N I T Hamirpur Newsletter



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Our 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.

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From the Director's Desk



It gives me pleasure to get connected to you through this newsletter. Looking at the activities carried out during last few months by various departments and centers of the institute gives me a feeling of satisfaction. The period has been full of activities besides the normal academics. During this period, the institute has organized a few conferences and dozens of short term courses, several community development programmes and many workshops/seminars/ symposia. In order to make our faculty working in this & other institutions several training programmes have been organized which we believe shall help in improving the standard of technical education. It has also provided an opportunity to the faculty to collaborate with the faculty of other institutions and provide a supervisory role for conducting research & developmental activities. Several new initiatives have been taken to train our students to meet the global challenges. One of the noteworthy amongst these is to expose students to *foreign language*. I am glad that two such training programmes have been carried out to teach them Spanish language. I am sure more such language courses will be taught in near future, which is expected to improve global employability of the students. Similarly, more M.Tech programmes have started during the last semester, which are being offered by Electrical Engineering, Electronics & Communication Engineering and Mechanical Engineering. The institute has realized the importance of Management and MBA course has been started on a self financing basis.

I am also happy to know that, the newly established centre's i.e. Centre for Energy & Environment and Centre for Material Science have started academic activities and are involved first time in offering courses to B.Tech/M.Tech students. These centres are likely to be fully equipped in next few months. I congratulate our Alumni, who have yet again shown a commitment towards their Alma Mater by creating one more chapter (Kolkata Chapter). I am sure these chapters will help the institution to stir itself in a right direction and their guidance & support shall be forthcoming. As the 25th year of existence of NIT Hamirpur is going to start soon, I earnestly request all chapters to organize at least one programme either at Chapters or at the institute. In order to have strategic alliance amongst NITs, Consortium of NITs (Co-NITs) has also been established. NIT Hamirpur has taken a lead in this and is coordinating its activities. This will help in forging mutual cooperation for various activities of faculty and students including exchange programmes. It is also hoped that it will boost research activities in all institutions. The Consortium has signed MoUs with top Finland Universities and it is expected to promote faculty and student exchange programme shortly.

I thank Dr Rajiv Kumar Sharma, Coordinator–Institute Newsletter and his team for their untiring efforts and bringing this issue of newsletter into your hands and appraising all about various initiatives taken by the institution.

Prof. I. K. Bhat
Director

Contact Details

National Institute of Technology Hamirpur
Hamirpur – 177 005 (H.P.)
Phone: 01972-254001, Fax: 01972-223834, Email: rksfme@nith.ac.in
Web Site: http://www.nith.ac.in

Inter NIT Deans Meeting

The Second Dean Student's meet was inaugurated on the morning of October 9th, 2009 in the Institute auditorium of NIT Hamirpur. Prof. Sunik K. Sarangi Director NIT Rourkela was the chief guest of the inaugural ceremony and Prof. I.K. Bhat Director NIT Hamirpur was the Guest of Honour. Prof. K. Sareendran, Dean NIT Calicut, Prof. Gautam Sanyal, Dean NIT Durgapur, Prof. S.P. Jain, NIT Kurukshetra, Prof. N.K. Verma, Dean NIT Raipur, Prof. Krishna Parmanik, Dean NIT Rourkela, Prof. Shivdutt Kumar, Coordinator SAAC NIT Allahabad, Prof. K.N. Lokesh, Dean NIT Surathkal, Prof. SPS Rajput, Associate Dean NIT Bhopal were present during the meet. Prof. G.J. Joshi, Dean NIT Surat joined the meet in the evening. Prof. Lalit Awasthi Dean (S & AA) welcomed the esteemed guests and elaborated on the agenda for the meet. Prof. Bhat acquainted the dignitaries about various developments at NIT Hamirpur. Prof. Krishna Parmanik presented brief review of the activities carried out during last year. Prof Sarangi deliberated on various issues in detail. The two day meet focused on inter NIT participation in various student activities.





