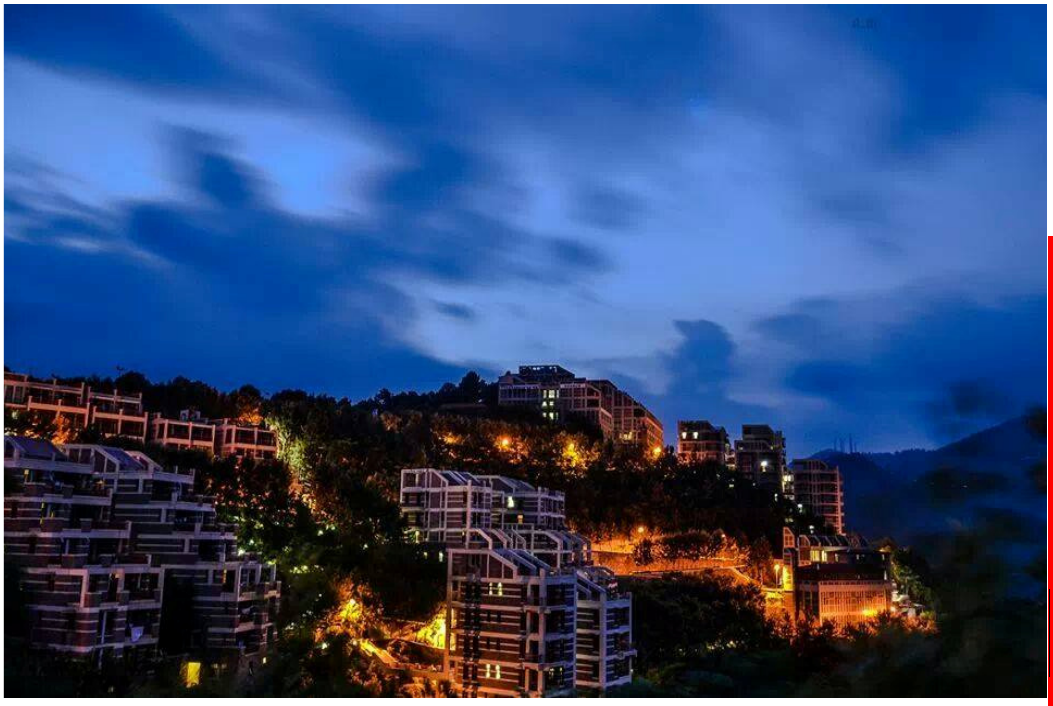

Hilly Ramblings

A Quarterly Newsletter of JUIT

Feedback and Suggestions may be directed at
hillyramblings@juit.ac.in

Vol. 4 Iss. 1 (January-March 2014)

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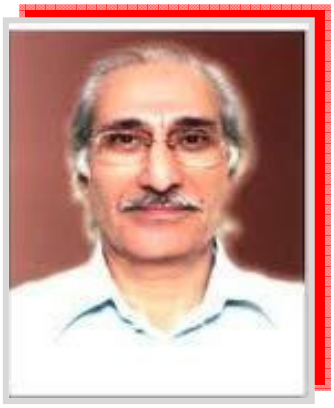
JUIT Welcomes its New Vice-Chancellor

Prof S. K. Kak



JUIT is happy to welcome its new

Vice-Chancellor Prof Siban Kishen Kak.

Brief Life Sketch of Professor Siban Kishen Kak

JUIT is fortunate to have Prof Siban Kishen Kak, an academician, administrator, motivator, and a visionary leader. He is born on April 18, 1947 at Srinagar, J&K State. He holds a B. Sc in Electrical Engineering, M. Tech in Microwave Engineering and PhD in Digital Communication from BHU Varanasi.

Prior to his current appointment as VC of JUIT, he has served as the founder Vice-Chancellor of Mahamaya Technical University, Noida, Vice-Chancellor of Chaudhary Charan Singh University, Meerut, UP and Professor of Electronics at Institute of Technology, Banaras Hindu University.

