



# HILLY RAMBLINGS

JUIT's Quarterly Newsletter



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## Contents:

- UGC Team Visit
- Publications
- Patent Published
- Conferences
- Activities @ JUIT
- Awards & Recognition
- Invited Talks
- Workshops Attended
- Promotions & Appointments
- PhDs Completed
- Knowledge Bytes

## UGC Team Visit

The UGC team visited our campus during 13th – 14th September, 2011. The team consisted of 9 members and was headed by Col. Dr. G. Thiruvassagam (Vice Chancellor, University of Madras) . The visit was satisfactory as stated by Col. Dr. G. Thiruvassagam in his concluding remark.

## Publications

Between July to September, 2011, the total number of research papers published by various departments, in different journals of repute is 8. The details are listed below:

- Singh T.R., Gupta A. Seal A., Mahalaxmi M., Riju A. and Arunachalam V., “Computational identification and analysis of single nucleotide polymorphisms and insertions/deletions in expressed sequence tag data of Eucalyptus”, *Journal of Genetics* Vol. 90, e34-38, 2011.
- Priyadarshini, Naik P.K, Sengupta D. Singh S. K., Tandon C. “Mode of interaction of calcium oxalate crystal with human phosphate cytidyltransferase 1: a novel inhibitor purified from human renal stone matrix”. *Journal of Biomedical Science and Engineering*” Vol 4, 591-598, 2011.
- Sharma A, Chauhan RS. “Repertoire of SSRs in the Castor Bean Genome and Their Utilization in Genetic Diversity Analysis in *Jatropha curcas*”. *Comp Funct. Genomics* 2011;2011:286089. Epub 2011
- Gupta N, Sharma SK, Rana JC, Chauhan RS. “Expression of flavonoid biosynthesis genes vis-à-vis rutin content variation in different growth stages of *Fagopyrum* species”. *J Plant Physiol.* 2011. [Epub ahead of print].
- Viranjay M. Srivastava, K. S. Yadav, and G. Singh, “Measurement Process of MOSFET Device parameters with VEE Pro Software for DP4T RF Switch,” *Int. J. Communications, Network and System Sciences*, vol. 4, no. 9, pp. 590-600, Sept. 2011. (DOI: 10.4236/ijcns.2011.49071).
- Viranjay M. Srivastava, K. S. Yadav, and G. Singh, “Design and Performance Analysis of Cylindrical Surrounding Double-Gate MOSFET for RF Switch,” *Elsevier J. of Microelectronics Journal*, vol. 42, no. 10, pp. 1124-1135, Oct. 2011. (DOI:10.1016/j.mejo.2011.07.003).
- Tanuj Kumar, Rakesh Kumar Bajaj and Nitin Gupta, “On Some Parametric Generalized Measures of Fuzzy Information, Directed Divergence and Information Improvement”, *International Journal of Computer Applications*, Vol. 30 (9), 5-10 (2011).
- Neeraj Gandotra, Rakesh K Bajaj and Nitin Gupta, “On Some Reliability Properties of Mean Inactivity Time under Weighing”, *International Journal of Computer Applications*, Vol. 30 (3), 28-32 (2011).

## Patent Published

- Chauhan RS, Arti Sharma and Payal Sood. 2010. Gene Markers for Selection and Development of High Oil Content *Jatropha*. (Patent Application No.292/DEL/2010), Publication Date : 02/09/2011.

## Editorial Board:

- Tejinderbir Singh Lamba
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## Conferences

There were 5 conference presentations outside India and 7 in India.

JUIT successfully organized 1 International Conference and 2 workshops during the quarter

