NEWSLETTER

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December 2012

VISION

To build a vibrant multicultural learning environment founded on value based academic principles, wherein all involved shall contribute effectively, efficiently and responsibly to the nation and global community.

Inside this issue....

राष्ट्रीय प्रौद्योगिकी संस्थान, हमीरपुर (हि० प्र०)
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From Director's Desk



Prof. Rajnish Shrivastava

We all are well versed with this fact that technology is visualized to play a pivotal role in sustainable socio-economic development of any country. Effective and efficient utilization of resources add to growth, prosperity and greatness of any country. Development and Disaster are nourished in the lap of academicians and so it is the need of the hour that academicians put their efforts with full integrity in the interest of Mother India. From dawn to dusk, I dream of our academicians deriving unparalleled teaching methodologies which can evolve our education system into a landmark system globally.The twenty eight hundred years ago Takshshilaera is again awaited when the educational practices evolved here in our country would be followed throughout the world without any trace of doubt and hesitation.

I strive to see this tranquil institute moving on path of excellence year after year. The thrust on quality of education and research of this NIT should be recognized not only across the nation but beyond the boundaries of this nation. This is possible if we seriously focus on International Engineering alliance and become part of international agreements governing mutual recognition of engineering qualifications and professional competence.

This newsletter which is now in your hands depicts the exuberant efforts made by the students and Faculty colleagues which in turn reflect their progression towards transforming this dream to a reality.

I wish to express again that the message contained is not only limited to N.I.T Hamirpur but to all educational Institutes who aspire to become a part of that awaited era referred in the previous lines.

With all Good Wishes

Prof Rajnish Shrivastava

Annual Tec-fest NIMBUS-2013







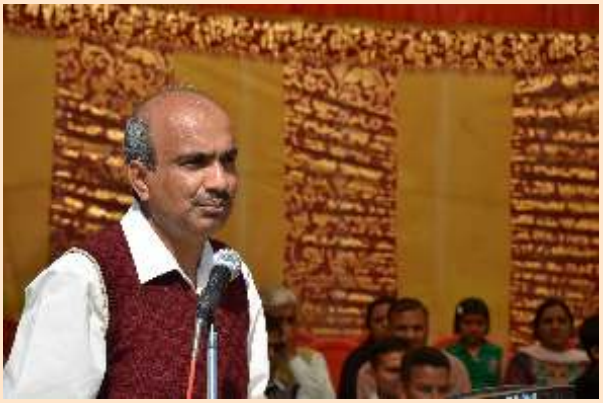


The annual technical festival of NIT Hamirpur was organized from 4th April, 2013 to 6th April, 2013. Nimbus is three day grand events encompassing a multitude of technical activities which help students learn better. At the commencement of this exceptional journey, we were joined by Prof. Sunil Pandey, Hon'ble Director, SLIET, Longowal as our Chief Guest. The Occasion was presidedover by Prof. Rajnish Shrivastava, Hon'ble Director, NIT Hamirpur and various other distinguished guests. The three days of technical potpourri were accompanied by recreational activities like Sky Lanterns, Laser Show and DJ Night. The students' participation from within and outside the college was immense which made the event a huge success. The valedictory ceremony was presided over by Prof. Rajnish Shrivastava, Hon'ble Director, NIT Hamirpur, where the winners of various competitions were rewarded. The success of the event not only brings learning and pride, but also decorates the immense efforts of the students and the teachers of NIT Hamirpur.





Annual Sports Meet-2013







Annual athletic meet cum prize distribution function was organized in the sports complex on 22-23 March, 2013. Chief Guest Prof. Rajnish Shrivastava Director NIT Hamirpur while addressing to the gathering, highlighted the importance of sports to the students. Dean Student's welfare Professor Raman Parti and Sports coordinator Prof. Surinder Kumar Soni in their speeches highlighted the achievements made by students throughout the year. During two days function, various athletic events like 100m, 200m, 400m, 800m,1500m & 5000m, long jump, high jump, triple jump, shot put, discus throw etc., were organized.













Ceremonies, Celebrations and MOUs

Ustad Kamal Sabri performs at NIT Hamirpur

On the evening of 18th January, 2013, the beautiful campus of NIT Hamirpur got itself drenched in the musical extravaganza, organized by SPIC-MACAY, NIT HAMIRPUR chapter, in the benign presence of Ustad Kamal Sabri, a renowned Sarangi maestro, Sukhmay Banerjee, a tabla player accompanied by young talent Nabeel Khan, a Sarangi player. Lighting of the holy lamp by the Director Prof. Rajnish Shrivastava, Sh. Jagat Ram, SP Hamirpur, Dr. Raman Parti, Dean S &AA along with faculty coordinator Dr. GargiKhanna marked the beginning of the auspicious evening, with an approximate participation of about 500 audiences. The splendor and charisma of Indian music enchanted one and all, with the applause loud enough to long last in everybody's hearts. Endeavoring to popularize Sarangi and Indian classical music across the globe, the effervescent Ustad feels that Sarangi is the music of the eternal human soul.