He has over 40 years of experience in academics & research (Communication Engineering, Communication Systems, Optical and Fiber Optic Communication, Data Networks, and Signal Processing) along with Industrial,

administrative and consultancy to several national and international organizations.

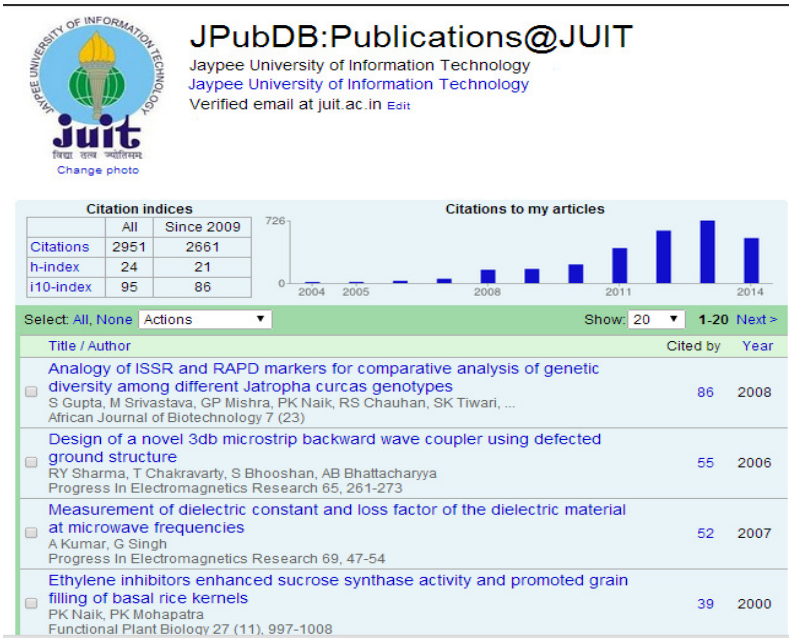
He has been the Member of the PDR & Apex Committee of "SAMYUKHTA" the indigenous EW solution for the Army by DRDO, from 1994 to 1997 and Member of Draft Certification Council (DCC) for the Telecommunication Engineering Centre:- "RFC's in switching Systems", and "RFC's in Network Device Interface for introducing National Standards for DOT Type approval in 1994. He has taught a wide spectrum of courses related to Electronics Engineering at IT BHU, Varanasi. He has guided 4 PhD theses, 54 M. Tech and 37 B. Tech level major projects on Electrical and Electronics Engineering. He has published more than 20 research papers in reputed journals and more than 35 publications in National or International refereed conference proceedings. He has participated in more than 36 Workshops, Refresher Courses, CEP & National & International Seminars as Guest Speaker, Invited Speaker, Plenary Speaker, and Session Chair or Co-Chair.

