

Dr. Vijay P Labade

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Personal Details:-

Name	Labade	Vijay	Popatsheth
Department	Electronic Science		
Designation	Assistant Professor		
Qualification(s)	M.Sc,M.Phil,Ph.D		
Certification(s)/Professional Courses/Exams	S.E.T.		
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Member of:-

College Committees	Other Committees
1. Admission Committee	
2. Anti-raging committee and squad	
3. Class- Incharge (F.Y.B.Sc. Division E)	

Research Done:

M.Phil dissertation :- Development of an Embedded Automatic Sequence Musical Tone Generator for Musical Notes Quotient (MNQ) Testing
PhD Thesis:- Modeling and Simulation of Battery Performance Parameters for Efficient Electrical Vehicles and Verification using Hardware-In-Loop (HIL) Setup

Area of Interest in Research:

- Battery Technology in Electrical Vehicle
- Virtual Instrumentation
- Embedded System Design

Books Published:

Name of Book	Author(s)	ISBN No.	Year	Edition	Publisher
Laboratory Manual F.Y.B.Sc.(Electronic Science)	V.P.Labade N.M.Kulkarni, A.D.SHaligram	-	2004	First	Manali Publication

Research Publications:

1. **V.P.Labade**, M.S.Zambare, N.M.Kulkarni, and A.D.Shaligram “*Design and Fabrication of Human Machine interface (H M I) for Vacuum Deposition Unit (VDU)*” National Symposium of instrumentation (N S I-24) at the Goa University, Goa. (December 2000), Published in Journal of Instrumentation Society of India
2. **V.P.Labade**, N.M.Kulkarni, and A.D.Shaligram “*Probing Metal Semiconductor Junction Using MATLAB*”, National seminar on recent trends in material science (RTMS-2006) on 24-25 March, 2006, Organized by School of Physical sciences, North Maharashtra University, Jalgaon.
3. **V.P.Labade**, N.M.Kulkarni, and A.D.Shaligram, “*An embedded system for measurement of musical note quotient (MNQ)*”, Proceeding of National Symposium of instrumentation, NSI-32, 24-26, October 2007 / P2-46.
4. **V.P.Labade**, N.M.Kulkarni, and A.D.Shaligram “*Development Of An Embedded Automatic Sequence Musical Tone Generator For Musical Notes Quotient (MNQ) Testing*”, INNOVATION- 2008-09, PVP College, Pravaranagar, Ahamednagar, 26 and 27 November 2008.(POSTER PUBLICATION)
5. **V.P.Labade**, N.M.Kulkarni, and A.D. Shaligram “*Design of an embedded based MNQ instrument*” INNOVATION- 2009-10, NASC, Ahamednagar on 09 and 10 December 2009. (Poster Publication)
6. **V.P.Labade**, N. M. Kulkarni and A. D. Shaligram “*Effect Of Active Load On Battery Consumption Parameters Of Electrical Vehicles*” at Department of Electronic Science, Garware college, Pune on 4.2.2011(NCSNES-2011) pp (2011)
7. **V.P.Labade**, N. M. Kulkarni and A. D. Shaligram “*Design of Real-Time Monitoring System Measurement of Battery Parameters for Electric Vehicle*” RTAE2011(Jun 09-10, 2011)

,NIT,Calicut, Kerala) Proceedings of National conference on recent trends on alternate energy. PP47-48(2011).This paper received **First Best Paper Award** in this conference.

