

# Faculty Profile



**NAME** Dr Kashyap L Mokariya  
**DATE OF BIRTH** 24/04/1977  
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**ADDRESS** DA-1 Government Officers colony ,Tithal,Valsad

**QUALIFICATION**

- 1) Passed S.S.C exam in March-1992
- 2) Passed H.S.C exam in March-1994
- 3) Passed Diploma in Electrical Engg. with 70.61 in April-1997
- 4) Passed B.E. Electrical from Sardar Vallabhai National Institute of Technology, Surat, Gujarat, India in June - 2003 with 65.57%.
- 5) Passed M.E Electrical (Specialization: -Electrical power system) from B.V.M Engineering College, Sardar Patel University Anand, Gujarat, India in 2010 with 81.25%.
- 6) Received the doctorate degree from SVNIT Surat in year 2020 on Penetration of Electrical Vehicles on Indian Power grid: Feasibility analysis challenges and solutions.

**EXPERIENCE**

- 1) I have worked as an Elect. Supervisor with JITHIN Engg. for Three months.
- 2) I have worked with Reliance Industries Ltd. as Maintenance technician in Captive Power Plant (CPP) for one year.
- 3) I have worked as H.O.D Electrical in S.T.B.S diploma Engineering college for 2.4 years.
- 4) I have worked as Lecturer in Electrical Deptt in MGITER Degree Engineering College at Navsari for two years.
- 5) I have worked a Head Electrical Engineering department at Sigma Vadodara for one year.
- 6) I have worked as Assistant Professor head Electrical Engineering department at Government Engineering College Valsad from 1/4/2010 to 9/12/2013.
- 7) I have worked as Assistant professor Electrical at Dr S&SS Ghandhy Government Engineering College Majura Gate Surat from 10/12/2013 to 4/12/2018.

<b>Skills and knowledge</b>	<p>At present working as Assistant Professor and head of Electrical Engineering department at Government Engineering College Valsad since 05/12/2018.</p> <p>1) I have done Advanced Vocational training in AVTS from Majuragate, Surat on :</p> <p>A&gt; AC motor control starter with Diff. Operation and Star-Delta Starter</p> <p>B&gt; AC-Three Phase motor maintenance.</p> <p>C&gt; AC-Single Phase motor maintenance.</p> <p>D&gt; Transformers &amp; Coil winding.</p> <p>2) I have completed modular training in Hi-Tech Centre at Baroda on :</p> <p>A&gt; Electro-Pneumatic Controls</p> <p>B&gt; Programmable Logic Control (PLC)</p> <p>3) I have completed modular training on PLC from Aptech Centre - Surat from which I have acquired sound knowledge On PLC.</p> <p>4) I have passed the CCC+ Examination that is necessary for Government gazzeted officer.</p>
<b>Course taught</b>	<p>I have taught various subjects of Electrical Engineering namely AC and DC machines, Electrical Power system, Power system Protection, Control theory, Circuit and network, Basics of Electrical Engineering, Commissioning Testing and Maintenance of Electrical equipment, Digital circuit, Basic Electronics, Industrial Automation etc.</p>
<b>Training and workshop</b>	<p>1 Two week Induction training program at NITTTR Ahmedabad from 13.2.12 to 24.2.12.</p> <p>2 One week S.T.T.P on Matlab and Simulink on Electrical Engineers at Dr S&amp;SS Ghandhy G.E.C Surat from 25.6.12 to 29.6.12.</p> <p>3 Two week Induction training program phase-2 from 11.3.2013 to 22.3.2013 at Girls polytechnic Surat.</p> <p>4 One day technology incubation workshop at IIT Gandhinagar dated 10.12.2013.</p> <p>5 One week training on DSP and its applications at NITTTR Bhopal from 21.10.13 to 25.10.2013.</p> <p>6 One day Training on Research held at Gangnath Mahadev Trust Chanod Vadodara dated 21.3.14.</p> <p>7 One week short term training programme on Electrical vehicle at S.V.N.I.T Surat from 26.5.2014 to 30.05.2014.</p> <p>8 A three day training on Strategic Leadership and Management of Change at NITTTR Bhopal from 21.7.14 to 23.7.14.</p> <p>9 Two week training on Advances in Electrical Engineering and Allied Disciplines at NITTR Ahmedabad from 08.12.2014 to 19.12.2014.</p>

10 One week STTP on Advanced Engineering optimization through intelligent techniques (AEOTIT) at SVNIT Surat from 22.06.15 to 26.06.2015.

