

BIO-DATA

- 1. Name : Dr. YOGESH PRABHAKAR NERKAR**
2. Date of Birth : 19th October, 1966.
3. Present Post : PRINCIPAL, PVG'S College of Engg. & Tech., Pune

4. Academic Qualifications:

Sr.No.	Degree/ Diploma	Examining Body	Year of Passing	Subject of Specialization	% of Marks
1.	D.E.E.	B.T.E. Bombay	1984	Electrical Engg.	68.83 %
2.	B.E.	Amravati University	1987	Electrical Power Systems	67.71 %
3.	M.E.	Gujrat University	1989	Electrical Machine Design	70.10 %
4.	PhD	Indian Institute of Science, Bangalore	2004	High Voltage Engineering	—

5. Employment Record:

Institute / Organization	Designation	Period
PVG's College of Engineering and Technology, Pune	Principal, PVG's College of Engg & Tech, Pune	1 st March, 2009 till date.
PVG's College of Engineering and Technology, Pune	Professor of Electrical Engineering	20 th April 2004 to 28 th Febuary, 2009
PVG's College of Engineering and Technology, Pune	Assistant Professor in Electrical Engineering	11 th July 1994 to 19 th April 2004
Bharati Vidyapeeth's College of Engg. , Pune	Lecturer in Electrical Engineering	20 th July 1992 to 7 th July 1994
M/s. Advani Oerlikon Ltd, Pune	Senior Engineer	1 st July 1989 to 20 th July 1992

6. Consultancy and Sponsored Research Activities:

Year	Organization	Project Title	Amount Received
2007 And 2008	Board of College and University Development, University of Pune, Pune-411 007	Analysis of Power System Restoration in Context to Islanding	Rs.1,50,000/-.
2006	Science and Technology Park of University of Pune, a subsidiary of the Department of Science and Technology, Government of India, New Delhi.	Comparative Study of Brushless DC motor and Printed Circuit Motor for Electric Bicycle Applications.	Rs.10,000/-
2005	Science and Technology Park of University of Pune, a subsidiary of the Department of Science and Technology, Government of India, New Delhi.	Development of Facility for Testing of Electric Motors, Battery Unit and Controller used for Electric and Hybrid Vehicles.	Rs.40,000/-
2003	Rotary Club of Pune Sinhagad Road	Survey of Electrical Installations in Pune City with respect to Public Safety	Honorary
2001	M/s Zedan Consultants, Saudi Arabia	Electrostatic Field Calculations of 380 kV Substation	US \$1000/-

7. Research Publications: (37 Nos.)

1. Referred Journal (4 Nos.)

1. 'Effect of Detector and Analyzer Settings on Partial Discharge Measurements and Representation', IEEE Transactions on Dielectrics and Electrical Insulation, August 2004, p.p. 568-576.
2. 'A Plan of Islanding Scheme for Pune City', February, 2006, International Journal of Emerging Electric Power Systems (IJEEPS), January, 2006 Volume 5, Issue 1, Article 1.
3. 'A Different Approach in System Restoration with Special Consideration of Islanding Schemes', International Journal of Electrical Power & Energy Systems, April, 2008, Volume 30 (2008) 519-524.
4. 'Comparison of Brushless DC (BLDC) and Printed Circuit Motors for the Electric Bicycle Applications', International Journal of Electrical Engineering and Technology, (IJEET), Volume 1, Number 2, (Nov-Dec 2010) 131-146.

2. Papers published at IEEE Explore: (7 Nos.)

- 'A Scope for the Research and Development Activities on Electric Vehicle Technology in Pune City', Y.P.Nerkar, M.R.Tarambale and Vidyadhar Gulani in 2006 IEEE Conference on Electric and Hybrid Vehicle, Pune, India.
- 'Power Grid Restoration Optimization Considering Generating Plant Islanding Scheme', J.J.Joglekar and Dr.Y.P.Nerkar, 8th International Power Engineering Conference-IPEC 2007, 3-6 December, 2007, Singapore.

