Curriculum Vitae

1. **Name** Dr. Prasad Madhukar Joshi
2. **Date Of Birth** 27/11/1964
3. **Mailing Address** 32, Mangalwar Peth
Satara, Dist Satara
Maharashtra, India
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1. Educational Qualification

Sr. No.	Degree	Year	Class	Inst/University	Area
1	B. E. (Electrical)	1981-1985	First	WCE,Shivaji University	Electrical with Electronics
2	M. E. (Electrical)	1985-1987	First with Dist.	WCE,Shivaji University	Power Systems
3	M.E. (Electronics)	1989-1992	First	TKIET,Shivaji University	Electronics
4	Ph. D.	2006-2009		IIT Bombay	Testing and Diagnostics

2. Details of Employment

At present, working as Professor in Electrical Engineering and Dean Academics, Govt. College of Engineering, Karad.

Worked as

1. Head of Electrical Engineering Department
2. Head of Electronics and Telecommunication Engg. Dept.
3. Head od MCA Dept..

Total teaching experience: 28 years 9 months as on 1-10-2015

3. Patents

- **Indian patents:**

  - **File no.**1893/MUM/2007 filed on 27th Sep. 2007

  Title: A Diagnostic method for determining deformations in a transformer winding

  - **File no.** 1700/MUM/2009 filed on 27th Jul. 2009

  Title: An on-line diagnostic method for health monitoring of a transformer

- **International PCT applications**:

  - **File no.** PCT/IN2008/000584 filed on 11th Sep. 2008

  Title: A Diagnostic method for determining deformations in a transformer winding

  - **File no.** PCT/IN2010/000474 filed on 15th July 2010

  Title: An on-line diagnostic method for health monitoring of a transformer

- **US Patents:**

  - US Patent **Application No 13/386,517** (Filed on 23 January 2012)

  - US Patent **Application No 12/679,748** (Filed on 24 March 2010)

US Patent awarded with Patent No. 8278939 Date of Patent 2nd Oct. 2012

All India radio station broadcasted my Interview on US patented technology

Special Article was published in Mumbai based industrial magazine "Efficient Infrastructure" in its Feb-Mar 2013 Issue for new invention

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4. Publications

- **International Journals**

  - Joshi P. M. and Kulkarni S. V., "Use of deformation coefficient for transformer winding diagnostics," *International Journal of Emerging Electrical Power Systems,* Vol. 9, Issue 3, Article 7, 2008

DOI: 10.2202/1553-779X.1974

ISSN 4553-779X

Available at: http://www.bepress.com/ijeeps/vol9/iss3/art7

- Joshi P. M. and Kulkarni S. V., "Three-phase winding deformation diagnostics using terminal capacitance measurements," *International Journal of Emerging Electrical Power Systems,* Vol. 10, Issue 3, Article 8, 2009

DOI: 10.2202/1553-779X.2142

ISSN 4553-779X

Available at: http://www.bepress.com/ijeeps/vol110/iss3/art8

- Anil D. Matkar, Prasad M. Joshi," Comparative study of PWM techniques for Diode clamped Multilevel Inverter," *International Journal of Industrial Electronics and Electrical Engineering,* Vol. 3, Issue-6, June 2015

ISSN 2347-6982

➢ IEEE General Meeting Papers

- Joshi P. M. and Kulkarni S. V., "Transformer winding diagnostics using deformation coefficient," *IEEE* general meeting 2007 (Pittsburgh , USA), Paper no. 08GM0583, Jul. 2008

Print ISBN: 978-1-4244-1905-0
INSPEC Accession Number: 10141675
Digital Object Identifier: 10.1109/PES.2008.4596256
Date of Current Version: 12 August 2008
This paper appears in: Power and Energy Society General Meeting - Conversion and Delivery of Electrical Energy in the 21st Century, 2008 IEEE

- Joshi P. M., Kulkarni S. V." A novel approach for on-line deformation diagnostics of transformer windings" IEEE Power and Energy Society General Meeting, 2010, Minneapolis(USA), July 2010

