



# NATIONAL CONFERENCE ON EMERGING VISTAS OF TECHNOLOGY IN 21<sup>ST</sup> CENTURY

14<sup>th</sup> & 15<sup>th</sup> April, 2012

Organized By  
GUJARAT TECHNOLOGICAL UNIVERSITY,  
AHMEDABAD



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Parul Institute of  
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The Indian Journal of Technical Education &  
Indian Society for Technical Education

## Technical Sessions & Paper Presentation Schedule

Date : 14<sup>th</sup> April, 2012 (Day-1)

### “FUTURISTIC TRENDS IN ELECTRICAL ENGINEERING”

DATE	Time	TOPIC	VENUE	
14 <sup>th</sup> April 2012	8:30 to 9:30	Registration & High Tea	Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat	
	9:30 to 11.30	Inaugural Function		
	11.30 to 12:30	Lunch Break		
	12:30 to 13:00	TECHNICAL SESSION – I Dr M. V. Aware, VNIT, Nagpur. Speaker and Chair Person – <i>Distributed Generation in Smart Grid:-Towards Realization of a low-carbon society</i>		
	13:00 to 14:30			<i>Three-Phase Four-Wire (3P4W) Unified Power Quality Conditioner (UPQC) with Synchronous Reference Frame Based Control Strategy.</i>  <i>Shruti K. Parmar- M. S. University, Baroda</i> <i>Pramod S. Modi, S. K. Joshi</i>
				<i>19 level PWM Inverter with Cascaded Transformers.</i> <i>Deepa B. Karvat-</i> <i>Hina Chandwani, Divyeshkumar G. Mangroliya</i> <i>Parul Institute of Engineering &amp; Technology, Vadodara</i>
				<i>Sensor-less SVM-DTC Method for Three-Phase Induction Motor for Minimization of Torque and Stator Current Ripple.</i>  <i>Shilpa B. Prajapati - M. S. University, Baroda</i> <i>Pramod S. Modi</i>
				<i>Fuzzy Logic Controller for High Performance of Induction Motor Drive.</i>  <i>Devangi Bhadreshwar- BBIT, V. V. Nagar</i> <i>Sheetal S. Shinkhede, N. M. Vyas, Girish V. Jadhav</i>
				<i>Simulation of Diode Clamped Inverter Controlled by Sinusoidal Pulse Width Modulation.</i>  <i>Sanat P. Kachhadiya- L. E. College, Morbi</i> <i>M. V. Makwana</i>
				<i>Study and Simulation of Three Phase Voltage Source Inverter in Different Conduction MODES.</i>  <i>Divyeshkumar G. Mangroliya- L. E. College, Morbi</i> <i>Deepa B. Karvat, Hirenkumar D. Patel</i>
<i>Sliding Mode Control of an Induction Motor.</i> <i>Binal N. Modi</i> <i>- Parul Institute of Engineering &amp; Technology, Vadodara</i>				
14:31 to 14:45			TEA BREAK	



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14 <sup>th</sup> April 2012	14:46 to 15:15	<b>TECHNICAL SESSION – II Mr. G. V. Akre - M.D. High Volt Trans, Halol, Speaker and Chair Person- Emerging Trend in Electrical Power Sector</b>	<b>Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat</b>
	15:15 to 17:00	<i>Hysteresis Based Control Strategy of UPQC for Flexible Power.</i>  <i>Shruti K. Parmar- M. S. University , Baroda Prmod S. Modi, S. K. Joshi</i>	
		<i>Analysis of Control System and Implementation for Speed Control of DC Motor Using PIC 16F877A</i>  <i>Payal P. Raval- Nirma University, Ahmedabad Jignesh Kania, C. R. Mehta</i>	
		<i>Emerging Trends in Power Electronics and Power System</i>  <i>A. M. Haque- L. E. College, Morbi M. V. Makwana</i>	
		<i>Transmission Congestion Alleviation in Restructured Power System</i>  <i>R. D. Bhagiya- L. D. College of Engg., Ahmedabad Hitarth Buch, B. A. Shah, Bhavik Suthar</i>	
		<i>Designing and Prototyping Automatic Synchronizers for Paralleling of Alternators</i>  <i>Vihang M. Dholakiya- Nirma University, Ahmedabad Devendra P. Parmar, Santosh C. Vora</i>	
		<i>Brief Automization Techniques for Mapping, Localization, Path Planning and Execution</i>  <i>Girish V. Jadhav- Parul Institute of Engineering &amp; Technology, Limda, Vadodara</i>	
		<i>Sheetal S. Shinkhede</i>	



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## Technical Sessions & Paper Presentation Schedule

Date : 15<sup>th</sup> April, 2012 (Day-2)