The 64th Republic Day of our great country was celebrated with great zeal on 26th of January 2013. Professor Rajnish Shrivastava unfolded the national flag and a parade was also organized by NCC wing of the institute. The enthralling ceremony concluded with cultural program organized by students of NIT Hamirpur.





NIT Hamirpur signed a Memorandum of Understanding (MOU) with National Institute of Secondary Steel Technology (NISST) on 7th February 2013. At this occasion Professor Rajnish Shrivastava, Director NIT Hamirpur, Er. T.P Bagchi, Director NISST represented their respective Institutes. Prof. Rakesh Sehgal, Prof Vinod Kapoor and Prof Rajesh Sharma were witness to this landmark moment of collaboration and symbiotic fervor.

NIT Hamirpur signed a Memorandum of Understanding (MOU) with Central tool room Ludhiana on 5th March 2013. At this occasion Professor Rajnish Shrivastava, Director NIT Hamirpur, Er. A.P Sharma, General manager CTR Ludhiana represented their respective organizations. Prof. Rakesh Sehgal, Prof Vinod Kapoor, Prof Rajesh Sharma were witness to this MOU.

National Science Day Celebrations were held on Feb 28, 2013 by Centre for Energy & Environment at N.I.T hamirpur. The event was sponsored by H.P. State Council for Science, Technology & Environment,Shimla and was coordinated by Prof. S. S. Chandel.

PRAYAS- A regular event of Team literacy was organized on 13th April 2013

Publications in International Journals of Repute

S.No	Authors	Title	Journal (with issue, page no etc.)	Publisher
1	**AnkushVij**, S. Gautam, V. Kumar, R. Brajpuriya, **Ravi Kumar**, N. Singh and K. H. Chae	X-ray absorption spectroscopy and photoluminescence study of rare earth ions doped strontium sulphide phosphors	Applied Surface Science, 264 (2013), pp. 237-241	**Elsevier**
2	A. Singh, **AnkushVij**, D. Kumar, P. K. Khanna, M. Kumar, S. Gautam and K. H. Chae	Investigation of phase segregation in sol-gel derived ZnMgO thin films	Semiconductor Science and Technology, 28(2013), pp. 025004	**IOP**
3	J. P. Singh, G. Dixit, R.C. Srivastava, PuneetNegi, H.M. Agrawal and **Ravi Kumar**	HRTEM and FTIR investigation of nanosized zinc ferrite irradiated with 100 MeV oxygen ions	SpectrochimicaActa Part A: Molecular and Biomolecular Spectr-oscopy, 107(2013), pp.	**Elsevier**
4	J. P. Singh, G. Dixit, R.C. Srivastava, H.M. Agrawal and **Ravi Kumar**	Raman and Fourier-transform infrared spectroscopic study of nanosized zinc ferrite irradiated with 200 MeV Ag^{15+} beam	J. Alloys Compd., 551(2013), pp. 370	**Elsevier**
5	Sacheen Kumar and **JaspreetKaur**	Preparation and characterization of Paliperdone loaded solid lipid nanoparticles	Colloid and Surfaces B: Bio interfaces, 102(2013), pp. 562–568	**Elsevier**
6	Sacheen Kumar and **JaspreetKaur**	High Melting Lipid Based Approach for Drug Delivery: Solid Lipid Nanoparticles	Material Science and Engineering C, 33(2013), pp. 1842-1852	**Elsevier**
7	**K. Senthilkumar,** M. Subramanian, H. Ebisu, M. Tanemura and Y. Fujita	Trapping and Recombination Properties of the Acceptor like V_{Zn}-H Complex Defect in ZnO	J. Phys. Chem. C, *117*, pp. 4299 (2013)	**ACS**
8	Amit Yadav & SS Chandel	Tilt Angle optimization to maximize incident solar radiation: A Review	Renewable and Sustainable Energy Reviews, 23(2013) pp.503-513	**Elsevier**
9	Rahul Rawat and S. S. Chandel	Hill Climbing Techniques for Tracking Maximum Power Point in Solar Photovoltaic Systems-A Review	International Journal of Sustainable Development and Green Economics, 2(1) 2013,	----------