ISSN: 1944-9925
E-ISBN: 978-1-4244-8357-0
Print ISBN: 978-1-4244-6549-1
INSPEC Accession Number: 11571434
Digital Object Identifier: 10.1109/PES.2010.5589995
Date of Current Version: 30 September 2010.
This paper appears in: Power and Energy Society General Meeting, 2010 IEEE

➢ International Conferences

- Joshi P. M. and Kulkarni S. V., "A novel method for detection of winding deformations using terminal measurements," ARWtr-2007, Advanced Research Workshop on Transformers, 29-31 Oct. 2007, Biona, Spain

ISBN-978-84-612-0115-0
N Registro 07/86801

- Joshi P. M. and Kulkarni S. V., "Deformation coefficient for multiple-section deformations in power transformer windings," Paper to be presented at International Conference on Transformers, TRAFOTECH-2010, Jan. 2010.

- Patil U. S. and Joshi P. M., "Stydy of Advanced power flow analysis for intelligent power and energy systems," ICMET 2010, Singapore

- Patil U. S. and Joshi P. M., "Advanced power flow analysis for intelligent power and energy systems,"

- P. R. Jadhav and P. M. Joshi "Study of Transformer winding parameters as deformation diagnostic techniques" , International Conference ACCT 2011

- Sagar Chavan, Nilesh Kumbhar, P. M. Joshi, "Development of Laboratory Model of Transmission Line," International Conference on Electrical, Electronics and Computer Science (ICEECS), Bhopal, Dec. 2012

- Ketan Badgujar, S. V. Kulkarni and P. M. Joshi, " Deformation Coefficient Based Winding Diagnostics: A Complementary approach to FRA", 5th International Conference on Large Power Transformers, 24th and 25th Jan. 2013, New Delhi

- P. M. Joshi, Ketan Badgujar and S. V. Kulkarni, "Localization of Deformations in Transformer Winding Using Terminal Capacitance Measurement", IEEE-CATCON 2013, in Dec. 2013 at Kolkata.

- Anil Metkari, P. M. Joshi, "Comparative study of PWM techniques for multilevel Inverters", International Conference on Resent trends in Electrical Engineering, IJRT, Pune , April, 2015

- Rupali Nalawade, Prasad M. Joshi" Study Of Circulating Current Phenomena In Multiple Parallel InvertersOperating In Microgrid" 36th IRF International Conference, Pune, 6.09.2015

➢ **National Journals**

- Markande S.D. Joshi P.M. Katti S. S. " Application of Fuzzy logic: Implementation using microcontroller" Institute of Engineers Journal on Electrical Engg, June 2000

5. Area of Specialization

- Electromagnetic Engineering
- Power Systems
- Condition monitoring and Diagnostics

6. Teaching Experience

Following subjects were taught during total service of 27 years

- Basic Electrical Engineering
- Network Analysis
- Feedback Control Systems
- Digital Control
- Electromagnetic Engineering
- Real Time Control of Power System
- Digital Signal Processing
- Signals And Systems
- Fuzzy Logic and ANN
- Power System stability and Control
- Power quality and Harmonics
- Digital Image Processing

- Power System Dynamics
- Communication Engineering

7. Membership of Professional Bodies

- Member and Chartered Engineer of Institute of Engineers, India (No. 12341)
- Life Member of Indian Society of Technical Education (No. 12679)
- Member of IEEE,
    - Member number: 93267043
    - Grade: Member
    - Membership status: Active
    - IEEE Region: R10 -Asia and Pacific
    - Section: Bombay Section

8. Industrial Interaction

Following are the important contributions

- Developed Indigenous controller for Milk Chilling Plants
- Designed Conveyor based De-magnetiser for bearing Industry
- Bus bar heating tables for Godrej Boyce co. (through IITB)
- Ground protection scheme for Faraday cage at IITB

