

1st National Conference on Recent Advances in Technology and Engineering (RATE-2012)
Institute of Engineering & Technology, Mangalayatan University, Aligarh (U.P)

TECHNICAL SESSION 01: MECHANICAL ENGINEERING

VENUE: Block A-301 (IET)

DATE: JAN 20th 2012

TIME : 2:00pm to 5:15pm

S.N.	Paper Code	Title of the Paper
1	ME01	Automobile Air Conditioning (New Trends) Amit Kumar
2	ME02	Thermo acoustic refrigeration for the automotive industry Omair Musheer, Faraz Ahmad Khan, Mirza Shariq Beg
3	ME03	Study of turbocharger with ABB technology and comparison with supercharger Nidhi Singh
4	ME04	Performance Analysis of Gasoline-Alcohol Fuel Blends and Emission Characteristics of 4-stroke SI Engine Yashvir Singh, Puneet Mangla, Nishant Kr. Singh
5	ME05	Integrated approach for prioritized aesthetic attribute of car profile H.C.Yadav, Sandarbh Shukla, P.K.Mishra
6	ME06	Experimental Analysis of 4-Stroke SI Engine with Use of CNG as a Fuel Deepty Verma, Piyush Chaudhary and Tulsi Bisht
7	ME07	Condition monitoring of rolling element bearing through spectrum analysis Mangesh S. Mohan, V.D Raul, M.K. Bhiwapurkar
8	ME08	A review on current research trends in electrical discharge machining Dewanshu Khatana
9	ME09	Performance and microstructure analysis of Copper and brass electrode for AISI D204 die steel in electro discharge machine Girish Dutt Gautam, Sakendra Kumar Singh
10	ME10	Electrochemical machining, a promising micromachining and finishing process: Different specialized applications Taufeeque Hasan, Mohd. Farhan Zafar

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11	ME11	Recent trends in development of machine tools Dr. S.P.Tayal
12	ME12	Implementation of TQM in manufacturing Garima Sharma, Piu Jain
13	ME13	Investigations of flank wear of single point cutting tool and its prediction during turning process Vinay Sharma, Joyjeet Ghose, Sanatan Ratna
14	ME14	Wire Electrochemical Micromachining: A Recent advancement in Electrochemical Micromachining Taufeeque Hasan, Mohd. Farhan Zafar

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TECHNICAL SESSION 01: ELECTRICAL ENGINEERING

VENUE: Block A-306 (IET)

DATE: JAN 20th 2012

TIME: 2:00pm to 5:15pm

S.N.	Paper Code	Title of the Paper
1	EE01	A simplified theory of hysteresis machines Saurabh Kumar Mukerji, Manoj Kumar Bhardwaj, Sandeep Shukla
2	EE02	Solution of Laplace Equation using Torch Function Synthesis Technique Saurabh Kumar Mukerji, Shivani Sharma and Shilpa Shukla
3	EE03	Importance of FACTS Devices in future power system Aishwarya Yadav, Rajesh Namdev
4	EE04	On the Applications of Finite Element Technique for Making Typical Electromagnetic Field Computations D. V. Avasthi
5	EE05	System of modernized food packaging through nanotechnological approaches Neetu Singh, Ajay kumar
6	EE06	Bioremediation of wastewater by tericolous lichenic species Ajay kumar, Neetu Singh, Harsh Gupta
7	EE07	Nanotechnology in Tissue Engineering: Future in Biomedical Sciences Vartika Rai, Ambuj Mishra, Priyanka Chaudhary and Prashanta Kumar Pal
8	EE08	Power Generation for Off-Grid Locations through Hybrid Combination of Locally Available Renewable Resources B. S. Pali, Peeyush Pant
9	EE09	Phytoremediation: promising green technology for future Divya Srivastava, Suamya Srivastava and Prashanta Kumar Pal
10	EE10	Wind Energy Fed Wound Rotor Induction Generator For Isolated Power Systems Peeyush Pant, Vishal Verma

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TECHNICAL SESSION 01: ELECTRONICS & COMMUNICATION ENGINEERING

VENUE: Block A-303 (IET)