10	Shagun Thakur, Sushilkumar& Rajesh kumar	Study of Alpha Decay chains of super heavy Nuclei and Magic number beyond Z=82 and N=126	Brazilian Journal of Physics	Springer
11	ShagunThakur,Rajeshkumar, K.R. Vijayaraghavan,M. Balasubramaniam	Alpha accompanied ternary Fission of Superheavy Nuclei	International journal of Modern physics E,vol.22 (3) 2013, pp.	World scientific
12	Vinod kumar, Yogeshkumar,Rajesh kumar,Dinesh.K.Shukla,S.K.Arora,I.V.Shvet and Ravi Kumar	Structural, magnetic and X- ray absorption studies of $NdCo_{1-x}Ni_xO_3$ (0=x=0.5)	Journal of applied Physics, vol. 113(4) 2013.	American Institute of Physics (AIP)
13	Shagun Thakur, Sushilkumar& Rajesh kumar	Study of Alpha Decay chains of super heavy Nuclei and Magic number beyond Z=82 and N=126	Brazilian Journal of Physics, April 2013	Springer
14	ShagunThakur,Rajeshkumar, K.R. Vijayaraghavan,M. Balasubramaniam	Alpha accompanied ternary Fission of Superheavy Nuclei	International journal of Modern physics E,vol.22,2013	World scientific
15	RohanSamkaria&Vimal Sharma	Structural dielectric and electrical studies of Mg Al2-2x Y2xO4(X=0.00-0.05) cubic spinel Nano aluminate.	Journal of Electroceramics, April 2013	Springer
16	PriyankaKaushal, Subhash Chand, and JozefOsvald	Current voltage characteristics of Schottky diode simulated using semiconductor device equations	International Journal of Electronics, 100(5), 2013, pp. 686-697	Taylor and Francis
17	Subhash Chand, PriyankaKaushal and JozefOsvald	Numerical simulation study of Schottky diode characteristics with inverse doped surface layer	Materials Science in Semiconductor Processing, 16(2) 2013,pp.454-460	Elsevier
18	**Ashwini Kumar Chandel and P. Srikanth**	Inverse S transform based identification of non-linear loads	Arabian Journal for Science and Engineering DOI:10.1007/s13369-013-0577-2	**Springer**
19	Pandey,U.K. &Benipal,G.S.	"Response of SDOF bilinear elasto-dynamical models of cracked concrete beams for El-Centro earthquake."	The IES Journal Part A:Civil and structural Engineering, [To be published in Vol. 6(3)]	Pandey,U.K. & Benipal,G.S.

20	**Rakesh Sehgal,** Amit Chauhan and Rajesh Kumar Sharma	An experimental investigation of oil film temperatures in elliptical profile journal bearing	Tribology Online, 8, 1 **(2013),** pp. 1-6.	**Japanese Tribology Society**
21	**Mukund Dutt Sharma**, Rakesh Sehgal &Arunil Sharma	Experimental study of machining characteristics of titanium alloy (Ti-6Al-4V)	The Arabian Journal for science and Engineering. DOI:10.1007/s13369-	Springer-Verlag
22	**J. N Sharma, YD Sharma and A.D. Thakur**	Disturbance due to pint loads in a piezothermoelastic continuum	Journal of Thermal Stresses, 36 (2013) pp.259-283	**Taylor & Francis**
23	**AmitMahajan**, M. Arora	Convection in rotating magnetic nanofluid", **"Applied Mathematics and Computation**	**Applied Mathematics and Computation, 219(11) 2013 pp.**6284-6296.	**Elsevier**
24	Ravinder Kumar, Suresh Dhiman	A study of sliding wear behaviors of Al-7075 alloy and Al-7075 hybrid composite by response surface methodology analysis	Materials and Design	Ravinder Kumar, Suresh Dhiman
25	**SushantNegi, Suresh Dhiman and Rajesh Kumar Sharma**	**Basics and applications of rapid prototyping medical models**	*Rapid Prototyping Journal Vol. 20 issue 2(2014)*	**Emerald**
26	**1.Ghosh, K.S.**	Inherent aggregation propensity of flanking residues attached to polyglutamines: implication to aggregation inhibition	***Protein and Peptide Letters 20, pp. 569-572 (***2013)	Bentham Science Publishers
27	**2.Roy, A.S., Ghosh, K.S. andDasgupta, S.**	**An investigation into the altered binding mode of green tea polyphenols with human serum albumin on complexation with copper**	**Journal of Bim-olecular Structure and Dynamics (2013), In press**	Taylor and Francis
28	Kulwardhan Singh, T.P. Sharma	An Energy Efficient strategy for Grid-based Data Dissemination supporting Mobile Sinks in Wireless Sensor Networks	*UACEE International Journal of Advances in Computer Networks and its Security*, 3(1),	----------

