



# BFGI NEWSLETTER

DEPARTMENT OF RESEARCH & DEVELOPMENT

2013 Volume 1



## Research & Development



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### EDITORIAL BOARD

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## PHD DEGREE AWARDED

-  Dr. Rakesh Kumar faculty of Department of Agriculture has been awarded degree in the year 2013, title of thesis being: Taxonomy and Species Composition of Dolichoderinae, Myrmicinae and Pseudomyrmecinae (Hymenoptera: Formicidae) from North-West Shivalik.
  
-  Dr. Rahul Joshi faculty of Department of Agriculture has been awarded degree in the year 2013, title of thesis being: Taxonomic Studies on Indian Lithosiinae and Ctenuchinae (Lepidoptera: Arctiidae)
  
-  Dr. Vikram Singh faculty of Department of Agriculture has been awarded degree in the year 2013, title of thesis being: “Taxonomic studies on subfamilies halictinae and meliponinae (insecta, hymenoptera: apoidea) from Indian Himalayas”.
  
-  Dr. Dharmendra Kumar faculty of Department of Agriculture has been awarded degree in the year 2013, title of thesis being “ Effect of disturbing effluent on physico-chemical properties and yield of rice and wheat crop in rice-wheat cropping sequence.”
  
-  Dr. Tejinder Singh faculty of Department of Computer Science has been awarded degree in the year 2013, title of thesis being: “Analyze of Java language and method of improvisation”
  
-  Dr. Sonia Baghla, faculty of department MBA & M.COM, has been awarded Ph.D. degree in the year 2013, title of thesis being: “Role of Institutional Finance in the Development of SSIs in Punjab”.

## CONFERENCES ORGANIZED



International Conferences on Information and Mathematical Sciences conference has been organized by Baba Farid College of Engineering and Technology in 24-26 October, 2013.



National Conference on TRENDS & ISSUES IN PRODUCT AND BRAND MANAGEMENT has been organized by Baba Farid College of Management & Technology on March 20-21, 2013.

## FACULTY DEVELOPMENT PROGRAM

Er. Kovid Sharma Department of ME organized a Short Term Course on topic, Induction Training Programme Through ICT organized by NITTR, CHD sponsored by Ministry of HRD, GOI, New Delhi at BFGI, Bathinda, 10-14 June, 2013.



Er. Kovid Sharma Department of ME organized LATEX Workshop under Spoken Tutorial Project, Developed at IIT Bombay, funded by NMEICT, MHRD, Govt. of India At BFCET, Bathinda, 21 November, 2013.



## PUBLICATIONS IN JOURNAL

**Amandeep Kaur**, Enabling public auditing for secured data structure on cloud computing. IOSR Journal of Engineering . 3:5. 2013.

**Amandeep Kaur** and Ramandeep Kaur, Overview of database management system, Data warehousing and Data Mining. IJARCE. 2:7. 2013.

A.K. Panda, R.K Roy, SushmitaDey, **Satnam Singh**, A.Mitra, Functional gradation through preferential crystallisation and interfacial activity in rapidly quenched Fe/Co-based bilayered ribbons for bend sensors, Journal of Applied physics, 114, 2013.

Bharti, H. and **Kumar, R.** Five new species of Dilobocondyla (Hymenoptera: Formicidae) with a revised key to the known species. Asian Myrmecology, 5: 29-44, 2013.

Bharti, H. and **Kumar, R.** A new species of Vollenhovia(Hymenoptera: Formicidae) from India with key to known Indian species. VestnikZoologii, 47(2): 67-69, 2013.

Bharti, H. and **Kumar, R.** Six new species of Carebara Westwood (Hymenoptera: Formicidae) with restructuring of World species groups and a key to Indian species. Journal of the Entomological Research Society, 15: 47-67, 2013.

Bharti, H., **Kumar, R** and Dubovikoff, D.A., "A new species of the genus TapinomaFoerster, 1850( Hymenoptera : Formicidae from India.," CoucarianEntomologiaicl Bull 9(2):303-304,2013.

**Bikesh Yadav**, Ramji Singh &Ashwani Kumar "Genetic variability and relationship analysis of Bipolarnssorokiniana isolates causing spot blotch disease in wheat causing RAPD markers", African Journal of Biotechnology., Vol 12(19) PP 2526-2531 '8 March 2013.

**Bikesh Yadav**, Ramji Singh &Adesh Kumar, "Effect of Micronutrient & fungicides on spot blotch of wheat, Vegetos ,an International Journal of plant research Vol 26(2): 121-219,2013.

Datta, A., Paul, N., **Dhar, D.** and Saha, D.A comparative study of time of application between humic acid and organic matter on N transformation in soil. Journal of Indian Chemical Society, 91:747-750, 2013.

**Dhar, D.**,Datta, A., Basak, N., Paul, N. and Thomas, T. Residual effect of crop residues on growth, yield attributes and soil properties of wheat under rice-wheat cropping system. Indian Journal of Agricultural Research, 48(5): 373-378, 2013.

**Dhar, D.**, Datta, A., Basak, N., Paul, N. and Thomas, T. Residual effect of crop residues on growth and yield attributes of wheat under rice based cropping system. *Indian Agriculturist*, 57(1): 45-50, 2013.

**Harwinder Kaur**, Munruchi Kaur, N.S. Atri and Amanjeet Kaur. The Genus *Psathyrella* (Fr.) Quél. from India- New Records. *Journal on New Biological Reports*. 2 (1): 55-63, 2013.

Jain, K. and **Kapoor, H. P. S.** Ageing Properties of Curtate Future Lifetime. *Sri Lankan Journal of Applied Statistics*, 14 (1) : 55-84, 2013.

**Jaspreet Kaur**, Ranbir Kaur Brar , Mehar Chand and Kanwarjit Singh, Graphical and Database Analysis of New Sequence of Functions Involving the Bessel Function with MatLab implementation, *International Journal of Computer Applications*, 63(21): 0975 – 8887, 2013.

Kirti, J.S. and Joshi, R. Newfaunistic records of Lithosiin Moths (Lepidoptera: Erebidae: Arctiinae) from North-East India. *Bionotes*, 15 (3): 84, 2013.

Kirti, J.S. and **Joshi, R.** Taxonomic studies on type species of genus *Tarika* Moore (Lepidoptera: Erebidae: Arctiinae) from India. *Journal of Chemical, Biological and Physical Sciences*, Sec. B., 3(3), 2032-2036, 2013 Global Impact factor= 0.72

Kirti, J.S. **Joshi, R.** and Singh, N. A new species of genus *Cyana* Walker (Lepidoptera: Arctiidae: Lithosiinae) from India. *Journal of Chemical, Biological and Physical Sciences*, Sec. B., 3(2): 1301-1310. 2013 Global Impact factor= 0.72

Kirti, J.S., **Joshi, R.** and Singh, N. First record of genus *Disasuridia* Fang (Lepidoptera: Erebidae: Arctiinae) along with description of a new species from India. *Tinea*, 22(4): 269-271, 2013.