8. **V.P.Labade**, N. M. Kulkarni and A. D. Shaligram “*Intelligent Battery Health Monitoring System for Uninterrupted Power Supply*” NSI-36 (20-22, October 2011, Bareilly, UP) Journal of the Instrument Society of India ISSN 0970-9983 Vol.41 No.4 pp213-216(2011)
9. **V.P.Labade**, N. M. Kulkarni and A. D. Shaligram “*Determination of Battery Performance Parameters For Electrical Vehicles Using VHDL*” 19-20 December 2011(NSADVT-2012), Akluj (M.S.),Published in Journal of Science Information ISSN 2229-5836 (National Journal,2012) pp 49-53(2012)
10. DVLK Manasa **V.P.Labade**, N. M. Kulkarni “*Implementation of an dc motor speed controller using MATLAB interface*” NCMACT (20- 21 Jan 2012, ICEM ,Pune) Proceedings of National Colloquium on Novel Approaches in Computing Technology ISBN 978-81-920427-1-8,PP 10(2012)
11. **V.P.Labade**, S. Terdalkar and N. M. Kulkarni “*Use of MATLAB as a Modeling and simulation tool for harnessing the research skills*” Published in Souvenir of state level seminar 2012 on Harnessing Research Skills and Techniques through Scientific Research Methodology at R.N.C. Arts, J.D.Bytco commerce, N.S.C Science College, Nashik Road, Nashik on 30 Jan 2012 ISBN:978-93-81354-34-6 ,PP 23-26(2012)
12. **V.P.Labade**, N. M. Kulkarni and A. D. Shaligram “*Smart Performance Monitoring System for Renewable Energy Sources Used in Uninterrupted Power System*” Published at First International Symposium on Physics and Technology of Sensors ISPTSONE-8-10 March 2012, Published in Conference Proceedings PP124-126 (2012)
13. **V.P.Labade**, N. M. Kulkarni “*Estimation of specific gravity and state of charge of lead acid battery*” Published in International Journal of advances in Management, Technology and Engineering Sciences (IJANTES) ISSN 2249-7455 Vol. I, Issue 6(VI), PP 95-98 March 2012. (International Conference ICCTCMEC 2012 23-25 March 2012 at Deogiri College of Engineering, Aurangabad)
14. **V.P.Labade** , N. M. Kulkarni and A. D. Shaligram “*Hardware in the Loop (H-I-L) of Rechargeable Lead Acid Battery for Electrical Vehicles using Virtual Instrumentation*” Recently accepted to National conference of NSI 37 at Chandigarh (Oct 2012) Journal of the Instrument Society of India ISSN 0970-9983 Vol.42 No.1 pp213-216 (2013)
15. **V. P. Labade**, M. A. Natu, S. S. Apte, N. M. Kulkarni and A. D. Shaligram “*Development of Web-Based Instrumentation for College Laboratory Applications*” Presented and Published in Proceedings of the Conference on Perspectives of Computer Confluence with Sciences 2012 [ICPCCS12] ISBN 978-93-82062-76-9 held at Nowrosjee Wadia College, Pune on 10-12 , Dec 2012
16. S.S.Patil ,**V.P.Labade**, N. M. Kulkarni and A. D. Shaligram ,” *Analysis of refractometric fiber optic state-of-charge (SOC) monitoring sensor for lead acid battery*” ,Published at Optik-Int.Journal of Light Electron Opt.(2013) EELSEVIER,
<http://www.sciencedirect.com/science/article/pii/S0030402613005172>