Publications in International/National Conferences

1. A. K. Sharma,**AnkushVij,** S. Kumar, S. P. Lochab, **Ravi Kumar,** "TL Kinetics study of LiFnanophosphors for high exposure of gamma-rays",AIP Conference Proceeding1512 (2013) 356
2. A. K. Sharma,S. Kumar, S. P. Lochab, **Ravi Kumar**, Photoluminescence and optical absorption of LiF:Eu phosphors,AIP Conference Proceeding1512 (2013) 276
3. **AnkushVij, Ravi Kumar**, S. P. Lochab and N. Singh, Thermoluminescence of swift heavy ion irradiated SrS:Ce nanostructures, Proceedings of International Conference on Emerging trends in Physics for Environmental Monitoring and Management (ETPEMM-2012) held at Patiala University from Dec. 17-19, 2012.
4. SumitBhardwaj, J.P. Sharma, K.K. Raina and **Ravi Kumar**, Raman spectroscopy studies of $Bi_4Ti_3O_{12}$ Nanocrystals prepared by mechanical alloying, Paper Presented in International Conference on Recent Trends in Applied Physics and Material Science held at Bikaner, Feb 01-02, 2013
5. J.P. Sharma, SumitBhardwaj, **Ravi Kumar**, K.K. Raina and R.K. Kotnala, Dielectric study and multiferroic behavior of Fe and Sm doped bismuth Titanate, Paper Presented in International Conference on Recent Trends in Applied Physics and Material Science held at Bikaner, Feb 01-02, 2013
6. Minaxi Sharma, K.K. Sharma, **Ravi Kumar**, R.J. Choudhary, Thickness dependent transport studies of YBCO in $La_{0.7}Sr_{0.3}MnO_3/YBa_2Cu_3O_7/La_{0.7}Sr_{0.3}MnO_3$heterostructure, Paper Presented in International Conference on Recent Trends in Applied Physics and Material Science held at Bikaner, Feb 01-02, 2013
7. PawanpreetKaur, K.K. Sharma and **Ravi Kumar**, Effect of swift heavy ion irradiation on structural properties of $GdFeO_3$ thin films, Paper Presented in International Conference on Recent Trends in Applied Physics and Material Science held at Bikaner, Feb 01-02, 2013
8. RabiaPandit, K.K. Sharma and **Ravi Kumar**, Structural, Cationic distribution and dielectric studies of Zn2+ doped Cobalt ferrites Co1-xFe2ZnxO4 (x=0.2, 0.4)Paper Presented in International Conference on Recent Trends in Applied Physics and Material Science held at Bikaner, Feb 01-02, 2013

9. SudhirSaralch, AnkurKalia and **Vishal Singh**, *Mechanical and Tribological Behavior of Graphite/Epoxy Composites*, Presented at 'International Conference on Polymers on the Frontiers of Science and Technology (APA-2013)', February 21-23, 2013, Panjab University, Chandigarh, India.

10. ***Saurabh Kumar, SudhirSaralch and Vishal Singh, Morphological and Mechanical properties of Graphite/Polypropylene composites prepared using a Twin Screw Extruder, Presented at 'International Conference in Chemistry- Frontiers & Challenges (ICCFC-13)', March 2-3, 2013 Aligarh Muslim University, Aligarh (U.P.), India***

11. Mohit Kumar Sharma and **Vishal Singh**, *Gadoloinum doped Cerium Oxide Nanoparticles prepared by Solution Combustion Method**, Presented at 'International Conference in Chemistry- Frontiers & Challenges (ICCFC-13)', March 2-3, 2013 Aligarh Muslim University, Aligarh (U.P.), India***

12. Kushal Singh, Manvendra Singh Khatri and **Vishal Singh**, *Synthesis and Electric Characterization of Cobalt Ferrite- Barium TitanateMagnetoelecric Composites**, Presented at 'International Conference in Chemistry- Frontiers & Challenges (ICCFC-13)', March 2-3, 2013, Aligarh Muslim University, Aligarh (U.P.), India***

13. SanjeevKatoch, Rakesh Sehgal and **Vishal Singh**, *Comparative study of the Sliding Wear Behavior of Cyrogenically Treated and Conventionally Treated Hot Die Steel Grade AISI-H11*, Presented at 3rd International Conference on Production and Industrial Engineering CPIE-2013, March 29-31, 2013, Dr. B R Ambedkar National Institute of ***Technology, Jalandhar-144011, India***

14. **K. Senthilkumar**, M. Subramanian, H. Ebisu, M. Tanemura, and Y. Fujita, Photo-induced EPR Study of Electron Trap in ZnO Nanoparticles, Presented at International conference on Recent Trends in Applied Physics & Materials Science held at Govt. College of Engineering and Technology, Bikaner, Feb 01-02, 2013

15. Sacheen Kumar and **JaspreetKaur**, "Effect of Surfactant on Temperature Stability of Solid Lipid Nanoparticles Studied by Dynamic Light Scattering" International Conference on Recent Trends in Applied Physics & Material Science Feb 01-02, 2013.

16. Sunil chamoli and N. S. Thakur, "Heat transfer and fluid flow analysis of perforated baffled roughened solar air heater using CFD simulation". ICMIE-2013, 17th March 2013, Pune.

