

# JUET chronicle



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## Editorial Board

- Prof. D.S. Hooda - Chairman
- Prof. Shishir Kumar
- Dr. Rashmi Tyagi
- Dr. Arnab Kumar Ray
- Dr. Amit Mishra
- Dr. Rajeev Srivastava



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## Admitted Strength of New Students

For academic session 2014-15

B.Tech.	M.Tech.	Diploma	B.Sc.	Ph.D	Total
2214	47	174	5	68	2408

## Visit of Dignitaries

- Prof. Suneeta Agrawal, (CSE), MNNIT Allahabad, visited the campus as examiner to conduct Ph.D. (open defence) on December 19, 2014.
- Prof. Nikhil Kothari, (CSE) Dharmsinh Desai University, Nadiad, delivered an invited talk in National Workshop on "Advancements in Network Communication and Security (ANCS-2014)" on December 29, 2014.
- Dr. Deepak Singh Tomar, (CSE) MANIT Bhopal, also delivered an invited talk in National Workshop on "Advancements in Network Communication and Security (ANCS-2014)" on December 31, 2014.

## Publication of University Journal

- The second issue of JUET Research Journal of Science and Technology Vol. 1 published by Narosa Publishers was released by the Hon'ble VC in the month of August, 2014. Prof. D.S. Hooda, Dean (R) is the chief editor of journal.

## Achievements (Department-wise)

### CHEMICAL ENGINEERING

#### A: PUBLICATIONS IN JOURNALS

- R. Kumar, H. Mahalingam and K.K. Tiwari, "Selection of solvent in supercritical antisolvent process", APCBEE Procedia, vol.9, pp.181-186, 2014.

#### B: PUBLICATIONS IN CONFERENCE PROCEEDINGS

- T. Singh, A. Awasthi, P. Tripathi, S. Gautam, A. Gautam, "Response surface methodology for Indian coal grinding", In proceedings of 67th Annual Session of CHEMCON-2014, Chandigarh, pp. 396-397, December 27-30, 2014.
- S. Sharma, A. Gautam, S. Gautam, "The dissolution of copper from spent low temperature shift catalyst using chelating agent", In proceedings of 67th Annual Session of CHEMCON-2014, Chandigarh, pp. 832-833, December 27-30, 2014.



**Ms. Seema Singh, Ph.D. scholar, Department of Chemistry, presented a poster at the 3<sup>rd</sup> Water Research Conference, Shenzhen, China organized by Elsevier.**

- N. K. Singh, S. Gautam, A. Gautam, "Numerical simulation of the attachment of an infinitely extended particle to a bubble", In proceedings of 67th Annual Session of CHEMCON-2014, Chandigarh, pp. 1367-1368, December 27-30, 2014.
- S. Kumar, Shivam Agrawal, S. Gautam, A. Gautam, S. Agrawal, "Experimental study for the drying kinetics of pumpkin", In proceedings of 67th Annual Session of CHEMCON-2014, Chandigarh, pp. 736-737, December 27-30, 2014.
- Maheshwari, S. Bajpai, S. Gautam, A. Gautam, S. Agrawal, "Application of Box-Behnken design for pumpkin drying", In proceedings of 67th Annual Session of CHEMCON-2014, Chandigarh, pp. 734-735, December 27-30, 2014.

#### **C: CONFERENCE / SEMINAR / WORKSHOP PARTICIPATED**

- Department of Chemical Engineering organized a workshop on "Process Simulation using CHEMCAD and MATLAB" during December 20 – 21, 2014.

#### **D: Ph.D. AWARDED**

- Mr. S. Ramesh, Ph.D. scholar in the department of Chemical Engineering was awarded the Ph.D. degree by JUET Guna for his thesis titled "Studies on black liquor droplet dynamics in chemical recovery boilers" under the supervision of Dr. Hari Mahalingam (HOD CHE ) & Prof. N.J.Rao.

### **CHEMISTRY**

#### **A: PUBLICATIONS IN JOURNALS**

- S. Singh, P.K. Singh and H. Mahalingam, "Novel Floating Ag<sup>+</sup>-doped TiO<sub>2</sub>/Polystyrene photocatalysts for the treatment of dye wastewater", Industrial and Engineering Chemistry Research, vol. 53(42), pp.16332-16340, 2014.
- N. Kumar and R. Tyagi, "Synthesis of anionic carboxylate dimeric surfactant and their interactions with electrolyte," Journal of Taibah University for Science, vol. 09(01), pp.69-74, 2015.

