

STAFF PROFILE



Dr. P B Karandikar

Associate Professor

Electronics & TeleCommunication

pkarandikar@aitpune.edu.in

Date of Joining
01/07/1998

Nature of Appointment
Regular

Educational Details

Qualification	Degree	University	Grade	Year
SSC	10th	-		
Diploma	DEE	BTE	77.5	1991
Graduation	BE	Pune University	71.3	1994
PG	ME	Pune University	68	1997
Diploma	ADCSSAA	BTE	62	1996
Doctoral	PhD	Pune University	-	2013

Areas of Interest

Experience Details

Total : 26.00 years	Teaching : 26.00 years	Research : 0.00 years	Industry : 0.00 years
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Type	Duration/ Period	Designation/ Organisation Name	Brief Job Profile
Educational	13.00 Years 1997 to 2007	Lecturer AIT Pune	Teaching and amin work
Educational	6.00 Years 2007 to 2013	Asst Professor AIT Pune	Teaching, research and amin work
Educational	7.00 Years 2013 to 2020	Associate Professor AIT Pune	Teaching, research and amin work

Journal Publications

1. Dr P B Karandikar, Dr N R Kulkarni , Meghna Bhosale , (2019). [Need of interdisciplinary research for earthing](https://www.electricalindia.in/wp-content/uploads/2018/09/7-Electrical-India-July-2018.pdf) . *Electrical India* . 59(3), 62-68. ISBN/ ISSN No : 0972-3277. URL : <https://www.electricalindia.in/wp-content/uploads/2018/09/7-Electrical-India-July-2018.pdf>.
2. Dr P B Karandikar, Dr N R Kulkarni , Meghna Bhosale , (2019). [Need of interdisciplinary research for earthing](https://www.electricalindia.in/wp-content/uploads/2018/09/7-Electrical-India-July-2018.pdf) . *Electrical India* . 59(3), 62-68. ISBN/ ISSN No : 0972-3277. URL : <https://www.electricalindia.in/wp-content/uploads/2018/09/7-Electrical-India-July-2018.pdf>.
3. Dr P B Karandikar, Samata Parulekar , (2019). [Capacitors: Beyond Fundamentals](https://www.electricalindia.in/capacitors-beyond-fundamentals/) . *Electrical India* . 59 (10), 52-60. ISBN/ ISSN No : 0972-3277. URL : <https://www.electricalindia.in/capacitors-beyond-fundamentals/>.
4. P B Karandikar, Sagar Bhutada, R M Holmukhe , (2018). [Condenser Bushings](https://www.electricalindia.in/wp-content/uploads/2018/09/7-Electrical-India-July-2018.pdf) . *Electrical India* . 58(7), 70-75. ISBN/ ISSN No : 0360-3277. URL : <https://www.electricalindia.in/wp-content/uploads/2018/09/7-Electrical-India-July-2018.pdf>.
5. P. B Karandikar, Divya Parashar, (2017). Lithium Batteries- Next step in the energy storage world. *Technical Journal of The Institute of Engineers(India) Pune Local Centre*. 41(Nov 2017), 50-54. ISBN/ ISSN No : ISBN- 978-81-924990-5-5.
6. DIVYA PARASHAR, (2017). SIXTH ORDER MODEL OF WIND TURBINE VOLTAGE FLICKER TAKING INTO ACCOUNT IMPACT OF VERTICAL WIND SHEAR. *INTERNATIONAL JOURNAL OF CONTROL*