17. Ranchan Chauhan and N.S Thakur, "Effect of jet diameter on the performance of impinging jet solar air heater". ICMIE-2013, 17th March 2013, Pune.

18. VivekPrakashPankaj&MamtaAwasthi"Integrated approach of microalgae towards wastewater treatment and biofuel production" in the International conference on Algal Biorefinery: A Potential source of Food, Feed, Biochemicals, Biofuels and Biofertilizers, which held in IIT Kharagpur during January 10-12, 2013.

19. RohanSamkaria and Vimal Sharma, " Structural and Dielectric studies of spinel Magnesium Aluminate with Yttrium substitution" at 19th National Conference on liquid Crystals, Thapar University Patiala, Nov. 21-23, 2012.

20. RohanSamkaria and Vimal Sharma,"Structural and Dielectric properties of MgAl2-2xY2x O4 Nanoparticles" atInternational conference on Ceramics, GEC Bikaner, Dec. 12-13, 2012.

21. SubhashChand andPriyankaKaushal, "Numerical simulation study of barrier inhomogeneities at Schoktty contacts" at Advanced Semiconductor Devices and Microsystems, ASDAM 2013, , Smolenice Castle, Slovakia.
22. Yogesh Gupta and Vikas Thakur, "Brand Awareness: A Case Study Of Mohan Meakin Limited" 12th International Conference on Global Contemporary Issues, Innovation and Future Challenges, In Business, IT & Management, Jaipur (India), January 05 and 06,2013, Organised by Research Development Association & Research Development Research Foundation, Jaipur, Conference Proceedings, pp-90.
23. BatchuRajshekhar and Ashwani Kumar Chandel, "Joint Placement of Phasor and Power flow measurements for Obsevability of Power Systems using differential evolution" in International conference on power energy and control (ICPEC'13) at PSNA College of Engineering & Technology, Dindigul, TN, 6-8 February 2013.
24. Manish Vaishnav and B.B Sharma, " Design of PD observers for SPROTT chaotic systems" in World conference on Advance communication and control systems, D.I.T Dehradun, 6-8 April 2013, pp1-4.
25. Manish Vaishnav and B.B Sharma, "Observer Design and Synchronization of fourth order Lorenz stenflo chaotic system" in IEEE SCES-2013, M.N.N.I.T Allahabad (India), 12-14 April 2013, pp.1-6.
26. Rakesh Sehgal, Mukund Dutt Sharma, Arunil Sharma, Effect of Approaching Angle on Main Cutting Forces While Turning Ti-6Al-4V Alloy, International Conference on Mechanical, Electronics and Mechatronics Engineering (ICMEME'2012), PSRC, Bangkok, Thailand, 2012, 35-39. (Received Best paper Award).
27. Mukund Dutt Sharma, Rakesh Sehgal, SurjitAngra, Effect of heat treatment on the tribological properties of Titanium alloy (Ti-6Al-4V), International Conference on Industrial Tribology (ICIT-2012), Pune, India, 2012, TSI 812511.
28. Rakesh Sehgal, Mukund Dutt Sharma, SurjitAngra, Friction and wear behaviour of AISI A2 tool steel under dry sliding condition, International Conference on Industrial Tribology (ICIT-2012), Pune, India, 2012, TSI 812512.

29. Mukund Dutt Sharma, Rakesh Sehgal, Experimental study to analyze the dry sliding friction and wear behaviour of titanium alloy (Ti-3Al-2.5V), 3rd Intl. Conf. on Production and Industrial Engineering CPIE-2013,March 29-31, 2013, NIT Jalandhar (Pb.) India.ID No 0936, pp. 920-925.
30. Rakesh Sehgal, Mukund Dutt Sharma, Effect of Cutting Speed on Cutting Force and Surface Roughness While Turning AISI A2 Tool Steel, 3rd Intl. Conf. on Production and Industrial Engineering CPIE-2013,March 29-31, 2013, NIT Jalandhar (Pb.) India.ID No 0937, pp. 926-931.
31. RohitMaan, Rahul Sharma, AmitUpadhyay, Kuldeep Singh, Rajnish Prasad, Rakesh Sehgal, Mukund Dutt Sharma, Study of the effect of heat treatment on the tribological characteristics of H-11 steel under dry sliding conditions, 3rd Intl. Conf. on Production and Industrial Engineering CPIE-2013,March 29-31, 2013, NIT Jalandhar (Pb.) India.ID No 1221, pp. 1195-98.
32. Siddhartha, Ajay Dhiryan&Akant Kumar, "Influence of process parameters of Centrifugal casting on friction, wear and mechanical characteristics of fly-ash cenosphere epoxy functionally graded materials" in 3rd Intl. Conf. on Production and Industrial Engineering CPIE-2013,March 29-31, 2013, NIT Jalandhar (Pb.) India.ID No 0940, pp. 941-953.
33. Manoj Sharma, "Evolution of Higher Education in India: Privatization is need of the day" in UGC sponsored national Seminar on Higher Education in India: need for quality Employability, equity and inclusion at Government Degree College Sujanpur (HP) on 9 February 2013.
34. Kulwardhan Singh, T.P. Sharma, "An Energy Efficient strategy for Grid-based Data Dissemination supporting Mobile Sinks in Wireless Sensor Networks," International conference on Advances in Computer Science and Electronics Engineering (CSEE 2013)" ISBN: 978-981-07-5461-7 New Delhi, Feb 2013.