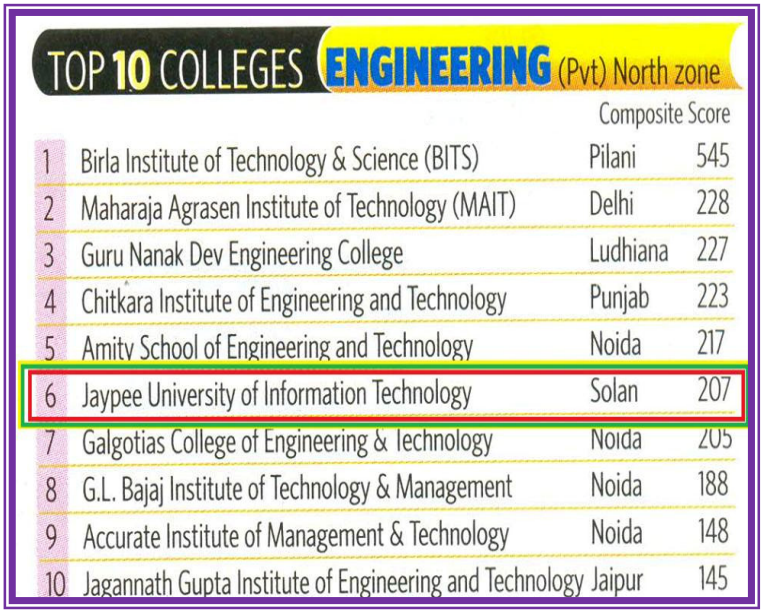
He holds one National and one US Patent for CPPM Technique in collaboration with Dr. Shubhra Verma. Under his supervision and guidance six products have been developed, which include - Electronic Teleprinter, PC - LAN Card using Intel LAN Co-Processor, Hand held Optical Power Meter, Speech Transliteration software and Synthesize, Optical Fiber based Surface Roughness Rester and CPPM Modem for Optical Fiber Transmission. Prof. S.K. Kak has received a number of prizes and awards, including best model prizes in 1965, 1967, 1968 at Technical Models Exhibition during the undergraduate studentship in BENCO. He has delivered more than 100 invited talks, Lectures, Keynote Addresses and Radio talks to ISRO, DRDO, ITI, SCIR, ASC and other organizations.

Library Launches Faculty Publication Database *(JPubDB)*

The Learning Resource Center, JUIT has launched the faculty publication database: **JPubDB**. This database is a compilation of university research publications, brought out by the faculty members of Jaypee University of Information Technology, Solan published in different journals, conferences, symposia, books and book chapters. As of now, the database contains more than 1500 articles.

It is a matter of pride that, all the departments of the university are contributing handsomely to the research. The papers have been published in high quality impact factor journal such as ***Nature*** (IF 36.2) and ***Progress in Polymer Science*** (IF 26.383). Of these publications more than 75% articles have been indexed in reputed database such as SCOPUS. The database can be accessed online at http://juit.ac.in/jpubdb.





TOP 10 COLLEGES ENGINEERING (Pvt) North zone

			Composite Score
1	Birla Institute of Technology & Science (BITS)	Pilani	545
2	Maharaja Agrasen Institute of Technology (MAIT)	Delhi	228
3	Guru Nanak Dev Engineering College	Ludhiana	227
4	Chitkara Institute of Engineering and Technology	Punjab	223
5	Amity School of Engineering and Technology	Noida	217
6	Jaypee University of Information Technology	Solan	207
7	Galgotias College of Engineering & Technology	Noida	205
8	G.L. Bajaj Institute of Technology & Management	Noida	188
9	Accurate Institute of Management & Technology	Noida	148
10	Jagannath Gupta Institute of Engineering and Technology	Jaipur	145

Ranking of JUIT by Different Agencies

JUIT has been ranked amongst the different technical, educational and research institution. A survey by http://www.careers360.com, has placed JUIT among Top 100 Engineering Research Institutes in India 2014. JUIT has scored a total of 59.65 out of 300 and has been placed at 40th rank. The ranking is based on the research work indexed in SCOPUS multidisciplinary database. In another ranking of top 10 private universities in North India by The Week Magazine, JUIT has been ranked at 6th.

Proud Moment for JUIT in Civil Services

JUIT feels proud on selection of **Ms. Abhineet Dhillon** with 665th rank in Indian Administrative Services Examination 2014. **Ms. Abhineet Dhillon**, has done B Tech in Electronics and Communication Engineering and passed out with an IAS tag. Prior to her, **Mr. Suhail Sharma** had made it to Indian Administrative Services and secured a rank of 172. He is an IPS Officer now.