- THEORY AND APPLICATIONS. VOLUME 10(37), 251-263. ISBN/ ISSN No : 0974-5572. URL : www.serialsjournals.com/serialjournalmanager/pdf/1500708115.pdf.
7. P. B KARANDIKAR, DATTA .S. CHAVAN, SHITAL GAIKWAD, (2017). VOLTAGE FLICKER NOISE IN WIND TURBINE OUTPUT. *INTERNATIONAL JOURNAL OF CONTROL THEORY AND APPLICATIONS*. VOLUME 10(37), 133-143. ISBN/ ISSN No : ISSN : 0974-5572. URL : www.serialsjournals.com/serialjournalmanager/pdf/1500707155.pdf.
 8. Dr P B Karandikar, Dr N R Kulkarni, Seema Mathew, (2017). [Supercapacitors- Challenges Ahead](#). *Electrical India* . 57(11), 142-147. ISBN/ ISSN No : 0972-3277. URL : <https://www.electricalindia.in/challenges-ahead/>.
 9. Dr P B Karandikar, Dr N R Kulkarni, Seema Mathew, (2016). [Supercapacitors- Myths Vs Facts](#) . *Electrical India* . 56(11), 54-59. ISBN/ ISSN No : 0360-3277. URL : <https://www.electricalindia.in/supercapacitors-myths-vs-facts/>.
 10. Dr P B Karandikar, Dr N R Kulkarni, Seema Mathew, (2016). [Supercapacitors- Myths Vs Facts](#) . *Electrical India* . 56(11), 54-59. ISBN/ ISSN No : 0360-3277. URL : <https://www.electricalindia.in/supercapacitors-myths-vs-facts/>.
 11. Dr P B Karandikar, Gaurav Shekhar , Swati More , (2015). [Comparison of supercapacitors based on carbon derived from leaves of tree](#) . *Electrical India* . 55(7), 50-59. ISBN/ ISSN No : 0972-3277. URL : <https://www.electricalindia.in/comparison-of-supercapacitors-based-on-carbon-derived-from-leaves-of-tree/>.
 12. Dr P B Karandikar, Niraj Mahulkar , Swati More , (2014). [New Trends in Supercapacitor](#). *IEEEEMA Journal* . 6(5), 52-56. ISBN/ ISSN No : 0972-3277. URL : <https://ieema.org/industry-intelligence/ieema-journal/>.
 13. P B Karandikar, Niraj Mahulkar , (2014). [Hybrid capacitors: New energy storage Option](#) . *Electrical India* . 54(3), 88-92. ISBN/ ISSN No : 0972-3277. URL : <https://www.electricalindia.in/?s=Hybrid+capacitor+>.
 14. P B Karandikar, V L Kokate, Datta Chavan , (2014). [Wind Tunnel - R&D need of Wind Energy](#) . *Electrical India* . 54(1), 104-108. ISBN/ ISSN No : 0972-3277. URL : <https://www.electricalindia.in/>.
 15. D B Talange , P B Karandikar, Uday Mhaskar , R C Bansal , (2012). [Development, modeling and characterization of aqueous metal oxide based supercapacitor](#). *Journal of Energy*. 40(1), 131-138. ISBN/ ISSN No : 0360-5442. URL : <https://www.sciencedirect.com/science/article/abs/pii/S0360544212001156>.
 16. P B Karandikar, D B Talange, Uday Mhaskar , R C Bansal , (2012). [Investigations in to material and manufacturing aspects of aqueous supercapacitor](#). *Materials and Manufacturing Processes, Taylor and Francis* . 27(11), 1164-1170. ISBN/ ISSN No : 1042-6914. URL : <https://www.sciencedirect.com/science/article/abs/pii/S0360544212001156>.
 17. P B Karandikar, D B Talange, R C Bansal , (2012). [Validation of Capacitance and Equivalent Series Resistance Model of Manganese Oxide-based Aqueous Super-capacitor](#). *Electric Power Components and systems, Taylor and Francis* . 40(10), 1105-1118. ISBN/ ISSN No : 1532-5008. URL : <https://www.tandfonline.com/doi/abs/10.1080/15325008.2012.682247>.