Kirti, J.S., **Joshi, R.** and Singh, N. Taxonomic studies and new faunistic records of two species of the genus *Stictane* HAMPSON (Lepidoptera: Erebidae: Arctiinae) from India. *Acta Zoologica Cracoviensia*, 56 (1): 1-7, 2013.

Kirti, J.S., **Joshi, R.** and Singh, N. Taxonomic studies on four species of *Amata* Fabricius (Lepidoptera: Arctiidae: Syntominiinae) from India with special reference to their external genitalia. *Journal of Entomological Research*, 37 (4): 375-381, 2013. NAAS

Rating : 3.8

Kirti, J.S., Singh, N. and **Joshi, R.** A new species representing first record of genus *Conilepia* Hampson (Lepidoptera: Erebidae: Arctiinae) from India. *Deutsche Entomologische Zeitschrift*, 60 (2): 231-234, 2013. Impact Factor: 0.73

Kumar Munesh, **Singh Harpal**, Bhat A Jahangeer. and Rajwar. Altitudinal variation in species composition and soil properties of Banj Oak and Chir Pine Dominated Forests, *Journal of Forest Science* Feb; 29 (1): 29-37, 2013.

Narinderjit Kaur, Munruchi Kaur Saini, **Harwinder Kaur.** Two new species of Agarics from India. *Mycosphere* 4 (5), 856–863, Doi 10.5943/mycosphere/4/5/1, 2013.

**Payal Singla**, A heuristic for two machine open shop specially Structured scheduling problem to minimize The rental cost, including job block criteria. *International Journal of Pure and Applied Mathematics*. 86(5), 767-778, 2013.

**Payal Singla**, Two Stage Flow Shop Scheduling Problem Including Transportation Time and Weightage of Jobs with Branch and Bound Method. *International Journal of Applied Operational Research*. 3 (4): 1-6, 2013.

**Pawan, R** and Bhatia, “ Alimmunomodulatory and Immunorestorative potential of Intragastrically Fed viable and Non viable *L. Acodophilus* in Swiss Albino mice.” *Int. J. Pharm. Sci. Rev. Res* 21(1), 34: 199– 204, 2013.

**R. Samkaria** and V. Sharma, “Effect of rare earth yttrium substitution on the structural, dielectric and electrical properties of nano sized Nickel aluminate”, *Mater. Sci. Engg. B*, 178: 1410-1415, 2013.

**R. Samkaria** and V. Sharma, Structural and Dielectric properties of MgAl<sub>2</sub>-2xY<sub>2</sub>xO<sub>4</sub> Nanoparticles, *Int. J. Mod. Phys.: Conference Series*, 22: 361-364, 2013.

**R. Samkaria** and V. Sharma, Structural, dielectric and electrical studies of MgAl<sub>2</sub>-2xY<sub>2</sub>xO<sub>4</sub> (x=0.00-0.05) cubic spinel nano aluminate, *J Electroceram*, 31: 67-74, 2013.

**Ramandeep Kaur**, An Overview of Database management System, Data warehousing and Data Mining. *IJARCC*, 2(7), 2013.

Saini, M. S., Kaur, L & **Rathor, Vikram S.** Nine New Species of *Rhyacophila* Pictet (Trichoptera: Rhyacophilidae) From India. *International Journal Biological Sciences*, 3(1): 5-10. 2013

Saini, M. S., Kaur, L, Parey, S. H. & **Rathor, Vikram S.** Two new species of *Glossosoma* subgenus *Glossosoma* (Trichoptera:

Glossosomatidae) from India. Zootaxa, 3664 (3): 392–396. 2013

Saini, M. S., Parey, S. H. & **Rathor, Vikram S.** First report of a species *Astratodina nirmis* Mosely (Trichoptera : Limnephilidae : Astratodina) from the Indian Himalaya along with a checklist to its family. Journal of Entomological Research, 36 (4): 377-381, 2013.

Saini, M.S., Ahmad, M. And **Rathor, Vikram S.** Validation of Five New Species of the Genus *Tenthredo* Linnaeus, 1758 from the Indian Himalayas (Insecta:Hymenoptera: Symphyta: Tenthredinidae), Annals of Entomology, 31(1): 157-168, 2013.

**Satnam Singh**, R K Roy, M Ghosh, A Mitra, A.K.Panda, Martensitic Transformation and Magneto-strain in Melt Spun NiMnGaAl Ferromagnetic Shape Memory Alloys, Intermetallics, 43, 2013.

**Satnam Singh**, R. K. Roy, M. Ghosh, N. B. Manik, A. Mitra, and A. K. Panda, Modification in Martensite Morphology and Magneto-Strain through Rapid Solidification and Heat Treatment of NiMnGaAl Alloy, Journal of Magnetism and Magnetic Materials, 343, 2013.

Singh, J., Singh, N., Sharma, K. and **Joshi, R.** Morphotaxonomy of nine species of genus *Lyclene* Moore (Lepidoptera: Arctiidae: Lithosiinae) from India. Proceedings of the National Academy of Sciences India, Sect. B Biol. Sci., 83(1): 31-46, 2013 NAAS rating: 6.3

Singh, N., Kirti, J.S. and **Joshi, R.** Morphotaxonomy of Indian species of genus *Macotasa* Moore (Arctiidae: Lithosiinae). Journal of Entomological Research, 37 (4): 369-373, 2013 NAAS Rating : 3.8

**Vivek Sharma**, Priyanka Parashar, Santosh Kumar, D.D. Agarwal and Neelam Richharia. Recycling of waste PET-bottles using dimethyl sulfoxide and hydrotalcite catalyst. Journal of Applied Polymer Science 129: 1513-1519, 2013.

**Dr. Tejinder Singh** and Kulbir Kaur, Growth of Android Software Platform for Mobile Devices and smartphone. International Journal of Innovative research in computer and Communicational Engineering 1:8, 2013.

**Dr. Tejinder Singh**, New Software Development Methodology for Students of Java Programming Language, International Journal of Computer and Communicational Engineering 2(2), 2013.

O.P.Vinocha, J.S.Bhullar and **Balwinder Singh**, "On MDS One Digit Extension of GTRS Codes", International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), Issue 6, Vol. 5, 356-364, September-November, 2013.

Rajneesh Kakar, Shikha Kakar and **Kanwaljeet Kaur**, Kishan. Chand Gupta, "Effects of Various Inhomogeneities on Torsional Surface Waves Propagating in a Viscoelastic Medium, Journal of Chemical, Biological and Physical Sciences, 3(1), e- ISSN: 2249–1929, 820-839, 2013.