17. **V.P.Labade** , N. M. Kulkarni and A. D. Shaligram “*Online Monitoring of Battery Performance Parameters for Electric and Hybrid Electric Vehicle*” Recently accepted to National conference of NCRIGE-2013 at Amravati, Maharashtra (8-9 Feb 2013) and may be published for Journal of SPEED Vol1, Issue 1(2012)
18. **V.P.Labade** , N. M. Kulkarni and A. D. Shaligram ” *Design of DC Motor Simulator for Battery Operated Vehicles in Hardware in the Loop (HIL) Testing*” ,Recently accepted to National conference of NCRIGE-2013 at Amravati, Maharashtra (8-9 Feb 2013) and may be published for Journal of SPEED Vol1, Issue 1(2012)
19. **V.P.Labade** , N. M. Kulkarni and A. D. Shaligram “*Lead Acid Battery Management System for Electrical Vehicles* ”, Published in International Journal of IJECET. ISSN 0976 – 6464(Print) ISSN 0976 – 6472(Online) Volume 4, Issue 3, June, 2013, pp. 97-107 © IAEME: www.iaeme.com/ijecet.asp, Journal Impact Factor (2013): 5.8896 (Calculated by GISI)
20. **V.P.Labade** , A.B.Buddhikot, N. M. Kulkarni and A. D. Shaligram “*Low cost intelligent embedded battery management system*” Recently Published to National conference of NSI 38 at Hubli, Karnataka (Oct 2013), Published in Journal of the Instrument Society of India ISSN 0970-9983 Vol.43 No.4 pp244-246 (2013)
21. M. A. Natu, **V. P. Labade**, N. M. Kulkarni “*Real time System implementation of ON-OFF temperature controller using LabVIEW*”, Presented to National Conference of NCETCSA 13 at Fergusson College, Pune(7-8 December 2013) and Published in the Proceedings of the Conference on Computer Science and computer applications [NCETCSA13] ISBN978-93-5137-872-3, pp 108-112 (2013)
22. **V.P.Labade** , N. M. Kulkarni and A. D. Shaligram ” *Studying the Effect of Active Load on Battery Performance for Efficient Electrical Vehicle using Virtual Instrumentation* ” Presented to the 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET’2014) and published in proceedings of ICRTET 2014 by ELSEVIER ,ISBN 978-93-5107-221-8,PP 728-732(2014)
23. S. S. Patil, **V. P. Labade**, N. M. Kulkarni, and A. D. Shaligram “*Refractometric fiber optic sensor for in-situ monitoring the state-of-charge of a lead acid battery,*” J. Opt. Technol. **81**, 159-163 (2014)
24. **V.P.Labade** , N. M. Kulkarni and A. D. Shaligram “*Verification of Battery Performance Parameters for Efficient EV/HEV* ” Published in proceedings of First conference on energy and environment NC2E-2014 at Energy Studies, University of Pune, Pune, ISBN 978-93-83993-10-9 PP 140-141 (2014)
25. **V. P. Labade**, N.M.Kulkarni, A.D.Shaligram “*Implementation of Driver Information System (DIS) using Hardware in the Loop*”, Presented and published in the proceedings of NCAEIA 2014 at Fergusson College, Pune, ISBN 978-93-5174-783-3,PP 250-253 (2014). (This research paper received **First Best Paper Award** sponsored by IEEE India SSCA & CAS Chapter in this National Conference)
26. **V. P. Labade**, Kirti Vaish, N.M.Kulkarni, A.D.Shaligram “*Sorting of electronic colour coded components using premeditated simulator*”, Presented and published in the proceedings of NCAEIA 2014 at Fergusson College, Pune, ISBN 978-93-5174-783-3, PP 187-189 (2014)

27. **V. P. Labade**, M.P.Zadikar, N.V.Deshmukh, N.M.Kulkarni, A.D.Shaligram “*Estimation of battery life and discharge behavior using battery simulator for HIL setup*”, Presented and published in the proceedings of NCAEIA 2014 at Fergusson College, Pune, ISBN 978-93-5174-783-3,PP 246-249 (2014)
28. **V. P. Labade**, N.M.Kulkarni, A.D.Shaligram “*Use of ICT in analyzing performance parameters of electrical vehicles*”, Presented and published in the proceedings of impact of ICT in education 2015 at Poona College, Pune
29. **V.P.Labade**, Siddhi Khaire,N.M.Kulkarni, and A.D.Shaligram “*Development of RPM and Heat Measurement System For Electric Vehicle*”, INNOVATION- 15, Fergusson College and BCUD,SPPU, Pune on 17 Jun 2015 (Poster Paper Publication)and Published in Proceeding book of Innovation-15, pp 12

Seminars and Workshops attended:-

Sr. No.	Name of Seminar/Workshop	Year
1.	N S P T S -5 National Seminars is attended at University of Pune Organized by Department of Electronic Science University of Pune, Pune-7.	1998
2.	One-Day workshop on P I D / P L C Controller at the I E T E, Pune.	05 Sept 1999
3.	National symposium of instrumentation (N S I-24) is attended at the Goa university, Goa.	Dec 2000
4.	A workshop on F Y B Sc (Electronic Sc.) syllabus framing organized by department of electronic science, Fergusson College, Pune-4	06 Jan 2002
5.	Five days Workshop on Revision of F Y B Sc Electronic Science Syllabus attended at University of Pune, Pune-7.	21 June to 25 June 2002
6.	One-Day workshop on Effective Teaching Skills in E FA Fergusson College, Pune	27 July 2002
7.	One-Day workshop of S Y B Sc Electronic Science Syllabus Revision attended at Rahuri Dist.Ahmednagar	13 Oct 2002
8.	Two-Days workshop on Embedded System Design And Automation Tools Organized by CG-Corel, India, Pune	14,15 Dec 2002
9.	One day workshop on Electronic circuit simulation using P-SPICE at the Department Of Electronic Science University of Pune	02 Feb 2003
10.	One-Day workshop of T Y B Sc Electronic Science Syllabus Framing attended at R N C, J D B, N S C college, Nashik	19 July 2003
11.	One day workshop on Cellular Mobile Telecommunication System Organized by I E T E, Pune	03 Aug 2003
12.	Three days workshop on N S P T S -10 (10 th National Seminars on Physics and technology of sensors) attended at Vishwakarma Institute of technology, Pune-37	04-06 March 2004
13.	One day Seminar on Signal integrity and its analysis organized by Agilent technology at the Le Meridian Hotel, Pune	Oct, 2004
14.	One day seminar on Virtual instrumentation and simulation tools organized by CG-Corel and Mentor Graphics at the Le Meridian Hotel, Pune	August, 2004