Conference Publications

1. P B Karandikar, Vispi K, Mayank Bhalerao , L S Godse, saumyakanth , (2019). [ELECTRODE ELECTROLYTE COMPATIBILITY FOR SUPERIOR PERFORMANCE OF SUPER-CAPACITOR](#). *IEEE PETPES 2019*. 1(2), 1-8. ISBN/ ISSN No : 00.
2. P.B Karandikar, Divya Parashar, Datta S. Chaven, (2017). [Research Test Set Up For Wind Turbine Models](#). *International Conference on circuits Power and Computing Technologies* . 10(October 2017), 357-360. ISBN/ ISSN No : 978-1-5090-4967-7 .
3. Datta. S. Chavan, Aditi Rana, Mahal Raj Singh, (2014). [Modeling of Flicker in Wind Turbine on a Green Building Due to Vertical Wind Shear](#). *International Power Engineering and Optimization Conference (PEOCO2014)*. 1(1), 225-230. ISBN/ ISSN No : 978-1-4799-2422-6.
4. Datta. S. Chavan, Aditi Rana, Mahal Raj Singh, (2014). [Modeling of Flicker in Wind Turbine on a Green Building Due to Vertical Wind Shear](#). *International Power Engineering and Optimization Conference (PEOCO2014)*. 1(1), 225-230. ISBN/ ISSN No : 978-1-4799-2422-6.
5. Datta. S. Chavan, Aditi Rana, Mahal Raj Singh, (2014). [Modeling of Flicker in Wind Turbine on a Green Building Due to Vertical Wind Shear](#). *International Power Engineering and Optimization Conference (PEOCO2014)*. 1(1), 225-230. ISBN/ ISSN No : 978-1-4799-2422-6.
6. Chandan Kumar, Prateik N, (2014). [Hybrid braking: Future vehicle technology](#). *IEEE student conference on electrical, electronics and computer science* . 1(2), 22-29. ISBN/ ISSN No : 978-1-4799-2526-1.
7. Chandan Kumar, Prateik N, (2014). [Hybrid braking: Future vehicle technology](#). *IEEE student conference on electrical, electronics and computer science* . 1(2), 22-29. ISBN/ ISSN No : 978-1-4799-2526-1.
8. Datta S Chavan, (2013). [Effect of vertical wind shear on flicker in wind farm](#). *Global Humanitarian Technology Conference: South Asia Satellite (GHTC-SAS), 2013* . 1(1), 203-208. ISBN/ ISSN No : 978-1-4799-1095-3.
9. Aayush Negi, Santosh Kumar, (2013). [Comparative study of rolled and stacked type aqueous supercapacitor](#). *Global Humanitarian Technology Conference: South Asia Satellite (GHTC-SAS)*. 1(1), 260-263. ISBN/ ISSN No : 978-1-4799-1095-3.
10. Aayush Negi, Santosh Kumar, (2013). [Comparative study of rolled and stacked type aqueous](#)

- [supercapacitor](#). *Global Humanitarian Technology Conference: South Asia Satellite (GHTC-SAS)*. 1(1), 260-263. ISBN/ ISSN No : 978-1-4799-1095-3.
11. L S Godse, (2013). [Effect of ball milling on capacitance of electrochemical double layer capacitor](#). *Global Humanitarian Technology Conference: South Asia Satellite (GHTC-SAS)*. 1(2), 209 – 212. ISBN/ ISSN No : 978-1-4799-1095-3.
 12. Hema Upriti, Akansha Dixit, (2013). [Optimization of electrode parameters of stacked structured ultracapacitor](#). *Advances in Energy Research ICAER2013*. 1(1), 162-163. ISBN/ ISSN No : 00.
 13. Hema Upriti, Akansha Dixit, (2013). [Optimization of electrode parameters of stacked structured ultracapacitor](#). *Advances in Energy Research ICAER2013*. 1(1), 162-163. ISBN/ ISSN No : 00.
 14. I S Godse, (2013). [Study of Carbon Materials and Effect of its Ball Milling, on Capacitance of Supercapacitor](#). *4th International Conference on Advances in Energy Research 2013, ICAER 2013*. 54 (1), 302-3091. ISBN/ ISSN No : 00.
 15. Datta s Chavan, (2013). Influence of horizontal wind shear on flicker emission severity in wind farm. *Fourth International Conference on Advances in Energy Research*. 1(1), 96-97. ISBN/ ISSN No : 00.
 16. Aditi Rana , Akshi Chaudhary, (2013). [Effect of carbon nanotubes on the capacitance of an ultra-capacitor](#). *Global Humanitarian Technology Conference: South Asia Satellite (GHTC-SAS), IEEE*. 1(1), 124-127. ISBN/ ISSN No : 978-1-4799-1095-3.
 17. Aditi Rana , Akshi Chaudhary, (2013). [Effect of carbon nanotubes on the capacitance of an ultra-capacitor](#). *Global Humanitarian Technology Conference: South Asia Satellite (GHTC-SAS), IEEE*. 1(1), 124-127. ISBN/ ISSN No : 978-1-4799-1095-3.
 18. D B Telange, Akshay Dekate, (2012). [Implementation of response surface methodology on metal oxide based aqueous supercapacitor](#). *International conference on power electronics (IICPE)*. 1(1), 1-4. ISBN/ ISSN No : 978-1-4673-0934-9.
 19. D B Telange, Akshay Dekate, (2012). [Implementation of response surface methodology on metal oxide based aqueous supercapacitor](#). *International conference on power electronics (IICPE)*. 1(1), 1-4. ISBN/ ISSN No : 978-1-4673-0934-9.
 20. Dr. D. B. Talange , (2010). [Material Based Characterization of Aqueous Metal Oxide Based Supercapacitors](#). *EEE International Conference on Power and Energy (PECon2010)*. 1(1), 485-488. ISBN/ ISSN No : 00.
 21. Dhananjay Telange, (2009). [Photovoltaic Chargeable Electrochemical Double Layer Capacitor](#). *international conference on Computer and Electrical Engineering*. 2(1), 1322-1326. ISBN/ ISSN No : 978 -1-4244-5365-8.
 22. Dr. D. B.Talange, D B Telange, (2008). [Metal oxide based symmetrical EDLC for Photo Studio](#). *International conference on Emerging Technologies and Applications in Engineering, Technology and Sciences*,. II(I), 201-83. ISBN/ ISSN No : 00.
 23. Dr. D. B.Talange, D B Telange, (2008). [Metal oxide based symmetrical EDLC for Photo Studio](#). *International conference on Emerging Technologies and Applications in Engineering, Technology and Sciences*,. II(I), 201-83. ISBN/ ISSN No : 00.
 24. P B Karandikar, (2008). [Characterization of metal oxide based supercapacitor](#). *National conference on Recent Advances and Trends in Electrical Engineering*, . 1(1), 98. ISBN/ ISSN No : ISBN.
 25. P B karndikar, (2007). [Applications of supercapacitors for Electronic circuits and devices](#). *23rd National Convention of Electronics and Telecommunication Engineers*. 1(1), 46. ISBN/ ISSN No : ISBN.
 26. DhanrajRathod, (2007). [Applications of supercapacitors for Electronic circuits and devices](#). *23rd National Convention of Electronics and Telecommunication Engineers*. 1(1), 46. ISBN/ ISSN No : 00.