Abhineet Dhillan, IAS (Photo Courtesy: Abhineet FaceBok Profile)

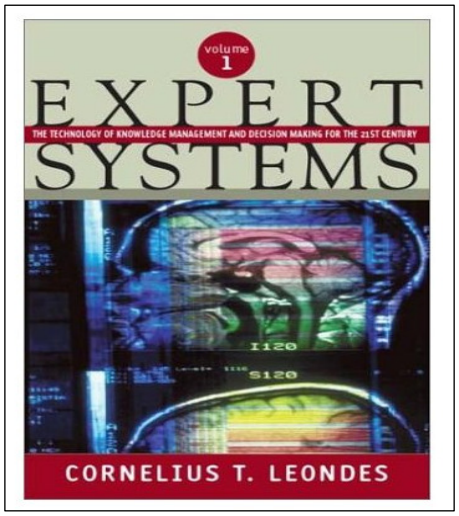
Book of the Month

Expert Systems: The Technology of Knowledge Management and Decision Making for the 21st Century (6 *vol. set)*

Author: ***Cornelius T. Leondes***

The library has enriched its collection by having this encyclopedia. This six-volume set presents cutting-edge advances and applications of expert systems. Because expert systems combine the expertise of engineers, computer scientists, and computer programmers, each group will benefit from buying this important reference work. An 'expert system' is a knowledge-based computer system that emulates the decision-making ability of a human expert. The primary role of the expert system is to perform appropriate functions under the close supervision of the human, whose work is supported by that expert system.

In the reverse, this same expert system can monitor and double check the human in the performance of a task. Human-computer interaction in our highly complex world requires the development of a wide array systems; image analysis, recognition and interpretation; cellular automata methods for pattern recognition; real-time fault tolerant control systems; and agricultural applications are the key topics.



New Joining

Dr Rajiv Ganguly, Associate Professor, Department of Civil Engineering

Dr Rajiv Ganguly joined JUIT as an Associate Professor in Civil Engineering in January 2014. Prior to joining JUIT, he worked as a Post-doctoral Research Fellow at the School of Public Health, University of Michigan, Ann Arbor, for a year. Before that, he taught at the Indus International University, Una, HP for a year. He holds a PhD from Trinity College Dublin, Ireland, M. E. from Jadavpur University, and a B.E. in Civil Engineering from Nagpur.

JUIT Bids Farewell to its Founder Vice-Chancellor

JUIT bids farewell to its founder Vice-Chancellor, Dr Yajulu Medury. Dr Medury had joined the Jaypee Education System setup by the Jaiprakash Sewa Sansthan, as Chief Operating Officer (Education). He was given a responsibility to setup world class higher education institutions as dreamed by the Chairman of Jaypee Group Shri Jai Prakash Gaur Ji.

Dr Medury's managerial capacity has led to the establishment of three world class institutions now known as JIIT, JUIT and JUET. He has been an inspiration to all the JUIT fraternity and on behalf of the editorial board and JUIT we wish him all the best. May GOD bless him with all the happiness in his life.

Forthcoming Events@JUIT

- Department of Mathematics is organizing a one day workshop on Modeling and Simulation on 2nd September, 2014. Prof D. S. Broca, XLRI,Jamshedpur has been invited as a resource person for the workshop.
- 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. The last date for registration is 10th October 2014.

Publications

Journal papers:

Abhay Pratap, Setu Taliyan, Tiratha Raj Singh (2014). NMDB: network motif database envisaged and explicated from human disease specific pathways *Journal of Biological Systems.* 22(1), 89.

Abhik Seal, Arun Gupta, M. Mahalaxmi, Riju Aykkal, Tiratha Raj Singh, Vadivel Arunachalam (2014). Tools, resources and databases for SNPs and indels in sequences: A review, *International Journal of Bioinformatics Research and Applications, 10*(3), 264-293.

Aditya Tiwary, Ashish Tiwari, Anil Kumar (2014). State-of-Art in Active, Semi-Active and Hybrid Control Systems for Tall Buildings, *International Journal of Engineering Research and Applications,* 2248-9622), AET Issue, pp. 1-5.

Anil Kumar, Poonam, Ashok Kumar Gupta (2014) Experimental Investigation of Influence of Micro Silica on High Strength Concrete Properties, *International Journal of Engineering Research and Applications*, AET Issue, pp. 45-49.

