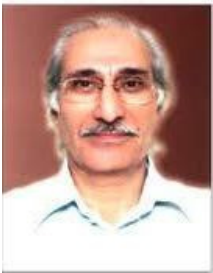




Vol.4 Iss. 3 (July-September 2014)



From the VC's Desk



Welcome to the rolling hills and misty landscape of Wajnaghat. Many fresh students are joining us and they are stepping into a new world, a new life and a new profession. Many new faculty members are also making their debut as teacher or as members of JUIT fraternity. A very warm hearty welcome to all these new students and faculty members to the JUIT family

On the professional front our faculty has been doing wonders by publishing new research findings in the top journals of the world and in recognition of which the JUIT has been rated in top 40 universities of India by the Edutech Magazine Aug. 2014 issue. This survey was

conducted for them by Rand Corporation of US. Along with that we have had the continuing accolades for the Biotech Department as the best & top most in the country among the Private Universities of India. My congratulations to the faculty, staff & students of JUIT for these achievements.

Many students and some of our alumni have won many distinctions and we congratulate them for these achievements. Ms Pallavi Chansoria & Tavishi Dutt won the first prize in the Great Debate held at PU, Chandigarh in collaboration with CRIKC, our congratulations to them. We wish them good luck for the grand finale in Delhi.

The JUIT sports team did us proud at the IIT Mandi sports meet by winning the first Prize in Volley Ball competition. Even the other sports participation results were encouraging.

Our final year students are trying their luck at the campus interviews and we are sure that they shall keep the JUIT flag flying high by their performance and meritorious accomplishments.

Many students have been complaining about the work load that is being assigned to them but forget that the more they work the better professional they shall become and that is why the teachers have created the tight academic schedule. I am sure that my students will not disappoint us nor let us down but come forward to shoulder this load with full zeal and determination to usher in a new learning revolution.

JUIT is a beautiful, clean and vibrant campus because we all believe in cleanliness, however, in some cases I have observed that students do not use the litter bins but throw around various wrappers and plastic bits and pieces. Even the empty cups are strewn around when they can be very well deposited in the dust bins.

Visit of British Deputy High Commissioner at JUIT

Deputy High Commissioner Mr. David Lelliott, accompanied by Ms. Tanisha Thiara (Sr. Trade & Investment Advisor) & Ms. Shivani Sharma (Advisor – Knowledge Economy) visited JUIT Waknaghat on 2nd September 2014. Prof. S.K. Kak, Vice Chancellor briefed

May I appeal to all my students, staff & faculty members to show no tolerance for littering in and around the JUIT campus but to ensure that each one of us observes the clean environment wove in his or her personal manners. We are going to celebrate 2nd Oct. 2014 as the Swachh Bhart Divas and let us work towards a clean and neat India.



him about the university. He visited library and all the laboratories of the all department. At the end of visit, he addressed the H.O.Ds and interacted with the students.

Visit of Officers of Ministry of Rural Development, Govt. of Himachal Pradesh

Officers of Ministry of Rural Development, Government of Himachal Pradesh, 10-12 Pradhans (heads) of Gram Panchayats of various villages of Hamirpur, Mandi, Karsog, Tatta Pani, Bilaspur, Una, Solan, Shimla , Civil engineers and Technicians visited JUIT on 23 Sep. 2014 to see the live demonstration of our biogas digester. Dr Sudhir Syal and Dr Ashish Kumar interacted with them about the



Awards and Honors

PhD of the Month



Mr. Shri Ram has successfully defended his PhD Viva-Voce in Library and Information Science at Department of Library and Information Science, Osmania University, Hyderabad. His was working under supervision of **Prof. N. Laxman Rao** on his research

topic **"Design and Development of Integrated Tool for Information Resource Access in Bioinformatics"**.



Mr. Ankush has successfully defended his Research work at Department of Physics and Material Science under supervision of **Prof. P.B. Barman**. He was working on his research topic **"Synthesis and Characterization of Sr.Fe₁₂O₁₉: Effects of Rare**

Earth Elements on Structural, Morphological and Magnetic Properties".