NIT Dean Student's meet inauguration October 9th, 2009

Deans (Academic Affairs) from different NIT's across the country participated in the two day workshop from 22-23 October 2009, at NIT Hamirpur. The workshop was inaugurated by, Prof. I. K. Bhat, Director NIT Hamirpur. The two day meet focused on inter NIT participation in various student academic activities.

Deans (Academic Affairs) Meet



Conferences Conducted

Lamp lighting ceremony National Conference on Innovation without Limits Organized by Civil Engg. Dept.



National Conference on Recent Advances in Electrical & Electronics Engineering (RAEEE-2009)



Procession of National Conference on Recent Advances in Electrical & Electronics Engineering-RAEEE-09



The *Department of Civil Engineering*, organized Civil Engineering Conference-Innovation without Limits, CEC-2009 during 18-19 September, 2009. The conference was inaugurated by the Chief Guest Dr. R L Chauhan, Chairman BOG, NIT Hamirpur. Prof. S K Kaushik, Former Professor and Head, Indian Institute of Technology Roorkee and Prof. S K Thakkar, Former Professor Railway Chair, Indian Institute of Technology Roorkee were the guest of honours. Prof. I K Bhat Director NIT Hamirpur presided over the inaugural Ceremony. The papers on different themes of conference were published in conference proceeding. The proceeding contained 10 keynote papers on themes and 99 research papers. The conference was largely attended by the paper presenters and officers from HPPWD, HPI&PH, HPSEB, T&CP and Himuda. In all paper presentation took place in four sessions. 54 papers were presented in the sessions in addition to the invited talks. The invited talks were delivered by Prof. S K Kaushik, Prof S K Thakkar, Dr. G S Benipal from IIT Delhi, Dr. Abahay Gupta from Eign Technologies, New Delhi, Prof. C S P Ojha from IIT Roorkee, Dr. Animesh Das from IIT Kanpur, Prof. Indu Mahrotra from IIT Roorkee, and Prof. Pradeep Kumar from IIT Roorkee. Dr. Pardeep Kumar and Dr. Vijay Shankar Dogra were the organizing secretaries and Dr. R R Dash and Dr. Hemant Kumar Vinayak were the joint organizing secretaries of the conference.

Department of Electrical and Electronics Engineering organized a two day National Conference on Recent Advances in Electrical & Electronics Engineering (RAEEE-2009) w.e.f. Dec.23-24, 2009. The Conference was inaugurated by Prof I.K Bhat, Director NIT Hamirpur. Er. M.M Madan CEO, Malana Electric Power Company (Bhilwara Group), Noida was the Chief Guest during inaugural function. Prof. Ibraheem, an eminent academician from Jamia Milia Islamia University was the Guest of Honor. Around 92 delegates belonging to reputed technical institutions like IITs, NITs, Central Universities, Research Organizations i.e DRDO, CSIR & State Electricity Boards, Power Corporations and Industries participated in the Conference.

Several key areas like advances in Electrical Power System, Electrical & Electronic Devices & Systems, Materials, IT, DSP, High Voltage Engineering, Multiphase Systems, Electromechanical Motion Control Systems, VLSI & Computer Applications, Embedded Systems, Measurements & Instrumentation, Intelligent Grid Technology, Newer & Renewable Energy Systems were covered in five technical sessions. The main objective of conference was to create general awareness to foster expertise of eminent experts, researchers, industrialists, academicians and field engineers in addressing emerging technological problems for smooth operation of power systems. The success of conference is reflected in the enthusiastic response both from across the country and abroad. About 200 research papers were received, out of which 10 papers were selected from abroad and 90 from India for publication in the conference proceedings.