Anil kumar, Shiwani kaushal, Shivam Sharma, Hemant Sood (2014). *In vitro* callus induction and plantlet regeneration of *Swertia Chirayita*: A critically endangered medicinal plant. *International Journal of Pharmaceutical Sciences Review and* Research, 27(1), 94-96.

Anshu Aggarwal, S.K. Singla, Chanderdeep Tandon (2014). Urolithiasis: Phytotherapy as an adjunct therapy'. *Indian Journal of Experimental Biology, 52*(2), 103-111.

Anshul Sud, Raghav Shekhawat, Poonam (2014). *Best* Placement of Shear Walls in an RCC Space Frame Based on Seismic Response. *International Journal of Engineering Research and Applications*, AET Issue, pp. 41-44.

Gursharan Singh, S. Sevinç Şengor, Aditya Bhalla, Sudhir Kumar, Jaysankar De, Brandy Stewart, Nicolas Spycher, Timothy M. Ginn, Brent M. Peyton & Rajesh K. Sani (2014). Reoxidation of biogenic reduced uranium: A challenge toward bioremediation, *Critical Reviews in Environmental Science and Technology, 44*(4), 391-415.

Mamta Chauhan, Vijay Kumar Garlapati (2014). Modelling Embedded Optimization Strategy for Formulation of Bacterial Lipase based Bio-detergent. *Industrial & Engineering Chemistry Research, 53*(2): 514-520.

Mamta Mishra, Rahul Shrivastava, Sudhir Kumar (2014). Pop pills at will: Implications of self-medication. *Current Science, 106*(1), 9.

Publication Statistics by Departments

DEPT	Publications
BT/BI	351
ECE	345
CSE	254
PHY	246
CIE	117
HSS	82
IT	73
PHAR	61
MATH	58
LRC	32

Pratyush Malaviya, Sandeep Lamba, Anil Kumar (2014) Review of Algorithms for Control Systems for Civil Engineering Structures. *International Journal of Engineering Research and Applications*, AET Issue, pp. 35-40.

Shagun Arora, Chanderdeep Tandon, Simran Tandon (2014). Evaluation of the Cytotoxic Effects of CAM Therapies: An In Vitro Study in Normal Kidney Cell Lines. *Scientific World Journal. 2014*(ID:452892).

Sita Sharan Patel, Malairaman Udayabanu (2014). Urtica dioica extract attenuates depressive like behavior and associative memory dysfunction in dexamethasone induced diabetic mice. *Metabolic Brain Disease, 29*(1), 121-30.

Varun Bhardwaj, S. Chauhan, Kundan Sharma, Poonam Sharma (2014). Cosmeceutical active moleculesand ethoxylated alkylphenol (Triton X-100) in hydroalcoholic solutions: Transportproperties examination. *Thermochimica Acta, 577*(10 Feb 2014), 66-78.

Varun Bhardwaj, Tarun Bhardwaj, Kundan Sharma, Abhishek Gupta, S. Chauhan, Swaranjit Singh Cameotra, Shailesh Sharma, Richa Gupta and Poonam Sharma (2014). Drug surfactant interaction: Thermo-acoustic investigation of sodium dodecyl sulfate and antimicrobial drug (Levofloxacin) for potential pharmaceutical application. *RSC Advances, 4*(47), 24935-24943.

Conference publications/presentations:

A. Sud, Rajinder S. Chauhan, Chanderdeep Tandon (2014). Correlation of differentially expressed proteins with picroside biosynthesis in *Picrorhiza kurroa* – A proteomics approach. *National Conference on "Perspectives & Trends in Plant Sciences and Biotechnology*, [Chandigarh: February 21-23, 2014].

Akanksha Khandelwal, Ankit Srivastava, Mishti Chaudhary, Shweta Kaundal, Porangana Nayar, Neha Chauhan, Sanjana Shroff, Nirwan Upmanyu, Rashi Sharma, Zoya Faruqui and Aklank Jain (2014). A proteomic study of plasma proteins associated with head and neck squamous cell carcinoma. *33rd Annual Convention of Indian Association for Cancer Research*, [Thiruvananthapuram, February 13-15, 2014].