#### **B: PUBLICATIONS IN CONFERENCE PROCEEDINGS**

- S. Singh, P.K. Singh and H. Mahalingam, "Effective and Robust Impregnated and Strewn Polystyrene-supported Floating Titanium Dioxide Photocatalysts: Preparation, Characterization and Comparison", In proceedings of the International Conference on Energy, Environment, Materials and Safety (ICEEMS'14), Kochi, pp. 275-280 , December 10-12, 2014.

#### **C: CONFERENCE / SEMINAR / WORKSHOP PARTICIPATED**

- Dr. Rashmi Tyagi delivered a plenary lecture entitled "Novel Surfactants: Need for Sustainable Environment" at the national conference on 'Newer Oleo-Chemicals: Production and Industrial Applications' organized by "Center of Excellence on "Applied Research, Training and Education in Lipid Science" established in the Department of Oil and Paint Technology , HBTI, Kanpur under TEQIP-II World Bank Project, on January 10-11, 2015.
- Ms. Seema Singh, Ph.D. scholar, presented a poster on the research work titled "An effective strewn silver-ion doped polystyrene-supported floating titania photocatalyst for treatment of dye wastewaters under UV and natural sunlight" at the 3rd Water Research Conference, Shenzhen, China organized by Elsevier during January 11-14, 2015.
- Naveen Kumar, Ph.D. scholar, presented on, "Solubilization abilities of single and mixed dimeric surfactants towards polycyclic hydrocarbons," at National conference on 'Newer Oleo-chemicals: Production and Industrial Applications' organized by , "Center of Excellence on "Applied Research, Training and Education in Lipid Science" established in the Department of Oil and Paint Technology , HBTI, Kanpur under TEQIP-II World Bank Project, on January 10-11, 2015.
- Geetha D, Ph.D. scholar, presented on "Studies on synthesized C16 & C18 polyglucosides for emulsion stability and HLB value," at National conference on 'Newer Oleo-chemicals: Production and Industrial Applications' organized by , "Center of Excellence on "Applied Research, Training and Education in Lipid Science" established in the Department of Oil and Paint Technology , HBTI, Kanpur under TEQIP-II World Bank Project, on January 10-11, 2015.
- Vinayika Singh Ph.D. scholar, presented on, "Fluorescence studies on binary mixtures of bis -sulfosuccinate anionic surfactants with conventional anionic (SDS) and nonionic (Triton-X 100) surfactants," at National conference on 'Newer Oleo-chemicals: Production and Industrial Applications' organized by , "Center of Excellence on "Applied Research, Training and Education in Lipid Science" established in the Department of Oil and Paint Technology , HBTI, Kanpur under TEQIP-II World Bank Project, on January 10-11, 2015.



**A National Workshop on "Advancements in Network Communication and Security (ANCS-2014)", was organized by Department of Computer Science & Engineering.**

#### **D: PROJECTS / GRANTS**

- Ms. Seema Singh, Ph.D. scholar in Department of Chemistry, was awarded partial travel grants by SERB (DST), Government of India and Centre for International Co-operation in Science (CICS) for attending the 3rd Water Research Conference, Shenzhen, China organized by Elsevier during January 11-14, 2015.