Organizing committee Dr. Zakir Husain, Co-ordinator-cum-General Chair, Dr.R.K.Jarial, Organizing Secretary, Dr. Kuldeep Sharma, Dr. Pawan & Er. Krishan Joint Secretaries

Short Term Training Programmes Conducted

Group Photograph of STTP on Transformer Engineering & Practices, 09



Three days Short Term Training Program w.e.f. 23Oct, 09 to 25 Oct,09 on "Transformer Engineering & Practices" was inaugurated by Prof. I .K. Bhat, Director NIT Hamirpur on 23 Oct, 2009 in the seminar hall of EED. 23 No. students of final year electrical engineering diploma from Govt. Polytechnic College Hamirpur have attended the STTP. This programme was organized under the aegis of TIFAC-CORE NIT Hamirpur. During the three days training programme both theoretical and practical aspects of transformer Engineering were covered. Talks were delivered on fault diagnosis, Routine tests for Power Transformer diagnostics , cooling methods Transformer Bushing and their diagnostics procedures, Sweep Frequency Response Analysis etc. **Coordinators** Prof Sushil Chauhan, Prof R.N Sharma and Dr Veena Sharma **Co-Coordinators** Er Rajesh Kumar and Er Bharti Bakshi

Inaugural of Winter School on Applications of MATLAB



AICTE sponsored Winter School on Applications of MATLAB in Engineering MAT-09 (18th -22 Dec 2009) was organized by department of Electrical and Electronics Engineering. The program was inaugurated by Prof I.K Bhat. Participants of the course were exposed to real time Engineering problems and solutions using MATLAB. MATLAB features and various toolboxes viz. optimization, Symbolic Mathematics, GA, Fuzzy logic, ANN, signal processing, control systems, wavelets simulation were covered in the present course. Fifty participants have registered for the course. **Course Coordinators** Dr. Ashwani Kumar Chandel, Dr. Rajeevan Chandel, Dr. RK Jarial and Er. OP Rahi

STC on "Micro and Nano Composite Materials



Short Term Course on "***Micro and Nano Composite Materials***" was Inaugurated on 28-12-2009 by Prof. I.K. Bhat Director, NIT Hamirpur. More than 30 participants from all over India has registered for this course. Experts/Resource persons from NIT's, IIT's and universities delivered the talks on Micro Nano Composite Materials. **Coordinator** Dr. Amar Patnaik and Siddartha

Centre of Excellence in Energy & Environment organized Short term Course on " Recent Trends in Renewable Energy System Technologies" (Dec, 21-25, 2009) The program was inaugurated by Prof. I.K.Bhat, Director, NIT Hamirpur In his inaugural address Prof. Bhat presented the Energy Scenario & Policy Perspective in India and stressed the need for a comprehensive Energy Policy to combat climate change concerns and bridge the gap between developed and developing Countries. Prof. Bhat said that the Centre of Excellence in Energy & Environment will start M.Tech (Energy Technology) and Ph.D in Energy & Environment w.e.f. July 2010 and informed that the Centre has taken a number of initiatives like getting declared Hamirpur & Shimla as Solar Cities by H.P. Govt. for which the Ministry of New & Renewable Energy Sources, Govt. of India will provide assistance . About 41 teachers from all over the country participated in the course. **Course Co-ordinator** Prof. S.S.Chandel.

Winter School on Advances in Optical and Wireless Communication



MHRD-AICTE sponsored Winter School on Advances in Optical and Wireless Communications (18th -22 Dec 2009) was organized by department of Electronics and Communication Engineering. The program was inaugurated by Prof R.K Sharma Dean (IRDC). Fifty participants from various engineering institutes got registered and were benefitted from the course.
Course Coordinators Dr. Vinod Kapoor and Er Ashok Kumar



Winter School on "Cloud Computing



Winter School on "Linux System Adminstration



Winter School on "Internet Technologies"



STC on " Recent Trends in Renewable Energy System Technologies

AICTE/MHRD Sponsored Winter School on *"Cloud Computing"* was Inaugurated on 28-12-2009 by Prof. I.K. Bhat Director, NIT Hamirpur. More than 30 participants from all over India has registered for this course. Experts/Resource persons from NIT's, IIT's and universities delivered the talk on Cloud Computing and related issues. **Coordinators**: Prof. Lalit K Awasthi, Dr. Pramita Awasthi and Er Naveen Chauhan.