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Rajneesh Kakar and **Kanwaljeet Kaur**, "Mathematical Analysis Of Five Parameter Model On The Propagation Of Cylindrical Shear Waves In Non-Homogeneous Viscoelastic Media," International Journal of Physical and Mathematical Sciences, 4(1) ISSN: 2010-1791, 45-52, 2013.

Rajneesh Kakar, Shikha Kakar and **Kanwaljeet Kaur**, "Rayleigh, Love, Stoneley Waves In Fiber-Reinforced, General Viscoelastic Media Of Higher Order Under Gravity," International Journal of Physical and Mathematical Sciences, 4(1) ISSN: 2010-1791, 53-61, 2013.

Rajneesh Kakar, Shikha Kakar, **Kanwaljeet Kaur** and Kishan. Chand Gupta, "Influence of gravity, compression and magnetic field on the propagation of rayleigh waves in non-homogeneous orthotropic elastic media," Advances in Applied Science Research, 4(1) ISSN: 0976-8610, 350-358, 2013.

**Kanwaljeet Kaur**, Rajneesh Kakar and Kishan Chand Gupta, "Torsional Vibrations in a Non-Homogeneous Medium over a Viscoelastic Dissipative Medium. International Journal of Pure and Applied Sciences and Technology, 14(2) ISSN 2229–6107, 39-49, 2013.

Rajneesh Kakar, **Kanwaljeet Kaur** and Kishan Chand Gupta, "Study of Viscoelastic Model for Longitudinal Wave Propagation in a Non-Homogeneous Viscoelastic Filament," International Journal of Pure and Applied Sciences and Technology, 14(2) ISSN 2229–6107, 1-11, 2013.

Rajneesh Kakar, **Kanwaljeet Kaur** and Kishan Chand Gupta, "Study of viscoelastic model for harmonic waves in nonhomogeneous viscoelastic filaments," Interaction and Multiscale Mechanics, 6(1), 31-50, 2013.

Rajneesh Kakar, **Kanwaljeet Kaur** and K. C. Gupta, "Rheological Responses of Viscoelastic Models under Dynamical loading," European Scientific Journal,9(12) ISSN 1857- 7431, 305-326, 2013.

**Kanwaljeet Kaur**, Rajneesh Kakar and K. C. Gupta., "Rheological Response and Validity of Viscoelastic Model through Wave Propagation," Mathematica Aeterna,3(4) 279– 297, 2013.

Rajneesh Kakar, **Kanwaljeet Kaur**, K. C. Gupta, "Viscoelastic Modeling of Aortic Excessive Enlargement of an Artery," International Journal of Mechanical Engineering & Technology (IJMET), 4(2) ISSN 0976 – 6340(Print) ISSN 0976 – 6359(on line), 479-493, 2013.

R. Kakar, **Kanwaljeet Kaur** and S. Kakar., "Rheological modeling of viscoelastic non- homogeneous rods with stable constitutive equations,"int. J. of appl. Math and mech. 9(19), 80-115, 2013.

**Manish Gupta**, J S Bhullar and O P Vinocha, Error detection of irreducible cyclic codes on q-ary symmetric Channel , Malaya Journal of Matematik, 4(1) ISSN 2319-3786, 115–122, 2013.

**Manish Gupta** and J. S.Bhullar, On Quantum BCH Codes and Its Duals, International Journal of Social, Human Science and Engineering, Vol.78, ISSN 1307-6892, 619-622, 2013.

**Deepinder Singh** "Design and Analysis of Conical horn antenna for Ku-Band applications, International journal of Science & Research, Vol-3, Issue 7, July 2013

RajniBala, **Gaurav Bansal** and Rakesh Kumar Bansal, Palm features extraction for biometric authentication, international journal of emerging trends in electrical & electronics (IJETEE), Vol. 2, Issue 4, 74-78, april 2013.

**Swaranjeet Singh**, "Comparative analysis of CMOS Transmission Gate based Adders," International Journal Of Engineering And Computer Science, ISSN:2319-7242 Volume2 Issue 8, . 2544-2548, August 2013.

Gurveen K. Sandhu, **Gurpreet Singh Mann and Rajdeep Kaur** "Benefit and security issues in wireless technologies:Wi-fi and WiMax" International Journal of Innovative Research in Computer and Communication Engineering , Vol. 1, Issue 4, June

2013, ISSN (Print) : 2320–9798,ISSN (Online): 2320–9801

**Loveleen Kaur**, "Image Cryptograph using scrambling and random integer," IJERT,sept 2014.

**Meenakshi S Arya** and Rajesh Siddavatam "Geometric Robust Multimodal Biometric Watermarking Scheme for Copyright Protection of Digital Images", International Journal of Computer Applications(IJCA), vol. 72, 40-52, 2013.

**Meenakshi S Arya** and Rajesh Siddavatam, "Robust Biometric (Offline Handwritten Signature) Watermarking and Authentication Algorithm," International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), vol. 3, 2013.

Jasdeep Kaur and **Mamta Garg**, An improved weighted median filter for the image processing application, International Journal of Science and Research, Volume 2, 345-349, April 2013.

Jasdeep Kaur and **Mamta Garg**, Review of better detail preserving algorithm for impulse noise reduction, International Journal of Science and Research, Volume 2, 226-228, March 2013.

**Mamta Garg** and Deepika Ahuja, A Novel Approach to Recognize the off-line Handwritten Numerals using MLP and SVM Classifiers, International Journal of Computer Science & Engineering Technology (IJCSSET), Volume 4, 953-958., 2013.

Tarun Bagga and **Mamta Garg**, A Review on Energy Aware Data Dissemination Protocol for Wireless Sensor Network, International Journal for Advance Research in Engineering and Technology, Volume 1, 68-71, July 2013.

Neha Chopra and **Mamta Garg**, Formal Methods for the Development of Smart Card Security Applications, International Journal Of Latest Technology in Engineering Management and Applied Science, Volume II, 61-65, November 2013,

Jatinderpal Singh and **Mamta Garg**, Binary Textual/Documents Image Authentication By Embedding Security Code Using Wavelet Transform Encoding, International Journal of Innovative Research and Review, Volume 1 (2), 07-11, Oct-Dec 2013.

Tarun Bagga and **Mamta Garg**, Energy Efficient Data Dissemination Protocols under Various Transmission Range for Wireless Sensor Network, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 3, 1084-1096, November 2013.

Rahul Sharma and **Mamta Garg**, Enhancing Privacy for Multi Group Data Sets in PPDM Using ID3 and CART Algorithm, International Journal on Recent and Innovation Trends in Computing and Communication, Volume 1, 908-912, December 2013.

