



# HILLY RAMBLINGS

JUIT's Quarterly Newsletter



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## NAAC Visit

The National Assessment and Accreditation Council (NAAC) Peer Team visited our campus during 28th – 30th March, 2011. The team members were Prof. S.K. Saidapur (Former VC, Karnataka University), Prof. A.G. Keskar (VNIT, Nagpur) and Prof. Sher Ali (NII, New Delhi). The steering committee consisted of Prof. Harinder Singh, Brig. (Retd.) Balbir Singh and Prof. Karanjeet Singh assisted by all the respective Heads of the Department of the University. The visit was satisfactory as stated by the NAAC Peer Team Chairman Prof. Saidapur in his concluding remarks.

## Publications

- Tandon C., Chaudhary P. and R. S. Chauhan, "Mechanisms and animal models of aortic calcification", *Journal of Pharmaceutical and Biomedical Sciences*, Vol. 4, 2011.
- Biswas, S., Kushwaha, S.K., Mandel, R.S., Roy, S., and H.R. Das, "Structural Model Based Designing of Inhibitors for Glial Fibrillary Protein," *Annals of Biological Research*, Vol. 2, 40-50, 2011.
- Gupta A., Chaukiker D., and T.R. Singh, "Comparative analysis of computational epitope predictions: proposed library of putative vaccine candidates for HIV", *Bioinformation*, Vol. 5, 386-389, 2011.
- Naik P.K., Ram S. and H. Singh, "Population structure and molecular characterization of *Podophyllum hexandrum* of the northwestern Himalayas". In *Medicinal Plant Biotechnology*, Edited by Rajesh Arora, pp 267-276. UK, C.A.B. International, 2011.
- Joshi H.C., Salil A., Bughani U. and P.K. Naik, "Noscapinoids: a new class of anticancer drugs demand biotechnology intervention". In *Medicinal Plant Biotechnology*, Edited by Rajesh Arora, pp 303-320. UK, C.A.B. International, 2011.
- Singh, C, Sharma V., Naik P.K., Khandelwal V. and H. Singh, "A green biogenic approach for synthesis of gold and silver nanoparticles using *zingiber officinale*," *Digest Journal of Nanomaterials and Biostructures*, Vol. 6(2), 535-542, 2011.
- Nema, A., Aishwarya, Bajaj, P., Singh, H., S. Kumar "A case study: biomedical waste management practices at city hospital in Himachal Pradesh". *Waste Management and Research*. Online first published on March 07, 2011 as DOI: 10.1177/0734242X10396753.
- P.K. Gupta and G. Singh, "A Framework of Creating Intelligent Power Profiles in Operating Systems to Minimize Power Consumption and Greenhouse Effect Caused by Computer Systems," *Journal of Green Engineering*, Vol. 01, Issue 2, Jan 2011.
- Vipin Tyagi, Brig S.P. Gherera and Amit, "Biometrics Recognition: An overview", *Indian Science Cruiser*, Vol. 24, no. 5, Nov. 10, pp. 26-31
- Yashwant Singh, Manu Sood, Tarun Gupta and Atish Thakur, "Incorporating AOSD to Enhance Model Driven Architecture", *Journal of Software Engineering and Applications Volumes 4 (1)*, pp.18–22, January 2011. DOI: 10.4236/jsea.2011.41003.
- S. Maheshwari, J. Mohan, and D.S. Chauhan, "Cascadable all-pass and notch filter configurations employing two plus-type DDCCs," *Journal of Circuits, Systems, and Computers*, Vol. 20, pp. 329-347, 2011. DOI: 10.1142/S0218126611007281.
- V.M. Srivastava, K. S. Yadav, and G. Singh, "Capacitive Model and S-parameters of Double-Pole Four-Throw Double-Gate RF CMOS Switch," *International Journal of Wireless Engineering and Technology*, Vol. 2, No. 1, pp. 15-22, Jan. 2011
- V.M. Srivastava, K.S. Yadav, and G. Singh, "Design and performance analysis of double-gate MOSFET over single-gate MOSFET for RF switch," *Journal of Microelectronics*, Vol. 42, No. 3, pp. 527-534, March 2011.