Books

1. P B Karandikar, Scitech Publication, (2009). [Basic Electrical Engineering](#). P B Karandikar. ISBN/ ISSN No : ISBN.

Patent

1. CHANDAN KUMAR, DEVESH KUMAR GOUR, PRATEIK N, (2014). 2068/MUM/2014 A. [AUTOMOBILE HYBRID BRAKING SYSTEM](#). 18/07/2014, India.
2. CHANDAN KUMAR, DEVESH KUMAR GOUR, PRATEIK N, (2014). .2067/MUM/2014 A. [Zero Turning Radius vehicle](#). 18/07/2014, India.
3. Shailendra, hema, (2014). 1442/MUM/2014 . [Development of Zigzag structured ultracapacitor](#). 23/04/2014, India.
4. P B Karandikar, (2011). 843/MUM/2011. [2\) Regenerative braking in electric two wheeler using supercapacitors](#). 16/09/2011, India.
5. P B Karandikar, (2011). 841/MUM/2011. [3\) Sandwich type supercapacitor making process](#). 23/03/2011, India.
6. P B Karandikar, (2011). 2858/MUM/2010. [1\) Method of manufacturing electrode for supercapacitor](#). 07/01/2011, India.

Workshop

1. Workshop on Process Safety Management (Attended), Process Safety Management & Challenges in Indian Industries, 2012, IIT, Gandhinagar

Research Grants

Title Of Project	Funding Agency	Duration		Sanctioned Amount	Role of Investigator
Development of SC from ind made carbon	BCUD Pune University	19/10/2016	01/08/2018	210000.00	Co-Investigator
Innovative Earthing Methods	BCUD Pune University	01/06/2016	16/03/2018	175000.00	Co-Investigator
Use of ultracapacitor for starting vehicle	BCUD Pune University	05/07/2014	08/08/2017	200000.00	Principal Investigator
investigations in supercapacitor carbon materials	M/S Madhav Capacitors, Bhosari , Pune	19/07/2013	04/03/2015	200000.00	Principal Investigator
Development of metal oxide supercapacitor	BCUD Pune University	01/09/2009	12/01/2013	300000.00	Co-Investigator
Development of aqueous supercapacitor	DSIR	01/06/2008	01/08/2011	400000.00	Principal Investigator

Consultancy

Title Of Project	Funding Agency	Duration	Sanctioned Amount	Investigator Role
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Professional Memberships

Society	Membership No	Duration	
ISTE	LM 71935	19/01/2000	19/11/2019
Indian Carbon society	LM 471	10/11/2017	19/11/2019
IEI	MIE 025541	11/02/2010	19/11/2019

Achievements/ Contribution

Year	Details
2017	NILL

No of PhD Students Guided : 4 **No of PG Students Guided** : 5
No of PhD Awarded Students : 0