**Natasha Sharma** and Munish Kumar, "Reviews on Off-Line Signature Verification Technique for Reducing foregenies/froud awareness in computing & information Technology volume 178,161-165,2013.

**Balwinder Singh**, Hazoor Singh Sidhu and Sukhpal Singh Chatha, Microstructure behavior of SS304 & SS310 hard faced steels, International journal of surface engineering and material technology, Vol 3 no 1, jan-june 2013.

**Ripandeep Singh Sidhu** and Dharmpal, Deepak, V.K Gupta, : Preparation of 5083 Al-Sic Surface Composite By Friction Stir Processing and Its Mechanical Characterization, International Journal of Mechanical Engineering, , Volume 3 Issue 1, ISSN : 2277-7059 , January 2013.

**Er. Ripandeep Singh** and Er. Haramritpal Singh Sidhu, Er. Ashwani Kumar, Mother Application Base Field-Mechanical Engineering, International Journal of Advances in Management, Technology & Engineering Sciences, , Vol. II, Issue 9(III), ISSN: 2249-7455, June 2013.

**Er. Ripandeep Singh** and Er.Haramritpal Singh Sidhu,Er.Ashwani Kumar, How Engineers Apply The Fundamentals Of Science And Math To Provide Solution To Their Problems, Global Journal of Finance and Management, Volume 5, Number 6, ISSN: 975-6477, 2013.

**Er. Swaranjeet Singh**, "Comparative Analysis of CMOS Transmission Gate based Adders," International Journal of Engineering and Computer Science, 2(8), 2544-2548, 2013.

**Ajay Sidana**, Kulbir Singh Sandhu and Balwinder Singh, "Effect of tool rotation speed on microstructure and mechanical properties of friction stir welding A16061-T6 alloy", "International Journal of New Innovation"(ISSN: 2277-4459), Vol.1(2),May,2012.

**Pushpinder Sharma** National Paper :Comsol Based Square Spiral Inductor

**Pushpinder Singh** International journal Paper (I.J.S.E.R): Analysis of Radio Frequency M.E.M.S Square spiral Inductor.

## PUBLICATIONS IN CONFERENCES

**Geetu Bharti**, National Conference AtShoolini Uni., Solan(2013)

**Deepti Sharma**, Atinderpalsingh and Darshan Singh , " Study of Impact of Black Carbon on Radiative Forcing during Agriculture Waste Burning Period (2008-2009) over Patiala, Punjab, India", Changing Chemistry in changing climate: Monsoon, IITM, Pune, 1st-3rd May, 2013.

Atinderpal Singh , **Deepti Sharma** , Darshan Singh and NeerajRastogi, "Temporal characteristics of aerosol characteristics over Patiala, northwestern India," International Journal of Arts and Science Conference, Ryerson University, Toronto, Canada, 20-23 May, 2013.

**Deepti Sharma**, Atinderpalsingh ,Darshan Singh and D.G.Kaskaoutis, " Study of two intense dust storms on aerosol characteristics over Patiala, Punjab, India, Asia Oceania Geosciences Society, Brisbane , Australia, 24-28, June 2013.

**Deepti Sharma**, Atinderpalsingh ,Darshan Singh and D.G.Kaskaoutis, "Impact of two intense dust storms on aerosol characteristics and radiating forces over Patiala in the northwest India, Asia Oceania Geosciences Society, Brisbane , Australia, 24-28, June 2013.

**Harpreet Kaur** : Published paper in proceeding on the topic "Encryption of Decryption using Cryptograph" in International Conference on Information and Mathematical Sciences\_\_\_\_(IMS-13) at Baba Farid College of Engineering and Technology on 24-26 oct 2013.

**Harpreet Kaur** Published Research paper in processing on the topic" The relationship Between the Besnoills polynomials in terms of Besnocials numbers and Infinite Series " on International and mathematical Science (IMS) on 24-26 oct 2013

**Harvinder Kaur** presented a paper on "Income and Consumption pattern of rural Labour in India: A study of Punjab " at 55th Annual Conference, Indian society of labour Economics (ISLE ) at Jawaharlal Nehru University New Delhi, 16,18-dec-2013

Kirti, J.S., **Joshi, R.** and Singh, N. Diversity of Lithosiin moths (Lepidoptera: Erebidae: Arctiinae) from India. Proceedings of the National Conference on Insect Diversity and Systematics: Special emphasis on molecular techniques. Department of

Zoology, Aligarh Muslim University, Aligarh, 2013: 33-36. 2013

**Deepinder Singh**, "Development of Mobile Wireless Technology :A Study " International Conference on Information and Mathematical Sciences(IMS-13), 235-237, 26-27 October ,2013.

**Deepinder Singh** "Digital Watermarking for Digital Images along Data Compression" International Conference on Information and Mathematical Sciences(IMS-13), 137-1379, 26-27 October 2013.

**Gaurav Bansal** and Rajni Bala, A Real – time Focusing Algorithm for Palm Print recognition/ P. No. 1-5, ICEECS-Chandigarh, 1-5, 9-Jun-13.

Bharat Naresh Bansal, **Gaurav Bansal** and Rajni Bala, Textile Defect exposure & Inspection using Vision Assistant & Lab VIEW 2009/ P. No. 54, ICECIT-2013, 4th -5th October 2013.

Bharat Naresh Bansal, **Gaurav Bansal** and Harsiman Singh, Comparison statistics analysis of various parameters rectangular & elliptical patch antenna, IMS 2013, 293- 295, 24-26 Oct. 2013.

Bharat Naresh Bansal, **Gaurav Bansal** and Hardeep Singh, Multi-biometric personal authentication system based on palm prints and finger prints, IMS 2013, 296- 299, 24-26 Oct. 2013.

Abhishek Bansal, **Mamta Garg** and Suresh Kaswan, Implementation of Modified ACO for Load Balancing in Telecommunications Network, National Conference on Globalized Recent Advancements in Computing and Computer Engineering - GRACCE 2013.

Rahul Sharma and **Mamta Garg**, Four Groups Randomized Response Technique in using Privacy Preserving Data Mining, International Conference on Technical in using Privacy Preserving Data Mining, 2013.

**Rajdeep Kaur and Gurpreet Singh Mann**"Review on Security in WSN: Issues and Challenges" IMS 2013, 382-385, 2013

**Balwinder Singh**, Hazoor Singh Sidhu and Sukhpal Singh Chatha, Wear and its preventive measures: A review. Proceeding of futuristic and emerging trends in technology: issue and challenges, 2013.

**Kovid Sharma**, Role of Carbide Based Coatings in improving the Efficiency of Coal Based Thermal Plants, International conference on Information and Mathematical Sciences, 415-417, 24-26 October, 2013.

