

RESUME

Dr. D. M. Sonje

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1. **Full Name** : Dr. Deepak Murlidhar Sonje
2. **Present Position** : Assistant Professor
Department of Electrical Engineering
Gokhale Education Society's R. H. Sapat College of
Engineering, Management Studies and Research, Nashik-09.

3. Educational Qualifications

Education

- Passed High School (10th) certificate examination with first class and distinction (79.81%)
- Passed Higher Secondary School(12th) examination with first class and distinction 80.83%
- Graduated in Electrical Engg. (BE) in the year 1999 with first class and distinction (70.07%) from Government College of Engineering, Shivaji University, Kolhapur, Maharashtra.
- Postgraduate (ME) in Electrical Engg. (Control System) from KKWIEER, Nashik, Savitribai Phule Pune University, Pune in 2009 with First class (64%).
- Ph.D. awarded in Electrical Engineering with title 'Advanced Techniques for Fault Detection and Classification in Induction Motor' from Sardar Vallabhbhai National Institute of Technology (SVNIT) Surat, Gujarat in June-2019.

4. Teaching Experience: 19 Years

Designation	Employer	From	To
Assistant Professor	GES's RHSCOEMS&R, Nashik	08/08/2010	Continuing
Senior Lecturer	N.D.M.V.P's College of Engineering, Nashik	26/07/2007	07/08/2010
Lecturer	N.D.M.V.P's College of Engineering, Nashik	23/06/2005	25/06/2006
Lecturer	S.N.J.B. College of Engineering, Chandwad, Nashik	June 2004	May 2005
Lecturer	K. K. W. College of Engineering, Management Studies and Research, Nashik	10/09/2001	31/05/2004
Lecturer	V.V. Patil Polytechnic, Loni	01/11/1999	13/09/ 2001

5. Industrial Experience: 1.1 Year

Worked as a Junior Engineer in Maharashtra State Electricity Distribution Company Limited from June 2006 to July 2007.

- To give uninterrupted power supply and best service to the consumer.
- To maintain LT line, HT line and transformer, reduce the breakdown and reduce the failure rate of distribution transformer.
- To recover the arrears from the consumer and increase the collection efficiency.

6. Administrative Experience

Post Held	From	To
Assistant Warden in boys hostel at Pravara Poly	September 1999	August 2001
NSS Program Officer	July 2011	June 2014
Committee Member of Central Assessment Program (CAP)	April 2012	
Internal Senior Supervisor	May-June 2012, Oct-Nov 2018	
External Senior Supervisor	At Guru Govindsingh COE and PVG COE, Nashik	
ARC Co-ordinator	For Direct second year admissions	
NAAC Criteria V Co-ordinator		
Currently working as NBA criteria IV Co-ordinator		

7. Memberships of Professional Bodies

Associate member of Institute of Engineering and Technology (IET)

8. Other Activities and Achievements

- Reviewer of the international journal for “**Computation and Mathematics in Electrical and Electronic Engineering**” (SCIE and Scopus Indexed - Emerald Publication).
- Reviewer for MVP Journal of Engineering Sciences
- Reviewer for international conference organized by SITRC, Nashik.
- Session Chair & Reviewer for international conference “ICCCC-2017” organized by Matoshri College of Engineering, Nashik.
- Judge in national conference on “Power System & Renewable Energy System” organized by KKWIEER, Nashik.
- External Subject Expert of University Staff Selection Committee at SITRC, Nashik.
- Internal Subject Expert University Staff Selection Committee at RHSCOE, Nashik.
- PG Teacher Recognition by Savitribai Phule Pune University, Pune.
- Cracked the Ph. D entrance of SPPU Pune, Amravati and Nagpur University.
- Recipient of Middle school and high school scholarships.

