

BIO-DATA



1.	Name		Ruchi Harchandani			
2.	Designation		Assistant Professor			
3.	Residential Address		A-502, Sai Swar CHS, Sector-2, Kharghar, Navi Mumbai			
4.	Date of birth		18/07/1972			
5.	Total Experience		24 yrs			
	i. Teaching		22 yrs			
	ii. Industrial		2 yrs			
6.	Qualifications					
	Exam Passed	Year	Institution/ University	Branch/Specialization	Percentage/CGPI	
	ME	2012	Mumbai	Electrical/Power Electronics and Drives	78%	
7.	Employment Record					
	Institution		Year (From To)		Designation	
	ELCAPS Capacitors Ltd. Mandideep, Bhopal		March 1995-August 1997		Assistant Engineer	
	LNCT, Bhopal		July 1997- June 2000		Lecturer	
	FCRIT, Vashi		July 2006 – till date		Assistant Professor	
8.	Undergraduate / Postgraduate Teaching Experience and Subjects Taught					
	Subjects Taught at UG level					
	Sr.No.	Name of Subject			Semester	
	1.	Electrical Network			III	
	2.	Electronic Instruments and Instrumentation			IV	
	3.	Signal Processing			V	
	4.	Power Electronics			VI	
	5.	Control System			VI	
	6.	Basic Electrical Engineering			V	
	7.	Power Quality			VIII	
	8.	Flexible AC Transmission System			VIII	
	9.	Industrial Electronics			IV Mechanical	
	10.	Electrical Power System			VI	
	Subjects Taught at PG level					
	Sr.No.	Name of Subject			Semester	
	1.	Applications of power electronics in power system			ME Sem I	
	2.	Power Quality			ME Sem II	
	3.	EHV AC Transmission System			ME Sem II	
	4.	Flexible AC Transmission System			PhD	
9.	Research Experience					
	Research Grants:					
	Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project
	1	Mumbai University	Minor Research grant	20,000	2015	Implementation of PFN Based Solid State Marx Generator using DSP

	2	Mumbai University	Minor Research grant	30,000	2019-20	Implementation of Ultra-wide Band Marx Generator with Improved PFN Typology for Antenna Load
10.	Professional Societies Fellowship / Membership – ISTE, IEI					
11.	1. Achievements / Awards / Position – Best Paper award for paper titled “Design and Simulation of 15 KV, 15 Stage Solid State Bipolar Marx Generator” ICRTCCS International Conference, in Jan, 2016.					
12.	Projects guided in UG/PG level – Two PG projects as co-guide, two PG projects as guide and around Fifteen undergraduate projects					
14.	Short Term Training Programmes attended <ol style="list-style-type: none"> 1. Short Term Training Program on ‘MATLAB APPLICATIONS IN ENGINEERING’ at LTCOE, Koparkhairne in 2007. 2. STTP on ‘Workshop on Advanced Control System’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2013. 3. STTP on ‘Electromagnetic Fields and its applications’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2014. 4. STTP on ‘Structured Programming Approach’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2014. 5. STTP on ‘Software tools for Reseachers’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2015. 6. STTP on ‘Reliability in Electrical and Electronic Systems’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2017. 7. Short Term Training Programme on “Electric and Hybrid Electric Vehicle Technology” at Fr. C. Rodrigues Institute of Technology, Vashi in 2018. 8. Online Short Term Training Programme on “Learning Pedagogy and Effective use of Case Methodology” during 17-05-2020 to 21-05-2020 by Adoption of Social Media in Academics(ASMA) 9. Online Short Term Training Programme on “Moodle Learning Management System” during 26-05-2020 to 30-05-2020 at K J Somaiya Institute of Engineering and Information Technology, Sion 10. Online Short Term Training Programme on “Digital Transformation in Teaching Learning Process” during 18-1-2021 to 22-1-2021 at Computer Dept. of FCRIT Vashi 11. Online Short Term Training Programme on “DSP, Arduino and C/Python” at Fr. C. Rodrigues Institute of Technology, Vashi from 10th May to 14th May 2021 12. Online Faculty Development Programme on “Power Electronic Systems and its Real Time Control Implementation in DSP” from 08/11/2021 to 12/11/2021 at Fr. Rodrigues Institute of Technology. 13. Online Faculty Development Programme on “Artificial Intelligent Techniques applied to Power Systems” from 13/12/2021 to 17/12/2021 at Vasavi College of Engineering. 14. ISTE approved SF-STTP/FDP Programme on “Power Electronics and Drives” during 31.10.2022 to 04.11.2022 at Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Maharashtra 15. One week FDP on Innovative Practices in Teaching Learning Process from 19th to 23rd December 2023 16. One week online “Industrial Training on Machine Learning and Artificial Intelligence” Organized by EduLakes Solutions LLP, held during 20th - 24th May 2024. 17. Twelve week NPTEL course on “Design of Photovoltaic Systems” Jul-Oct 2024. 					