Publications

Journal Publications

Ganguly, R., Bansal, A., Mishra, M., Kumar, A. (2014). Application of Rainwater Harvesting Scheme in Shimla Region. *Hydrology Current Research*, 5(3), pp. 180.

Ganguly, R., Gupta, A.K., Mishra, M. (2014). Traffic Volume and Accident Studies on NH-22 between Solan and Shimla, India. *European Scientific Journal*, 2, pp. 248-254.

Gupta, D., Dutta, D. Kumar, M. Barman, P. B., Sarkar, C. K., Basu, S., and Hazra, S. K. (2014). A low temperature hydrogen sensor based on palladium nanoparticles. *Sensors and Actuators B: Chemical*, 196, pp. 215-222

Kalia, S. Kango, S., Kumar, A. Haldorai, Y. Kumari, B. and Kumar, Rajesh (2014). Magnetic polymer nanocomposites for environmental and biomedical applications. *Colloid Polymer Science*, 292(9), pp. 2025-2052.

Kaushik, R. and Bajaj, R.K. (2014). On Intuitionistic Fuzzy Entropy as Cost Function in Image Denoising. *International Journal of Applied Information System*, 7(5), pp. 1-5.

Kumar, G. and Bajaj, R.K. (2014). Intuitionistic Fuzzy Reliability of k-out-of-n System using Statistical Confidence Interval. *International Journal of Applied Information Systems*, 7(7), pp. 1-7.

Kumar, P., No-Lee, H. and Kumar, R. (2014). Synthesis of phase pure iron oxide polymorphs thin films and their enhanced magnetic properties. *Journal of Material Science: Materials in Electronics*, 25(10), pp. 4553-4561.

Kumar, T. and Bajaj, R.K. (2014). Fuzzy Information Measure in Weighted Fuzzy Linear Regression Model under Linear Restrictions with Simulation Study. *International Journal of General Systems*, 43(2), pp.135-148.

Pradhan, J.K. and Kumar, S. (2014). Informal e-waste recycling: environmental risk assessment of heavy metal contamination in Mandoli industrial area, Delhi, India. *Environmental Science and Pollution Research*, 21(13), pp. 7913-7928.

Ram, S. and N Laxman (2014). Metadata Description Framework for Integration of Bioinformatics Information Resources: A Case of iBIRA. *DESIDOC Journal of Library and Information Technology*, 34 (5), 384-392.

Sehgal, M. and Singh, T.R. (2014). DR-GAS: A database of functional genetic variants and their phosphorylation states in human DNA repair systems. *DNA Repair*, 16, pp. 97-103.

Sehgal, M. and Singh, T.R. (2014). Systems biology approach for mutational and site-specific structural investigation of DNA repair genes for xeroderma pigmentosum. *Gene*, 543, pp. 108-117.

Jain, T., Saini, D.S. and Bhooshan, S.V. (2014). Cluster Head Selection in a Homogeneous Wireless Sensor Network Ensuring Full Connectivity with Minimum Isolated Nodes. *Journal of Sensors*, 2014(2014), Article ID 724219.