## Editorial Board:

- Tejinderbir Singh Lamba
- Chanderdeep Tandon
- Sunil Kumar Khah
- Subodh Kumar Jain
- Davinder Singh Saini
- Rakesh Kumar Bajaj
- Shipra Sharma
- Amit Srivastava

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- Srivastava, A. and Medury, Y., “An Overview of India’s Intra-Industry Trade”, Asia-Pacific Business Review, Vol. VII, No. 1, 153-160, 2011.
- Kaur, A. and Medury, Y., “Impact of familial characteristics on Indian children’s influence in family purchases”, International Journal of Indian Culture and Business Management. Vol 4, No 1, 104 -122, 2011.
- B. Gupta, Priyank, and D.S. Saini, “Performance improvement in OFDM with near Shannon Turbo codes,” International Journal of System Simulation, Vol. 5, No. 2, Jan 2011. ISSN: 0975-2080.
- M. Mahajan, T. Chakravarty, S.K. Khah, “Input Impedance of Asymmetrically Loaded Annular Ring Antenna” Journal of Electromagnetic Analysis and Applications., Vol.3.No.3. 90-93, 2011.
- Mojumder, T., Das, M. and Prakash, N., “Impact of Education on the Health of Rural Women: A Case Study”, University News, Vol. 49, No. 9, 20-23, 2011.
- K.Singh ,R.K.Gupta and Sachin Kumar, “Benjamin-Bona-Mahony (BBM) Equation with Variable Coefficients: Similarity Reductions and Painleve Analysis”, Applied Mathematics and Computation, 217(2011)7021-7027.

There were 18 Journal and 20 Conference Publications during the quarter.

