

PROFILE

Mr. VISHAL S. DAKE

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PROFESSIONAL QUALIFICATION

Sr. No.	Degree	Program/Specialisation	University	Year of Passing
1.	B.E.	Electrical	Shivaji University Kolhapur	2011
2.	M.Tech.	Electrical -Power system	VJTI, Mumbai	2014
3.	Ph.D.	Selected for PhD under QIP category	--	--

EXPERIENCE

Sr. No.	Organisation	Duration
1.	Padmabhushan Vasantdada Patil Institute of Technology, Badhgaon, Sangli	1 Year
2.	Veermata Jijabai institute of Technology, Mumbai	06 months
3.	Sardar Patel College of Engineering, Mumbai	06 Years

PROFESSIONAL MEMBERSHIP

Sr. No.	Name of professional society	Membership ID
1 .	ISTE	--
2.	IETE	--

PAPERS PUBLISHED

International Journal

Sr. No.	Authors	Title of paper	Publisher	Year
1.	Vishal S. Dake, Hanumant A. Sarde, Ranjeet M. Bandgar (VJTI Mumbai)	“Parameter Estimation of Low Frequency Oscillations using Prony”	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 ,Vol. 3 Issue 5,	May - 2014
2.	Vishal Dake, Vishvadeep J.Dhawale, Prafulla A.Desale (VJTI Mumbai)	Blocking the Distance Relay 3rd Zone Operation during Power Swings by DTLR Enhancement in MATLAB/Simulink”	International Journal of Electronic and Electrical Engineering. ISSN 0974-2174 Volume 7, Number 7 (2014), pp. 757-765	2014
3.	Vishal Dake, A. Tillu, K. P. Dixit, H. Sarukte and H. A. Mangalvedekar	"Implementation and initial test result of a prototype solid state modulator for pulsed magnetron,"	2015 International Symposium on Discharges and Electrical Insulation in Vacuum (ISDEIV), Mumbai, 2015, pp. 377-380. doi: 10.1109/DEIV.2014.6961698	2015

4.	Sandeep Ushkewar, Vikram Shinde, Vishal Dake	“Modeling and analysis of split core pulse transformer for solid state modulator”	Scopus Indexed National Journal of Electrical system (proceedings of ICECCT 2017)	2017
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International Conference

Sr. No.	Authors	Title of paper	Publisher	Year
1.	Sandeep Ushkewar, Vishal Dake, Vikram Shinde	“Designing of Solid State Pulse Power Modulator by Fabrication of Pulse Transformer”	2017 IEEE International Conference on Innovations in Power and Advanced Computing Technologies [i-PACT2017] at VIT Vellore, India.	2017
2.	Sandeep Ushkewar, Vikram Shinde, Vishal Dake	“Modeling and analysis of split core pulse transformer for solid state modulator”	2017 Second IEEE International conference on Electrical, Computer and communication Technologies at Coimbatore, India.	2017
3	Nilesh R. Ahire and Vishal Dake,	"Analysis of Voltage Profile, its Issues and Mitigation Techniques used In Western Regional Grid of India,"	2018 Fourth International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB), Chennai, 2018	2018
4	Teja Mhatre, Vishal Dake	“Design and optimization of 20 KW bidirectional DC-DC converter and comparison of different topology”	2019, 2nd international conference on intelligent computing, instrumentation and control technology, July 2019.	2019

5	Harsha Mahore, Vishal Dake	“Modelling and analysis of grid integrated solar system with energy management scheme using battery” 2019,	<u>2nd international conference on intelligent computing, instrumentation and control technology, July 2019.</u>	2019
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WORKSHOP / COURSES ATTENDED

Sr. No.	Organizer	Title	Year
1.	IIT Bombay	Advances in variable structure and sliding mode control• conducted at IIT Bombay	28 May –01 June 2015
2.	Yashada Pune	Training on Moodle Based e-learning Yashada Pune	14-18 Oct. 2015
3	Spce Mumbai	Micro electromechanical System (MEMS) Design, Fabrication and characterization	4– 8 Jan. 2016
4.	Nirma University Ahmadabad	Honing research and publication skills	6-9 Oct. 2016
5	Spce Mumbai	Nano science and nanotechnology : Fundamental, Synthesis and Applications	2-5 Jan. 2017
6	IIT Bombay	Electromagnetic Fields and Waves : Pedagogy and computation	12- 16 Nov. 2018