**Ajay Sidana** and Balwinder Singh, "Friction Stir Dissimilar Welding of A16061-T6 Aluminium Alloy and AZ31b Magnesium Alloy", International Conference on Advancement & Futuristic in Mechanical & Material Engineering", 3rd-6th October 2013.

**Ajay Sidana** and Balwinder Singh, "Investment Casting- A review", International Conference on Information and Mathematical Sciences, 24th-26th October 2013.

**Bansal Gundeep**, Abhilasha and Garg Anita , " Accent of Energy Management," in proceedings of National Conference on Futuristic and Emerging Areas in Technology (FEAT-2013) at GianiZail Singh , PTU Campus , Bathinda , 188-190, 14-15 Feb 2013.

**Harleen Kaur** and Simpel Jindal' " Page Border Noise Removal in Document Images of Historical Gurmukhi Manuscripts," Advanced Computing and Communication Technologies (ICACCT™), 82-87, 16 Nov 2013.

**Gaganjot Kaur** "Review on image compression techniques and its algorithms" International Conference on Upcoming Trends in IT (ICUTIT), 111, 2013.

**Gaganjot Kaur** and Pearl Sahini, "Wireless charging of Mobile Phones", National conference of mobile phones (NCST) , 111, May 2013.

**Gaganjot Kaur** and Pearl Sahini, "The Practically Hidden Internet", International Conference on Information & Mathematical Sciences (IMS - 13) , 228 - 230, ST298960, Oct.(2013).

**Babita Singla**, Derivatives Product Market: Investor Perception, national conference on Trends & issues in Product & Brand Management, 978-93-5104-993-7, Page No. 101, 2013. **Deepinder Singh** for Brand Protection by Indian Companies, National Conference on Trends & Issue in product of Brand Management , 978-93-5104-993

**Deepinder Singh**, Scenario of Supply Chain Management in India, national Conference on Trends & issues in Product & Brand Management, 978-93-5104-993-7, 2013.

**Deepinder Singh**, Measures for Brand Protection by Indian Companies, National Conference on Trends & Issue in Product of Brand Management , 978-93-5104-993, 2013.



**JiaDhingra**, Attributes in Celebrity Endorsement, Proceedings for Conference on "Trends and Issues in Product & Brand Management " with ISBN 978-93-5104-993-7,volume 1, 219, March 2013.

**Jia Dhingra**, Corporate Governance, Proceedings for National Conference on " Emerging Challenges in Finance ", with ISBN -978-93-81505-52-6,volume 1,193, 2013.

**Kuldeep Singh**, "Destination Branding: Factors & Challenges to effect image of brand in Tourism" Proceedings for National Conference on Trends and Issues in Product and Brand Management with ISBN number 978-93-5104-993-7, volume 1, 317,2013.

**Kuldeep Singh & Surinder Singh**, "Impact of Celebrity Endorsement on Consumers buying behavior" submitted in National Conference on Trends and Issues in Product and Brand Management with ISBN number 978-93-5104-993-7,volume 1, 294, 2013.

**Ekta, Amandeep Kaur Sra, Namandeep Kaur**, "Role of Internet in New Product & Brand Development" in the Proceedings for 3rd National Conference on "Trends and Issues in Product & Brand Management " with ISBN 978-93-5104-993-7, volume 1, 75,2013.

**Namandeep Kaur**, "Measures for Brand protection by Indian Companies" Proceedings for 3rd National Conference on "Trends and Issues in Product & Brand Management " with ISBN 978-93-5104-993-7, volume 1, 321, 2013.

**Navjot Rani & Parminder Pal Singh**, "Laissez Faire Leadership v/s empowering Leadership in new product development." , 3rd National Conference on Trends and Issues in Product and Brand Management ,Volume 1,160, March, 2013.

**Navjot Rani , Niti Sharma & Parminder Pal Singh**, "Corporate Identity Management in Health Care Industry" , 3rd National Conference on Trends and Issues in Product and Brand Management ,Volume 1,156, March, 2013.

**Neetu Singh**, "Attributes in Celebrity endorsement",3rd National Conference on Trends and Issues in Product and Brand Management, Volume 1,291, March ,2013.

**Niti Sharma, Abhiruchi, Sandeep Arora & Jatinder Gaba**, "Potential of Health Insurance in India",3rd National Conference on Trends and Issues in Product and Brand Management, Volume 1,110, March ,2013.

**Niti Sharma & Sandeep Kaur& Abhiruchi**, "Role of

Customer Relationship Management in Modern Marketing",3rd National Conference on Trends and Issues in Product and Brand Management, Volume 1,313, March ,2013.

**SachinDev**, Role of Advertising Creating Brand Personal, A Study With Special Reference to Diamond Jewellery,national conference on Trends & issues in Product & Brand Management, 978-93-5104-993-7,2013.

**Sukhdeep Kaur**, Role of Human Resource in creating Brand Awareness: A study of Amway, national conference on Trends & issues in Product & Brand Management, 2013.

**Sukhdeep Kaur**, Role of Advertisement in creating Brand Personality:A study with special reference to Diamond Jewellery, national conference on Trends & issues in Product & Brand Management, 150 2013.

## PRESENTATION IN CONFERENCES

**Amandeep Kaur** presented the paper titled on cloud computing at International Conference IMS-13 held at Baba Farid College of Engineering and Technology. 2013.

**Bhawna Gupta** presented the paper titled "Capturing the Benefits of Cloud Computing 'in International Conference on "Information and Mathematical Sciences (IMS-13)"organised by Baba Farid College of Engineering and Technology, Bathinda

**Bhawna Gupta** presented the paper titled "E-Governance in India: Dream or reality?" 'in National Conference on UGC sponsored National Conference on "Emerging Trends in Computing and Information Technology"organised by GGS Khalsa College, Sarhali

**Bhawna Gupta** presented the paper titled "E-Governance in Rural Areas (A study of ICT projects in Bathinda District)" 'in UGC sponsored National Conference on "Emerging Trends in Computing and Information Technology" organised by GGS Khalsa College, Sarhali

**Bhawna Gupta** presented the paper titled "Ethical issues in Advertising" 'in National Conference on "India Inc.- Challenges Ahead" organised by GNA-IMT Phagwara.

**Bhawna Gupta** presented the paper titled "Overwhelming of Wi-max to Wi-Fi" in National Conference on "Excellence in Technology and Management" organised by Sunderdeep Engineering College, Ghaziabad.

**Bhawna Gupta** presented the paper titled Different Security Attacks on MANET- A Wireless communication at International Conference on "Information and Mathematical Sciences (IMS-13)"organised by Baba Farid College of Engineering and Technology, Bathinda

**Bhawna Gupta** presented the paper titled "Introduction to Machine Learning" 'in National Conference on "Recent Advancements in Computer Science" organised by Baba Farid College, Deon

**Davinder pal Singh** Participated in the 16th Punjab Science congress at Baba Farid University of Health Science ,Faridkot. He presented a poster entitled –marketing pattern and price variation of cotton crop in Punjab , 7-9 Feb. 2013.