- Prof Nirupama Prakash (HSS) acted as a Convenor of the International Conference on “Role of Humanities & Social Sciences in Holistic Development of Future Technocrats”, September 23-24, 2011.
- Priya P.P., and Singh T.R., “Functional annotation of Alzheimer’s related proteins through protein-protein interactions and other in silico methods”, Proceedings of the IInd IFIP International Conference, Goa, India, Sept. 22-25, 2011.
- Bhargava P., Gupta M. Gupta A. and Singh T.R., “WebGenPro: a Web Server for Genomic and Proteomic Analysis, Proceedings of the IInd IFIP International Conference, Goa, India, Sept. 22-25, 2011.
- Singhanian T., Singh G., Gupta A. and Singh T.R., “DoMoS: Domain and Motif Server for Functional Information”, Proceedings of the IInd IFIP International Conference, Goa, India, Sept. 22-25, 2011.
- Poonam Sharma and Varun Bhardwaj, “Conductometric Profiling: An Eminent Approach to Prosecute Micellar Behavior of SDS in Aqueous-Ethanol Media Containing Butylated Hydroxyanisole”, National Chemical Constellation Cheminar, NIIT Jalandhar, August 20-21, 2011.
- Alisha Kansra, Sahil Jain and Runni Mukherjee, "Optimization of parameters for inulin extraction from Agave", International Conference on Emerging Trends on Food and Health Security in Cold Deserts, DIHAR (DRDO)-Leh, September 23-25, 2011.
- C. Singh, J.K.Pradhan, P.K. Naik and H. Singh, “Green chemistry approach for the synthesis of biocompatible nanoparticles for application in cancer therapy,” International Conference on Emerging Trends on Food and Health Security in Cold Deserts, pp 104, DIHAR, DRDO, Leh-Ladakh, September 23-25, 2011.
- S.Garg, N. Bhatia, S. Khosa, J.K.Pradhan, P.K. Naik and H. Singh”The Phylogenetic Relationship Between the Endangered Pheasant Species of Himalayan Region” International Conference on Emerging Trends on Food and Health Security in Cold Deserts, pp 163, DIHAR, DRDO, Leh-Ladakh, September 23-25, 2011.
- D. John, A. Uphadyay, A. Gairola, G. Singla, “Wind induced interference effect on rigid model of cooling tower”, 13th International Conference on Wind Engineering (ICWE13), July 10-15, 2011, Amsterdam, The Netherlands .
- D. John, A. Gairola, S. Banerjee, R. Ghosh, R. K. Sen, “Wind induced vibration of scale model of power station chimney- an experimental case study”, 13th International Conference on Wind Engineering (ICWE13), July 10-15, 2011, Amsterdam, The Netherlands.
- Singh, R. Goyal, A.K. Gupta and A. Ogra, “Greenroads: A Portrait of Sustainable Design and Construction for Indian Roads,” Proc., International Conference on Construction and Project Management, 16-18 Sept. 2011, Singapore, organized by International Economics Development and Research Center (IEDRC), Hong Kong.
- Prof Nirupama Prakash (HSS) presented a paper on “Socio Economic Upliftment of Rural Women through ICT” at the Women’s World 2011 Conference, Ottawa, Canada, July 3-7, 2011.
- Prof Nirupama Prakash (HSS) presented a paper on “Translation as a Medium for Preservation of Culture & Social Values- Texts of Ramayana & Mahabharata” at the Literature and Translation Conference , Monash University, Caulfield Campus, Melbourne, Australia, 11-12 July 2011.

## Activities @ IUIT

- Biotechnology & Bioinformatics organized a Workshop on “PARADIGMS OF SYNTHETIC BIOLOGY (PSB)” from 26th July to 28th July 2011 jointly organised by Jaypee University of Information Technology (JUIT) and the Joint BioEnergy Institute, Emeryville, CA, USA.
- ECE department has organized 5 day workshop on Wireless Sensor Networks 2011 as part of Indo US Engineering Faculty Leadership Institute from 5th July to 9th July.
- A three day educational tour was organised for the 3rd year Civil Engineering students during 20 – 22 August 2011. The students visited the construction site of a hospital at Palampur and a world-class cricket stadium at Dharmashala. The students were provided information on various planning and construction aspects of these facilities. The tour was coordinated by Dr. Alok David John and Dr. Deepti Muley.
- The Department of Civil Engineering organised an IUCEE workshop on “Project Management and Heavy Construction Equipments” from 8– 12 August 2011. The speaker, Dr. Vineet Kamat, Associate Professor, University of Michigan USA, was quite effective in creating an interest in the subject in the faculty and the students of JUIT and external participants. The workshop coordinators were Dr. Ashok K. Gupta and Dr. Seema.
- Department of Humanities and Social Sciences organized a two days International conference on “Consultation and Experience Sharing on Role of Humanities & Social Sciences in Holistic Development of Future Technocrats – Looking Ahead”. About Nearly 95 papers were presented including 13 papers by students and HSS faculty from JUIT Waknaghat. 80 external delegates participated in the event. The background of delegates varied from engineering, biotechnology, natural sciences and social sciences from India represented by IITs., BITS-Pilani, IISc, Universities, IT Industry, Government organizations, NGO, Management Institutes and overseas ranging from the United States, Spain, United Kingdom, Australia, Israel, Poland, Mauritius, Philippines, Malaysia, Nepal.

Few faculty members of the University have been invited as a resource person for conferences & workshops at different places.