DATE: JAN 20th 2012

TIME: 2:00pm to 5:15pm

S.N.	Paper Code	Title of the Paper
1	EC01	GA Approach in Designing Embedded Systems Gurpreet Singh
2	EC02	A Compact Low pass microstrip filter with ultra wide stop band using Defect ground Structure (DGS) Anil Kumar Sharma, Dr. Sudhir Kumar Sharma, Rajesh Kr. Upadhyay
3	EC03	Design a Transceiver for High Speed Off- Chip Communication Isha Arora
4	EC04	VHDL implementation of efficient multimode block interleaver for WLAN Deepak Bhardwaj, satyandra sharad, S P Singh, V K Pandey
5	EC05	Performance analysis of MANET Protocols in Homogeneous and Heterogeneous Networks. Divya Nagpal, Geetika Chaudhary, Dipika Garg, Amanpreet Kaur
6	EC06	Performance Evaluation of various Routing Protocols over 802.11 based Wireless Mesh Networks. Indu, Gaurav Jain, Achal Gupta, Amanpreet Kaur
7	EC07	Third generation (3g) wireless technology Ravinder Singh Sakshi, Dev Baloni, Diler Singh Sakshi

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8	EC08	Third generation (3g) mobile communication Neha Jain
9	EC09	Wireless computer monitor Neeraj kumar Misra
10	EC10	Voice over internet protocol Jitendra Singh
11	EC11	VHDL implementation of a robust UART Architecture based on filter for better noise performance Satyandra Sharad, Deepak Bhardwaj, V K Pandey, S P Singh
12	EC12	Modified WKB approximation for FOWLER-NORDHEIM tunneling Rupali Mahajan, Anuj Sharma
13	EC13	Security issues in mobile adhoc networks Amit Kumar Tewari, Vivek Kumar Sharma, Rahul Sharma, Vikas Mishra
14	EC14	Ultra sonic navigation aid for the blind Neeraj kumar Misra

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TECHNICAL SESSION 01: COMPUTER & INFORMATION TECHNOLOGY

VENUE: Block A-304 (IET)

DATE: JAN 20th 2012

TIME: 2:00pm to 5:15pm

S.N.	Paper Code	Title of the Paper
1	CS01	Soft-Computing :Various Methods and their applications Ritu Tiwari, Geeta Gautam
2	CS02	Encrypted Data Investigation in Cloud Computing Namita Garg, Vishnu Dutt Yadav,Sunil Kumar
3	CS03	Face Recognition System Pawan Jindal
4	CS04	Web mining: an introductory approach Lavalee Singh, Prof. Arun Singh
5	CS05	Color And Frequency Features Based Method With Kernel Fisher Analysis Algorithm For Face Recognition Prakash S Mohod
6	CS06	Component Based Software Engineering Development Based on Reusability Component Mr. Virendra Kumar
7	CS07	An $M^X/G/1$ retrial queueing system with bernoulli feedback and modified vacation policy Richa Sharma and Gireesh Kumar Kaushik

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8	CS08	Enhanced bonding based web page information retrieval using clustering algorithm D.Akila
9	CS09	DNA Computing: A Novel approach to NP-Complete Problems Hari Om Sharan, Vikas Solanki, Monika, Nishtha Maheswari, Kritika Agrawal Shikha
10	CS10	New confront in Cyberspace : Financial Fraud Prof. Shailesh Shivajirao Bhise
11	CS11	On-demand network access to a shared pool of configurable computing resources: cloud computing Ajay Raj Parashar, Deepti Mittal, Abhishek Bhardwaj
12	CS12	Adaptive Fuzzy Filtering Problem through Recursive Least Square algorithm Nitika Dalal
13	CS13	A Comparative Analysis of Various Software Reliability Prediction Models Bindhyachal Kumar Singh, Arun Solanki, Abdur Rahman
14	CS14	Automatic Efficient Test Data Generation Based on Genetic Algorithm for Path Testing Bindhyachal Kumar Singh, Arun Solanki