Aklank Jain, Albino Bacolla, Imee Del Mundo, Junhua Zhao, Guling Wang, Karen Vasquez (2014). DHX9 helicase is involved in preventing genomic instability induced by alternatively structured DNA in human cells. *33rd Annual Convention of Indian Association for Cancer Research*, [Thiruvananthapuram, February 13-15, 2014]

Anant Yadav, Shivani Sood, Rahul Shrivastava (2014) Promoter trap strategy for gene expression analysis under stress conditions of M. tuberculosis latency. *Proceedings of the 2nd International Science Symposium on HIV and Infectious Diseases*, [Chennai: 30 January - 1 February 2014].

Ankit Srivastava, Akanksha Khandelwal, Akriti Sharma, Prashee Ahluwalia and Aklank Jain (2014). Regulatory network of circulatory miRNAs: Non-invasive biomarkers for lung cancer. 33rd *Annual Convention of Indian Association for Cancer Research,* [Thiruvananthapuram, February 13-15, 2014].

Ankita Rana, Sudhir Kumar (2014). Bioleaching of precious metals from printed circuits board. *National Conference on Emerging horizons in Science and Technology*, [Punjab: January 17-18, 2014].

Jyoti Kaushik, S.K Singla, Chanderdeep Tandon (2014). Optimization of extraction parameters for *Tribulus terrestris* as an antiurolithiatic herbal product using response surface methodology. *National Conference on "Perspectives & Trends in Plant Sciences and Biotechnology,* [Chandigarh; February 21-23, 2014].

Mamta Kumari, Abhilash Tripathi, Sudhir Kumar (2014). Biogas production using food waste (Poster Presentation). *National conference on Emerging horizons in Science and Technology*, [Punjab. January 17-18, 2014].

Nikita Gupta, Gagan, Suman Sharma, Poonam (2014) *A Case Study of Seismic Performance of Buildings Located at Waknaghat, Solan*, *Proceedings of International Conference on Sustainable Innovative Techniques in Architecture*, Civil and Environmental Engineering, JNU Delhi, March 26-27, 2014, pp. 184-190.

Pawan Kumar, Tarun Pal, Varun Jaiswal, Hemant Sood and Rajinder S. Chauhan (2014). Computational mining of transcriptomes for transcription factors controlling various biological processes in *Podophyllum* spp. 2nd *International Conference on Agricultural and Horticultural Sciences*, [Hyderabad: February 03-05, 2014].

S.S. Patel, Udayabanu M. Urtica dioica attenuates the cognitive decline in streptozotocin-induced diabetic mice through modulation of insulin signaling pathway. *International Conference on Chemical Biology: Disease Mechanisms and Therapeutics*, [Hyderabad: February 2014].

Saumya Agrawal, Sudhir Kumar (2014). Characterization of cellulose degrading alkaliphillic bacteria from. *National conference on Emerging horizons in Science and Technology*, [Punjab: January 17-18, 2014].

Workshop held at JUIT

Department of Civil Engineering organized a workshop on Rock Mechanics and Dam Foundations during 29-30 March 2014. The principal lecturers for the workshop were Dr. Rajbal Singh, Joint Director, Central Soil and Material Research Station (CSMRS) New Delhi and Dr. V.M. Sharma, Director AIMIL New Delhi. The two day training programme was attended by 85 participants. The coordinators for the programme were Dr. A.K. Gupta and Dr. S.K. Jain.

Hilly Ramblings

Quarterly Newsletter of JUIT Vol. 4 Iss. 1, January-March 2014

Members of Editorial Board

- Dr. S.K. Jain, Department of Civil Engineering
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- Dr. Aklank Jain, Department of Biotechnology & Bioinformatics
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