#### **COMPUTER SCIENCE & ENGINEERING**

##### **A: PUBLICATIONS IN JOURNALS**

- Paras Jain and Vipin Tyagi, "A Survey of Edge-Preserving Image Denoising Methods", Information System Frontiers, DOI: 10.1007/s10796-014-9527-0, 2014.
- Paras Jain and Vipin Tyagi, "An Adaptive Edge Preserving Image Denoising Technique using Tetrolet Transforms", The Visual Computer: International Journal of Computer Graphics, DOI: 10.1007/s00371-014-0993-7, 2014.
- Neeraj Rathore and Inderveer Chana, "Load Balancing and Job Migration Techniques in Grid: A Survey of Recent Trends", Wireless Personal Communication, vol.79, issue 3, pp.2089-2125, August 2014.
- D. Ansari, S. P. Ghrera and Vipin Tyagi, "Pixel based Image Forgery Detection", IETE Journal of Education, Taylor and Francis, vol.55, issue 1, pp.40-46, August 2014.
- Dinesh Verma and Shishir Kumar, "An Improved Approach for Reduction of Defect Density Using Optimal Module Sizes," Advances in Software Engineering, vol. 2014, Article ID 803530, pp.1-7, August 2014.
- Paras Jain and Vipin Tyagi, "LAPB: Locally Adaptive Patch-based Wavelet domain Edge-preserving Image Denoising", Information Sciences, DOI: 10.1016/j.ins.2014.09.060, October 2014.
- Neeraj Rathore and Inderveer Chana, "Job migration with fault tolerance based QoS scheduling using hash table functionality in Social Grid Computing", Journal of Intelligent & Fuzzy Systems, vol.27, pp.2821-2833, November 2014.
- Harikesh Singh and Shishir Kumar, "Analysis & Minimization of the Effect of Delay on Load Balancing for Efficient Web Server Queueing Model". International Journal of System Dynamics Applications, vol.3, issue 4, pp.1-6, December 2014.
- Prateek Pandey, Shishir Kumar and Sandeep Shrivastav, "A Unified Strategy for Forecasting of a New Product". Springer Journal of Decisions, vol.41, issue 4, pp 411-424, December 2014.
- Prateek Pandey, Shishir Kumar and Sandeep Shrivastav, "A Fuzzy Decision Making Approach for Analogy Detection in New Product Forecasting", Journal of Intelligent and Fuzzy Systems, DOI: 10.3233/IFS-141483, December 2014.
- Nishant Shrivastava and Vipin Tyagi, "An Efficient Technique for Retrieval of Color Images In Large Databases", Computers and Electrical Engineering, DOI:10.1016/j.compeleceng.2014.11.009, December 2014.
- Shailaja Patil, Ashish Gupta and Mukesh Zaveri, "Recovery of Lost Target Using Target Tracking in Event Driven Clustered Wireless Sensor Network," Journal of Computer Networks and Communications, vol.2014, pp.1-15, December 2014.
- Harikesh Singh and Shishir Kumar, "WSQ: Web Server Queueing Algorithm for Dynamic Load Balancing on Web Server", Wireless Personal Communication, vol. 80, issue 1, pp. 229-245, January 2015.
- Nilesh Kumar Dubey and Shishir Kumar, "An Effective Approach of Distortion-Resistant Video Watermarking for Piracy Deterrence", International Journal of Security and Its Applications, vol.9, no.1, pp.283-294, January 2015.

##### **B: PUBLICATIONS IN CONFERENCE PROCEEDINGS**

- Shaifali Bhatnagar, Shishir Kumar and Ashish Gupta, "An approach of efficient and resistive digital watermarking using SVD", In proceeding of International Conference on Advances in Computing, Communications and Informatics, pp. 2470-2475, September 24-27, 2014.
- P. S. Banerjee and Sahoo Gadadhar, "Fluctuating Pattern Size Handling for The Extracted Base Verb Forms From Participles and Tenses for Intelligent NLP", In proceeding of International Conference on Emerging ICT for Bridging Future, JNTU, Hyderabad, Andhra Pradesh, India, Advances in Intelligent Systems and Computing, Springer International Publishing, Springer AISC Series, vol.338 pp.405 - 414, December 2014.
- Nishant Shrivastava and Vipin Tyagi, "A Review of ROI Image Retrieval Techniques", In proceeding of Advances in Intelligent Systems and Computing, Springer Berlin Heidelberg, vol.328, pp.509-520, December 2014.
- Ashwani Kumar, S. P. Ghrera and Vipin Tyagi, "A Comparison of Buyer-Seller Watermarking Protocol (BSWP) Based on Discrete Cosine Transform (DCT) and Discrete Wavelet Transform (DWT)", In proceeding of Advances in Intelligent Systems and Computing, Springer International Publishing, vol.337, pp.401-408, January 2015. Paras Jain and Vipin Tyagi, "An Adaptive Edge-Preserving Image Denoising Using Epsilon-Median Filtering in Tetrolet Domain", In proceeding of Advances in Intelligent Systems and Computing", Springer International Publishing, vol.337, pp.393-400, January 2015.