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TECHNICAL SESSION 01: APPLIED SCIENCE

VENUE: Block B-104 (IET)

DATE: JAN 20th 2012

TIME: 2:00pm to 5:15pm

S.N.	Paper Code	Title of the Paper
1	AS01	Concentration of the heavy metals in Aloe vera L. Leaves collected from different geographical locations of India. Swapnil Rai
2	AS02	Synthesis and characterization of platinum complex of thiazolidinone of 1, 6 diamino hexane Vibha, R. K. Upadhyay
3	AS03	Monitoring and management of water pollution Gaurav Kumar Rastogi, D.K. Sinha and Shilpi Saxena
4	AS04	Quantitative Structure Activity Relationship studies on some newly synthesized nano benzimidazole derivatives using phase transfer Catalysis Manisha Sharma, Arti Maheshwari and P.M.Gupta
5	AS05	Synthesis and Biological Activity of Some Synthesized Substituted Anthranilic Acid Bharat Kumar, Arti Maheshwari, Manisha Sharma, P. M. Gupta
6	AS06	Effect of sewage water and canal water irrigation on some characteristics of soil from Aligarh district India. Dinesh Kr Sharma, Swapnil Rai, P. M. Gupta, Renu sharma
7	AS07	A ¹ H NMR and SAR study of Chlorthiazide: A diuretic drug Kunwar Pratap Singh, Arti Maheshwari, Manisha Sharma

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8	AS08	Determination of Caffeine Percentage of Different Tea Brands in Indian Market Lokesk Kumar Sharma, Arti Maheshwari and Manisha Sharma
9	AS09	Reuse and Recycling of heavy metals (Copper and Iron) discharged from electroplating industry effluents in to the river Yamuna, Agra. Monika Singh, Ajay Pratap Singh , Shilpi Saxena and Susan Verghese P
10	AS10	Sunspots cycles and their earthly connections Sandeep Shandilya and Y. P. Singh
11	AS11	Correlation between dielectric constant and inter-atomic distance of ternary chalcopyrite semiconducting materials Deepak Sharma, Arti Maheshwari, A.S.Verma and Manoj Bhardwaj
12	AS12	Elastic scattering of 800 MeV protons with ⁴ He Minita Singh
13	AS13	Review on CaCu ₃ Ti ₄ O ₁₂ (CCTO) ceramic and polymer composites Pankaj Kumar, A.P. Tiwari
14	AS14	Study of radon exhalation rate and natural radioactivity in some milk samples near Narora Atomic Power Station (NAPS) Narora, India Ajay Kumar Mahur, Anil Sharma, Rajendra Prasad

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TECHNICAL SESSION 02: MECHANICAL ENGINEERING

VENUE: Block A-301 (IET)

DATE: JAN 21st 2012

TIME : 9:30am to 11:30am

S.N.	Paper Code	Title of the Paper
1	ME15	Rural Household Energy: A Study of Pilibhit, India Mohammad Arif, Rajesh Kumar, Afaq Ahmad
2	ME16	Thermography – A Technique for 21 st Century Milan J. Pandya
3	ME17	Welding Current in Submerged Arc Welding Dr. Vinod Kumar,
4	ME18	Lignocellulic biowastes a promising approach as an alternative to renewable energy Dr. Sabiha Imran
5	ME19	An Isogeometric Approach for the Simulation of Solid Mechanics Problems I. V. Singh, B. K. Mishra, Pravin M. Singh
6	ME20	Metal matrix composites Farooq Ahmed
7	ME21	Transient thermal analysis of brick shape casting Haider Hussain

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TECHNICAL SESSION 02: ELECTRONICS & COMMUNICATION ENGINEERING

VENUE: Block A-303 (IET)