AICTE/MHRD Sponsored winter school on "Linux System Administration and Programming LSAP-09" was organized by Department of Computer Science and Engineering during December 14 -18, 2009. Twenty two external faculties of different technical institutes from different parts of India participated in the course. This course was aimed at developing the Linux system related skills among the faculty so that they are able to configure, administer and use efficiently and securely Linux systems alongwith imparting quality education on these technologies.
Coordinators: Dr. (Mrs.) Kamlesh Dutta, Er. Pardeep Singh and Er. Rajeev Kumar.

Department of Computer Science and Engineering, organized AICTE/MHRD sponsored winter school on "Internet Technologies (IT-09)" during Dec 21-25, 2009. Twenty eight faculty members from different technical institutes from all over India attended this course. The main aim of the course was to deliberate on emerging technologies related to latest developments in Internet technologies, computing & communication with a focus on how to develop the skill sets to fit into the new roles as professional teachers.
Coordinators - Dr. Narottam Chand, Dr Kamlesh Dutta and Er. Nitin Gupta.

Department of Computer Science Engineering organised two training programmes during Aug 17-21, 2009 and Sep 22-25, 2009 for the police officials of Hamirpur. The courses were aimed at developing the computer related skills among the police officials so that they can address the cyber related challenges effectively. Participants were acquainted with the basic understanding of computer hardware &software, methodology of the collection and documentation of evidences, types of cyber crimes and IT Act.
Coordinators: Dr. (Mrs.) Kamlesh Dutta and Dr. Narottam Chand.

Centre of Energy and Environment organized a STC on " Recent Trends in Renewable Energy System Technologies" (Dec, 21-25, 2009). The course was inaugurated by Prof. I.K.Bhat, Director, National Institute Technology Hamirpur . In his inaugural address Prof. I.K.Bhat stressed upon the need for a comprehensive Energy Policy to promote renewable energy systems to abridge the gap between developed and developing countries policies on climate change. Mr. Robert Angioletti, Advisor, Bureau of Energy Efficiency, Ministry of Power GOI,, in his address, highlighted the need for improving energy efficiency in Industry, buildings and transport. Ms Tandon said every year 20 fellowships in various disciplines, are granted to Indian students. Sh. S.K.Singh, Director,(Solar Thermal) , Ministry of New & Renewable Energy Sources, Govt. of India, provided details of the Ministry's Solar Energy Programmes. Prof. S.S.Chandel, Course Co-ordinator said that 41 teachers from all over the country participated in the course in which 14 experts provided inputs in solar passive heating & cooling, Solar air heating, Drying, Bio-gas, Biomass gasification, Solar Architecture , Hydropower, Wind Energy, Solar radiation, Solar Power Generation and Energy Efficiency & Climate Change .
Coordinator Prof. S.S.Chandel

Workshops / Seminars/Symposiums Conducted

Workshop on LINUX System Administration



Two days workshop on "LINUX System Administration" was organized during 5-6 September, 2009. Participants were acquainted with the Linux installation, file system, user management, and security management in Linux system. Sessions were conducted by Prof. I.K. Bhat, Prof. L.K. Awasthi, Dr. (Mrs.) Kamlesh Dutta, Mr. K.S. Pandey, Mr. Rajeev Kumar, Mr. Anil Kumar and Mr. Ashwani Sharma. 35 students participated in the workshop. Coordinators Dr.(Mrs.) Kamlesh Dutta, Mr. K.S. Pandey and Mr. Rajeev Kumar

One Day Workshop on "Entrepreneurship cum motivation" was organized by the Deptt. of Management and Social Sciences on 11-10-09 for the students of N.I.T Hamirpur. More than 350 students have participated in this workshop. This workshop was organized with the objective to provide the information about the resource and guidance in order to make them job creator rather than job seeker. It was an attempt to inculcate the spirit of entrepreneurship among the student's community. Prof. I.K Bhat, Director of N.I.T Hamirpur has stressed upon the importance of Entrepreneurship in the present era.