##### **C: CONFERENCE / SEMINAR / WORKSHOP PARTICIPATED**

- Dr. Vipin Tyagi chaired a session on Cyber Forensics during CSI 49th Annual Convention at JNTU, Hyderabad during December 12-14, 2014.
- P.S. Banerjee attended an International Conference on Emerging ICT for Bridging Future (CSI 2014) organized by CSI Hyderabad Chapter, in association with DRDO & JNTU Hyderabad, Andhra Pradesh, India, December 12-14, 2014.



**Dr. Vipin Tyagi, Dept. of CSE, has been elected as Vice President - Computer Society of India for Region Madhya Pradesh, Gujrat and Rajasthan.**

- Ratnesh Litoriya has attended National Workshop on “Advancements in Network Communication and Security (ANCS-2014)”, during December 29-31, 2014.
- Dr. Mahesh Kumar conducted a technical sessions and hands-on sessions on “Analysis of network communication protocols” in National Workshop on “Advancements in Network Communication and Security (ANCS-2014)”, December 29-31, 2014.
- Nilesh Patel conducted a technical sessions on “OTCL/ C++ linkage in NS-2” in National Workshop on “Advancements in Network Communication and Security (ANCS-2014)”, organized at JUET, Guna, December 29-31, 2014.
- Ravindra Kumar Singh conducted a technical sessions on “Introduction to Modeling using TLA+” in National Workshop on “Advancements in Network Communication and Security (ANCS-2014)”, organized at JUET, Guna, December 29-31, 2014.
- Amit Kumar Srivastava conducted a technical sessions on “LaTeX System” in National Workshop on “Advancements in Network Communication and Security (ANCS-2014)”, organized at JUET, Guna, December 29-31, 2014.

#### **D: CONFERENCE / SHORT TERM COURSE / WORKSHOP ORGANIZED**

- Department of CSE organized National Workshop on “Advancements in Network Communication and Security (ANCS-2014)”, December 29-31, 2014. This workshop was financially supported by MPCST.

#### **E: Ph.D AWARDED**

- Ph.D. degree was awarded to Neeraj Rathore from Thapar University, Patiala (Punjab), for his thesis entitled “An Efficient Load Balancing Technique in Grid” under supervision of Dr. Inderveer Chana in November 2014.
- Ph.D. degree was awarded to Sourabh Srivastava from JUET, Guna, for his thesis entitled “Soybean Disease Administration Using Image Processing Techniques” under supervision of Prof. D. S. Hooda and Dr. Satish Kumar Singh (IIIT Allahabad) in December 2014.

#### **F: OTHER ACHIEVEMENTS**

- Dr. Vipin Tyagi elected as Vice President - Computer Society of India for Region Madhya Pradesh, Gujrat and Rajasthan, in January 2015.

#### **CIVIL ENGINEERING**

##### **A: PUBLICATIONS IN JOURNALS**

- Babu, V.S., Mullick, A.K., Jain, K.K. and Singh, P.K., Mechanical properties of high-strength concrete with processed recycled aggregate – Influence of mixing techniques, Indian Concrete Journal, vol. 88, No.10, pp. 42-56, 2014.
- Babu, V.S., Mullick, A.K., Jain, K.K. and Singh, P.K., Strength and durability characteristics of high-strength concrete with recycled aggregate – Influence of processing, Journal of Sustainable Cement based Materials, DOI: 10.1080/21650373.2014.976777, 2014. Parag Agarwal, Naman Dubey, Mullick, A.K., and Babu, V.S., Fine fractions of recycled concrete as sand replacement, Indian Concrete Journal, vol. 88, No.10, pp. 80-86, 2014.

##### **B: PUBLICATIONS IN CONFERENCE**

- Samaiya, N. K., Khullar N. K. (2014). “Effect of Presence of Cohesive Wash Load on Flow Resistance.” Proceedings of 19th International Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering HYDRO 2014, MANIT Bhopal pp. 388-398, December 18-20, 2014.,

##### **C: CONFERENCE / SEMINAR / WORKSHOP PARTICIPATED**

- V.S., Babu presented a paper in The 6th International Conference of Asian Concrete Federation (ACF), Seoul, Korea, Enhancement of aggregate-related characteristics of high strength concrete with recycled aggregate, pp.36-37, September 21-22, 2014.