11 One week training on Developing Entrepreneurship skills in students at NITTR Ahmedabad from 4.1.2016 to 08.01.2016.

12 Two week training of Basics of PLC and AC/DC drives at Dr S&SS Ghandhy G.E.C Surat from 16.05.2016 to 27.05.2016.

13 One week training on Basics of Process Instrumentation at Dr S&SS Ghandhy G.E.C Surat from 21.11.2016 to 25.11.2016.

14 One week training on wind and solar power generation at NITTR Ahmedabad from 02.01.2017 to 06.01.2017.

15 One week STTP on Design and control of power Electronics using OPAL-RT at SVNIT Surat from 17.03.2017 to 23.03.2017.

16 One week training at NITTR Ahmedabad on Recent trends in power system management from 22.05.2017 to 26.05.2017.

17 Two-week training on Basics of SCADA, DCS, PCS-7 from 12.06.2017 to 23.06.2017 at Dr S&SS Ghandhy GEC Surat.

18 SSIP faculty development training program at EDII Gandhinagar from 25.02.2019 to 01.03.2019.

19 Training on recent advances and training in power and energy sectors at Vallabh Vidyanagar from 09.12.2019 to 14.12.2019.

20 A certificate course on Comprehensive online Intellectual property rights conducted during 6<sup>th</sup> July 2020 to 14<sup>th</sup> September 2020 from iHUB Gujarat.

21 A certificate course on Nurturing innovation and startup ecosystem conducted during 8<sup>th</sup> September 2020 to 23<sup>rd</sup> October 2020 from iHUB Gujarat.

22 Conducted and coordinated many national/international seminar/workshop throughout the carrier, including Gujarat Energy development agency sponsored workshop and SSIP funded events at Government Engineering College Valsad.

#### **PORTFOLIOS:-**

Working as Head Electrical Engineering department, Looking after coordination of department activities at Government Engineering College Valsad. Working as an SSIP Coordinator of Institute. Looking after activities of GTU Innovation council. Throughout my carrier at I have handled portfolios like Hostel warden, Center of excellence lab in charge for Industrial process automation, PLC, SCADA, Store and write off committee member, Training and placement officer, Sports in charge, Cultural Committee In charge, Incharge of building Electrification, development and Maintenance of Campus, Vishvakarma Yojna Coordinator for Rural Electrification etc. and being part of various committees at Institution time to time.

#### **Research projects:**

In my doctorate work I have designed an Electrical vehicle battery charger with very compact design, adjustable soft start, adjustable internal ramp compensation, brown-out detection and solution to EMI and surge protection with a market compatible price. My doctorate was

completed from SVNIT Surat on 12<sup>th</sup> March 2020 on Penetration of Electrical Vehicles on Indian power grid: Feasibility analysis, challenges and solutions.

## **PUBLICATION**

Paper Publication details during and after doctorate is as under  
International journals

1. Kashyap Mokariya, Varsha Shah, Makarand Lokhande, "Feasibility and penetration of electric vehicles in Indian power grid", published at Waset, International journal of electrical, computer and communication engineering vol 9,no2,2015. (ISI Indexed journal).
2. Kashyap Mokariya, Varsha Shah, Makarand Lokhande, "Impact of Penetration of Electrical Vehicles on Indian Power Grid", published at World Electric vehicle journal Vol 7 - ISSN 2032-6653, 2015 WEVA,pp-0518.(Elsevier Scopus indexed journal).
3. Kashyap Mokariya, Varsha Shah, N P Patidar," Charging of Electric Vehicles in Indian Power Grid Analysis, Challenges, and Solutions", published at International Journal of Engineering Research and Technology. ISSN 0974-3154 Volume 11, Number 2 (2018), pp. 219-241.International Research Publication house. (Scopus Indexed).
4. Kashyap Mokariya, Varsha Shah,"Online tuning of charging-discharging of EV batteries by using adaptive Genetic algorithm", Journal of Advanced Research in dynamical and control system. Institute of advanced scientific research.ISSN 1943023X.(Scopus indexed).
5. Dr K L Mokariya "Solar PV based EV charging in India: The growing start-up ecosystem Analysis, Challenges and solutions" journal Advances in Dynamical Systems and Applications (ADSA).(Scopus Indexed Journal).

### **International and National conferences**

1. Kashyap Mokariya, Varsha Shah, "Online tuning of charging-discharging of EV batteries by using adaptive Genetic algorithm", Paper presented at IOSRD International conference May 2018 Chennai and got the best paper award amongst many national and international papers.
2. Kashyap Mokariya, Varsha Shah, " Bi-directional hybrid controller for V2G and G2V operation", SAE Sponsored ITEC 2015, IEEE international Conference, Chennai India. 27-29 Aug-2015.
3. Dr K L Mokariya, Snehal Patel "Selection and sizing of solar PV Plant for EV Charging", at 3rd International multidisciplinary conference on current research trends 12th July 2021
4. Dr K L Mokariya, Snehal Patel,Patil Ganesh,at National Conference on "Recent Trends and Research in Electrical

Engineering (RTREE-2K21)” Gujcost sponsored Recent Trends and Research in Electrical Engineering (RTREE-2K21)” at SSASIT Surat

**Academic Projects**

I have guided several projects in final year and design engineering projects, has successfully guided two Masters dissertation projects, design engineering projects etc. Got the innovation award from GTU in 2014-15 for Vishvkarma yojna Rural Electrification and energy conservation project. In 2018 got the innovation award from GTU for installation of 1 kW off grid solar PV plants at Dist Surat. Worked as a jury member for GTU project fair at EED RNPIT ISROLI BARDOLI in the month April 2021.