### Awards and Recognition

- Prof. C. Tandon has got DST (Department of Science & Technology), Govt. of India sponsored project for ~Rs. 50 lakhs entitled, "Characterization of the antilithiatic proteins from Tamarindus indica and Terminalia arjuna and evaluation of their cytoprotective role on oxalate-induced renal tubular epithelial cell injury"
- Dr. Garlapati Vijay Kumar has been awarded "A4U Postdoctoral Fellowship" for conducting research on "Microbial electrolysis of cells" at Chemical engineering department, Universitat Autònoma de Barcelona (UAB), Barcelona, Spain.

### Invited Talks

- RS Chauhan, N. Gupta, A. Panwar & JC Rana. 2011. Molecular Dissection of Flavonoids (rutin) Biosynthesis in a Nutraceutical Food Crop (Fagopyrum spp.). International Conference on Emerging Trends on Food and Health Security in Cold Deserts. September 23-25, 2011, Leh-Ladakh, India
- Dr. Ashok K. Gupta, Dr. Rajesh Goyal and Mr. Anil Kumar from Civil Engineering were invited by NTPC, Kol Dam, Bilaspur (HP) to deliver a series of lectures on 'High Strength Concrete for Hydropower Projects' and 'M80 concrete mix design' at a 2-day training programme for NTPC Engineers during July 7-8, 2011.
- Dr. Ashok K. Gupta and Dr. Rajesh Goyal were invited as speakers in a national conference, "Emerging Trends in Civil Engineering." organized by the E-Max Group of Institutions, Kalpi, Ambala, on 25 August 2011.
- Dr. Rakesh Kumar Bajaj was invited as a resource person in the Science Camps under INSPIRE Internship programme funded by Department of Science and Technology (DST), Government of India, New Delhi, organized at Shoolini University during 26th to 30th August, 2011.

### Workshops Attended

- Dr. Amit Srivastava (HSS) attended a three days workshop on "Tools and Techniques in Statistics and Simulation" from 29th September 2011 to 1st October 2011 at BITS, Pilani.
- Mr. Tapan Jain (ECE) and Ms. Shruti Jain (CSE & ICT) attended IUCEE FLI Workshop on "Artificial Intelligence, Computer Vision and Multimedia Information Retrieval" at JUIT from 04 - 8 July, 2011.
- Dr. Amit Goel (Civil) attended an IUCEE workshop titled "MATLAB: An Interactive Environment for Signal Processing" from 25th to 26th July, 2011, at Chitkara University, Solan.
- Dr. S.K. Jain attended a workshop on "Grouting and Deep Mixing," during 25-26 August 2011 at the Central Board of Irrigation and Power, Chanakyapuri, New Delhi.
- Dr. Rakesh Kumar Bajaj and Dr. Nitin Gupta attended a Workshop on "Data Mining and Parallel Computing" jointly organized by JUIT, Wagnaghat & University of Florida, USA, during August 2-5, 2011 at JUIT, Wagnaghat.
- Dr. Rakesh Kumar Bajaj and Dr. Nitin Gupta attended IUCEE 2011 Indo-US Faculty Leadership Institute course on "Artificial Neural Networks, Pattern Recognition, Computer Vision and Multimedia Information Retrieval" from July 4-8, 2011 at JUIT, Wagnaghat, Himachal Pradesh.

### Promotions and Appointments

- Dr. Antresh Kumar joined Dept. of Biotechnology and Bioinformatics as a Lecturer in July 2011. He did his Ph.D. (Life Science) from Jawaharlal Nehru University (2010), He was a Pre-Doctoral fellow at National Cancer Institute, NIH, Bethesda, USA (2008-2009) and Post Doctoral fellow at Jawaharlal Nehru University (June 2010-July 2011).
- Dr. Harish Changotra has joined Department of Biotechnology and Bioinformatics as an Assistant Professor in July 2011. Before joining JUIT, he worked as a Post-Doctoral Scientist in US and his research work was focused on herpes virus and norovirus biology. He has also worked on Hepatitis B Virus for his doctoral thesis which he completed from Guru Nanak Dev University, Amritsar, Punjab.
- Dr. Jitendraa Vashist has joined Department of Biotechnology and Bioinformatics in July 2011 as Lecturer. Prior to this, he was working as ICMR-Research Associate in AIIMS, New Delhi. He gained his Doctoral degree in Biochemistry from AIIMS, New Delhi. His research area is Bacterial resistance mechanisms against antibiotics and clinical proteomics.
- Dr. Usman Mohammed (PhD., University of Strathclyde, Glasgow, UK) and Dr. B. Ghosh (PhD., IIT Roorkee) has joined the university as Assistant Professor in July.
- Mr. Komal Jhangel (M.Tech IIT Guwahati), Mrs. Sunita Sharma (M.Tech IIT Delhi) and Mr. Bhupender Kumar (M.Tech, IIT Kanpur) has joined as Senior Lecturer in July.
- Mr. Abhilash Shukla has joined the Civil Engineering Department as Lecturer effective 11th July 2011 after completing M.Tech. in Structural Engineering at BIT Mesra, Ranchi in June 2011. He obtained a B.Tech. in Civil Engineering from JUIT in 2009 while studying at JIET, Guna.