#### **ELECTRONICS & COMMUNICATION ENGINEERING**

##### **A: PUBLICATIONS IN JOURNALS**

- Deepak Sharma, Rajiv Saxena and Narendra Singh, “Image Compression based on Multiple Parameter Discrete Fractional Fourier Transform for Satellite and Medical Images,” International Journal of Signal Processing, Image Processing and Pattern Recognition, vol. 7, no. 3, pp. 453-474, 2014.
- Deepak Sharma, Rajiv Saxena and Narendra Singh, “Hybrid Encryption-Compression Scheme Based on Multiple Parameter Discrete Fractional Fourier Transform with Eigen Vector Decomposition Algorithm,” International Journal of Computer Network and Information Security, vol. 6, no. 10, pp. 1-12, 2014.



**A one day workshop on the theme of "Electronics System Design and Manufacturing" was organized by Department of Electronics & Communication Engineering.**

- Deepak Sharma, Rajiv Saxena and Narendra Singh, "Robust Watermarking Against Geometric Attacks using Multiple Parameter Discrete Fractional Fourier Transform and Least Significant Bit Technique," International Journal of Security and Its Applications, vol. 8, no.5, pp. 439-456, 2014.

#### **B : CONFERENCE / SEMINAR / WORKSHOP PARTICIPATED**

- Dr. Amit Mishra, Mr. Rahul Pachori and Ms. Ranu Gupta have attended a National Workshop, funded by TEQIP-II and technically supported by IET, on Signal Processing organized at Samrat Ashok Technological Institute (SATI), Vidisha (M.P.) during December 04-06, 2014.
- Dr. R. K. Vishwakarma has attended "Seventh Science Conclave and Inspire Internship Program -2014" organized by Indian Institute of Information Technology Allahabad dated on December 08-12, 2014.
- Dr. Jitendra Kanungo has attended IEEE CAS Sponsored Workshop on "Advanced Topics in VLSI Circuit Design" at IIT Roorkee, attended during September 18-20, 2014.
- Vinay Sharma, one of the M.Tech. student, presented a paper entitled, "Microstrip antenna with defected ground structure (DGS) for multiband operation," in International Conference on Recent Cognizance in Wireless Communication & Image Processing (ICRCWIP-2014), organised by Department of Electronics and Communication Engineering and Department of Electrical Engineering, Poornima Institute of Engineering and Technology, Jaipur, January 16-17, 2015.

#### **C : CONFERENCE / SHORT TERM COURSE / WORKSHOP ORGANIZED**

- ECE department organized a one day workshop on the theme of "Electronic System Design and Manufacturing", sponsored by The Institute of Electronics and Telecommunication Engineers (IETE) on November 29, 2014.

#### **D : OTHER ACHIEVEMENTS**

- Prof. B. K. Mohanti joined Centre for High-Performance Embedded Systems, School of Computer Engineering, Nanyang Technological University, Singapore as a Research Fellow in October 2014. During his sabbatical leave he will be involved in a project entitled Power Efficient Multicore Scalable Systems for Cloud Computing using emerging technologies related to a research plan on dependable and secure sensing for real-time detection of subsea oil and natural gas pipeline fault funded by Science and Engineering Research Council, Agency for Science, Technology and Research (ASTAR), Singapore.

#### **MATHEMATICS**

##### **A : PUBLICATIONS IN JOURNALS**

- D.S.Hooda and Parmil Kumar, "Information Theoretic Approach for Analyzing Independence of Attributes in Contingency Tables", Journal of Statistics & Management Systems, vol.17, No.2, 143-153, 2014.
- D.S.Hooda, Arunodaya K. Mishra and Divya Jain, "On Generalized Fuzzy Mean Code Word Lengths" American Journal of Applied Mathematics, vol.03, 127-134, 2014.
- Arunodaya K. Mishra, D.S.Hooda and Divya Jain, "Weighted Trigonometric and Hyperbolic Fuzzy.....Principles-International" Journal of Computer and Mathematical Sciences, vol.3, pp 62-68, 2014.
- Sonali Saxena, Keerti Upadhaya and D.S.Hooda, "On Bounds of a Generalized 'Useful' Mean Code Word Length", Applied Mathematical Sciences, vol.8, 138, pp 6881-88, 2014.
- Hradyes Kumar Mishra, "Population growth models via He-Laplace method" Journal of Modern Methods in Numerical Mathematics vol 5, 39-46, 2014.
- Sonali Saini and Hradyes Kumar Mishra "A new quartic B-spline method for third-order self-adjoint singularly perturbed boundary value problems" Applied Mathematical Sciences, Vol.9(8), 399-408, 2015.
- B. R. Jaiswal and B.R. Gupta, "Drag on Reiner-Rivlin Liquid Sphere Placed in a Micropolar Fluid with Non-zero Boundary Condition for Microrotation" Int. J. of Appl. Math. and Mech., vol. 10(7), 90-103, 2014. Susheel Kumar, "On Simple Exponent Sets of Polynomials", Mathematical Reviews (American Mathematical Society), MR3198612, 2014.