- ‘Economic Load Dispatch and Trading Opportunities under Frequency Dependent Tarriff’, Mrs.S.R.Deshmukh, Dr. D.J.Doke and Dr.Y.P.Nerkar, International Conference on Power Systems (ICPS-2007), 12-14 December, 2007, Bangalore, India.
- ‘Cost Based Reactive Power Pricing Structure in Restructured Environment’, Mrs.G.A.Vaidya, Dr.N.Gopalakrishnan and Dr.Y.P.Nerkar, POWERCON 2008 & 2008 IEEE Power India Conference, New Delhi, India held during 12-15, October, 2008
- ‘Optimal Generation Scheduling under Availability Based Tariff,’ Mrs.S.R.Deshmukh, Dr. D.J.Doke and Dr.Y.P.Nerkar, POWERCON 2008 & 2008 IEEE Power India Conference, New Delhi, India held during 12-15,October, 2008.
- ‘Design and Development of Power Grid Restoration Scheme for Maharashtra State with Generating Plant Islanding’ , J.J.Joglekar and Dr.Y.P.Nerkar, POWERCON 2008 & 2008 IEEE Power India Conference, New Delhi, India held during 12-15, October, 2008
- ‘Analysis and Design of Power System Restoration in the Context of Generating Plant Islanding’, J.J.Joglekar and Dr.Y.P.Nerkar , 2nd IEEE International Conference on Power & Energy (PECon08) held at Johor Barau (Malaysia) during December 1-3, 2008.

3. Conference / Workshops / Seminars

International Level (16 Nos.)

1. ‘Comparative Study of Partial Discharge Behavior with Model Insulation System in High Stress Zones of Transformer’, Y.P. Nerkar, M.N. Narayanachar, R.S. Nema, Fourth International Workshop and Conference on EHV Technology, 17th-18th July 1998, Bangalore (India)
2. ‘Partial Discharge Oscillograms and Pulse Distribution in Transformer Oil-Pressboard Insulation’, Y.P. Nerkar, S.Senthil Kumar, M.N. Narayanachar, R.S. Nema, 13th International Conference on Dielectric Liquids, Nara (Japan), 20-25 July 1999.
3. ‘Characterization of Partial Discharges in Oil Impregnated Pressboard Insulation System’, Y.P. Nerkar, M.N. Narayanachar, R.S. Nema, Eleventh International Symposium on High Voltage Engineering (ISH 99), London (UK), 23-27 August, 1999.
4. ‘Influence on Detectors on Measurement of Partial Discharges’, S.Senthil Kumar, Y.P. Nerkar, M.N. Narayanachar, R.S. Nema. Twelfth International Symposium on High Voltage Engineering (ISH 2001), Bangalore (India), 20-24 August 2001.
5. ‘Response of Narrow Band Detector and Analyzer in Ageing Experiments’, S.Senthil Kumar, Y.P. Nerkar, M.N. Narayanachar, R.S. Nema. Conference on Electrical Insulation and Dielectrics Phenomena (2002 – CEIDP), Cancan, New Mexico, 19-25 October 2002.
6. ‘A Scope for the Research and Development Activities on Electric Vehicle Technology in Pune City’, Y.P.Nerkar, M.R.Tarambale and Vidyadhar Gulani in 2006 IEEE Conference on Electric and Hybrid Vehicle, Pune (India), 18-20 December, 2006.
7. ‘Power Grid Restoration Optimization Considering Generating Plant Islanding Scheme’, J.J.Joglekar and Dr.Y.P.Nerkar, 8th International Power Engineering Conference-IPEC 2007, 3-6 December, 2007, Singapore.
8. ‘Economic Load Dispatch and Trading Opportunities under Frequency Dependent Tarriff’, Mrs.S.R.Deshmukh, Dr. D.J.Doke and Dr.Y.P.Nerkar, International Conference on Power Systems (ICPS-2007), 12-14 December, 2007, Bangalore, India.

