Instrumentation on Dec.1st - 28th 2000 at Dept. of Instrumentation, University of Pune, Pune.
3. Completed second Refresher Course in the subject of Information Technology on Dec. 2nd -21st 2002 at Dept. of Computer Science, University of Pune, Pune.
4. Completed third Refresher Course in the subject of New trends in Physics and Electronics on Mar 1st to 22nd 2004 at Dept. of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

## Work Experience

1. Jul 1994 till date Conformed at M.E.S.'s Abasaheb Garware College (taught subjects: Microprocessors, Microcontrollers, Computer Organization, Process Control Instrumentation, Communication, Digital Electronics, Linear Electronics, Electronic Devices circuits and computer Peripherals)

2. Jul 1992 to Jul 1994 Probation M.E.S's Abasaheb Garware College (Computer Organization, Microprocessors, Digital Electronics).
3. Jul 1990 to Jan 1991 Instructor at Computer Education and Consultancy Institute(computer languages like Fortran and Pascal).

### **Professional Achievements**

#### **Resource person at**

1. Five days residential workshop on implementation of revised syllabi of F.Y./S.Y. B.Sc. (Computer Sc.) in the subject Electronics on Jun. 17<sup>th</sup> – 21<sup>st</sup> 2003 hosted by Sinhadgad College in association with Dept. of Electronic Sc., University of Pune, Pune and UGC Scheme.
2. One-day workshop on Electronics Practical: Scope and Expectations on Dec.29<sup>th</sup> 2003 hosted by Ferguson College, Pune.
3. UGC Refresher Course in the subject IT on Apr. 8<sup>th</sup> 2006 hosted by New Arts, Science, Commerce College, Ahmednagar.
4. Subject Expert on Selection Committee to select candidates for the post of Lecturer in Electronics on Jun. 30<sup>th</sup> 2003 at Pune Vidyarthi Gruh's College of Science, Pune.

### **Research Experience**

1. Paper titled 'A Comparative study of Structural Aspects of Photosynthetic Pigments using Positron Life Time Spectroscopy' Presented at National Symposium on Cellular and Molecular Biophysics, held on Mar 17th -19th 1994,at Chandigar Hosted by the Dept. of Biophysics, Punjab Univ., in Collaboration with Indian Biophysical Society.
2. Paper titled 'Positron Lifetime Studies of Spinach Leaf and Chlorophyll Pigments with Different Visible Wavelengths' Presented at First Raman Memorial conference for Research Students on Physics and related fields, held on Nov 23rd -24th 1994,at Dept. of Physics, Univ. of Pune.
3. Paper titled 'Positron Lifetime Studies of Spinach Leaf and Chlorophyll Pigments with Different Visible Wavelengths' Presented at National Symposium on Cellular and Molecular Biophysics, held on Jan 11th -13th 1995,at Hyderabad Hosted by the Dept. of Physics, Nizam College, in Collaboration with Indian Biophysical Society.
4. Paper titled 'Positron Lift Time Studies of Photo excitation in Spinach Leaves using Different Spectra Analysis Technique' Presented at National Symposium on Radiation and Molecular Biophysics, held on Jan 21st -24th 1998,at Bhabha Atomic Research Centre, Mumbai and Tata Institute of Fundamental Research, Mumbai Hosted by Indian Biophysical Society in Collaboration with BARC, TIFR, BRNS,CSIR, DST, INSA.

5. Paper titled 'Simulation of 8086: Microprogramming' Presented at National Workshop on Advanced Topics in Software Technology, held on Feb 4th -5th 2006 at Sangamner College in Collaboration with Dept. of Electronic Sc., Univ. of Pune, Pune.
6. Paper titled 'E-Learning : A Changing Trend' Presented at National Workshop on Advanced Topics in Software Technology, held on Feb 4th -5th 2006 at Sangamner College in Collaboration with Dept. of Electronic Sc., Univ. of Pune, Pune.
7. Paper titled '' Presented at International conference on Advances in Computing, held on Feb. 21st - 22nd 2008 at Anuradha Engineering College, Chikli, Buldhana.
8. Paper titled ' Mobile Learning' Presented at National Conference on Advanced Technologies in Computing and Networking, held on Nov.13th - 14th 2009 at H.V.P. Mandals P.G. Department of Computer, Science and Technology and Degree College, Amravati in collaboration with MAMI.
9. Paper titled 'Automation of Watering System for Plants' Presented at International Conference on Instrumentation and National Symposium on Instrumentation, held on Jan.21st -23rd 2010 at Commins College of Engineering for Women, Karvenagar, Pune in collaboration with Department of Instrumentation, Indian Institute of Science, Bangalore.
10. Paper titled 'Microcontroller Based Digital Electronics Laboratory: Teaching and Learning Aid' Presented at International Conference on International Association of Technology, Education and Development, held on Mar.8th -10th 2010 at Valencia, Spain.

### **Workshops, Seminars and Conferences attended**

1. Attended workshop on Design of CAI Programs on Mar.16th 1995 hosted by N. Wadia College, Pune.
2. Attended X Annual National Convention on Nov 3rd to 5th 1995 hosted by Abasaheb Garware College, Pune in association with Indian Association of Physics Teachers.
3. Attended and actively participated in the discussion in one day seminar on Role of Academia in Sustainable Development on Dec.13th 2002 hosted by University of Pune, Pune supported by UN HABITAT Urban Management Program South Asia, Towns and Development, Bremen City, Germany.
4. Actively Participated in workshop on Up gradation of B.Sc. (Computer Sc.) syllabus in Electronics on Mar. 8th 2003 organized by D. Y. Patil College, Pimpri.

5. Actively Participated in workshop on F.Y. / S.Y. BCS revised syllabus in Electronics on Jul. 26th - 27th 2003 organized by Modern College, Pune.
6. Attended International Conference on Applied Materials and Applications on Nov.15th – 17th 2007, held by Department of Physics, Shivaji University, Kolhapur.
7. ISTE Workshop on Basic Electronics on 28<sup>th</sup> Jun – 8<sup>th</sup> Jul 2011 at Cummins College organized by IIT Bombay Pawai.

### **Research Projects**

1. Sanction of UCG sponsored Minor Research Project to Develop Educational Software Tool for Duration 2005-06 and 2006-07 of an amount Rs 55,000/-.
2. Sanction of Research Proposal sponsored by Board of College and University Development (B.C.U.D.), University of Pune, Pune to Develop Educational Software Tool for Duration 2006-07 and 2007-08 of an amount Rs 2,00,000/-.

### **Project Guidance**

1. Guided a project for an Intercollegiate Software Project Competition on Jan 2006 and received 2nd acclimation, hosted by CSA activity of Abasaheb Garware College, Pune.
2. Guided a project for an Intercollegiate Software Project Competition on Jan 2007 and received 3rd acclimation, hosted by CSA activity of Abasaheb Garware College, Pune.
3. Guided a project for an Intracollege Project Competition on Feb 2007 and received 3rd acclimation, hosted by Science Association of Abasaheb Garware College, Pune.

### **Undergraduate Projects Supervised**

1. Computer Simulation of Experiments in Physics in 2002-03.
2. Computer Simulation of Various Waveforms in 1993-94.
3. Characteristic Curves of Different Electronic Circuits in 1992-93.

### **Research Interests**

1. Digital Circuit Deign.
2. Microprocessors.
3. Microcontrollers.
4. E - learning