9. Research Interest

Digital Signal Processing

Fault Diagnosis in induction motor

11. Research Guidance

• Dissertations

- Completed : 4
- In Progress : 2
- B.E. Projects : 10

12. Research Papers

Research Papers published in National/International Journals or presented in National/International Conferences: 06

13. Sponsored Research Projects

Fault Diagnosis of Induction Motor funded by SPPU, Pune (Principal Investigator)

Research Projects

Project Title	Sponsoring Industry/ Organization	Duration	Principal Investigator	Amount (Rs. In lacs)
Fault Diagnosis of Induction Motor	SPPU, Pune	2014-2016	Prof. Sonje D. M	2.10

14. Courses Taught at UG level

- Control System I
- Control System II
- Basic Electrical Engg.
- Electrical Technology
- Network Analysis
- Material Science

15. Courses Taught at PG level

- Digital Signal processing and its applications
- Advanced Control System
- Modeling and Analysis of Electrical Machines

16. Research Publications

List of papers published/accepted/communicated

Journal papers:

1 Deepak M. Sonje, P. Kundu, and A. Chowdhury, “A Novel Approach for Sensitive Inter turn Fault Detection in Induction Machine under Various Operating Conditions”, published in *ARABIAN JOURNAL OF SCIENCE AND ENGINEERING (AJSE) Springer Publication (SCIE and Scopus Indexed Journal)*.

1. Deepak M. Sonje, P. Kundu, and A. Chowdhury, “An Innovative Approach for Multiple Faults Detection in Induction Motor Using Statistical Time Measures and Random Forest Classifier”, *International Journal of Control Theory and Applications (Scopus Indexed Journal)*, vol.10, pp.317-325, 2017.

2. Deepak M. Sonje, P. Kundu, and A. Chowdhury, “Intelligent Approach for Multiple Bearing Fault Detection in Three Phase Induction Motor using Random Forest Algorithm”, published in *Journal of Interdisciplinary and Multidisciplinary Research (Scopus Indexed Journal)*.

3. Deepak M. Sonje, P. Kundu, and A. Chowdhury, “A Novel Approach for Multi-Class Fault Diagnosis in Induction Machine Based on Statistical Time Features and Random Forest Classifier”, is published in *Material Science and Engineering (Scopus Indexed Journal) Institute of Physics (IOP publishing)*.

Conference papers:

1. Deepak M. Sonje, P. Kundu, and A. Chowdhury, “Fault Diagnosis of Induction Motor Using Parks Vector approach”, in IEEE International Conference on Advances in Electrical Engineering (ICAEE-2014), held at VIT Vellore, India, pp.1-4, December 2014.
2. Deepak M. Sonje, P. Kundu and A. Chowdhury, “Detection and Discrimination of Simultaneous Stator Inter-Turn and Broken Rotor Bar Faults in Induction Motor”, in **IEEE International Conference on Condition Assessment**.
3. Deepak M. Sonje , “Energy Conservation in Educational Institute” in National Conference in **Power System & Energy Management** at IETE, Bhaddal, Punjab.
4. Deepak M Sonje, Dr. R. K. Munje, “Rotor Fault Diagnosis of Induction Motor using Motor Current Signature Analysis” in International Conference on **Computational Intelligence Applications ICCIA - 2012** at SIERT, Nashik.

17. List of Programs attended

- Short term training program on “Advances in High Voltage Technology” at Sardar Vallabhbhai National Institute of Technology, Surat.
- Short term training program on “Recent Trends in Condition-Monitoring of Electrical Equipments” at K. K. Wagh College of Engg Nashik.
- Short term training program on “Intelligent Control and Automation” at PIET Pune.
- Workshop on “Switchgear & Automation” organized by IEE, IEEE and K.K. Wagh College of Engg at K. K. Wagh College of Engg Nashik.
- Workshop on “Power Quality” organized by IEE, IEEE and K.K. Wagh College of Engg at Hotel Quality Inn Nashik.
- Workshop on “Recent Trends in Electrical Power System” at P.V.G. College, Pune.
- Workshop on Introduction to PSCAD and ETAP software organized by university and K.K. Wagh institute of engg at nashik.
- National conference on “Power System & Energy Management” at IETE, Bhaddal, Punjab.
- Seminar on Electronics – Waste Management at N.D.M.V.P.S College of Engg. Nashik.
- National conference on “Recent Trends in Instrumentation & Control Engg” at TIET Patiyala.