### “FUTURISTIC TRENDS IN ELECTRICAL ENGINEERING”

DATE	TIME	TOPIC	VENUE
	8:30 to 09:00	TEA BREAK	
	09:00 to 09:30	TECHNICAL SESSION – III Professor D. Thukaram, IISc, Bangalore. <i>Application of SVMs and ANNs for Post-Fault Analysis and Restoration of Power Networks</i>	
15 <sup>h</sup> April 2012	09:30 to 11:15	<i>Modeling And Simulation of Grid Connected Photovoltaic System Using MATLAB/Simulink.</i>  <i>Hiren B. Patel- BVM College of Engineering and Technology, V. V. Nagar</i> <i>Gaurang Sharma</i>	Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat
		<i>Comparative Study of Permanent Magnet Synchronous Generator for Wind Energy Conversion System.</i> <i>Manish M. Pandya</i> <i>Parul Institute of Engineering &amp; Technology, Vadodara</i>	
		<i>Passive Filters and Enhancement of Power Quality in Distribution System.</i> <i>Arul Ponnusamy- Anjali R. Nair, A. Dinesh Kumar</i> <i>Jayaram College of Engineering &amp; Technology</i>	
		<i>Forecasting Daily Urban Electric Load Profile Using ANN</i>  <i>R. A. Vyas- Govt. Engg. College, Bhuj</i> <i>H. D. Mehta, P.H. Trivedi</i>	
		<i>Stability of VSC-HVDC System Using Fuzzy Controller.</i>  <i>M. Rames- Jawaharlal Nehru Technological University, A.P.</i> <i>A. Jaya laxmi</i>	
		<i>Application of Fuzzy Interference System to AVC relay.</i>  <i>Ronak Prajapat- Govt. Engg., College, Bhuj</i> <i>Zankhana Pandya</i>	
		<i>PMU Placement in IEEE 14-bus System and an Aspect on Transmission Line Fault Detection.</i>  <i>Narendra C. Mahavadia- Nirma University, Ahmedabad</i> <i>Santosh C. Vora</i>	
		11:15 to 12:00	



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### “FUTURISTIC TRENDS IN ELECTRICAL ENGINEERING”

DATE	TIME	TOPIC	VENUE	
15 <sup>th</sup> April 2012	12:00 to 12:30	<b>TECHNICAL SESSION-IV Professor R. K. Pandey- IT, Banaras Hindu University, Varanasi</b> <i>Power System Operational Challenges in Open Access Regime</i>	<b>Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat</b>	
	12:30 to 14:15	<i>Soft-I-Robot using neural networks &amp; Genetic Algorithm.</i> <b>S. Santhosh- Pannai College of Engineering and Technology, Sivagangai, Tamil Nadu</b>		
		<i>PV Based Power Quality Conditioner for a Single Phase Distribution System.</i> <b>Arul Ponnusamy- Jayaram College of Engineering &amp; Technology Manojkumar Nagarajan, Arvinth S.</b>		
		<i>Sensorless BLDC Motor Controller.</i> <b>Pragnesh A. Mistry- M. S. University, Baroda Hiren M. Shah</b>		
		<i>Forecasting Monthly Electrical Load for A Fast Growing Utility Using ANN.</i> <b>R. A. Vyas- Govt. Engg., College, Bhuj H. D. Mehta, P. H. Trivedi, N. R. Bhadauria</b>		
		<i>Simulation Of Shunt Active Filter for Harmonic Mitigation Using P-Q &amp; ABC Theory in Distribution System.</i> <b>Pulin J. Purohit- L. D. College of Engg., Ahmedabad A. D. Joshi</b>		
		<i>A Review on Control Strategies of Electric Vehicle Propulsion System</i> <b>Rital R. Gajjar</b> <i>Parul Institute of Engineering &amp; Technology, Vadodara</i>		
		14:16 to 14:30		<b>TEA BREAK</b>



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15 <sup>h</sup> April 2012	14:30 to 15:00	<b>TECHNICAL SESSION- V Dr. Sivkumar K.- IIT, Hyderabad.</b> <b>Multilevel inverter topologies for induction motor drive applications</b>	<b>Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat</b>	
	15:00 to 16:30	<i>A High Power Factor Switched Mode Power Supply Using Push-Pull Topology</i>  <i>Gunjan J. Tetar- L. E. College, Morbi</i> <i>M. H. Ayalani</i>		
		<i>An Advanced Simple Circuit of AC Chopper for Single-Phase System With Easy Control</i>  <i>Yogirajsinh M. Gohil- L. E. College, Morbi</i> <i>Divyeshkumar G. Mangroliya, Vinod Patel</i>		
		<i>Performance &amp; Comparison Of Single Phase Controlled Converters Using Matlab &amp; Psim</i>  <i>Santosh Singh Raghuwanshi- L. D. College of Engg., Ahmedabad</i> <i>Ankita Singh</i>		
		<i>An Active Modulation Technique for Single Phase Grid Tie Inverter Using PIC</i>  <i>Janak K. Sorathiya- L. E. College, Morbi</i> <i>M. V. Makwana</i>		
		<i>Application of Advance Genetic Algorithm Operators for Economic &amp; Environmental Load Dispatch</i>  <i>Falguni M. Bhavsar</i> <i>Parul Institute of Engineering &amp; Technology, Vadodara</i>		
		<i>A Comparative Study and Review of Immune, Swarm &amp; Evolutionary Algorithms Used for Solutions of Engg Problems</i>  <i>Prafulla K. Bamaniya- Govt. Engg., College, Bhuj</i> <i>A. M. Kubavat</i>		
		16:31 to 17:00		<b>VALEDICTORY FUNCTION</b>