Conference Publications

- Bansal, A., Ganguly, R. Kumar, A. and Mishra, M. (2014). Application of Rain Water Harvesting Scheme in Shimla. *Proceedings of International Conference on Hydrology & Meteorology*, [3rd: Hyderabad: 15-16 Sept. 2014].
- Ganguly, R., Gupta, A.K., Mishra, M. (2014). Traffic Volume and Accident Studies on NH-22 between Solan and Shimla, India. *Proceedings of the Annual International Interdisciplinary Conference* [2nd: Portugal: July 8-12, 2014], pp. 232-238.
- Gupta, D., Barman, P.B. and Hazra, S.K. (2014). Synthesis of palladium nano-particles for selective hydrogen sensing, *Proceedings of International Conference on Electron Microscopy & XXXV Annual Meeting of Electron Microscope Society of India*. July 9-11, 2014, Delhi, India, p-382-383
- Kumar, A. and Jaiswal, M. (2014). A nanotechnological approach to improve oral antidiabetic efficacy of phytochemicals extracted from *Tinospora cordifolia*: In-vivo and ex-vivo studies. *International Conference on Life Sciences, Informatics, Food and Environment*, [Noida: August 29-30, 2014].
- Kumar, A. Saini, H.S., and Kumar, S. (2014). Exploration of novel bacterial species from the abandoned gold mine for bioleaching and enhancement of gold recovery from E-Waste. *International Conference on Life Sciences, Informatics, Food and Environment*, [Noida: August 29-30, 2014].
- Kumar, A. Singh, R.R. & Barman, P.B. (2014). Effect of substitution and calcination on the morphological and magnetic properties of Pr₃-doped Hexaferrite Nanoparticles, *Proceedings of International Conference on Electron Microscopy & XXXV Annual Meeting of Electron Microscope Society of India*. July 9-11, 2014, University of Delhi, Delhi 110007, India, p. 378.
- Kumar, H., Barman, P.B., Singh, R.R. (2014). CdS/ZnS, ZnS/CdS and ZnS/CdS/ZnS Quantum dots: Growth and characterization, *Proceedings of International Conference on Electron Microscopy & XXXV Annual Meeting of Electron Microscope Society of India*. July 9-11, 2014, University of Delhi, Delhi 110007, India, p. 377.
- Kumar, R. Singh, R.R. & Barman, P.B. (2014). Synthesis and characterization of Emerging Ferrites, *Proceedings of International Conference on Electron Microscopy & XXXV Annual Meeting of Electron Microscope Society of India*.

Guest Editor

Dr. Jeetendra Virmani, Assistant Professor, Department of Electronics and Communication Engineering, JUIT has been appointed as one of the Guest Editor for the special issue on " Medical Image Mining for Computer Aided Diagnosis " of *International Journal of Rough Set and Data Analysis* to be published by IGI Global. Papers are solicited for the special issue till 31st December 2014. Further Details can be found at:

<http://www.igi-global.com/calls-for-papers-special/international-journal-rough-sets-data/73546>

July 9-11, 2014, University of Delhi, Delhi 110007, India,

Publication Statistics

Publication	Numbers
Books	18
Book Chapters	13
Journals	945
Conferences	672
Grand Total	1648

Productive Departments

Department	Publications
BT/BI	409
ECE	361
CSE	296
PHY	250
CIVIL	126
HSS	82
IT	74
PHAR	63
MATH	63
LRC	34

p. 379.

Malviya, P. and Saurav (2014). Comparative study of effect of floating columns on the cost analysis of a structure designed on STADD pro v8i. *International Journal of Scientific and Engineering Research*, 5(5), pp. 22-34.

Saurav and Gupta, A.K. (2014). Experimental study of strength relationship of concrete cube and concrete cylinder using ultra fine slag alccofine. *International Journal of Scientific and Engineering Research*, 5(5), pp. 102-107.

Kahyap, D. and Jain, T. (2014). Comparative analysis of time synchronization schemes for wireless sensor networks. *Proceedings of the International Conference on Signal Propagation and Computer Technology*, [Ajmer: 12-13 July, 2014], pp.106-109.

Invited Talk Delivered

Dr. Jeetendra Virmani delivered an invited talks on "*Analysis and Classification of Focal Liver Lesions*" at Deenbandhu Chhotu Ram University of Science and Technology on 22nd July 2014 during TEQIP Sponsored one week short term course on '*Recent Research Trends and Challenges in Image Processing using MatLab*'.

Dr. Jeetendra Virmani was invited as guest a speaker at Rayat and Bahra Institute of Engineering and Biotechnology Mohali, on the occasion of one week Faculty Development Program. He delivered his talk on "*Compensator Design Using Bode-Plots*" on 25th July 2014.