7	IIT Bombay	E-yantra robotics workshop	28-29 Dec. 2019
8	IIT Bombay	Practical optimization	6-11 January 2020
9	IIT Bombay	FDP : Electrical equipments and machine : Finite element analysis	Sept.-Nov 2020
10	GCE, Karad	Outcome based education : A step towards excellence	11-15 May 2020
11	SPCE, Mumbai	Green Energy	Dec. 2023

WORKSHOP / COURSES CONDUCTED : NIL

Sr. No.	Organizer	Title	Year

ONLINE COURSES

Sr. No.	Organizer (AICTE/ Swayam / NPTEL / Coursera)	Title	Year
1.	Swayam	Electrical equipments and machine : Finite element analysis	Sept.-Nov 2020
2.	Swayam	Digital transformation in teaching learning process	06-22 April 2020

CONFERENCE ATTENDED

Sr. No.	Organizer	Title	Year
1.	ISDEIV society	2015 International Symposium on Discharges and Electrical Insulation in Vacuum (ISDEIV), Mumbai, 2015	2015

CONFERENCE ORGANIZED

Sr. No.	Organizer	Title	Year
1.	IET : PATW	IET: Present around the world	2017

PROJECTS GUIDED

PG Level

Sr. No.	Title of project	Year	Status (Completed/ Ongoing)
1.	“Design and fabrication of split core pulse transformer for prototype solid state pulse power modulator” by Mr. Sandeep Ushkewar,2017	2017	Completed
2.	“Modelling, optimal allocation and assessment of impact of shunt compensation in western regional grid of India” by Mr. Nilesh Ahire, Co-guide Mr. Vivek Pandey,2018	2018	Completed
3.	“Modelling and analysis of grid connected PV system with energy management scheme” by Harsha Mahore, 2019.	2019	Completed

4	“Design of 20 KW DC/DC isolation converter using dual active bridge for application of DC charger for electrical vehicle” by Teja Mhatre,2019	2019	Completed
5	“Design of 2 KW DC/DC isolation converter using dual active bridge for application of DC charger for electrical vehicle” by Teja Mhatre,2019	2019	Completed
6	“Bi-directional EV charger” by Shraddha Pawar, 2020	2020	Ongoing
7	“Mitigation of SSR problems in power system”, by Madhav gangane, 2020	2020	Ongoing

Ph.D. Level : NIL

Sr. No.	Title of thesis	Year	Status (Completed/ Ongoing)
1.			

SUBJECTS TAUGHT

Sr. No.	Name of subject	UG/ PG
1.	High Voltage Engineering	UG
2.	Electromagnetic field and wave	UG

3	Switchgear and Protection	UG
4	Electric Traction	UG
5	Electric and electronic measurement	UG
6	Basic Electrical Engineering	UG
7	Power system dynamics and control	UG & PG
8	Flexible AC transmission system	PG

ACHIEVEMENT

Sr. No.	Type of achievement	Year
1.	Selected for PhD at IIT Roorkee under quality improvement program	2021
2.	Development of Electromagnetic and waves software lab in 2019	2019

DEPARTMENTAL AND INSTITUTIONAL RESPONSIBILITIES

Sr. No.	Type of responsibility	Department / Institute	Year
1.	Departmental Project co-ordinator	Department	2015- to till date

2.	Co-coordinator of first year engineering FC and ARC activity	Institute	2017-2020
3	Member of institute library committee.	Institute	2019-20
4	Member of institute building and works committee	Institute	2018-2020
5	Member of institute obsolete committee.	Institute	2018-2020
6	Lab in charge of Electrical and electronic measurement lab, PG hardware lab.	Department	2018-2020
7	Lab incharge of newly developed high voltage laboratory for electrical vehicles	Department	2021
8	Member of BOS for PG	Department	2021

INDUSTRIAL TRAINING ATTENDED : NIL

Sr. No.	Organizer	Title	Year

INDUSTRIAL TRAINING ORGANIZED : NIL

Sr. No.	Organizer	Title	Year
1.			

EXPERT LECTURE CONDUCTED / ORGANIZED :

Sr. No.	Organizer	Title	Year
1.	SPCE	Guest Lectures Dr. Varwandkar, VJTI Mumbai	2018

FUNDED RESEARCH PROJECT : NIL

Sr. No.	Funding agency	Title	Sanctioned amount	Duration with dates	Status (Completed / ongoing)
1.					

