

## BIO-DATA



Recent Photograph

<b>1.</b>	<b>Name</b>	Ruchi Harchandani				
<b>2.</b>	<b>Designation</b>	Assistant Professor				
<b>3.</b>	<b>Residential Address</b>	A-502, Sai Swar CHS, Sector-2, Kharghar, Navi Mumbai				
<b>4.</b>	<b>Date of birth</b>	18/07/1972				
<b>5.</b>	<b>Total Experience</b>	20 yrs				
<b>i.</b>	<b>Teaching</b>	18 yrs				
<b>ii.</b>	<b>Industrial</b>	2 yrs				
<b>6.</b>	<b>Qualifications</b>					
	<b>Exam Passed</b>	<b>Year</b>	<b>Institution/ University</b>	<b>Branch/Specialization</b>	<b>Percentage/CGPI</b>	
	ME	2012	Mumbai	Electrical/Power Electronics and Drives	78%	
<b>7.</b>	<b>Employment Record</b>					
	<b>Institution</b>	<b>Year (From To)</b>		<b>Designation</b>		
	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		
<b>8.</b>	<b>Undergraduate / Postgraduate Teaching Experience and Subjects Taught</b>					
	<b>Subjects Taught at UG level</b>					
	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 I			VI	
	6.	Control System II			VII	
	7.	Basic Electrical Engineering			I	
	8.	Power Quality			VIII	
	8.	Flexible AC Transmission System			VIII	
	<b>Subjects Taught at PG level</b>					
	Sr.No.	Name of Subject			Semester	
	1.	Applications of power electronics in power system			I	
	2.	Power Quality			II	
	3.	EHV AC Transmission System			II	
<b>9.</b>	<b>Research Experience</b>					
	<b>Research Grants:</b>					
	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 Improvised PFN Typology for Antenna Load
<b>10.</b>	<b>Professional Societies Fellowship / Membership - ISTE</b>					
<b>11.</b>	1. <b>Achievements / Awards / Position</b> – Best Paper award for paper titled “Design and Simulation of 15 KV, 15 Stage Solid State Bipolar Marx Generator” <a href="#">ICRTCCS</a> International Conference, in Jan, 2016.					
<b>12.</b>	<b>Projects guided in UG/PG level</b> – Two PG projects as co-guide, two PG projects as guide and around Ten undergraduate projects					
<b>14.</b>	<b>Short Term Training Programmes attended</b> <ol style="list-style-type: none"> <li>Short Term Training Program on ‘MATLAB APPLICATIONS IN ENGINEERING’ at LTCOE, Koparkhairne in 2007.</li> <li>STTP on ‘Workshop on Advanced Control System’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2013.</li> <li>STTP on ‘Electromagnetic Fields and its applications’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2014.</li> <li>STTP on ‘Structured Programming Approach’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2014.</li> <li>STTP on ‘Software tools for Reseachers’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2015.</li> <li>STTP on ‘Reliability in Electrical and Electronic Systems’ at Fr. C. Rodrigues Institute of Technology, Vashi in 2017.</li> <li>Short Term Training Programme on “Electric and Hybrid Electric Vehicle Technology” at Fr. C. Rodrigues Institute of Technology, Vashi in 2018.</li> <li>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)</li> <li>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</li> <li>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</li> <li>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</li> <li>Online Atal 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.</li> <li>Online Atal Faculty Development Programme on “Artificial Intelligent Techniques applied to Power Systems" from 13/12/2021 to 17/12/2021 at Vasavi College of Engineering.</li> <li>“ETAP Professional Training 2022” from 25-26 April 2022</li> </ol>					
<b>15.</b>	<b>List of Journal Papers Published</b> <ol style="list-style-type: none"> <li>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.</li> <li>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</li> <li>Ruchi Harchandani, Bindu S, “Solid state Bipolar Marx Generator Topologies: A Comparative study”, International Journal Of Engineering</li> </ol>					

	<p>Research and Technology (IJERT) ICNTE-2015 Conference Proceedings, 9-10 Jan 2015</p> <ol style="list-style-type: none"> <li>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</li> <li>5. 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 &amp; Communication Technology (RTEICT), 20-21 May, 2016. DOI: <a href="https://doi.org/10.1109/RTEICT.2016.7807910">10.1109/RTEICT.2016.7807910</a></li> <li>6. 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)</li> </ol>
<p><b>16.</b></p>	<p><b>List of Papers Published in National and International Conferences</b></p> <ol style="list-style-type: none"> <li>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</li> <li>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</li> <li>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</li> <li>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'</li> <li>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</li> <li>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.</li> <li>7. Ruchi Harchandani, Pramila Gorade “Pulse Forming network for Marx generator with Boosting Operation” RTEICT 2017 International Conference proceedings, 19-20 May 2017. DOI: <a href="https://doi.org/10.1109/RTEICT.2017.8256903">10.1109/RTEICT.2017.8256903</a></li> <li>8. 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: <a href="https://doi.org/10.1109/ICNTE.2017.7947939">10.1109/ICNTE.2017.7947939</a></li> <li>9. 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: <a href="https://doi.org/10.1109/ICAC3.2017.8318762">10.1109/ICAC3.2017.8318762</a></li> <li>10. 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</li> <li>11. Sutej Mota, Parth Parab, Avadhut Gopale Shekhar Prasad, Ruchi Harchandani, “Generation of DC High Voltage Pulse for Hipot Testing using</li> </ol>

	<p>PFN based Marx Generator” International Conference on Computing and Control Systems ICICCS 2019 (15-17 May 2019)</p> <p>12. Aqsa Shaikg, 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)</p>
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