### Conferences



- S. Joshi, S. Yadav, G. S. Bisht and S. Pasha, “Role of primary amphipathicity in imparting toxicity to Sarcotoxin-Cecropin hybrid peptide CS-1,” 3rd Indian peptide Symposium-2011, pp-105, India, Pune, Feb. 24, 2011.
- R. Shrivastava, B. S. Srivastava and Ranjana Srivastava, “Mycobacterium fortuitum murine infection model: Persistence and Reactivation,” National Symposium on Current Perspectives in Animal Biotechnology, pp6-7, Tiruchirappalli, Tamil Nadu, Feb 3-4, 2011.
- C. Singh, and H. Singh, “Synthesis of gold nanoparticles using Trigonella foenum-graecum: A green biogenic approach,” Nanotechnology in Advanced Drug Delivery, pp 10, NIPER, Mohali, Feb 28 - Mar 4, 2011.
- G. Dey. “Probiotication of high acidity juice of seabuckthorn juice (Hippophae rhamnoides),” World Congress on Biotechnology, Hyderabad, India, March 21, 2011.
- P.K. Gupta, Kapil Kumar, and Roshan Parjapat, “New Mutants Generation for Testing Java Programs”, Accepted to appear in Springer-Verlag CCIS 142 of Second International Conference on Advances in Communication, Network, and Computing – CNC 2011, pp. 290-294 India, Mar-2011.
- P.K. Gupta and Sanjeev Patel, “Drift Analysis of Backlogged Packets in Slotted ALOHA”, Proceedings of 3rd IEEE International Conference on Machine Learning and Computing (ICMLC 2011), Singapore, Feb 2011.
- P.K. Gupta and Pardeep Kumar, “Secure Storage Multi-Tenancy and Measuring ROI for Cloud Computing”, Proceedings of 98<sup>th</sup> Indian Science Congress, pp 98, Chennai, India, Jan 2011.
- Utkarsh Shukla and P. K. Gupta “Smart Web Crawling Agent”, Proceedings of 98<sup>th</sup> Indian Science Congress, pp 96, Chennai, India, Jan 2011.
- Vipin Tyagi, Nitin and V.P. Bhardwaj “Fault Tolerant Multistage Multicasting Interconnection Networks”, 98th Indian Science Congress, January 3-7, 2011
- Satish Chandra, Prateek Mehrotra, Ravi Anand, “Design of Ant Colony Based MEB Trees”, Proceedings of 98th Indian Science Congress, pp 98, Chennai, India, Jan 2011.
- Amit Kumar Singh, S.P. Ghrera, Amrit Kumar Agrawal “Fingerprint Feature Extraction Algorithm on Different Databases” 98th Indian Science Congress, SRM University, Kattankulathur, Tamilnadu, pp. 117, 3rd -7th January, 2011.
- R. Goyal, A.K. Gupta, A.K. Ahuja, “Corner Zone Wind Pressure Distribution on Inclined Canopy,” Proc., International Conference on Technological Advancements in Civil Engineering, 19-20 Feb. 2011, R.M.K. Engineering College, Chennai, India, pp. 35-41. (IEEE Catalog No. CFP1148M-ART).
- A. Usmani, A. Nanda, S.K. Jain, “Analysis, Design and Construction of Large Shafts in Lateritic Soils,” Proc. Third Indian Young Geotechnical Engineers Conference (3IYGEC), Indian Geotechnical Society, New Delhi, 25-26 March 2011, pp. 293-298.
- A. D. John, A. Gairola, E. Ganju, A. Gupta, “Design wind loads on reinforced concrete chimney – an experimental case study,” The Twelfth East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-12), Hong Kong, China.
- A. D. John, G. Singla, S. Shukla, R. Dua, “Interference effect on wind loads on gable roof building”, The Twelfth East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-12), Jan 26-28, 2011, Hong Kong, China.
- B. Gupta and D. S. Saini, “BER Performance Improvement in Coded-OFDM systems using Equalization Algorithms”, in Proc. of International Conference on Control, Robotics and cybernetics (ICRC 11), vol.2, pp. 205-210, Mar 2011
- S. Jain, P. K. Naik, S. V. Bhooshan, “Synthetic Biology : Apoptosis and cancer”, 5th International Multi Conference on Intelligent Systems, Sustainable, New and Renewable Energy Technology & Nanotechnology (IISN-2011), Feb. 18-20, 2011, Ambala, India
- Neelkanth, “Modelling and Simulation of paper mill calenders (Nip Mechanics Model)” in 14th Punjab Science Congress held at SLIET Longowal during 7-9 Feb, 2011.

There were 2 conference presentations abroad.



- Sunil Kumar Khah, “Stacked element microstrip antenna array for wide bandwidth” in 98th Indian Science Congress, Jan. 3-7, 2011 Chennai.
- R.S. Chaudhry and S. Mishra, “Managing Sustainable Development Of Rural Economy and Agri Business-rural entrepreneurial model for ICT”, International Conference on Managing Sustainable Development of Rural Economy and Agri Business, BHU, Varanasi, January 21-23, 2011.
- R.S. Chaudhry, S. Goyal and K. Jain, “Impact of Value Addition On Brand Loyalty- A Case Study of Nokia Cell Phones”, International Conference On Value Creation For Competitive Differentiation: Emerging Business Models In The Global Economy, Prestige Institute Of Management And Research, Indore, (M.P.), January 30-31, 2011.



Three faculty members joined the university during the quarter.