9. 'Power Grid Restoration Optimization Considering Generating Plant Islanding Scheme', J.J.Joglekar and Dr.Y.P.Nerkar, International Conference on Advances in Energy Research (ICAER-2007), Indian Institute of Technology, Bombay, 12-14 December 2007, Mumbai (India).
10. 'A New Approach for Placement of Reactive Power Sources in a Power System: Weight Factor of Loss Sensitivity Indices', Mrs.G.A.Vaidya, Dr.N.Gopalakrishnan and Dr.Y.P.Nerkar, 20th International Conference in Power Electronics Drives and Power Systems, POWERCOIN08, Salem, India.
11. 'Use of Artificial Neural Network for Short Term Load Forecasting', Mrs.S.R.Deshmukh, Dr. D.J.Doke and Dr.Y.P.Nerkar, IEEE Conference on AI Tools in Engineering, Pune during 6-8 March, 2008.
12. 'A Proposal for Reactive Power Pricing for Gencos in India', Mrs.G.A.Vaidya, Dr.N.Gopalakrishnan and Dr.Y.P.Nerkar, 10th IASTED International Conference on Power and Energy Systems (PES-2008), April, 16-18, 2008. Baltimore, Maryland, USA
13. 'Cost Based Reactive Power Pricing Structure in Restructured Environment', Mrs.G.A.Vaidya, Dr.N.Gopalakrishnan and Dr.Y.P.Nerkar, POWERCON 2008 & 2008 IEEE Power India Conference, New Delhi, India held during 12-15, October, 2008
14. 'Optimal Generation Scheduling under Availability Based Tariff', Mrs.S.R.Deshmukh, Dr. D.J.Doke and Dr.Y.P.Nerkar, POWERCON 2008 & 2008 IEEE Power India Conference, New Delhi, India held during 12-15, October, 2008.
15. 'Design and Development of Power Grid Restoration Scheme for Maharashtra State with Generating Plant Islanding', J.J.Joglekar and Dr.Y.P.Nerkar, POWERCON 2008 & 2008 IEEE Power India Conference, New Delhi, India held during 12-15, October, 2008
16. 'Analysis and Design of Power System Restoration in the Context of Generating Plant Islanding', J.J.Joglekar and Dr.Y.P.Nerkar, 2nd IEEE International Conference on Power & Energy (PECon08) held at Johor Barau (Malaysia) during December 1-3, 2008.

National Level: (10 Nos.)

1. 'Partial Discharge Oscillograms and Pulse Distribution in Transformer Oil – Pressboard Insulation', Y.P. Nerkar, S.Senthil Kumar, M.N. Narayanachar, R.S. Nema. Seminar on Transformer Insulation System, Central Power Research Institute, Bangalore, 28-29 January 1999.
2. 'Recent Trends in Partial Discharge Measurement and Interpretation', S.Senthil Kumar, Y.P. Nerkar, M.N. Narayanachar and R.S. Nema, National Power System Conference (NPSC – 2000), 20-22 December 2000.
3. 'Economic Load Dispatch under Deregulated Environment and Availability Based Frequency Dependent Tariff', Y.P.Nerkar, Mrs.S.R.Deshmukh, D.J.Doke and S.S.Sangare. Fourteenth National Power System Conference (NPSC-2006) held at Indian Institute of Technology, Roorkee, and December, 2006.
4. 'A Proposal for the Islanding of Pune City', J.J. Joglekar, S.S. Sangare and Prof. Y.P. Nerkar. 19th National Convention of Electrical Engineers and National Seminar on Challenges in Meeting the Demand for Quality in Power Supply, Sponsored by Electrical Engineering Division Board, IE (I), Kolkata, 8th – 9th Nov. 2003.

5. 'A Statistical Frequency Estimation for Generation Scheduling under Availability Based Tarriff (ABT)', Mrs.Surekha R.Deshmukh, Dr.D.J.Doke and Dr.Y.P.Nerkar, 23rd National Convention of Electrical Engineers and National Seminar on Challenges in Electricity Sector under Deregulated Environment, held at the Institution of Engineers (I), Pune Local Centre during 23-24 November, 2007.
6. 'A Proposed Scheme for Power Grid Restoration Optimization Considering Generation Plant Islanding for Maharashtra State', Jayesh J.Joglekar and Dr.Y.P.Nerkar, 23rd National Convention of Electrical Engineers and National Seminar on Challenges in Electricity Sector under Deregulated Environment, held at the Institution of Engineers (I), Pune Local Centre during 23-24 November, 2007.
7. 'A New Approach to the Pricing of Reactive Power from Generator under Open Access Conditions', Mrs.G.A.Vaidya, Dr.N.Gopalakrishnan and Dr.Y.P.Nerkar, 23rd National Convention of Electrical Engineers and National Seminar on Challenges in Electricity Sector under Deregulated Environment, held at the Institution of Engineers (I), Pune Local Centre during 23-24 November, 2007.
8. 'Reactive Power Management Based on Voltage Control Areas', Mrs.G.A.Vaidya, Dr.N.Gopalakrishnan and Dr.Y.P.Nerkar, PASC0 2008, Visakapatanam, India.
9. 'Trends in Reactive Power Pricing in Restructured Energy Systems', Mrs.G.A.Vaidya, Dr.N.Gopalakrishnan and Dr.Y.P.Nerkar, PASC0 2008, Visakapatanam, India.
10. 'Generation Scheduling under ABT using Forecasted Frequency by Artificial Neural Network and Statistical Tool', Mrs.Surekha R.Deshmukh, Dr.D.J.Doke and Dr.Y.P.Nerkar, National Power System Conference (NPSC-2008) Bombay held during 16-18 December, 2008