##### **B : CONFERENCE / SEMINAR / WORKSHOP PARTICIPATED**

- Prof. D.S. Hooda was invited as key note speaker at International Conference of Advanced Technology (ICAT'14) held at Antalya, Turkey, from August 12 - 15, 2014.
- Prof. D.S. Hooda participated and delivered an invited talk at 19th Annual Conference of GAMS held at SVNIT, Surat (Gujarat) from October 03 - 06, 2014.
- Prof. D.S.Hooda attended an International Conference held at Rustamji Institute of Technology, BSF Academy, Tekanpur, Gwalior(MP) and delivered an invited talk on "Mathematical Modeling and Simulation" from December 22 - 23, 2014.



**Prof. D. S. Hooda – Dean (Research) authored a book titled “Fuzzy Information Measure with Applications”, published by Narosa Publishing House.**

- Dr. H.K.Mishra attended an international workshop organized by Centre for Industrial Mathematics, Faculty of Technology and Engineering, M. S. University of Baroda, Kalabhavan Vadodara, Gujarat, held on January 04-09, 2015.
- Dr. Bali Ram Gupta presented a paper entitled “Stokes Flow over Composite Sphere: Liquid Core with Permeable Shell” in 59th congress of Indian society of Theoretical and Applied Mechanics organized by Alliance University, Bengaluru, during December 17-20, 2014.
- Dr. Susheel Kumar Presented research paper entitled “Logarithmic Order of Special Monogenic Functions” in the “1st International Conference of Indian Society of Information Theory and Applications” held at Sri Sai College of Engineering and Technology, Badhani, Punjab from January 16 - 19, 2015.

#### **C: BOOK PUBLISHED**

- Prof. D.S.Hooda authored a book titled “Fuzzy Information Measure with Applications” which was published by Narosa Publishing House, New Delhi, and released in the inaugural function of an International Conference at Rustamji Institute of Technology, BSF Academy, Tekanpur, Gwalior(MP) on December 22, 2014.

#### **D: AWARDS / HONOURS**

- Prof. D.S. Hooda was nominated as Chairman of an expert committee constituted by UGC to evaluate the performance and academic attainments for fresh Autonomous Status to A.B.V. Govt. Degree College, Jangaon, Warangal, Telangana. The visit took place from September 15 -16, 2014.
- Prof.D.S.Hooda has been appointed honorary member of Editorial Boards of American Journal of Applied Mathematics and Journal of Physical Sciences Research in November 2014. Prof. D.S. Hooda was nominated as a member of Board of Governors to RIET, Jaipur and attended the Annual meeting of BOG on December 12, 2014.

#### **MECHANICAL ENGINEERING**

##### **A : PUBLICATIONS IN JOURNALS**

- Mahendra Singh Sodha, Dhananjay R. Mishra and Anil Kr. Tiwari, “Solar Earth water Still for Highly Wet ground”, Journal of Fundamentals of Renewable Energy and Applications, vol. 4, No. 1, e103, 2014.
- Priyaranjan Sharma, Sujit Singh and Dhananjay R. Mishra, “Electrical Discharge Machining of AISI329 Stainless Steel Using Copper and Brass Rotary Tubular Electrode”, Procedia Materials Science, vol. 5, pp. 1771-1780, 2014.
- Kaushal Pratap Singh and Gavendra Norkey, “Selection of Optimum Machining Parameters For EN31 Alloy Steel in CNC Turning Using Taguchi Method”, JUET Research Journal of Science and Technology, vol. 1, No. 2, pp.179-189, 2014.
- Gavendra Norkeya, Avaniish Kumar Dubey and Sanat Agrawal, "Artificial Intelligence Based Modeling and Optimization of Heat Affected Zone in Nd:YAG Laser Cutting of Duralumin Sheet", Journal of Intelligent & Fuzzy Systems (JIFS), IOS Press, vol. 27, pp. 1545–1555, 2014.