**Harwinder Kaur** participated the paper titled Diversity of Potentially Edible Agarics from Punjab in the conference Indian Mushroom Conference organized by Punjab Agriculture University, Ludhiana on dated 16-17 April, 2013.

**Harwinder Kaur** presented the paper titled New Records of Genus *Gymnopilus* P. Karst. from India. National Symposium on Mushrooms for Medicinal Value and Nutritional Security under Changing Climatic Conditions organized by Indian Mushroom Growers Association, and Department of Mycology & Plant Pathology, Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan,, Himachal Pradesh. 27- 28 December, 2013.

**Meenu** Presented paper entitled " Effect of Triazophos on soil microbial flora " in 54th annual international conference of Association of Microbiologist of India in platinum jubilee Celebration Organized by Maharishi Dayanand University, Rohatak, Oct 2013

**Mr. Jaswinder Singh** presented a paper entitled "Innovating Teaching Learning Application! Metacognitive Learning Strategies," in National Seminar sponsored by (ICSSR) Indian Council of Social Science 2013.

**Mr. Jaswinder Singh Brar** presented a paper on the theme "Importance of homework assignment in Physical Education among secondary school students in the international conference on Futuristic trend in Physical Education UGC sponsored, 2013.

**Amandeep Kaur** Presented paper " Cloud Computing at International Conference IMS-13 held at BFCET, Bathinda from 24/04/2013 to 26/04/2013

**Kanwaldeep Kaur** Presented Paper : Encryption and Decryption using Cryptograph at International conference IMS-13 held at BFCET, bathinda from 24/oct/13 to 26/oct/13.

**Meenakshi** presented the paper at Bussiness Geography at International conference on Crop productivity & sustainability shaping the future organized by BFGI, 2013.

**Meenakshi** presented the paper at International Conference on Brand Management organized by BFGI, Bathinda 2013.

**Payal Singla** presented the paper titled A Branch and Bound Method for Two Stage Flow Shop Scheduling Model, in which Setup Times are Separated from Processing Times, With an Interval of Non-Availability of Machines at International conference on information & mathematical sciences (ims-13) organized by Baba Farid College of Engineering & Technology.

**Ram Sharn** presented the paper titled at International Conference on Brand Management organized by BFGI, Bathinda 2013.

**Ramandeep Kaur and Gurpreet Singh** presented paper entitled Information System and Applications, at International conference IMS-13 and Publication in IMS-13 Proceeding, BFC Bathinda , paper -25 Online Published in Elsevier ISBN- 9789351071624: 83-86. 2013

**Ramandeep Kaur** presented paper entitled Digital Image Proceeding at International conference IMS-13 and Publication in IMS-13 Proceeding as co-author, BFC Bathinda, paper -100 Online Published in Elsevier ISBN- 9789351071624: 346-348. 2013

**Sukhpreet Singh and Ram Sharn** presented the paper entitled Business geography at International conference on Brand Management organized by BFGI, Deon Bathinda. 2013

**Sakshi Sharma** presented the paper titled Phytoremediation potential of Brassica Juncea L. cultivars at International Conference on Crop productivity and sustainability shaping the future organized by Baba Farid College, 2013.

**Tejinder Singh** presented the paper titled Trends and Products of Java Technology : The key to identification of Refactoring" at 3rd National Conference on Trends and Issues in Product and Brand Management organised by , Baba Farid College of Management & Technology, Bathinda, Punjab. March 20-21, 2013.

**Vivek Sharma** presented the paper titled at International

Conference on emerging Materials Technology organised by Gyan Ganga group of Institutions Jabalpur 2013.

**Balwinder Singh Brar** presented the paper titled "Non-Singular Submatrices of New Arrays", in international conference "Information and Mathematical Sciences (IMS-13)", 24th -26th October, 2013.

**Ashish and Manish**, TCP Congestion Control Slow Start Approach, Information and Mathematical Sciences, ISBN-9789351071624, 24-26 October, 2013.

**Gaganjot Kaur** presented the paper titled "Fractional Talbot effect", International Conference on Information & Mathematical Sciences (IMS-13), 408-410, ST298960, Oct.(2013).

**Hardeep Singh** presented the paper titled, "Comparison Statistics Analysis of Various Parameters of Rectangular & Elliptical Patch Antenna", International Conference, Information & Mathematical Sciences (IMS-2013), 264-268, 26-27 Oct 2013.

**Gaurav Bansal** presented the paper titled, Iris Prototype Exposure Using Vision Assistant & Lab View 2009, ICECIT-2013, 4th -5th Oct. 2013.

**Kovind Sharma** presented the paper titled, Hot Corrosion Degradation of Metals at elevated Temperature & their Remedial Measures, Information and Mathematical Sciences, 24-26 October, 2013.

**Er. Harsimran Singh** presented the paper titled, "Tuning Algorithms for PID Controller using soft techniques" in International Conference on Information & Mathematical Sciences (IMS-13), 24-26, Oct. 2013.

**Er. Harsimran Singh** presented the paper titled, "Multi Biometric Personal authentication system based on palm prints and finger prints" in International Conference on Information & Mathematical Sciences (IMS-13), 24-26, Oct. 2013.

**Er. Ripandeep Singh**, Department of Mechanical Engineering presented the paper titled "How Engineers Apply the Fundamentals of Science and Math to Provide Solution To Their Problems" in World Congress "Business, Finance, Marketing and Industrial Management for Sustainable Development" (BFMIMSD - 2013), Organized by "KrishiSanskriti" on 25th & 26th May 2013 at Jawaharlal Nehru University, New Delhi.

**Er. Ripandeep Singh**, dept. of M.E. presented the paper titled, Mother Application Base Field-"Mechanical Engineering" in International Research Conference on Innovative Strategies in Commerce, Management, Engineering, Technology & Social Sciences, on 10-11 June, 2013 at Kare Auditorium, Shree Damodar College Complex, Margao, Goa, India.

**Er. Gundeep Bansal**, Department of Civil Engineering attended and participated in national conference on Futuristic and Emerging Areas in Technology : Issues and Challenges (FEAT-2013) held at Punjab Technicial University GianiZail Singh Campus, Batinda on dated 14-15 Feb. 2013.

**Saurav Bansal** presented the paper title, "Knowledge Management using Data Mining Technique for Retail Internationalization", in National Seminar on 'Role of Knowledge in Modern Era' organized by Dept. of Mgt Studies, Sri VasaviEngg College, Tadepalligedum, Andhra Pradesh , 2013.