**Patent filled**

1 On 13.11.2019 filled a patent titled Advanced and economical battery charger for Electrical vehicle. It’s published in the journal and at present it is in the final evaluation stages.  
2 Recently filled a patent titled PLC,IOT,Controller based smart,efficient,flexible street light with advanced management control system. Patent is published in journal also.

**Professional Institutional membership**

I am a lifetime member for THE INDIAN SOCIETY FOR TECHNICAL EDUCATION (LM 111178).

**Expert lectures**

1 I have delivered Expert session at Parul Institute of Engineering and technology Baroda on Energy Audit, Energy Efficient Devices & Energy Economics" for all faculties and UG and PG students of Electrical Engineering Degree College on 29th March, 2014.  
2 I have delivered an expert session on Energy economics and Rural Electrification at GNLU Campus Gandhinagar for all Gujarat faculty and students of state government engineering college and government polytechnic on 22.03.2014.  
3 I have delivered an expert session on Energy economics and Sustainable planning at GNLU Campus Gandhinagar for all Gujarat faculty and students of state government engineering college and government polytechnic on 26.09.2015.  
4 Delivered an expert session to final year Electrical Engineering students and faculties of Electrical department on Energy Efficient devices at Shroff S.R Rotary Institute of chemical technology Ankleshwar, Surat, Gujarat on 24/1/15.  
5 Deliver an expert lecture on Induction machine and its applications to students of Dr S&SS Ghandhy college of Engineering college and technology (Government Polytechnic Surat), Gujarat, India.

- 6 Delivered an expert session on creativity innovation and startups for Laxmi Institute Sarigam, where all Gujarat students and faculties were benefited dated 14<sup>th</sup> August 2020.
- 7 Delivered an expert talk at ITM University Vadodara on Energy Efficiency improvement for charging EV on Indian power grid on October 2019.
- 8 Delivered an expert talk at two days Gujcost sponsor workshop titled Recent advancements in Electric Vehicles at S.N Patel Institute of Technology and Research center Bardoli on 20-21 January 2021.
- 9 Delivered an expert talk on Circuit Breaker's: fundamental, operation, maintenance, testing and application at Parul University Vadodara in the Month MAY 2020.
- 10 Delivered a session at SRICT Ankleshwar on Research, Innovation and start-up journey at Engineering Campus on 10<sup>th</sup> September 2020.
- 11 Delivered online session at FETR Bardoli for all Gujarat students and faculties on Penetration of EV on Indian power grid Analysis, challenges and solutions.
- 12 Delivered an expert session at ITM Vocational University Vadodara on Creativity and Startup at University campus organized by ITM vocational University, Vadodara dated 28.06.2021.
- 13 Delivered an expert session dated 17.10.2020 at Girls Polytechnic Surat on Vivekanand Webinar Lecture Series: Student Start Up Innovation Programme (SSIP) for Atmanirbhar Bharat Abhiyan.
- 14 Delivered an expert session at M R Desai Arts and Shri E E Laher Kosada Commerce College Chikhli on Being your own boss Innovation, IPR and Startups.
- 15 Delivered an expert session at ROFEL VAPI dated 26.10.2021 on SSIP Sensitization and Awareness Program on Understanding and building skills on creativity innovation and startups.
- 16 Delivered an expert session at SRICT Ankleshwar dated 10.09.21 on Research, Innovation & Start- Up Journey at Engineering Campus.
- 17 Working as an expert Academia for SSIP Project scrutiny committee member at Government Polytechnic Valsad.
- 18 Delivered an expert session on Green Energy, Social Entrepreneurship, and awareness towards Environment Protection on dated 21.04.2022.
- 19 Delivered an expert session dated 15.04.2022 at Parul Institute of Engineering and Technology-Diploma studies on Design, Development and troubleshooting of the innovative projects.
- 20 Delivered an expert session for three days National Workshop on Design and Implementation of solar rooftop system sponsored by Gujcost at Parul Institute of Engineering and Technology-

Diploma Studies on “ Selection and sizing of solar PV plant for domestic, commercial load and EV Charging and “ Solar pumping system with automation and efficient flow control strategy a boost to Nations economy.

## **AWARDS**

1 Got the Innovation award for work done for village Electrification under Vishwakarma Yojna for villages of Gujarat by honorable Vice chancellor of Gujarat technological University in 2014-15.

2 Got the best paper award at IOSRD International conference Chennai 25-26<sup>th</sup> May 2018 for my paper title “Online tuning of charging-discharging of EV batteries by using adaptive genetic algorithm”.

3 Got the best researcher award in International research award for Engineering science and management On 29<sup>th</sup> September 2018 Chennai India organized by IOSRD.

4 Got the pedagogical innovation award 2019 by Gujarat Technological University on February 2019.

5 Got the best SSIP coordinator second rank Gujarat state award in year 2020 for student startup and innovation activities at Government Engineering College Valsad.