Mr. Tapan Jain, Assistant Professor, Department of Electronics and Communication Engineering JUIT, delivered an invited lecture on "*Fundamental of Wireless Communication*" at Chandigarh University, Chandigarh, on July 7, 2014.

Workshop Organized

Department of Mathematics has organized one day workshop on Business Process Simulation on 2nd

September, 2014 with an objective to familiarize audience with basic concepts of modeling and simulation and to introduce design and control of business processes through simulation modeling with the help of WEBGPSS, a discrete event simulation language. This workshop was conducted by Prof D.S Broca, XLRI Jamshedpur and a total 42 participants attended the workshop.

PhD Jury Board Member for Moroccan University

Dr. Tiratha Raj Singh was one of panel of jury for the award of PhD in Bioinformatics of a Moroccan student. It was for the first time in the history of the Tangier University, Tangier, Morocco that an Indian was included in the jury for the award of PhD.

Gene Sequence Submission

Shivani Sood, Varun Jaiswal, Poonam Katoch and Rahul Shrivastava submitted 5 novel gene sequences of *M. fortuitum* ATCC 6841 to GenBank: *M. fortuitum* homologues of *M. tuberculosis* Isocitrate lyase [GenBank ID : KM275229], sigma factor SigH [GenBank ID : KM282166], *pcaA* [GenBank ID : KM282163], nitrate reductase *narX* [GenBank ID : KM282164], nitrate/nitrite transporter *narK2* [GenBank ID : KM282165]

Forthcoming Workshop

The Department of Mathematics is organizing a One-week Workshop on "*Combinatorics and Graph Theory in Science and Engineering*" during November 3-8, 2014. Dr. Ashish Srivastava, Department of Mathematics & Computer Science, Saint Louis University, USA will be the resource person for the workshop.

The last date for registration is

10th October 2014.

*Let others see you shine like a star
Open your minds follow your heart,
Believe in yourself that's how it starts.
Be faithful be true,
Let the other person know who you are
Be confident have some self esteem,
So that in life you achieve your dream.
Let others say what they have to say,
Because it's you who is going to make your day.
Even if you start from nowhere,
If you work hard you can reach anywhere.
Be the real person you are,
Let others see you shine like a star.*

By: Ilisha Kaul B Tech First Year, CSE

e-Pathshala course coordinator

Dr. Gunjan Goel has developed the course entitled "Food borne Animal parasites" on Food Technology for post graduate students under MHRD sponsored National Mission on Education (NME-ICT) program (e-pathshala).

Saurabh Bansal has developed the course entitled "Bacterial agents of food borne diseases" on Food Technology for post graduate students in MHRD sponsored National Mission on Education (NME-ICT) program (e-pathshala).

GIVE BLOOD



SAVE LIFE

Blood Donation Camp at

Keeping the tradition of holding a Blood Donation Camp every year, this year also a blood donation camp was held at JUIT on 29th August 2014. Both the faculty and student had shown their huge response in this blood donation camp. According to Dr. Narinder Jaswal, the Chief Medical Officer, JUIT a total of 247 units of blood were donated

and was collected by the team from Indira Gandhi Medical College Shimla and District Hospital Solan.



Hilly Ramblings

Quarterly Newsletter of JUIT

Editorial Board

- Dr. S.K. Jain, Department of Civil Engineering
- Dr. D. S. Saini, Department of Electronics and Communication Engineering
- Dr. Aklank Jain, Department of Biotechnology & Bioinformatics
- Dr. S.K. Hazra, Dept of Physics and Material Science
- Mr. Deler Singh, Department of HSS
- Dr. Sakshi Babbar, Dept of Computer Science
- Dr. Shri Ram, Learning Resource Center
- Dr. Neel Kanth, Department of Mathematics

Comments and Feedback are invited at: hillyramblings@juit.ac.in