**Aman Dhariwal** presented the paper titled WTO and Agriculture Sector of India in a National seminar on World Trade Organisation and Global Economic System: India Perspective organised by dept. of commerce in Maharishi Dayanand University, Rohtak.

**Sukhdeep Kaur** presented the paper titled HRD challenges in Tourism Industry-A study of Punjab in the ICSSRNWRC sponsored National seminar on "Incredible India-Issues, Perspective & Innovations in Tourism Industry with special reference to North-Western regions organised by GGS college for Women, Chandigarh on 23rd February, 2013.

**Mr. Kulwinder Singh**, Mr. Jagjit Singh presented the paper titled "Expansion of Education and its accessibility: Role of Govt/Private institution and Foreign Institutions " in the National Seminar organised by Punjabi University Regional centre, Bathinda on date 18th – 19th Feb, 2013.

**Mr. Jagjit Singh** presented the paper titled "Community Life style & Wellness " in the Inter National Seminar organised by Deptt of Physical Education Punjabi university , Patiala on date 24th – 26th Feb, 2013.

**Mr. Jagjit Singh** presented the paper titled "Teacher Education-The Professionalism in Teaching, Problems and Prospect " in the National Seminar organised by Swami Dayanand College of Education, Lehrabega on date 18th April, 2013.

**Mr. Jagjit Singh** presented the paper titled "Innovative Teaching Learning Applications " in the National Seminar organised by Guru Gobind Singh College of Education ,

Gidharbaha on date 18th – 19th Nov, 2013.

**Ms. Nirmaljit Kaur , Mr. Parwinder Singh** presented the paper titled “ Expansion of Higher Education in India ” in the National Seminar organised by Punjabi University Regional Centre, Bathinda on date 18th - 19th Feb, 2013.

**Ms. Nirmaljit Kaur** presented the paper titled “ Online Advertisement ” in the National Conference organised by Baba Farid college of Management and Technology , Bathinda on date 20th -21st March, 2013.

**Ms. Nirmaljit Kaur , Mr. Parwinder Singh** presented the paper titled “ Challenges faced in Teacher Education Programme” in the National Seminar organised by Swami Dayanand College of Education LehraBega on date 18th April, 2013.

**Mr. Parwinder Singh** presented the paper titled “ Role of Distance Education in Professional Development ” in the National Conference Organised by Baba farid College Of Management & Technology, Bathinda on date 20-21th March, 2013.

**Ms. SapnaSoni , Ms. Shivani Singla** presented the paper titled “ Role of Distance Education in Professional Development” in the National Seminar organised by Punjabi University Regional Centre, Bathinda on date 18th -19th Feb, 2013.

**Ms. Shivani Singla , Ms. Sapna Soni** presented the paper titled “Corporate Marketing & Brand Services” in the National Conference organised by Baba Farid College of Management & Technology, Bathinda on date 20th -21st March, 2013.

**Ms. Saponsoni , Ms. ShivaniSingla** presented the paper titled “Achieving Excellence through ICT in Teacher Education” in the National Seminar organised by Swami Dayanand College of Education, LehraBega on date 18th April, 2013.

## BOOKS PUBLISHED / BOOK CHAPTERS

Chapter titled Microwave Assisted Synthesis in the Encyclopedia of Biomedical Polymers and Polymeric Biomaterials written by PankilSingla has been accepted in the year 2013.

Chapter titled Synthesis of Poly(Lactic Acid): A Review in the Encyclopedia of Biomedical Polymers and Polymeric Biomaterials written by PankilSingla has been accepted in the year 2013.

DrSatpreet Singh has a book named “Sant Singh Sekhon De Natkan Da ChihanVigyan( ISBN: 978-93-82851-240) published by ChetnaParkashan , Punjabi Bhawan , Ludhiana,2013

ELSEVIER Proceedings of International Conference on “Information and Mathematical Sciences” by Manish Gupta & Manish Goyal, 2013.

Abstract Book of International Conference on “Information and Mathematical Sciences” by Manish Gupta & Manish Goyal published by EXCEL Publication,2013.

Brand & Product Management by BabitaSingla has been published by Kalyani in the year 2013.

Retailing Management by BabitaSingla has been published by Kalyani in the year 2013

## FACULTY DEVELOPMENT PROGRAMME ATTENDED

**Amanpreet Singh** (Dept of Geo) attended a training program of eleven lessons in tourism awareness conducted in Patiala by punjab heritage and tourism promotion board and united nation world tourism organization supported by IDIPT-Punjab 2013.

**Dr. Satpreet Singh Jassal** participated in the 17th UGC-sponsored Orientation programing at Punjabi University, Patiala.

**Veerpal Kaur** , Department of Computer Science , BFC attended a Faculty Development Programme on Network Security and Firewall through ICT organized by NITTTTR at Chandigarh on dated 18-11-2013 to 22-11-2013.

**Ramandeep Kaur** Department of Computer Science , BFC attended a Faculty Development Programme on Network Security and Firewall through ICT organized by NITTTTR at Chandigarh on dated 18-11-2013 to 22-11-2013.

**Pardeep Kaura** Deputy Director Academics, BFC Attended 17th orientation course organized by Punjabi University Patiala (A grade) on dated 10.07.2013 to 06.08.2013

**Dr. Manish Gupta**, Department of Applied Sciences Attended

Faculty Development Programme On Development of Digital Library with DSpace Software by Punjab Technical University, Jalandhar, at MIMIT Malout ,5 August to 9 August 2013.

**Gaurav Bansal**, Department of ECE Attended Faculty Development Program by Department of Science & technology, Govt. Of India, New Delhi & Entrepreneurship Development Institute of India (EDI), Ahmadabad. At BFCET BATHINDA ,Jan-2013.

**Gaurav Bansal**, Department of ECE Attended Faculty Development Programme on Future Trends of Broadband Wireless Communications and Networking by AICTE Sponsored Two Weeks Winter School Scheme at SLIET LONGOWAL ,09.12.13 to 20.12.13.

**Charandeep Singh** Dept CSE attended a five day FDP on “High Impact Teaching Skills” organized by Wipro under Mission 10X, held at GGSCMT, Kharar, 2013.

**Charandeep Singh** Dept CSE attended a five day FDP on “Mechatronics” sponsored by Punjab Technical University, Jalandhar, held at GGSCMT, Kharar, 2013.

**Prof. B.S.Brar**, Department of Applied Sciences Participated in AICTE recognised Short Term Course on “Induction Training Programme Through ICT”, organised by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, at Baba Farid College of Management and Technology, Bathinda, 10th June, 2013 to 14th June, 2013.

**Dr. Manish Gupta**, Department of Applied Sciences Attended Workshop on Evaluators/Stakeholders on Outcome Based Accreditation Process & Parameters For Under Graduate Engineering Programme by NBA&PTU at PTU, Jalandhar, 25-28 July, 2013.