##### **B: CONFERENCE / SEMINAR / WORKSHOP PARTICIPATED**

- Dhananjay R. Mishra, , presented a paper in, National conference on Advance materials at Sharada University, NOIDA, entitled, “Electrical stimulation of trapezoidal canals”, August 08-09, 2014.
- Kausal Pratap Singh, presented a paper, in Conference, organized by the Department of Mechanical Engineering, School of Engineering & Technology, Faculty of Engineering, Manipal University Jaipur, entitled, “An Analysis of the Effect of Process Parameters of Aluminium Sand Casting by Taguchi's Method”, on December 26 -27, 2014.
- Amit Sharma, presented a paper, in International Conference on Newest Drift in Mechanical Engineering (ICNDME-2014), M.M. University, Mullana, Haryana. entitled, “Electro Discharge Machining of Advanced Engineering Materials: An Overview”, December 20-21, 2014. Abhinav Sharma, presented a paper, in National Conference on Paradigms in Mechanical Engineering (PME-2014), MRIU, Faridabad, Haryana, entitled, “Electrical Discharge Machining of Superalloys: A Review”, December 20, 2014.

##### **C: Ph.D. AWARDED**

- Mr Yashwant Kumar Modi was awarded Ph.D. degree thesis entitled, "Faceted Models from GIS Data Formats for Terrain Modeling by Additive Manufacturing" under the supervision of Dr. Sanat Agrawal, Associate Professor and Head, MECH, JUET Guna, December 2014

#### **PHYSICS**

##### **A : CONFERENCE / SEMINAR / WORKSHOP PARTICIPATED**

- Dr. Salil Modak delivered an invited lecture entitled "Hysteresis in Soft Magnetic Materials" at Shri Vaishnav Institute of Technology and Science, Indore, on October 14, 2014.

##### **B: Ph.D AWARDED**

- Ms. Amrita Jain was awarded Ph.D. degree in October 2014. She had submitted a thesis entitled, “ Studies on Biomass Based Activated Charcoal for Electrochemical Double Layer Capacitors” under the supervision of Dr. S.K. Tripathi, Assistant Professor, Department of Physics, JUET Guna.



**Prof. S. Arunachalam – Director (Wind Energy & Application Center) has been admitted to the fellowship of the Indian National Academy of Engineering (INAE).**

## JAYPEE WIND ENGINEERING APPLICATION CENTRE

### A: PUBLICATIONS IN CONFERENCE

- S. Arunachalam and N. Lakshmanan, "Further studies on across-wind response of tall circular chimneys", Proceedings of the 7th. National Conference on Wind Engineering (NCWE 2014), Thapar University, pp:23-24, Patiala, 21-22 November, 2014,

### B: CONFERENCE / SHORT TERM COURSE / WORKSHOP PARTICIPATED

- Dr. S. Arunachalam participated and chaired a technical session in the 7th National Conference on Wind Engineering (NCWE 2014) at Thapar University, Patiala, and delivered the key-note speech on the research topic on "Further studies on across-wind response of tall circular chimneys", November 21-22, 2014.  
Dr. S. Arunachalam participated in the Annual Convention of the Indian National Academy of Engineering (INAE) held at Birla Institute of Scientific Research, and delivered an invited technical lecture on "Wind Loads on Buildings and Structures – R&D Contributions", December 12-13, 2014.

### C: AWARDS / HONOURS

- Dr. S. Arunachalam was admitted to the Fellowship of the Indian National Academy of Engineering (INAE), during its annual convention meeting held in Jaipur, December 12-13, 2014.

## JAYPEE CEMENT RESEARCH & DEVELOPMENT CENTRE

- Training programs of one day each, were conducted by Cement Research Development Centre at Technical Training Group (TTG), Jaypeenagar, Rewa for officers working in Jaypee group cement plants (Rewa, Bela, Baghwar, Bhilai Babupur).