15.	One day workshop on Syllabus framing of T Y B Sc. Practical Course in Electronic Science attended at Department of Electronic Science, Poona college, Pune-1	13 Feb 2004
16.	Two-Day workshop on Implementation of T Y B Sc. (Electronic Sc.) Practical's at Department of Electronic Sc., Fergusson College, Pune-4	23-24 July 2004
17.	One-day workshop on Revision of M. Sc. (Electronic Sc.) Syllabi organized by Department of Electronic Sc, Modern College, Pune-5	25 Oct 2004
18.	One-day workshop on Embedded systems Organized by Shree Ram Consulters at Hotel Pride Executive, Pune-4	21 SEP 2005
19.	Three days conference on Newton's theory of relativity at S.P. College, Pune	8- 10 December 2005
20.	Two-Day workshop on MATLAB and SIMULINK at Department of Computer Sc., Fergusson College, Pune-4	5- 6 th Jan 2006
21.	One-day workshop on MECHATRONICS Organized by SMC Pneumatics (India) Pvt.Ltd. (Noida) at Hotel Coronet, Pune.	22 February 2006
22.	Two days workshop of (N S P T S -11) on updates of sensors and instrumentation fabrication and packing of sensors Organized by Center of sensor studies and Department of Electronics science, University of Pune, Pune-7	25 and 26 th February 2006
23.	One-day workshop on Revision of F. Y. B. Sc. (Electronic Sc.) Syllabi organized by Department of Electronic Sc, Fergusson College, Pune-4	2006-07
24.	Two-Day workshop on Laboratory safety and management organized and coordinated at Department of Electronic Sc., Fergusson College, Pune-4 and UGC Academic Staff College, University of Pune,Pune-7	11,12 Jan 2008
25.	One-day workshop on Electronic software and circuit simulation tools attended at New arts science college ,Ahmednagar	17/01/2008
26.	Two days national seminar on (N S P T S -13) Organized by Center of sensor studies and Department of Electronics Science, University of Pune, Pune-7	3-5, March 2008
27.	Two days workshop on Project management Using MS Project tool at the Department Of Electronic Science University of Pune	4,5 May 2008
28.	Seven days Soft Skill development program attended at Fergusson College, Pune	2007-08
29.	Two day National Seminar (INNOVATION-2008-09) attended and presented research using poster paper at PVP College, Pravaranagar, Ahmednagar	26,27 November 2008
30.	One-day workshop on S Y B Sc (EEM Vocational) Syllabus framing organized by KTHM College, Nashik.	2008-09
31.	One day seminar on Electronic test solutions Agilent technology at the Le Meridian Hotel, Pune	Oct 2009
32.	One day seminar on MATLAB and Simulink for Engineering Education arranged by The Mathwork at the Le Meridian Hotel, Pune.	19 Nov 2009