DATE: JAN 21st 2012

TIME: 9:30am to 11:30am

S.N.	Paper Code	Title of the Paper
1	EC15	A Comparative Study of Routing Algorithms in Wireless Sensor Network Abdul Gani Khan, Rajesh Mishra, Abdur Rahman, Ashish Kumar
2	EC16	A novel implementation of encryption in advanced encryption standard cryptography M.Pitchaiah, Philemon Daniel, Praveen
3	EC17	Study of ofdm using linear detection Sakshi Chawla, Abhijeet Kumar
4	EC18	Analysis of PID controller strategies for higher order system using NI Labview Neeraj Khara, .B Shabarinath
5	EC19	A Survey on Comparative study On IPV4 and IPV6 Bhupendra, Atul Kumar,
6	EC20	Embedded system for multiplatform communication for real time data using vxworks Neeraj Khara, .B Shabarinath
7	EC21	IPv6 Network Mobility Demonstration in Aeronautical Communications Network Abdur Rahman, Manju Bala, Kapil Sharma, Abhinav Agrawal
8	EC22	Implementation of Embedded based SCADA system for real time data Neeraj Khara, Sumit Balgavhar

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TECHNICAL SESSION 02: COMPUTER & INFORMATION TECHNOLOGY

VENUE: Block A-304 (IET)

DATE: JAN 21st 2012

TIME: 9:30am to 11:30am

S.N.	Paper Code	Title of the Paper
1	CS15	A secure way of message transformation Deena Nath Gupta, Mrs. Sheetal Sharma, Mr. Lucknesh Kumar, Mr. Ashwani Kumar
2	CS16	Neural network based prediction of web search queries Rajni Yadav , Deepak Kumar and Komal Kumar Bhatia
3	CS17	VANET-A Recent advancement in wireless networks Anurag Sharma & Krishna
4	CS18	Web usage mining and web personalization techniques for effective web site development: a survey Akshada Kulkarni
5	CS19	Evaluation of Wireless Sensor Networks Abdul Gani Khan, Rajesh Mishra, Ankesh Kaushik, Amit Kumar
6	CS20	Improve Geographical Information System (GIS) through Cloud Prashant Kumar, Arpit jain, Payal Goal
7	CS21	Trust Models of Grid Computing: A Survey Biswajit Upadhyay, Avijit Bhowmick
8	CS22	Radio-over-Fiber Technology for Cellular Network Chandan Kumar, Rajesh Mishra, Abdul Gani Khan, Abdur Rahman

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TECHNICAL SESSION 02: APPLIED SCIENCE

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DATE: JAN 21st 2012

TIME: 9:30am to 11:30am

S.N.	Paper Code	Title of the Paper
1	AS15	Language lab & its role in shaping career of growing engineers Dauji Agarwal
2	AS16	Polymer nanotechnology: Surface morphological and thermal change in PMMA matrix after incorporation of ZnO nanofillers Pramod Kumar Singh, M. S. Gaur, R. S. Chauhan
3	AS17	Rainwater Harvesting: A solution to water crisis in Urban Areas Aishatul Bushra ,Iram Arman, Najam Sardar
4	AS18	A Representative Model for Ultrafiltration M.J.Khalil, Pradyumn Pandey
5	AS19	A Suitable Model for VOC Removal from Biofilter M.J.Khalil, Neetu singh
6	AS20	Corrosion Control by Nanocomposite Coatings R.Sardar and N.Sardar
7	AS21	Pipe Network Analysis using Enhanced Global Gradient Algorithm Mahboob Alam, Raunaq Hasib
8	AS22	Municipal Solid Waste Management Nadeem Ahmad Khan, M M Ashhar, Syed Zeeshan Husain, Misbah Ul Islam

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TECHNICAL SESSION 03: MECHANICAL ENGINEERING

VENUE: Block A-301 (IET)