National Seminar on "Nuclear Technology for Nation Building-09



One day National Seminar on "Nuclear Technology for Nation Building (NTNB-09)" inaugurated by Prof I.K Bhat, being organized jointly by the Deptt of Physics, NIT, Hamirpur (HP) and Indian Nuclear Society, Mumbai on August 08, 2009. Prof Bhat offered services of NIT hamirpur to establish it as one of the prime centre for training and research on Nuclear science and technology During this seminar eminent nuclear scientists and distinguished academicians like: Dr. Prabhat Kumar, Distinguished Scientist, Dr. A.K. Sharma, Head Food Technology Division, BARC, Mumbai, Dr. R. K. Singh, Secretary INS, Mumbai, Dr. M.C. Dinakaran, Dr. Amar Kumar BARC, Mumbai.. Dr Ravi Kumar IUAC Delhi delverd talks on processing of food and allied products, making sea water drinkable, free space Indian nuclear energy program, application of radioisotopes and accelerators. 433 participants (faculty, young researchers & students) from different institutes including the internal participants attended this national seminar. Chairman Dr R.K Singh, Prof. Y.D Sharma, Conveners: Dr. Subhash Chand & Dr. Kuldeep Kumar Sharma, Co-Convener: Dr. Rajesh Kumar, NIT Hamirpur

Course on Foreign language (Spanish Language)



Prof. Sunand Kumar, Coordinator, Institute Networking successfully organized a TWO WEEK first ever course on Foreign language (Spanish Language) for the students at institute campus from October 20-30,2009. Mr. P Kumar Mangalam from Jawaharlal Nehru University, New Delhi was the resource person. Second basic course On Spanish Language was organized from December14-18, 2009.



Three day Symposium on Plasma Science and Technology being organized jointly by the Department of Physics, National Institute of Technology, Hamirpur (HP) and Plasma Science Society of India, from 08-11 Dec 2009 at NIT-Hamirpur. The program was inaugurated by Dr P.K Barhai.VC BITS Meshra and President PSSI, Following Scientists delivered lectures Dr. S Mukhrejee, Dr S.K Neema, Dr J Govindrajan, Dr P.K Atry , Dr A Khare. Dr. A.K Chakraborty, Dr.B Vinadhari , Dr Joyanti on topics such as plasma surface engineering,organic waste using plama pyrolysis , fuzzy logic and toka mak,plasma engines and heat pumps , geomagnetic field and neutral beam injector in fusion reactor. 300 participants (faculty, young researchers & students) from different institutes including the internal participants attended the program. Conveners: Dr A.V Ravi (IPR) , Dr. Rajesh Kumar, Members : Dr. Subhash Chand , Dr. Arvind & Dr. Kuldeep Kumar Sharma , Dr Pawan and Mr Manoj NIT Hamirpur.



Business skill development program

A workshop cum declamation contest was organized at NIT, Hamirpur on 5th September by Department of Management & So. Sciences in collaboration with District Administration under CBAI Project. In this workshop 250 students have participated Chief Guest Sh. Ashwani kapoor highlighted the significance of RTI in good governance, Sh. Abhishek Jain, DC Hamirpur stressed upon importance of RTI and talked about various issues pertaining to RTI Act and challenges which we are going to face near future. Prof I.K. Bhat, Director, NIT Hamirpur advocated the need and significance of RTI Act for the common masses and especially for students.

Department of Management and Social Sciences, NIT, Hamirpur in association with MSME Development Institute, Solan Organized two week course on Business skill development from 11 - 24, December-2009, for final year B.Tech and MBA students Lectures were delivered on managing people, managing time, stress management, leadership, business planning. Course Coordinators Dr. Piar Chand, Dr. Yogesh Gupta.