Foreign Visits & Program Attended.

1. Dr. S. S. Katoch attended India Water Week,2013- Efficient Water Management "Challenges & Opportunities" during April 8-12, 2013, organized by Ministry of Water Resources, Govt. of India at VigyanBhawan, New Delhi 110001.
2. Dr. MamtaAwasthi attended an International Conference on Sustainable Technologies. January 18- 20, 2013 JamiaMilliaIslamia University, New Delhi.
3. Professor Rakesh Sehgal attended aProgramme on "Management Capacity Enhancement for Administrators", Feb. 11-15, 2013, IIM Lucknow under TEQIP-II scheme of NIT Hamirpur (H.P.)

Awards, Recognitions & milestones achieved.

- Dr. JaspreetKaurRandhawa got two major research projects (i) " Nanostructure Metal Oxide: Application to Biosensing" Funded by Indian council of medical research New Delhi (24 lakhs) (ii) **"Novel routes for Nano crystallisation of energetic compounds" funded by** ARMREB-DRDO (69 lakhs).
- A book chapter by Awasthi, M. and VivekPrakashPankaj (2013) entitled "The Potential of Biogas Production Through Anaerobic Digestion of Algae" Chapter 7 has been included in: India's Rural Transformation and Development: Issues, Processes and Direction, by Thomas G. Fraser (ed.), **ISBN 13**-9788192570204, **Publisher: DK Printworld (P) Ltd.**
- Professor Rakesh Sehgal chaired a technical session in the International Conference on Production and Industrial Engg. (CPIE 2013) held at NIT, Jalandhar (Punjab.) during March 28-31, 2013.
- Professor J.N Sharma delivered Key Note address at UGC sponsored National Seminar on Recent Trends in Pure and Applie Maths, Department of Mathematics, Department of Computer Science & Mathematics, Hindu College Amirtsar, 13 March, 2013.

- Professor J.N Sharma chaired a technical session, International Conference in Mathematical Sciences, Department of Mathematics, Government College Haripur (Manali) HP, 8-9 March, 2013.
- **Dr. RajeevanChandelwas** Session Chair and Member of National Advisory Committeefor 3rd**National Conference Recent Advances in Electronics & Communication Technology (RAECT-2013), GNDEC Ludhiana, 21-22 March 2013.**
- **Dr. GargiKhannawas** Session Chair for 3rd**National Conference Recent Advances in Electronics & Communication Technology (RAECT-2013), GNDEC Ludhiana, 21-22 March 2013.**

Conferences /Workshops/ STCs Conducted:

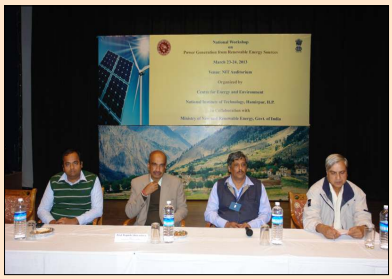
✓ The Technology Information Forecasting and Assessment Council (TIFAC) an autonomous entity under DST-Government of India initiated the program to create center of relevance and Excellence (COREs) in diverse disciplines across the country. The mega project of Rs. 530 Lakhs, TIFAC-CORE in power transformer diagnosis was sanctions to N.I.T. Hamirpur in 2004. One Day Workshop on "Electric shock, Prevention & First Aid was organized by Prof. Yog Raj Sood as Coordinator under this project on 24 January 2013.



✓ A National Workshop on **"Engineering Applications for Sustainable Development (EASD-13)** was organized by E&CE Department of NIT Hamirpur from 15th to 17th Feb 2013, under the aegis of TEQIP-II. The theme of the National Workshop EASD-13 gains significance as human health and well being are the need of the day.



✓ Two days "National Workshop on Power Generation from Renewable Energy Sources" on March 23-24, 2013 organized by Centre for Energy and Environment, NIT-Hamirpur in collaboration with Ministry of New and Renewable Energy, Govt. of India at NIT-Hamirpur. Prof. S. S. Chandel coordinated the entire workshop.