33.	One-day workshop on Revision of T.Y.B.Sc. (Electronic Sc.) Syllabi Organized by Department of Electronic Sc, Fergusson College, Pune-4	28 Nov 2009
34.	One-day workshop on Revision of T.Y.B.Sc. (Electronic Sc.) Syllabi Organized by Department of Electronic Sc, Modern College, Pune-4	08 Dec 2009
35.	One-day workshop on Revision of T.Y.B.Sc. (Electronic Sc.) Syllabi Organized by Department of Electronic Sc, Poona College, Pune-4	19 Dec 2009
36.	Attended workshop on Wireless Sensor Network(WSN) at DOES,University of Pune ,3 March 2010	3 March 2010
37.	Attended International conference on LASERS and Advanced Materials at MES,A.G.College,Pune	6 -8 March 2010.
38.	Three days workshop attended on Single Board Heater System using SCILAB at IIT,Pavai,Bombay	May 2010
39.	One day seminar on Advanced instrumentation and simulink RF systems by Agilent technology at the Le Meridian Hotel, Pune	July 2010
40.	One day seminar on Slab at Garware College,Pune	OCT2010
41.	Attended Two days National conference (NCSNES-2011) at Department of Electronic Science, Garware College, Pune	4 Feb 2011
42.	Five day workshop on LABVIEW and MATLAB programming workshop at VIIT,Kondhva,Pune	Feb 2011
43.	Two days National Conference on Recent Trends in Alternate Energy (RTAE 2011) Organized by Department of Chemical, NIT(REC),Calicut , Kerala	9-10 Jun 2011
44.	Two days workshop on Fuel Cell Technology attended at Department of Mechanical Engineering, NIT(REC),Calicut , Kerala	11-12 Jun 2011
45.	Attended one day national seminar on “Digital Debugging tools and taking the mystery out of RF measurements” by Agilent technology at Le Meridian Hotel, Pune	13 July 2011
46.	Attended one day workshop on “Patent, Trade Mark and Design” jointly conducted by Intellectual Property Office, Mumbai and GMGC at Vaikuntha Mehta Institute of Management, Pune.	8 Oct 2011
47.	Attended three days National Symposium of Instrumentation (N S I-36) at the Invertis University, Bareilly, Uttar Pradesh	20-22 Oct 2011
48.	Attended two days National Seminar on Advance Development in VLSI technology (NSADVT) , Shankarrao Mohite Patil College, Akluj Dist- Solapur	19-20 Dec 2011
49.	Attended two days National Colloquium on Novel Approaches in Computing Technology (NCNACT 2012) at ICEM,Parandwadi ,Pune	20- 21 Jan 2012
50.	Attended one day State Level Seminar on <i>Harnessing Research Skills and Techniques through Scientific Research Methodology</i> at BYTCO college, Nasik Road Nasik	30 Jan 2012
51.	Attended Two day State Level Workshop on “Digital System Design using VHDL on CPLD board” at Modern College of Arts, Science and Commerce,Shivajinagar,Pune-5	10 th and 11 th February 2012
52.	Attended Three days International Symposium on Physics and Technology of Sensors I S P T S -1 , Organized by C-MET , Pashan, Pune	8-10, March 2012

53.	Attended Three days International Conference on Current Trends and challenges in management,engineering,computer application and technology(ICCTCMECAT 2012) at Deogiri college of engineering Aurangabad	23-25 March 2012
54.	Six day workshop on” Examination Reforms-UGC XI Plan ” at Fergusson College,Pune-4	19 th to 24 th March 2012
55.	Attended one day workshop on “ Panel discussion on Research Methodology ” at Fergusson College,Pune-4	27 March 2012
56.	Attended one day workshop on “ Awareness workshop on modeling and simulation ” at Center of Modeling and Simulation ,University of Pune,Pune-7	31 March 2012
57.	Three days training attended at NI System Pvt.Ltd, Pune for LabVIEW core I Course	26-28 Nov 2012

Seminars and Workshops Organized:-

1. Worked as a member of **Organizing Committee** for National Conference (NCAEIA-2014), Department of Electronic Science, Fergusson College, Pune
2. Worked as a **Coordinator** for Two-Day workshop on Laboratory safety and management organized and coordinated at Department of Electronic Sc., Fergusson College, Pune-4 and UGC Academic Staff College, University of Pune,Pune-7 on 11,12,Jan 2008

Other Accomplishments:-

- Awarded as a **Black Belt in Judo Karate** by the Indian Marshal Art (IMA), India affiliated by country **Vietnam, 1996**
- Awarded as a **Top Ranked Teacher (2009)**
- Awarded Teacher **Fellowship (FIP)** under UGC XI plan from 5th Jan 2011 to 4th Jan 2014.
- Received the **Best Research Paper Award** at National conference on Recent Trends on Alternate Energy (RTAE 2011),NIT, Calicut, Kerala on topic “**Design of Real-Time Monitoring System Measurement of Battery Parameters for Electric Vehicle**” at Department of Chemical Engineering ,NIT,Calicut,Kerala (dated 10th Jun 2011)
- Received the **Best Research Paper Award** at National Conference on NCAEIA 2015, Pune on the topic “Implementation of Driver Information System (DIS) using Hardware in the Loop” award sponsored by **IEEE India SSCA & CAS Chapter**
- Working as coordinator and examiner of “**VIGHANAHARTA NYAS**” Pune-Police Ganesh Festival Activity since from 2008.