### Invited Talks

- Mr. Dipankar Sen Gupta was invited as a resource person in workshop titled “Use of Bioinformatics Tools in Genomics & Proteomics” organized by Himachal Pradesh Agricultural University, Palampur from 15th -16th March 2011.
- Prof. Nirupama Prakash was invited as a Keynote speaker during the International Conference on Science & Technology for Empowering Women, Mahila Utsav, Celebrations of International Women's Day, March 8, 2011, Rajiv Gandhi National Institute of Youth Development (Deemed University), Ministry of Youth Affairs and Sports, Government of India, Sriperumbudur.
- Prof. Nirupama Prakash invited as a resource person for the Refresher Course on Gender Studies for University Teachers/Colleges, organized by Department of Sociology, Panjab University, Chandigarh, March 1, 2011.
- Prof. Nirupama Prakash was invited as a Panelist on “Culture, Development and Environment : Intersecting Social Science Boundaries-Gender Perspective” at the ICSSR Seminar on “Issues for Social Scientists in North-Western India”, Dept. of Sociology, Panjab University, Chandigarh, February 2, 2011.
- Dr. S.K. Jain delivered a lecture titled “Critical state modeling of a plastic silt.” at IIT Madras during an AICTE sponsored QIP Short Term Course titled, Numerical Methods for Optimal Geotechnical Designs, during January 17-22, 2011.
- Mr. Dipankar Sen Gupta was invited as a resource person in workshop titled “Bioinformatics: A tool for Analyzing Genome and their Phylogenetic Relationship” on 15th January 2011 at Bioinformatics Center, Himachal Pradesh University, Shimla.
- Dr. Vipin Tyagi was invited for “Presidential Address on Ethics in Education and Research- Engineering Sciences” Section of 98th Indian Science Congress held at SRM University, Chennai, January 3-7, 2011.
- Prof. Nirupama Prakash was invited to deliver a Talk on “Women and Science & Technology : Issues & Challenges” at the Indian Science Congress, Chennai, January 6, 2011.



Two PhDs have been completed during the quarter.

### Promotions

- Dr. Deepak Dhaiya (CSE) has been promoted to Professor w.e.f 15th Feb 2011.
- Dr. Vipin Tyagi (CSE) has been promoted to Associate Professor. w.e.f 15th Feb 2011.
- Mr. V. M. Srivastava (ECE) has been promoted to Sr. Lecturer w.e.f. 1st Jan 2011.
- Mr. Amit Kumar Singh (CSE) has been promoted to Lecturer w.e.f 1st Jan 2011.
- Mr. Munish Sood (ECE) has been promoted to Lecturer w.e.f. Feb, 2011.
- Mr. Vikas Hasthir (ECE) has been promoted to Lecturer w.e.f. Feb, 2011.

### Appointments

- Dr. Seema joined as an Assistant Professor in Department of Civil Engineering on 24th January, 2011. She obtained a Ph.D. in Structural Engineering from the University of Trento, Italy, in 2009.
- Ms. Deepti Muley has joined as a Senior Lecturer in Department of Civil Engineering. She is an M.Tech in Transportation Engineering from IIT Roorkee.
- Mr. Venkat Rasagna Reddy. K joined as an Associate Lecturer in Department of Computer Science on 10th Feb 2011.
- Dr. Pradeep Kumar Pandey joined as a Lecturer in Department of Mathematics in January 2011.

### PhD/M.Tech Completed

- Ms. Tanu Sharma completed her PhD in Professional Development on “An Empirical Study of Emotional Intelligence Behavior of Indian Managers And its Relationship With, Leadership and Conflict Management Styles” under the supervision of Dr. Y. Medury (2011).
- Ms. Mani Srivastava completed her PhD in Biotechnology & Bioinformatics on “Computational Modeling of Artemisinin and its Structural Derivatives – Interaction, Activity and Mechanism” under the supervision of Dr. P.K. Naik (Feb 17, 2011).
- Mr. Munish Sood (ECE) and Mr. Vikas Hasthir (ECE) got the M.Tech Degree in Feb, 2011.



The departments of the university organized 3 workshops and one training programme.