✓ **Department of Electrical engineering organized a work shop on "Virtual Instrumentation using Lab View" on 8th to 9th April 2013. Dr. RavinderNath and Er. AmitKaul coordinated thus workshop. Participants from various Institutes attended the workshop.**

✓ **Department of Computer Science & Engineering organized short term training programme on"Intrusion Detection Tools and techniques for security (IDTTS-2013)" under ISEA project during 21-25th March, 2013. The programme was inaugurated by Prof. Rajnish Shrivastava, Director, NIT Hamirpur. Prof. Shrivastava emphasized over the need for having secure ICT infrastructure for any organization. Programme was attended by 29 participants.**

✓ **First Alumni Meet** of Computer Science &Engineering Department was conducted on 13th April, 2013. Prof. Rajnish Shrivastava, Director, NIT Hamirpur was the chief guest of the function. Dr. KamleshDutta, Head of the department extended warm welcome to the alumni, and the dignitaries to the Alumni meet. Prof. Rajnish Shrivastava in his welcome address requested the alumni for their active support and suggestions for the growth and development of the alumni network. He emphasized over the need for strengthening the ties with the alumni for promoting training and placement of students, industry-institute interaction and having joint research programmes. Alumni who graduated from the department over the past twenty four years shared their experiences. Dr. Narottam Chand, alumnus of first batch was honored with the illustrous alumni award for his contribution in the area of academics and research by the Chief Guest.



✓ **Computer Science & Engineering society (C-SEC)** of the department organized first departmental technical event **"Enigma"**, from April 10th -13th 2013. Various events were organized: workshops on "C for placement" and "wordpress", Competitions for "GATE exam" and "development of algorithms"; and online competitions on "cryptography", "debugging of code" and "dynamic web development". Prof. Rajnish Shrivastava awarded prizes & commendation certificates to winners of various events. Prof. Rajnish Shrivastava appreciated the effort put by the students and emphasized over the need of having such events regularly, so that the students get opportunity to showcase their technical and organizational skills.

✓ **A course on "Rapid Visual Survey Non Structural Mitigation Measure and Retrofitting of Structure" was organized by Department of Civil Engineering for SSA engineers from 15-17 March, 2013.**

✓ **A course on "Rapid Visual Survey Non Structural Mitigation Measure and Retrofitting of Structure" was organized by Department of Civil Engineering for SSA engineers from 29-31 March, 2013.**

✓ **First independent alumni meet of civil engineering students was organized by civil Engineering department on 13th April, 2013. 38 Alumni participated in the meet.**

✓ **FirstInternational Workshop (under TEQIP-II) was conducted by Department of Mechanical Engineering on Exploring Science of Transportation Systems (TS-2013) – 11th -12th April.The workshop was coordinated by – Dr. Somesh Sharma, Dr. Mohit Pant and Dr. Rajesh Sharma.**

✓ A National Workshop on **"Engineering Applications for Sustainable Development (EASD-13)** was organized by E&CE Department of NIT Hamirpur from 15th to 17th Feb 2013, under the aegis of TEQIP-II. **Prof. Rajnish Shrivastava**, Director NIT Hamirpur was the Chief Guest at the inaugural session and appraised the gathering about the importance of such workshops and the role of TEQIP-II in transferring the technology to masses and enhancing awareness of technical knowledge in society during the inaugural session. The key note address delivered by **Dr. KanavKahol**, Director Affordable Health Services of PHFI, New Delhi and Adjunct Faculty, Arizona State University, USA on topics related to "Engineering for Social Development Case-Studies from Public Health" were well appreciated and received by the participants.

Expert lectures Delivered

- Er. T.P Bagchi, Director NISST delivered an expert lecture on "Indian steel Industry and metrology of steel making" on 7th February 2013 under Industry-Institute initiatives of TEQIP-II at N.I.T hamirpur. About 100 students and many Faculty members benefitted from the practical knowledge shared by Er. T.P Bagchi.
- Mr. Puneet Sharma, Deputy Manager Eicher-Volvo commercial vehicles India limited, Indore delivered an expert lecture on "Chasis Line installation for Heavy and medium duty commercial vehicles" on 18th March 2013 at N.I.T Hamirpur.
- **Prof. S. S. Chandel delivered an expert talk on "Solar and Wind Power Generation Options for Western Himalayan Region" at National Workshop on Renewable Energy,March 2,2013 ,Jawaharlal Nehru Govt. Engineering College , Sundernagar ,H.P**
- Prof. S. S. Chandel (CMSE) delivered an expert talk on "Solar and Wind Power Generation Potential in Western Himalayan Region" on Feb 16 2013 at National Science Day Talk, Govt. College Arki ,Himachal PradeshIndia.
- Dr. KamleshDutta (Assoc.Prof, CSED) delivered expert talks on "Web Testing" and "Hands on sessions with web testing tools " in the two days National workshop on "Building dynamic Website and Testing (BDWT)" JLNGEC Sundernagar during 6th and 7th April, 2013
- Dr. KamleshDutta (Assoc.Prof, CSED delivered expert talk on "Text mining and engineering applications" in FDP organized by NIT Jalandhar during 11-15 March, 2013
- Dr. KamleshDutta delivered expert talks on "IPv4 to IPv6 migration" and "Social Networking sites" in a 3-week Refresher Course in Computer Science, Electronics and Information technology November 27, 2012 to December 17, 2012 at GNDU, Amritsar.
- Mr. B S Ananth, Cisco systems, Bangalore delivered an expert lecture on"Cisco Intrusion Prevention System", IDTTS-2013
- Mr. Abhinandan Handa, Client Technical Professional, IBM Security Systems, delivered an expert lecture on "IBM Network Intrusion Prevention System", in a short term course on "Introduction to Intrusion detection Systems" **during 21-25th March 2013**.
- Er. Siddhartha Chauhan, NIT Hamirpur, delivered an expert lecture on "Data collection mechanism and various methods of Sampling used in Intrusion Detection System", in a short term course on