DATE: JAN 21st 2012

TIME : 2:00pm to 3:30pm

S.N.	Paper Code	Title of the Paper
1	ME22	Effect of rare earth oxide addition on slurry erosion performance of cermet coatings Surajit Purkayastha, D.K. Dwivedi
2	ME23	Recommendation for choice of order picking methods and technologies B.R. Sharma
3	ME24	Effect of Friction Stir Welding on Microstructure and Mechanical Properties of Al-Zn-Mg Alloy Ratnesh Kumar Raj Singh, Deepti Jaiswal, Rajesh Prasad, Sunil Pandey, Dheerendra Kumar Dwivedi
4	ME25	Numerical Simulation of Thermo-mechanical Crack problems using EFGM and XFEM Himanshu Pathak, Akhilendra Singh, I. V. Singh
5	ME26	Experimental study to determine effect of welding parameters on tensile and impact strength of friction stir welded Al 6063. Deepti Jaiswal, Ratnesh Kumar Raj Singh
6	ME27	Surface roughness and dry sliding wear behaviour of cast cu-cr alloy based composite R K Gautam, S.C.Jain, Satish.C. Sharma and S. Ray

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TECHNICAL SESSION 03: ELECTRONICS & COMMUNICATION ENGINEERING

VENUE: Block A-303 (IET)

DATE: JAN 21st 2012

TIME: 2:00pm to 3:30pm

S.N.	Paper Code	Title of the Paper
1	EC23	VHDL implementation of interleavers: fundamentals and recent developments for WIMAX and WLAN Deepak Bhardwaj, Satyandra Sharad, S P Singh, Dr. V K Pandey
2	EC24	Implementation of Priority Policies in Slave Side Arbitration for the ML-AHB Busmatrix M.Pitchaiah, Philemon Daniel, Praveen
3	EC25	Utility of Orthogonal Frequency Division Multiplex (OFDM) Techniques to broad band communications over power line. Chandna M.L, S C Tyagi, Y.P Singh
4	EC26	Decoupling Online Algorithms from Active Networks in Hierarchical Databases Using Binary Tree Navin Kumar Agrawal
5	EC27	Decoupling Neural Networks from XML in Semaphores Sapna Shukla
6	EC28	Object identification with Autowaves – a Neural network approach Shivaji Kumar Adhikari P

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TECHNICAL SESSION 03: COMPUTER & INFORMATION TECHNOLOGY

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TIME: 2:00pm to 3:30pm

S.N.	Paper Code	Title of the Paper
1	CS23	Electronic Wastes – A major challenge to Environment Mohammad Rashid Aqeel
2	CS24	Real time management of national conference through cloud Anubhaw Kumar Upadhyay
3	CS25	Intelligent Transportation System Using A Real Time Approach OF Fuel Saving Navigation System In VANETs Mahiraj D. S. Chandel , Ajay P. Dixit, Naveen Trivedi, Mr. Gajendra S. Chandel
4	CS26	Synthesis of Speech and Speaker Recognition Using Matlab Archana Kumari, Hari Singh Choudhary, Vibhor Saxena, Arun Mittal
5	CS27	Cloud Computing Technique Swati Singh, Sapna Varshney, Humaira Jafri
6	CS28	A Proposal of the Face-Recognition Method & Its Improvement in GCID Algorithm Love Kumar, Rajni Yadav, Nakul Singh

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TECHNICAL SESSION 03: APPLIED SCIENCE

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DATE: JAN 21st 2012

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S.N.	Paper Code	Title of the Paper
1	AS23	Flood Disaster Management and Mitigation in India Javed Alam and Mohammad Muzzammil
2	AS24	Phase Transition Behaviour of Ca Modified PZT Ceramic Anil Govindan,Devendra Singh,Sanjesh Babu,
3	AS25	Modern Developments in Nanotechnology Dr. Minal,
4	AS26	Rainwater Harvesting: A Lifeline for Human Well-Being Dr. Minal,
5	AS27	Water Pollution: Its Causes and Controls Dr. Minal,
6	AS28	An Analytical Study of Solid Waste Management System Dr. Minal,
7	AS29	The Energy Future Lies in the Hands of Sustainability of Renewable Energy Use and Its Development Dr. Minal,
8	AS30	Removal heavy metals from water and industrial wastewater by low cost adsorbent Fazlollah Changani Khorasgani, Suhil Ayub
9	AS31	The Extreme Point Enumeration Revised Technique for Assignment Problem M. Faisal Khan, Irfan Ali, Sachin Sharma, Sonu Kumar, Preeti Agarwal