



# 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



: Supported By :  
Parul Institute of  
Engineering & Technology

: Publication Partners :  
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)

“Green City”

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 Eldho T. I., IIT Bombay, Speaker and Chair Person – Groundwater Pollution Remediation Design using Simulation Optimizations Models	
	13:01 to 14:30	Electrocoagulation –A Promising, Sustainable Technology for Sewage Treatment <i>Vishal Gauravbhai Dave, Prof.(Dr.) Nanik Sobhraj Varandani</i> <i>L.D. College of Engineering, Ahmedabad</i>	
		Environmental Impact of Shrimp Farming on Coastal Wetland in Uttar Kannada District <i>Prof. Shridhar M. Yallurkar, Dr. Sandeep J.Nayak</i> <i>Anjuman Engineering College Bhatkal, Karnataka</i>	
		Enrichment of Biogas by Using Pressure Swing Adsorption <i>Mitul Manojkumar Doshi, Huma Syed</i> <i>L.D.College of Engineering,. Ahmedabad</i>	
		River Water Quality Management Options Using Modelling Approach - Case Study of Sabarmati River <i>Pooja D. Shah</i> <i>L.D. College of Engineering, Ahmedabad, Gujarat</i>	
		Aerobic Treatment of Dairy Wastewater Using Diffuse Aeration System <i>Mitali J. Shah</i> <i>Sarvajanik College of Engineering &amp; Technology, Surat</i>	
		Design of Pilot Reactor for Biodegradation of Municipal Solid Waste <i>K.P. Jasodani</i> <i>L.D. College of Engineering, Ahmedabad</i>	
Study of Pore Water Pressure in Ukai Dam <i>Vandana Bhatt, N. J. Shrimali, S.P. Rana</i> <i>M.S.University of Baroda</i>			
Estimation of Most Critical Rainfall for Surface Drainage <i>Shilpa Chavada, S.A. Trivedi</i> <i>Lukhdhirji Engineering College, Morbi</i>			



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DATE	TIME	TOPIC	VENUE
	14:30 to 14:45	Tea Break	
	14:45 to 15:15	<b>TECHNICAL SESSION – II Dr. J.N. Mandal, IIT Bombay, Speaker and Chair Person</b> <b>Novel Techniques for Ground Improvement in India</b>	
14 <sup>th</sup> April 2012	15:16 to 17:00	Influence of Oil Contamination on Geotechnical Properties of Clayey Soil <i>Arpita Patel V</i> <i>Parul Institute of Engineering &amp; Technology</i>	
		Critical Appraisal of Consolidation by Radial Seepage Flow Using PVD Reinforced Clay Beds <i>R.P. Shrivastava, D. T. Shete, A.V. Shroff</i> <i>Parul Institute of Engineering &amp; Technology</i>	
		Effect of Contamination on Soil Properties and it's Remediation <i>Nirali Y. Parmar</i> <i>Parul Institute of Technology</i>	
		Theory of Consolidation through Radial Drainage for Soft Soils Using Vertical Drains <i>M.V. Shah, A.V.Shroff</i> <i>L.D.College of Engineering, Ahmedabad</i>	
		Field Calibration of Mahi Head Regulator at Wanakbori Using Visual Basic 6.0 <i>Ambrish S Dave, D.T.Shete</i> <i>Water Resources Engineering and Management Institute Maharaja Sayajirao University of Baroda, Samiala</i>	
		Study of Rainfall Pattern and Computations of Depth of Rainfall for Sukhi Dam Catchment Area <i>Mehul Sharma, N. J. Shrimali, S.S.Mujmudar</i> <i>Parul Institute of Technology</i>	
		Estimation of Runoff Using Remote Sensing and GIS for Lower Mahi River Basin, Gujarat <i>Soumaya Iyer, Geeta S. Joshi</i> <i>M.S. University of Baroda</i>	
		Hydraulic Modeling of Narmada Diversion Canal of Kalpsar Project Using “Hec-Ras” <i>Shilpa A. Pathak, H. M. Patel</i> <i>M.S. University of Baroda</i>	
		Study of quality of Groundwater of Vadodara City <i>S.B.Shah, S.S. Mujmudar, A.S.Patel</i> <i>M.S. University of Baroda</i>	