8. Membership of Scientific and Professional Societies:

1. Senior Member of IEEE (USA).
2. Life Member of the Institution of Engineers (India).
3. Life Member of the India Society for Technical Education, New Delhi.
4. Membership of Power & Energy Society Chapters of IEEE USA.
5. Digital Library Membership of PES IEEE (USA)

9. Honours Received and Responsible Positions Held:

1. Recipient of the **Best Teacher Award** honored to him for the significant contribution in academics by Yogtadnya Dadaji Vaishapayan Trust.
2. '**Friend of Rotary Award – 2003**' for supporting social-technical activities organized by Rotary club of Pune – Sinhadgad Road, Pune.
3. Working as **Chairman of Power & Energy Society and Industrial Applications Society** Chapters of IEEE Bombay Section.
4. Worked as **Member of the Editorial Board of IE (I)** monthly News letter printed by the Institution of Engineers, Pune Local Centre.
5. Worked '**Teacher's Representative**' for the Local Managing Committee of PVG's College of Engineering and Technology, Pune.
6. Invited as an **Expert in Electrical Engineering** for the **Preliminary Presentation of NBA** at Bharati Vidyapeeth Deemed University College of Engineering, Pune.

7. Worked as a **Member of Board of Studies in Electrical Engineering and Member of Faculty of Engineering** of University of Pune.
8. Worked as a **Member of Board of Studies of Electrical Engineering**, Bharati Vidyapeeth Deemed University, Pune.
9. Working on various **Technical Committees of the Institution of Engineers (I), Pune Local Centre** as Convener and member of the various organizing committees.
10. Worked as **Member of the Organizing Committee** for the Series of Workshops jointly organized by IEEE and IEEMA at Hotel Le-Meridien during November 2005 to January 2006 on Operation and Maintenance of Equipments used in Medical Applications.
11. Worked as an **Organizing Secretary for 2006 IEEE Conference on Electric and Hybrid Vehicles**, held at Hotel Le-Meridien Pune during 18-20th December, 2006.
12. Worked as a **Coordinator for the ISTE approved Short Term Training Programme** on Digital Signal Processing and its Applications to Electrical Engineering, organized by Department of Electrical Engineering and IEEE Student Branch of PVG's College of Engineering and Technology, Pune during 21st May, 2007 to 3rd June, 2007.
13. Worked as **Chairman of Technical Sub-Committee** for the 23rd National Convention of Electrical Engineers and National Seminar on Challenges in Electricity Sector under Deregulated Environment, held at the Institution of Engineers (I), Pune Local Centre during 23-24 November, 2007.
14. Invited as a **Session Chairman for the International Conference** on Power & Energy scheduled on 22nd December, 2007 at Hotel Leela Kempinski, Sahar, Mumbai.
15. Worked as **Treasurer of Pune Subsection of IEEE** for the year 2007 and 2008.
16. Elected as a Chairman of Board of Studies in Printing Engineering for 1st Sept 2010 to 31st August 2015
17. Working as a Member of Academic Council of University of Pune.

10. Recognized P.G. and PhD guide:

Dr. Y.P. Nerkar has **guided fourteen post-graduate students** for their dissertations.

Dr. Y.P. Nerkar is also **recognized PhD guide** of University of Pune. Five **Candidates** have registered for PhD research program under his guidance. One candidate is awarded PhD degree by University of Pune.

11. List of the Workshops / Conference / Seminars / Competitions either arranged by Dr.Y.P.Nerkar as Coordinator or he was closely associated for the successful organization of these programmes.