### Activities @ JUIT

- The Department of Biotechnology & Bioinformatics organized a 3-day Workshop on Computational Paradigms of Clinical Informatics in association with Louisiana Tech University, Ruston, LA, USA during 1st - 3rd February 2011.
- Civil Engineering Consortium of the Civil Engineering Department organized a 3-day national level Tech-fest under the supervision of Dr. Ashok Kumar Gupta, Mr. Anil Kumar and Ms. Poonam during 18-20 Feb 2011. Participants came from IIT Roorkee, Delhi Technological University, Thapar University, MIT Pune, JIIT Noida and several other institutes. During the fest, the second volume of Civil Engineering Department magazine Sanrachana was released.
- The Department of Civil Engineering organized a one day training programme on FEM based geotechnical software PLAXIS 2D conducted by Er. Arul A. of RAM Caddsys Pvt Ltd, Chennai. The programme was coordinated by Dr. S.K. Jain, Mr. Anil Kumar and Ms. Poonam.
- The Department of ECE organized a two day national workshop on LABVIEW during Feb 17-18, 2011.
- Dr. Neelkanth (MA) attended Faculty Development Program (FDP) on Modelling and Simulation of Manufacturing and Dynamical Systems (MSMDS-2011) held at SLIET, Longowal during 3-7 Jan, 2011.
- Dr. Rajesh Kumar (PH) attended Workshop cum Seminar on "Microscopic Techniques in Nano Science" at HPU Shimla during 30th March to 5th April, 2011.

### Bits 'n' Pieces

- The postal address of the university has been changed. The new address is – "Jaypee University of Information Technology, P.O. – Wagnaghat, Distt. – Solan, Himachal Pradesh (India) – 173234".
- Dr. Gopal Singh Bisht was awarded a research grant of Rs.19.15 Lakh for project "Design, synthesis and biological evaluation of peptidomimetics" under Fast track scheme for young scientist, DST, Government of India (2010-13).
- Dr. S.K. Jain chaired a session at the Third Indian Young Geotechnical Engineers Conference (3IYGEC), organized by the Indian Geotechnical Society at CRRI New Delhi during 25-26 March 2011.
- Dr. Hemant Sood got the Indian Science Congress Association Young Scientist award for the year 2010-11(Plant Sciences) at SRM University during 98th session of Indian Science Congress from Jan 3-7, 2011.
- Dr. Sudhir Syal has gone on sabbatical leave to the Department of Chemical and Biological Engineering, South Dakota School of Mines and Technology, Rapid City, South Dakota, USA, as a Research Scientist.
- A grant of Rs.1596000/- has been sanctioned to Dr. G. Singh from Indian Space Research Organization (ISRO) for the project entitled "Design and Analysis of Frequency Selective Surface at Ka/Ku Band for Reflection and S Band for transmission" on 13.01.11.
- Prof. Nirupama Prakash and Mr. Amit Srivastava were awarded a research grant of Rs.50,000/- for the project on "Feasibility of Collective Farming in Relation to Women's Empowerment in the State of Himachal Pradesh" sponsored by IWID (Initiatives: Women in Development), Chennai.
- JUIT Centre for Women Studies has been established (with support from Jaypee Education System) at the Department of Professional Development with the objective of working towards women's empowerment and gender sensitization through teaching, training, research, documentation and field action mainly through science, technology, managerial & socio-economic applications.

The postal address of the university has been changed.



### Knowledge Bytes

Here is the collection of few interesting words. We hope that you'll find the section interesting.

- Baggage, Feedbag, Cabbaged are probably the longest words that can be played on a musical scale.
- Dreamt ends in "MT", probably the only word to do so.
- Words that have the same pronunciation but no letters in common: ewe/you, eye/i.
- Some words have no vowels. These include zygyzy, rhythms and crwth.
- Facetious and abstemious have all the vowels in alphabetic order.
- Cinq is one of the few words in English usage which has a "q" without a u following it.
- Sure and sugar are probably the only English words having an "s" which is pronounced as "sh".
- Don't repeat yourself unless you say things like HIV virus, ATM Machine, AC current, DOS operating system or ISBN Number.
- Add an "s" to a word and it often changes to a plural, but in the case of cares and princes, the change is from plural to singular, albeit with a different meaning.
- How many letters are required to spell 4? Answer 4. How many numbers require more letters than the value? All those below 4. How many numbers require fewer letters than the value? All above 4.

"The greater our knowledge increases, the greater our ignorance unfolds" – John F. Kennedy (35<sup>th</sup> President of USA).