"Introduction to Intrusion detection Systems" **during 21-25th March 2013.**

- Professor J.N Sharma delivered an expert lecture in National Conference on Recent Advances in Continuum Mechanics under UGC-SAP (DRS-I), Department of Mathematics & Statistics, H P University Shimla – 177005, 29-30 March, 2013
- Prof. K.S Pandey delivered an expert lecture on "Case study of ICT infrastructure of NIT Hamirpur", in a short term course on "Introduction to Intrusion detection Systems" **during 21-25th March 2013.**
- Prof. Ravi Kumar delivered an invited lecture on "Innovation in Material Science in 20th and 21st centuries" in the "Workshop on Advanced Material Science" at MNIT Jaipur on Feb. 24, 2013.
- Prof. Ravi Kumar delivered an invited lecture on"Spintronics Materials" in the "Short term Course on Advanced Materials" at NIT Jalandhar during March 12-14, 2013.
- Prof. Ravi Kumar delivered an invited lecture on "Role of Ions in Nanomaterials and nanostructure synthesis" in Ion Beam in Materials Research (IBMR-2013) at MNIT Jaipur during March 22-23, 2013.
- Dr. RavinderNath delivered an expert lecture on " Innovations in Measuring Instruments" on 27th of April 2013 at Career point University, Hamirpur, H.P
- Dr. B.B Sharma delivered an expert lecture on " Non linear Systems: Analysis, stability and Design" on 30th March 2013 at LPU, Jalandhar Punjab.
- Er. AmitKaul delivered an expert lecture on " Introduction to MatLab and Image processing" on 27th of April 2013 at Career point University, Hamirpur, H.P
- Professor J.N Sharma delivered an expert lecture on Mathematical Modelling of elastic structures at Department of Mathematics, Marathwada University, Aurangabad (Maharashtra) on 5 April, 2013.
- Prof. J. S. Sahambi, IIT Roopar, delivered Expert Lectures on Biomedical Image Processing & Wavelets on 17th Feb 2013, during the TEQIP-II National Workshop on Engineering Applications for Sustainable Development (EASD-13), E&CED, NIT Hamirpur held from 15-17 Feb, 2013.
- Dr. Manoj Sharma delivered expert lecture at Training Centre S S B Sapri, District Kangra (HP) to officers and constable entitled on Inventory Management and Self-confidence on 9th March 2013.

Upcoming Activities

- The **6th Convocation** of National Institute of Technology, Hamirpur, is scheduled to be held on 13th June 2013. At this esteemed occasion **Padma Vibhushan Padma Shri Dr. R. Chidambaram, Principal Scientific Advisor to Govt. of India** and an eminent Nuclear Scientist of our country has kindly consented to deliver the convocation address to the degree recipients. NIT Hamirpur looks forward to have this great persona at it campus when he arrives here in June.
- National Conference on Recent Advances in Condensed Matters Physics (RACMP-2013) is scheduled to be held on 1-2 June 2013 at NIT Hamirpur The conference aims to provide a forum to unite the scientists and engineers working in different areas across the country to share their views on recent advances in the experimental as well as theoretical and simulation work in condensed matter physics.
- National Conference on "Advances in Civil Engineering Materials" is scheduled to be held on 22-23rd July 2013 at NIT Hamirpur. The conferences is focused on advances, their recent experiences and interesting developments in civil engineering materials so as to provide a meaningful answer to India's challenge in the new millennium.

- National Conference on “Electrical systems and Energy technologies is scheduled to be held on 28-29th June 2013 at NIT Hamirpur. The conference is organized in collaboration with The Institution of Engineers (India), H.P. State Centre Shimla and is focused on challenges in the domain of electrical engineering and associated technologies.
- National Conference on “Advances in Mathematics &its Applications” is scheduled to be held on 25-27th June 2013 at N.I.T Hamirpur. The Main aim of the conference is to promote, encourage, and bring together researchers in the various core and applied streams of mathematics.







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