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## Technical Sessions & Paper Presentation Schedule

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

### “Green City”

DATE	TIME	TOPIC	VENUE
	8:30 to 09:00	Tea	
	09:00 to 09:30	<b>TECHNICAL SESSION – III Dr. Deepak Khare, IIT Roorkee, Speaker and Chair Person</b> <b>Green City - Urban Rain Water Harvesting</b>	
	09:31 to 11:15	Study of Time Series and Autocorrelation Plots - Case Study of Panam Catchment Area, Gujarat, India <i>N.A. Bhatia, T.M.V. Suryanarayana</i> <i>Water Resources Engineering and Management Institute Maharaja Sayajirao University of Baroda, Samiala</i>	
		Evaluation of the Irrigation Project for Hydro Power Extension - Case of Karjan Reservoir Project, Gujarat <i>Leena M. Hire, Geeta S. Joshi</i> <i>M. S. University, Baroda, Vadodara, Gujarat</i>	
		Evapotranspiration Estimation Using Artificial Neural Network Considering Temperature Data in Sabarmati River Basin <i>Veena Jadeja, N.J. Shrimali</i> <i>S.S.Engineering College, Bhavnagar, Gujarat</i>	
15 <sup>th</sup> April 2012	09:31 to 11:15	Characterizing Catchment Area Of Panam Dam I - Morphometrical Analysis <i>Shweta Deodhar, D.T.Shete</i> <i>Mott MacDonal Pvt. Ltd.</i>	Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat
		Characterizing Catchment Area Of Panam Dam II - Morphometrical Analysis <i>Shweta Deodhar, D.T.Shete</i> <i>Mott MacDonal Pvt. Ltd.</i>	
		A New Economic Shape of Weir :- Piano Key Weir <i>Vinod Ujeniya, V.M.Patel. H.M.Gandhi</i> <i>S.S. Engineering College, Bhavnagar, Gujarat.</i>	
		Assessment of Downstream Impacts and Quantification of Loss for Project <i>Maya Rajnarayan Ray, Arup Kumar Sarma</i> <i>Department of Civil Engineering, SRMEM, Lucknow</i>	
		Surface Water Management on Salt Affected Lands of Rann of Kutchh <i>Ravi Gurnani, Bipin H. Pandit</i> <i>Lukhdhirji Engineering College, Morvi, Gujarat.</i>	
		Climatic Variability and Crop Weather Model of Wheat Crop for Vallabh Vidhyanagar <i>Falguni Parekh, T M V Suryanarayana</i> <i>M. S. University, Baroda, Vadodara</i>	