1. 23 rd National Convention of Electrical Engineers and National Seminar on Challenges in Electricity Sector under De-regulated Environment organized by the Electrical Engineering Division Board, Institution of Engineers (I) and hosted by the Institution of Engineers (I), Pune Local Centre at Pune.	Chairman- Technical Sub-Committee, 23-24 November, 2007.
2. ISTE approved two weeks Short Term Training Program on Digital Signal Processing and its Applications to Electrical Engineering.	Coordinator 21 st May-3 rd June, 2007
3. IEEE Bombay Section, PES/IAS Chapter, 2006 IEEE Conference on Electric and Hybrid Vehicles held at Hotel Le Meridian, Pune during 18-20 December, 2006.	Organizing Secretary 18-20 December, 2006
4. IEEE Bombay Section, PES/IAS Chapter, final presentation on Student Awareness Programme – 2002, 03,04,05,06,07 and 2008	Member of the Organizing Committee- October, 2006
5. Workshops on the Operation and Maintenance of Equipment used for Medical Applications jointly organized by IEEE Bombay Section, Pune subsection of IEEE and IEEMA.	Member of the Organizing Committee, One workshop every month during December 2005– February 2006.
6. IEEE Bombay Section, PES/IAS Chapter, Final presentation on Student Awareness Programme – 2004.	Convenor, 8 th October 2004.
7. ‘Workshops on the Operation and Maintenance of Electrical Equipment’ jointly organized by IEEE Bombay Section, Pune Subsection of IEEE and IEEMA	Member Organising Committee, One workshop every month during August – December 2004.
8. ‘PROJEX2K4’ the State Level Project Competition organized by the Institution of Engineers (I), Pune Local Centre.	Convenor, 20 th July 2004.
9. IEEE India Council’s ‘29 th Annual Convention and Exhibition’ at Pune.	Overall Co-ordinator, 12 th -14 th December 2003
10. Workshop on – ‘Recent Trends in Electrical Power Systems’ jointly organized by the Department of Electrical Engineering, P.V.G.’s College of Engineering and Technology, Pune and Power Engineering Society Chapter of IEEE Bombay Section.	Convenor, 5 th -6 th December 2003
11. National Seminar on ‘Energy Efficient Electrical Apparatus and Systems’, jointly organized by IEEE Bombay Section, IEE Bombay Chapter	Member of the Organizing Committee, 21 st – 22 nd February 2003
12. National Seminar on ‘Physics and Technology of Sensors’, jointly organized by the Department of Electronic Science, University of Pune, IEEE Bombay Section and the Institution of Engineers (I), Pune Local Centre.	Member of the Organizing Committee, 4 th -6 th March 2002
13. Workshop on ‘Electrical Safety in Industry’ jointly organized by Industrial Applications Society Chapter of IEEE Bombay Section and IEEMA at Mumbai.	Organizing Secretary, 20 th -23 rd January 2002
14. International seminar on ‘Renewable Energy Sources for Generation of Electricity’, jointly organized by IEEE Bombay Section, IEE Bombay Chapter and the Institution of Engineers (I), Pune Local Centre.	Technical Committee Member, 31 st August 2001 to 1 st September 2001.