**Er. Harsimran Singh**, Department of Electrical Engineering attended a faculty development programme on Entrepreneurship Development organized by NITCON at Baba Farid College of Engineering and Technology on dated 7 Jan 2013.

**Er. Harsimran Singh**, Department of Electrical Engineering attended a faculty development programme “Energy resources and Computational Techniques in EE organized by NITTTR, Chandigarh at GZS PTU campus from 15-19 July, 2013.

**Er. Kovid Sharma** Department of ME attended Short Term

Course on topic Induction Training Programme Through ICT organized by NITTR, CHD sponsored by Ministry of HRD, GOI, New Delhi at BFCMT, Bathinda, 10-14 June, 2013.

**Er. Kovid Sharma** Department of ME attended LATEX Workshop under Spoken Tutorial Project, Developed at IIT Bombay, funded by NMEICT, MHRD, Govt. of India At BFCET, Bathinda ,21 November, 2013.

**Er. Ripandeep Singh**, Department of attended Short Term Course on topic Induction Training Programme Through ICT organized by NITTR, CHD sponsored by Ministry of HRD, GOI, New Delhi at BFCMT, Bathinda, 10-14 June, 2013.

**Er. Ripandeep Singh**, Department of ME attended LATEX Workshop under Spoken Tutorial Project, Developed at IIT Bombay, funded by NMEICT, MHRD, Govt. of India At BFCET, Bathinda ,21 November, 2013.

**Babita Singla** attended a Faculty Development Programme on Entrepreneurship Development organized by NITCON at Baba Farid College of Engineering & Technology on 7 Jan 2013.

**Babita Singla** attended a Faculty Development Programme on Induction Training Programme organized by NITTTR, Chandigarh at Baba Farid College of Management & Technology, Bathinda on 10–14 June, 2013.

**Deepinder Singh** attended a Faculty Development Programme on Entrepreneurship Development organized by NITCON at Baba Farid College of Engineering & Technology on 7 Jan 2013.

**Deepinder Singh** attended a Faculty Development Programme on Induction Training Programme organized by NITTTR, Chandigarh at Baba Farid College of Management & Technology, Bathinda on 10–14 June, 2013.

**Ekta** attended a Faculty Development program on spoken tutorial based software training on Latex at Baba Farid College of Engineering and Technology, Bathinda in collaboration with the Spoken Tutorial IIT Bombay.

**Harminder Singh** attended a Faculty Development Programme on Induction Training Programme organized by NITTTR, Chandigarh at Baba Farid College of Management & Technology, Bathinda on 10–14 June, 2013.

**Jia Dhingra** attended a Faculty Development Programme on Induction Training Programme organized by NITTTR at Baba Farid College of Management and Technology, Bathinda from 10.06.2013 to 14.06.2013.

**Neetu Singh** attended a Faculty Development Programme on Induction Training Programme organized by NITTER at Baba Farid College of Management and Technology, Bathinda from 10.06.2013 to 14.06.2013.

**Sachin Dev** attended a Faculty Development Programme Entrepreneurship Development organized by NITCON at Baba Farid College of Engineering & Technology on 7 Jan 2013.

**Sachin Dev** attended a Faculty Development Programme on “Induction Training Programme through ICT ” organized by NITTTR, Chandigarh at Baba Farid College of Management & Technology, Bathinda on 10–14 June, 2013.

### WORKSHOPS ATTENDED

**Ram Sharn** Dept of Geography attended a workshop on “Census Inffo” organized by Census of India at Census of India office, Madhya Marg, Chandigarh dated 20th Dec 2013

**Amandeep Singh** Dept of Geography attended National workshop on photography in teaching of geography organized by Govt College of Education, Patiala in collaboration with Association of Punjab Geographers. 2013

**Amandeep Singh** Dept of Geography attended Training programme in Tourism awareness organized by Punjab Heritage and Tourism Promotion Board (PHTPB) and United Nations World Tourism Organisation (UNWTO). 2013

### INVITED TALKS / EXPERT TALKS BY THE FACULTY

**Dr. Rahul Joshi** delivered a lecture on topic “Diversity of Lithosiin moths (Lepidoptera: Erebidae: Arctiinae) from India “ and also Co- Chaired a session at National Conference on Insect Diversity and Systematics: Special emphasis on Molecular approaches organized by Department of Zoology, Aligarh Muslim University, Aligarh (U.P.) dated October 28-30, 2013.

### PATENTS GRANTED/FILED

**Hardeep Kaur** filed Patent titled “DNAzyme based Lead Biosensor” under Application No: 842/DEL/2013 dated March 20, 2013. Current status

–awaiting examination.

**Hardeep Kaur** filed Patent titled “Microarray based Heavy Metal Optical Biosensor” filed under Application No: 843/DEL/2013 dated March 20, 2013.

**BABA FARID COLLEGE OF ENGINEERING & TECHNOLOGY** (Helpline: 95011-15524,511)

B.Tech. (CSE, ECE, IT, CE, ME, EE), M.Tech. (CSE, ECE)

**BABA FARID COLLEGE OF MANAGEMENT & TECHNOLOGY** (Helpline: 95011-15602,621)

MBA

**BABA FARID COLLEGE OF COMPUTER SCIENCE & TECHNOLOGY** (Helpline: 95011-15231)

BCA, PGDCA, M.Sc. (IT), M.Sc. (IT) 2nd Year Lateral Entry

**BABA FARID COLLEGE OF HIGHER STUDIES** (Helpline: 95011-15209, 344, 381)

M.Sc. (Mathematics), M.Sc. (Physics), M.Sc. (Chemistry), M.Sc. Geography, M.Sc. (Service Industry Management), M.A. (English), M.A. (Punjabi), M.A. (Economics), M.A. (History), M.A. (Political Science), M.Com., PG Diploma in Retail Management, PG Diploma in Insurance & Banking



**BABA FARID COLLEGE** (Helpline: 95011-15202, 344, 381)

B.Sc. (Agriculture), B.Sc. (Biotechnology), B.Sc. (Computer Science), B.Sc. (Medical & Non-Medical), B.Sc. (Computer Science, Statistics & Mathematics), B.Sc. (Mathematics Computer & Management), B.Sc. (Airlines, Tourism & Hospitality Management), BBA, B.Com., B.Com. (Honours)\*, B.A.

**BABA FARID COLLEGE OF EDUCATION** (Helpline: 95011-15580,579)

B.Ed., M.A. (Education)

**BABA FARID SR. SEC. SCHOOL** (Helpline: 95011-15109,180)

10+1 & 10+2 (All Streams)

**BABA FARID PUBLIC SR. SEC. SCHOOL** (Ajit Road, Bathinda) (Helpline: 95011-15954)

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