9. Development of Laboratories

- Microcontroller Lab at Got. College of Engg, Karad
- Power system Lab at Got. College of Engg, Karad
- Microcontroller based Induction motor control scheme
- Transmission line trainer
- Laboratory model for demonstration of FACTS devices
- New Electronics and Telecommunication Department at Govt. College of Engineering, Karad
- The department of Electrical Engineering at GCOE Karad was accreditated under my leadership

10. PG projects Supervision

Recognized PG teacher for

- ME Electrical
- ME Electronics
- Ph. D. (Electrical Engg)
- Total of 51 Master degree projects supervised
- At present 04 research scholars are working under my guidance

11. Continuing Education Programs

- Arranged 2 week STTP 'Computer Applications in Power Systems' at karad in Dec. 2003
- Instructor for CEP program on Electromagnetic by IIB Bombay
- Working as reviewer of IEEE transactions on Power Delivery

- Worked as resource person for
  - Delivered Expert lecture on Electromagnetic at Yeshoda Technical Campus Satara in Sep. 2015
  - TEQIP Training Programme on Advanced Mathematics, GCE Karad, May, 2014
  - TEQIP Training Programme on "Electrical Engineerin", GCE Karad, May Dec. 2014
  - MATLAB workshop at RIT Sakharale, March 2013
  - IPR workshop at Modern COE, Pune, Jan, 2012
  - WCE Sangli on Advances in Control Systems, Dec 2011
  - ADCOE Asta, Advances in Elect. Engg., June 2011
  - PVG COE Pune on Grounding of Electronics Equipments, Feb 2011
  - STTP at RIT Sakharale on Research opportunities in Electrical Engineering, Feb. 2011
  - AISSMS COE Pune on Research Methodology, Jan 2011
  - STTP at ADCOE Asta on Research Methodology, Jan 2011
  - STTP at GTU, Surat for CEP organized by IITB on Electromagnetics, Dec 2010
  - STTP at SPS Satara on career opportunities and research, Nov. 2010
  - CEP at TKIET Warnanagar on Intelluctual Property, Sep. 2010
  - CEP at ABB Vadodara organized by IITB on Computational Electromagnetics, March 2008
  - STTP at KBPCOEP Satara on Microcontroller, Jul. 2000
  - STTP at Modern COE, Pune Feb. 2012

- **Short term courses Attended**
  1. Low cost automation in electrical Industry, 2 weeks, L&T and IIT bombay
  2. Microcontroller in Power and Industrial Control, 2 weeks, KBPCOE Satara
  3. Condition monitoring of electrical machines, 1 week IIT Madras
  4. A graphical Programming language LABVIEW and its real life applications 1 week COEP

- Worked as expert guest faculty for Electromagnetic Engineering at
  - WIT Solapur
  - TKIET Warnanagar
  - DKTE Ichalkaranji
  - RIT Sakaharale
  - COEP Pune

12. Academic Activities

- Working as Dean Academics
- Worked as admission In-charge for admission center at Govt. College of Engg., Karad
- Worked as Head of Department for Electrical, Electronics and Telecommunication Engineering, and MCA

- Working on various DTE, University and AICTE inspection committees
- Worked as Annual Social Day In-charge
- Worked as coordinator for zonal sports meet
- Worked as coordinator for zonal cultural meet
- Being informed to have excellent CR throughout the service period of the Government
- Worked as coordinator of NAC for imparting MSCIT education to all sectors of the society
- Worked as coordinator for 'ELECTRICA' a national level electrical students meet
- Worked as coordinator for "AVISHKAR' a national level all branches students meet
- Working as coordinator for "NEXUS" a National level students meet.
- Working as Chairmen BOS Electrical Engineering for Shivaji University
- Working as Member of Engineering Faculty and BOS in Electrical Engineering Shivaji University, Kolhapur.
- Working as BOS member at RIT Sakharale (Autonomous Institute)
- Working as BOS member at WCE Sangli(Autonomous Institute)
- Worked as nodal officer Finance for TEQIP II

13. Interaction with Society

- Active member of Rotary Club
- Active member of Satara Club
- During MSEB strike periods helped the local administration by providing support (Special letter of recognition received from Govt. authority)

Date 1.10.2015 **Signature**