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	11:15 to 12:00	LUNCH BREAK	
	12:00 to 12:30	TECHNICAL SESSION-IV Dr. S.V.Barai, IIT Kharagpur, Speaker and Chair Person – High Performance Computational Intelligence Tool for Structural Optimization	
15 <sup>h</sup> April 2012	12:31 to 14:15	Comparative Study of Cracking Behavior of PPFRC Beams without Stirrups with Varying Shear Span by Depth Ratio <i>Vinu R Patel, I. I.Pandya, Hitendra B Solanki</i> <i>Applied Mechanics Department, M.S. University Baroda</i>	Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat
		Behavior of Exterior RC Beam-Column Joint Subjected to Monotonic Loading <i>S.M.Kulkarni, Y. D. Patil</i> <i>Parul Institute of Engineering &amp; Technology</i>	
		Investigation on Buckling Behaviour of Intermediate Length CFS Rack Columns <i>M. Anbarasu, S. Sukumar</i> <i>Government College of Engineering, Salem, Tamilnadu, India</i>	
		Integrated Force Method for Buckling Analysis of Skeletal Structures <i>Ganpat S. Doiphode, Subhash C. Patodi</i> <i>Applied Mechanics Department, Faculty of Tech. &amp; Engg., M.S. University of Baroda</i>	
		Dynamic Performance of G+5 Storied Steel-Concrete Composite Structure <i>Dharti J. Patel, Jalpa R. Patel, Sumant B. Patel</i> <i>BVM Engineering College, V.V.Nagar</i>	
		Effect of Method of Curing on the Compressive Strength of Pavement Concrete Produced With Slag Cement and Hardening Accelerator <i>Vilas V. Karjinni, Mushtaq Ahmed Bhavikatti</i> <i>Anjuman Engineering College, Bhatkal, Karnataka</i>	
		Critical Factors Facilitating Total Quality Management Implementation in Indian Construction Industries <i>B.S.Patil, DR. P.B. Ullagaddi, DR. D.G.Jugati</i> <i>BLDEA's College of Engg. &amp; Tech., SGGSIET, Bijapur</i>	
		Utilisation of Flyash in the Production of Geopolymer Concrete <i>S.V. Patankar, Sanjay S. Jamkar, Yuvraj M. Ghugal</i> <i>Government College of Engineering, Aurangabad, Maharashtra</i>	
		High Reactive Alccofine in High Performance Concrete <i>Jignesh M Patel, S. M. Kulkarni, Dr. Vilin P Parekh</i> <i>Parul Institute of Engineering &amp; Technology</i>	



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	14:15 to 14:30	TEA BREAK	
	14:30 to 15:00	TECHNICAL SESSION- V Dr.Manoj Arora, IIT IIT Roorkee, – Speaker and Chair Person – Accurate Land Cover Extraction from Remote Sensing Data for Green Environment	
	15:01 to 16:30	Estimate The Annual Recharge Using GIS and Remote Sensing on Hathmati River Basin, Sabarkantha, Gujarat  <i>Parthi Parekh, A. S. Patel</i> <i>M. S. University of Baroda</i>	Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat
		Assessment of Drought Conditions Using Remote Sensing Techniques  <i>Surendra Coudhary, P.K.Garg, S.K. Ghosh</i> <i>Indian Institute of Technology, Roorkee</i>	
		Effect of Vehicle Mass and its Location on Coupled Natural Frequencies of Bridge  <i>Rajesh Ranjan Rele, Sudip Talukdar</i> <i>Indian Institute of Technology, Guwahati</i>	
		Critical Appraisal of Traffic Signal Design for at - Grade Intersections under Mix Traffic Conditions-Global Scenario  <i>J.R.Juremalani, T.L. Popat, D.T. Shete</i> <i>Parul Institute of Engineering &amp; Technology</i>	
15 <sup>h</sup> April 2012		Traffic Signal Design for Isolated-at Grade Intersections under Heterogeneous Traffic Conditions Using Webster Method.- Case Study of L & T (VUDA) Circle, Vadodara.  <i>J. R. Juremalani, T. L. Popat</i> <i>Parul Institute of Engineering &amp; Technology</i>	
		Analysis of Existing Traffic / Transport Conditions in Vadodara City  <i>Ankur H. Patel, T. L. Popat</i> <i>Parul Institute of Engineering &amp; Technology</i>	
		Economic Evaluation of Transportation Project  <i>Ankur H. Patel, T. L. Popat</i> <i>Parul Institute of Engineering &amp; Technology</i>	
		Optimization of Transit Service by Using GIS - Case Study of Mehsana City  <i>Utsav S. Pavar, H.R. Varia, D. Nandodwala</i> <i>L.D. College of Engineering, Ahmedabad</i>	
		Transit ITS for the Customer for Implementing BRT (Bus Rapid Transit)  <i>Dushyant Jasvantbhai Parmar, A.K.Patel</i> <i>L.D. college of Engineering, Ahmedabad</i>	
	16:45 to 17:30	VALEDICTORY FUNCTION	