## TRAINING & PLACEMENT ACTIVITIES

- Around 40 companies have visited JUET for recruitment process 2015 batch. Among them companies like Infosys, Cognizant, Wipro, NEC Technologies, Magic Software, IBM, Aricent, Vinsol, Naukri.Com, APAC Sourcing Solutions Ltd., NTT Data, Continental Automotives have offered 381 students. Details are as follows :-
  - Infosys selected 119 students.
  - Cognizant selected 154 students.
  - Wipro selected 85 students.
  - NEC Technologies selected 1 student.
  - Magic software selected 1 student.
  - IBM selected 4 students.
  - Aricent selected 2 students.
  - Vinsol selected 1 student.
  - Naukri.com selected 1 student.
  - APAC selected 3 students.
  - NTT Data selected 8 students.
  - Continental selected 2 students.

## STUDENTS' ACTIVITIES

- Student Branch of Computer Society of India, has organized following events during reported period and more than 1500 students have participated in these events -
 

Rapid Fire	September 29, 2014
C Workshop	November 02-07, 2014
Trace It Out	November 10, 2014
Pictionary	November 17, 2014
Web Designing Workshop (basic)	November 20-22, 2014
Web Designing Workshop (advance)	November 23-24, 2014
- Nineteen students from B.Tech. Mechanical Engineering Department achieved 13th Rank in the finals of the National Go-Kart Championship held in Bhopal and Indore, January 23-25, 2015.
- Rajat Garg (Er no. 131855) and his group won the first prize in the event Maglev at IIT Kharagpur, January 30-31, 2015.



**'Run for Unity – Marathon' was organized in the campus on the occasion of Sardar Patel Jayanti**

- ISF (IETE Students Forum) of ECE department conducted the following technical events during this period:
 

Tech Charades :	September 28, 2014
Arsenal :	October 30, 2014
Tech Corporate :	January 30, 2015

#### **JUET YOUTH CLUB (JYC)**

Following events were organized by the different wings of JYC during the period August 01–January 31, 2015.

- BOX OFFICE September 20, 2014
- FILMOLOGY September 24, 2014
- DUMBCHARADES November 05, 2014
- FUKREY November 19, 2014
- OPINIONS- THE DEBATE CHALLENGE September 26, 2014
- Model United Nation-General Assembly (MUN) November 23, 2014
- My Fair lady (English play) November 07, 2014
- G.K. QUIZ October 31, 2014
- El Partido Grande Freshers September 13, 2014
- RETRO MANIA November 13, 2014
- DJ NIGHT November 07, 2014
- PHOTOGRAPHY WORKSHOP September 26 - 27, 2014
- DESIGNING WORKSHOP November 08, 2014
- CAMS ON U November 24, 2014
- FREE LANCER November 05, 2014
- BADMINTON INTER YEAR LEAGUE November 24, 2014
- FOOTBALL INTER YEAR LEAGUE November 15, 2014
- BASKETBALL INTER YEAR LEAGUE November 10, 2014

#### **PROMOTIONS & APPOINTMENTS**

We congratulate following faculty members who were promoted during the reported duration of news letter:

- Mrs. Ranu Gupta (ECE), Mrs. Tamanna Agarwal (HSS), Mr. Panakaj Dhumka (MEC), Mrs. Rishika Chauhan (ECE), Mr. Amiya Kumar Sahaoo (MEC), Mr. Shiv Shankar (CE), Mr. Atull Bhattad (MEC), Mr. Amit Kumar Srivastava (CSE), Mr. Ashish Gupta (CSE), Mr. Anuj Kumar Yadav (CE), Dr. Sudip Kr. De (CHE) have been promoted from Assistant Professor (G-I) to Assistant Professor (G-II) during August 2014.

We also welcome the following new faculty members who have joined us during this period :

- Dr. Susheel Kumar joined as a Assistant Professor (G-II) in the department of Mathematics on September 13, 2014.
- Mr. Govind has joined as an Assistant Professor (G-1) in the department of Computer Science & Engineering on September 15, 2014.
- Mr. Abhishek Verma has joined as an Assistant Professor (G-1) in the department of Civil Engineering on January 05, 2015.
- Mr. Pankaj Gupta & Mr. Rohit Mishra have joined as Assistant Professors (G-1) in the department of Mechanical Engineering January 16, 2015.