12. List of Workshops / Conferences / Seminars attended as Delegate / Author:

‘National Power System Conference’, Bombay held during 16-18 December, 2008	Author of the Research Paper December 16-18, 2008
‘2 nd IEEE International Conference on Power & Energy (PECon08)’ held at Johor Barau (Malaysia) during December 1-3, 2008.	Author of the Research Paper December 1-3, 2008
‘POWERCON 2008 & 2008 IEEE Power India Conference’, New Delhi, India.	Author of the three Research Papers December 12-15, 2008
‘International Conference on Power & Energy (POWERTECH-2007)’, organized by ICMR at Hotel Leela Kempinski, Sahar Mumbai. Invited to Chair one of the Technical Session of the International Conference.	Technical Session Chairman 22 December 2007
‘23 rd National Convention of Electrical Engineers and National Seminar on Challenges in Electricity Sector under Deregulated Environment’, under the aegis of Electrical Engineering Division Board, The Institution of Engineers (I), hosted by the Institution of Engineers (I), Pune Local Centre during 23-24 November, 2007.	Author of three Research Paper November 23-24, 2007
‘CII-NID Design-Summit-2005’, Organized by the Confederation of Indian Industry, Department of Industrial Policy and Promotions, Government of India and National Institute of Design, Ahmedabad at Hotel Hyatt Regency, Andheri, Mumbai.	Representative of the Science and Technology Park of University of Pune 8-9 th December, 2005
‘3 rd Workshop on Electrical Safety-The Concept’, organized by Rotary Club of Pune-Sinagad Road and the Institution of Engineers, Pune Local Centre.	Delegate, 5 th May, 2005.
‘ETAP Quality Assurance Programme’ organized by KLG Systel Ltd at Hotel Ramada-In, Mumbai.	Delegate 16 th April, 2005
Seminar on - ‘Introduction to ISTE and Edexcel UK’ joint venture to deliver world class education in India’ organized jointly with Pune Institute of Engineering and Technology, Pune and ISTE New Delhi.	Delegate, 5 th August, 2004.
Workshop on - ‘Power Quality (Monitoring, Standards, Mitigation Techniques, Practices and Trends)’ organized by Department of Electrical Engineering, K.K.Wagh College of Engineering, Nashik in association with IEE Bombay Chapter, Cigre India and PES Chapter of IEEE Bombay Section at Nashik.	Delegate, 30 th April to 1 st May 2004.
Seminar on - ‘Transformer Insulation Systems’ organized by Central Power Research Institute, Bangalore.	Author of the Research Paper 28 th -29 th January 1998
‘Fourth Workshop and Conference on EHV Technology’ organized by the Department of High Voltage Engineering, Indian Institute of Science, Bangalore	Author of the Research Paper 17 th -18 th July 1998
Fifth International Seminar on – ‘Electrical and Electronic Insulation Materials and Systems’ at Bangalore organized by IEEMA.	Delegate, 27 th -28 th November 1997
Short Term Program on – ‘Induction Training for Teachers’ jointly organized by Walchand Institute of Technology, Solapur and Indian Society for Technical Education, New Delhi.	Delegate, 19 th -21 st May 1994
Workshop on – ‘Evaluation and Measurement’, jointly organized by Bharati Vidyapeeth College of Engineering, Pune and ISTE New Delhi.	Delegate, 26 th -29 th December 1992

13. Lectures Delivered by Dr.Y.P.Nerkar as Resource Person:

1. Dr.Y.P.Nerkar has delivered a lecture on 23rd September, 2006 at Government College of Engineering, Pune on '**Prediction of Life of Oil-Pressboard Insulation**' at "TEQIP Workshop on 'Insulation Diagnostic and Testing for Electric Engineers". This program was jointly organized by COEP, IEEE and IEEMA.
2. Dr.Y.P.Nerkar has delivered a lecture on 29th September, 2006 at PDVVP College of Engineering, Ahmednagar on '**A Plan of Islanding Scheme for Pune City**' in a "Conference on Power Distribution Management".
3. Dr.Y.P.Nerkar has delivered a lecture on 13th March, 2007 at Cusrow Wadia Institute of Technology, Pune on '**Design, Fabrication and Testing of Electric Machines used for Electric Vehicles**' in a "Short Term Training Programme on Recent Trends in Electric System of Automobiles" sponsored by Board of Technical Education, Maharashtra State during 12-16 March, 2007".
4. Dr.Y.P.Nerkar has delivered a lecture on 13th March, 2007 at Cusrow Wadia Institute of Technology, Pune on '**Present Status of Electric Vehicle Technology in India**' in a "Short Term Training Programme on Recent Trends in Electric System of Automobiles" sponsored by Board of Technical Education, Maharashtra State during 12-16 March, 2007".
5. Prof. Dr.Y.P. Nerkar has delivered a Lecture at the International Conference on Power and Energy (Power-Tech 2007) organized by ICMR at Mumbai on 22nd December 2007. His topic was "**Reactive Power as an Ancillary Service**"

14. Administrative Responsibilities Held:

1. Professor and Head of Electrical Engineering Department

Dr.Y.P.Nerkar has worked as Professor and Head of Electrical Engineering from 1st January, 2005 to 30th April, 2009 at PVG's College of Engineering and Technology, Pune. Under his able leadership Design and Installation of HT Sub-station and Diesel Generator Set for college is completed successfully. Electrical wiring for new administrative office, Director's Cabin, Principal's Cabin, Central Workshop, Industry-Institute Cell and Central Library was also completed successfully.