REVIEWER :

Sr. No.	Title of journal / conference	Year
1.	Manuscript ID NST-2018-0318 entitled "Analysis and Optimize of High Power Pulse Transformer for SXFEL" Nuclear Science and Techniques Journal, 2018	2018

CONSULTANCY / TESTING / THIRD PARTY AUDIT :

Sr. No.	Organizer	Type of consultancy	Year
1.	Bhiwandi Municipal Corporation	Third Party audit : Supply, fixing and commissioning of Traffic signal at Dharamveer Anand Dighe Chowk, Bhiwandi	2021
2	Bhiwandi Municipal Corporation	Third Party audit :Providing street light arrangement at Amidhara complex to Munisurat building and Saimandir road Kamatghar (Moolbhootsuvidha	2022

		government fund)	
3	Bhiwandi Municipal Corporation	Third Party audit :Providing street light arrangement at Narmada Nagar Nala to Narpoli gaon Sai Baba mandir (Mool Bhoot suvidha govt. fund)	2022
4	Bhiwandi Municipal Corporation	Third Party audit :Providing street light arrangement at Ramchandra Hotel to Vasai Highway Hanuman Mandir (Mool Bhoot Suvidha Government Fund)	2022
5	Bhiwandi Municipal Corporation	Third Party audit : Estimate for Supply, fixing and commissioning of Traffic signal at Rajiv Gandhi Chowk, Bhiwandi	2022
6	Bhiwandi Municipal Corporation	Third Party audit : Design, supply, installation and commissioning of 20 kW on grid roof top solar system on BNCCMC prabhag samite no. 3 Adm. Building Padmanagar, Bhiwandi	2022
7	Bhiwandi Municipal Corporation	Third Party audit : Estimate for Supply, fixing and commissioning of Traffic signal at Bhadwad Temghar Naka Chowk, Bhiwandi	2022
8	Bhiwandi Municipal Corporation	Third Party audit : Supplying and erecting Highmast at (1) Mishkat Masjid at Raoji Nagar at ward no. 9 (2) Rehmatpura Qabrastan at ward no. 11, Bhiwandi	2023
9	Bhiwandi Municipal	Third Party audit : Providing street light arrangement from Anjurphata railway bridge to Tirupati Hospital Padmanagar	2023

	Corporation	(Dhamankar Naka), Bhiwandi	
10	Bhiwandi Municipal Corporation	Third Party audit : Supplying and erecting street light arrangement at Devji Nagar to Sathe Nagar and Sathe Nagar Pump room to Agra Road (Lokshahir Anna Bhau Sathe Nagari Vasti Sudharana Yojana Fund)	2023
11	Ambarnath Municipal Council	Third Party audit : Supply, fixing and commissioning of Traffic signal at Forest Naka, Ambarnath	2023
12	Ambarnath Municipal Council	Third Party audit : Supply, fixing and commissioning of Traffic signal at Gandhi Chowk, Ambarnath	2023
13	Ambarnath Municipal Council	Third Party audit : Supply, fixing and commissioning of Traffic signal at Mataka Chowk, Ambarnath	2023
14	AMC	EV, Traffic Signal Ambarnath Municipal Council, Ambarnath	28-11-2023
15	AMC	Supply, Installation, Testing and Commissioning of Outdoor LED Display Board to display air quality at Mataka Chowk in Ambarnath Municipal region	01-03-2024
16	AMC	Supply, Installation, Testing and Commissioning of Outdoor LED Display Board to display air quality at Hutatma Chowk, Administration Building Main Gate and Sitaram Graden in Ambarnath Municipal region	01-03-2024
17	AMC	Supply, Installation, testing and Commissioning of Master / Slave Traffic signal System with CAT cable communication and RF based communication with One comprehensive maintenance during defect Liability period and after that 4 years comprehensive maintenance - Shiv mandir T Point Junction, DMC Chowk,	19-06-2024

		Saibaba Mandir, Shastri Chowk, Samarth Chowk, Palegaon Naka. (6 work)	
18	BNCMC	Supplying and erecting Highmast at various places in the area of Bhiwandi East (Assembly Mulbhoot Soyi Suvidhancha Vikas Yojana).	03-12-2024