15.	<p>List of Journal Papers Published</p> <ol style="list-style-type: none"> 1. Ruchi Harchandani and Bindu R, “Automation of Kiln mill drive using PLC and SCADA”, International Journal of Engineering Research and Technology, Vol 3, Issue 1, ISSN 2276-0181, Jan 2014. 2. Ruchi Harchandani and Rashmi Kale, “Selection of Effective mitigation method for in rush current in power transformer”, IJATES, Vol 2, issue 5, ISSN- 2348-7550, May ‘14 3. Ruchi Harchandani, Bindu S, “Solid state Bipolar Marx Generator Topologies: A Comparative study”, International Journal Of Engineering Research and Technology (IJERT) ICNTE-2015 Conference Proceedings, 9-10 Jan 2015 4. Seema Jadhav, Ruchi Harchandani “Grid Interfacing Technologies for Distributed Generation and Power Quality issues-A review” International Journal of Innovative and Emerging Research in Engineering, ISSN:2394-3343, Vol 2, Issue 3 March 2015 5. Aditya Tare, Amol Pednekar, Nisha Thite, Winson Nadar, Ruchi Harchandani “Design of PFN Based Bipolar Marx Generator” International Conference on Advancement in Science, Technology and Management 23rd and 24th December, 2021, S.B. Jain Institute of Technology, Management and Research, Nagpur (India) (Publication in Samriddhi:JPSET, a UGC listed Journal) 6. Anand Unnikrishnan, Anto Sen, Astitva Anant, Ahmed Uzair, Ruchi Harchandani “Keypad and Smartphone based Digital Door Lock” International Journal of Applied Engineering and Technology Vol. 5 No. 4 (December, 2023)
16.	<p>List of Papers Published in National and International Conferences</p> <ol style="list-style-type: none"> 1. Ruchi Harchandani and Mini Rajeev, “Comparative study of Boost and Buck converter topologies used for solar photovoltaic stand-alone systems”, National conference on Non-conventional energy sources for Rural Development, P.G.M. C.O.E. Pune. 31st Jan 2009 2. Ruchi Harchandani and Mini Rajeev, “Study of replacing CFL by LED for solar powered street light in stand-alone system”, National conference on Nascent Technologies in engineering, NCNTE 2010, FCRIT Vashi, pp. 75-79. 26-27th February, 2010 3. Ruchi Harchandani and Bindu R, “Automation of motors used in cement industry using PLC and SCADA”, National conference on 'Advances in Engineering Technology and Management, Zenith 4. Ruchi Harchandani and Bindu R, “Automation of Raw Mill Drive in Cement Industry Using PLC and SCADA”, International conference on 'Recent Advances and Challenges in Engineering and Management' 5. Ruchi Harchandani, Bindu R, “Efficient Speed Control using Variable Frequency Drive in Cement Industry- A Review” National conference OPTTEST-2012, 20-21 April, 2012 6. Rashmi Chougale, Ruchi Harchandani, Bindu S “Design and Simulation of 15 KV, 15 Stage Solid State Bipolar Marx Generator” ICRTCCS, International Conference Proceedings, 8-9 Jan, 2016. 7. Rashmi Chougale, Ruchi Harchandani, Bindu S “Design and Hardware Implementation of Two Stage Solid State Bipolar Marx Generator” 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), 20-21 May, 2016. DOI: 10.1109/RTEICT.2016.7807910 8. Ruchi Harchandani, Pramila Gorade “Pulse Forming network for Marx generator with Boosting Operation” RTEICT 2017 International Conference proceedings, 19-20 May 2017. DOI: 10.1109/RTEICT.2017.8256903 9. Harshada Gawde, Ruchi Harchandani “Comparison of Pulse forming Networks for Marx Generator” IEEE Xplore, IEEE International Conference

on Nacent Technologies in Engineering, ICNTE 2017, Jan 27-28, 2017
DOI: [10.1109/ICNTE.2017.7947939](https://doi.org/10.1109/ICNTE.2017.7947939)

10. Harshada Gawde, **Ruchi Harchandani** “Pulse Forming Network with Optimized Pulse Power and Rise” IEEE 2017 International Conference on Advances in Computing, Communication and Control (ICAC3'17) December 1-2, 2018 DOI: [10.1109/ICAC3.2017.8318762](https://doi.org/10.1109/ICAC3.2017.8318762)
11. **Ruchi Harchandani**, Pramila Gorade “Simulation of Three Stage PFN based Marx Generator with Boosting Operation” FEAST 2018 International Conference on Frontiers in Engineering, Applied Sciences and Technology, April 27- 28, 2018
12. Bhosale Harshada, Kale Rashmi, **Harchandani Ruchi** “Significant Role, Design and Stability Analysis of Flyback Converter for Renewable Energy Source” International Conference on Advances in Computing, Communication and Control (ICAC3) 2019 DOI: [10.1109/ICAC347590.2019.9036790](https://doi.org/10.1109/ICAC347590.2019.9036790)
13. Sutej Mota, Parth Parab, Avadhut Gopale Shekhar Prasad, **Ruchi Harchandani**, “Generation of DC High Voltage Pulse for Hipot Testing using PFN based Marx Generator” International Conference on Computing and Control Systems ICICCS 2019 (15-17 May 2019)
14. Aqsa Shaikh, **Ruchi Harchandani** “Implementation of Ultra-Wide Band Marx Generator with Improvised PFN Topology for Antenna Load” 8th International Conference on Power Systems “Transition Towards Sustainable, Smart and Flexible Grids” (20th – 22nd December 2019)
15. Seema Jadhav, **Ruchi Harchandani** “Performance Characteristics Analysis for Solar PV Module” IEEE Xplore, IEEE International Conference on Nacent Technologies in Engineering, ICNTE 2023, Jan 20-21, 2023
16. Rupali Saha, Bindu S, **Ruchi Harchandani** “Cockcroft-Walton Voltage Multiplier based High Gain DC-DC Converter as DC Source for Impulse Load” 2023 World Conference on Communication & Computing (WCONF), IEEE Xplore, DOI: [10.1109/WCONF58270.2023.10235205](https://doi.org/10.1109/WCONF58270.2023.10235205)