During the quarter, 6 faculty members joined as a Lecturer and 3 as an Assistant Professor.

During the quarter 2 faculty members were promoted to Associate Professor, 3 to Assistant Professor, and 2 were promoted to Senior Lecturer.

- Mr. Chandra Pal Gautam has joined the Civil Engineering Department as Lecturer effective 15 July 2011. Prior to joining JUIT he taught at ICFAI University, Dehradun, for 1 year. He has a M.Tech. in Structural Engineering (2010) and a B.Tech. in Civil Engineering (2010), both from IIT Kharagpur.
- Mr. Rahul Shukla has joined the Dept of HSS as a Lecturer on 13<sup>th</sup> July. He is a recipient of Fulbright Fellowship where he as a Teaching and Research Assistant at University of Pennsylvania, Philadelphia, USA. He has already given his pre-submission presentation on his thesis for the final submission at University of Lucknow, Lucknow
- Dr. Anil Sehrawat (Asst. Professor, HSS) rejoined JUIT, Waknaghat after returning back from JBS, Noida.
- Dr. Pradeep Kumar Naik has been promoted to Associate Professor in Biotechnology & Bioinformatics.
- Dr. Hemant Sood has been promoted to Senior Lecturer in Biotechnology & Bioinformatics
- Dr. Yashwant Singh was promoted to Assistant Professor from Sr. Lecturer (01-08-2011).
- Dr. D S Saini has been promoted to Associate Professor w.e.f. 1st July.
- Mr. Mohammed Wajid has been promoted to Sr. Lecturer w.e.f. 1st August.
- Dr. Amit Goel (Civil) has been promoted to Assistant Professor w. e. f. 12th August 2011.
- Dr. Deepti Muley (Civil) has been promoted to Assistant Professor w. e. f. 25th August 2011.

### PhDs Completed

- Mr. Yashwant Singh (CSE & ICT) successfully Defended PhD from department of Computer Science, Himachal Pradesh University Shimla on Title: "Reusability of Models:Transformation in Model Driven Architecture" (12-07-2011).
- Mr. RAVI RASTOGI (CSE & ICT) successfully Defended on 12th Aug, 2011 PhD from Uttarakhand Technical University, Dehradun on title: "DESIGNING Fault-tolerant Multi-stage Interconnection Networks with Disjoint Paths and collision solving" (12th Aug, 2011).
- Mr. Amit Goel (Civil) has been awarded a Ph.D. for his thesis titled, "Study on estimation of thermal profile, interlayer bond and anomaly condition of asphalt layer by spectral analysis of surface waves method" by IIT Kanpur.
- Ms. Deepti Muley (Civil) has been awarded a Ph.D. for her thesis titled, "Evaluating the transport impacts of Transit Oriented Developments (TODs)," by Queensland University of Technology, Brisbane, Australia.

4 faculty members have completed their PhD.

### Knowledge Bytes

This time we are giving some interesting riddles. Answers will be published in the next issue of the newsletter.

- I'm a four-digit number! My 2nd digit is twice greater than my 3rd. The sum of all my digits is thrice greater than my last digit! The product of my 3rd and 4th digits is 12 times greater than the ratio of my 2nd to 3rd. What am I?
- Three men eat dinner in a restaurant. The bill is Rs25. They each put in Rs10. The waiter brings back five ones. They give the waiter a Rs2 tip and keep Rs1 each. So now each person spent Rs9. If  $3 \times 9 = \text{Rs}27$ , plus Rs2 for tip = \$29, where did the other rupee go?
- I know a man who knows a man who knows a man's cousin who knows the best friend of a man's cousin's sister who knows what the answer is to this question. How many people were involved in this riddle?
- Four members of a band are walking to a night concert. They decide to take a shortcut, but must cross a bridge. Luckily they have one flashlight. Because of the varying size of their instruments, it takes each member a different amount of time to cross the bridge - it takes the first person one minute, the second person two minutes, the third person five minutes and the fourth person ten minutes. They must cross the bridge in pairs, traveling at the slower speed so if the one minute person went with the ten minute person, it would take a total of ten minutes. Since there is only one flashlight, one person must come back across the bridge, then another pair can cross. They only have 17 minutes to cross the bridge and still get to the concert on time. What order should they cross to get everyone across and get to the concert?