Dean (Research and Development)

Dr.Y.P.Nerkar has worked as Dean (R&D) of PVG's College of Engineering and Technology, Pune. He coordinated various Research and Development Projects received by various departments.

Dr.Y.P.Nerkar has also worked as Dean (Academics) of PVG's College of Engineering and Technology, Pune during academic year 2008-09.

2. Coordinator of PVG's College of Engineering and Technology:

- Since academic year 2003-04, Dr.Y.P.Nerkar is coordinating various proposals related to fixation of fees of PVG's College of Engineering and Technology, Pune. He is also coordinating various proposals to AICTE, New Delhi for continuation of approval and proposals to the University of Pune related to continuation of affiliation. He coordinated many visits of members of the Local Inquiry Committee appointed by the University of Pune.
- Dr.Y.P.Nerkar is actively involved in **admission process of PVG's College of Engineering and Technology, Pune since academic year 2003-04.**

- Dr.Nerkar has worked as **Incharge of Application Receipt Centre at PVG's, College of Engineering and Technology, Pune for academic year 2004-05, 2005-06, 2007-08 and 2008-09.**
- Dr.Nerkar has worked as **CET Coordinator of PVG's, College of Engineering and Technology, Pune** for the Pharmacy and Engineering CET Examinations conducted by the Directorate of Technical Education, Mumbai at our college.
- Dr.Nerkar has worked as **an Assistant Director – Central Assessment Programme** of University of Pune (May-June 2003) and Director -CAP for the year.
- Dr.Nerkar has worked as an **Overall Coordinator of PVG's, College of Engineering and Technology, Pune during Experts visit appointed by AICTE and UGC for NBA and NAAC accreditation respectively during May-June 2002.**

3. Activities with the Institution of Engineers (Pune Local Centre)

- Dr.Nerkar has worked as a **Convener for 'Carrier Vision – 2003' and 'PROJEX2K4' organized by the Institution of Engineers (I), Pune Local Centre.**
- Dr.Nerkar has worked as a **Coordinator for Electrical Engineering Division' for Carrier Guidance Cell of the Institution of Engineers (I), Pune Local Centre and Convener of Self Help Group programme.**
- Dr.Nerkar worked as **Chairman of Technical Sub-Committee for the '23rd National Convention of Electrical Engineers and National Seminar on Challenges in Electricity Sector under Deregulated Environment',** under the aegis of Electrical Engineering Division Board, The Institution of Engineers (I), hosted by the Institution of Engineers (I), Pune Local Centre during 23-24 November, 2007.

4. Activities with the Rotary Club of Pune Sinhgad Road

- Dr.Nerkar has worked as a **Member of the Expert Committee** formed by the Rotary Club of Pune-Sinhgad Road for the Survey of Electrical Installations in Pune City in respect of the Electrical Safety.

5. Activities with IEEE

- Working as Chairman PES/IAS Chapter of IEEE Bombay Section and played important role in establishment of IEEE student branches in various engineering colleges situated in and around Pune. He is also working as a member of the Executive Council and Treasurer of Pune Sub-section of IEEE for the year 2008-09.

15. Scientific and Related Activities.

Partial Discharges (PDs) are regarded as the most hazardous phenomena with respect to service life of insulation in all power apparatus including transformers. The gradual deterioration in insulation due to PDs can lead to the premature failure of the system. The insulation system in EHV and UHV transformers consists of paper, pressboard and processed mineral oil.

An attempt was made to study the effect of time and test procedure on the behavior of PDs causing failure of the oil-pressboard system under power frequency voltages using disc shaped samples and uniform field electrodes. Weibull statistics was used to analyse the large amount of PD distribution data.

The PD phenomenon was found to be stress and time dependent. On the basis of the stress level, three different regions were identified and in one of the regions, the rate of deterioration of the sample was the maximum.

Following are the major contributions of PhD Research work of Prof Dr. Y. P. Nerkar

1. Identification of three modes of PD distributions.
2. Identification of that mode (third mode) leading to the catastrophic failure.
3. Identification of the skewness parameter and the normalized time ratio as good indicators for monitoring the state of oil-pressboard insulation system.
4. Identification of turning point in the cumulative charge diagram of the third mode after which the failure of oil-pressboard insulation is imminent.
5. Identification of the fact that oil quality is not too significant in guessing of the normalized time ratio depending on the experimental settings.

Dr. Y. P. Nerkar

12th May, 2011