Community Development Programs Conducted

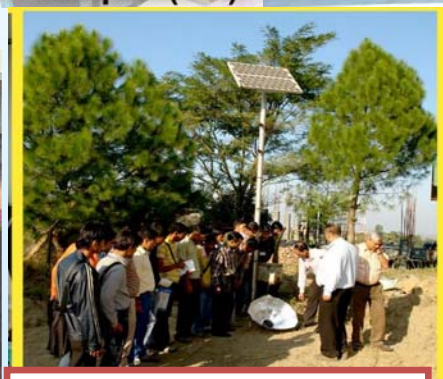


Participants of Community Development Program Networking Fundamentals -09





Rendering Skills in architecture



Repair and Maintenance of Solar and Photovoltaic Systems



Advanced Motor vehicle Maintenance and Repairs

- Repair and Maintenance of wooden and Steel Furniture-By MED Workshop Coordinator: Dr N.S Thakur
- Networking Fundamentals -By CSE Department, Coordinator: Dr Narottam Chand
- Rendering Skills in architecture - By Arch Deptt, Coordinator Ar Neetu Kapoor
- Repair and Maintenance of Solar and Photovoltaic Systems- By Energy Centre , Coordinator: Prof S.S Chandel
- Advanced Motor vehicle Maintenance and Repairs - By Mechanical Engg Deptt, Coordinators: Prof. Sunand Kumar and Dr Somesh Sharma

Medical Camp NIT Health Centre organized a free medical check-up camp for the **PRAYAS** children. About 150 children residing in slums were examined for various diseases by the pediatrician Dr. Vivek Bhat



Free medical check-up camp for PRAYAS

Department of Electrical engineering department organized short term course on electrical measurement instruments for students of Govt senior secondary school Galore from 21-25 December, 2009. The program was inaugurated by Prof I.K Bhat, Director. About 50 School students were benefited from the program.Course coordinators Prof Sushil Chauhan, Prof R.N Sharma , Dr.Veena Sharma and Sh B.B Sharma



Course on electrical measurement instruments for school children

Camp on Anti Ragging Law



A camp on anti ragging was organized to appraise the students , faculty and staff members to curb the menace of ragging and various clauses under this law. In his address Mr Krishan Kumar Hon'ble Judge High Court talked about various ingredients of ragging and punishable introduces. Prof I.K Bhat, Director on this occasion said that institute has taken number of measures for prohibition and prevention of ragging. The anti ragging committee and anti ragging squad has been set up to prevent ragging. NIT hamirpur 2009 regulations on curbing the menace of ragging and related instructions have been given to the students at the time of registration /admission in the institute. More than 500 students and faculty/staff members have attended the program

Inauguration of New Facilities



Garbage Disposal System, Car wash centre, Extension to Boys Hostel

On 13-11-2009 Hon'ble Director, Prof. I.K. Bhat inaugurated the Garbage Disposal System for NIT, Hamirpur.

Prof Bhat also inaugurated car wash centre, this will give the facility of washing the heavy and light vehicles for faculty and Staff.

Foundation stone of Extension to Kailash Boys Hostel was laid having 300 capacities of students. This will increase the total capacity of the students in the Kailash Hostel to 630 students.

Hindi Diwas Celebrations



Inaugural Function of Hindi Diwas -2009

As per guidelines of Ministry of Human and Resource Development Rajbhasa unit, the Hindi Diwas was celebrated on 14sept 2009 . The program was inaugurated by Hon'ble Director Prof I.K Bhat in the Institute Auditorium . In his address Prof Bhat expressed his views on "Role and Responsibilities of an employee in enhancing the brand image of the institute".

Prof. A.S Singha (Dean P&D), Prof V.K Sharda, Dr Rajeevan Chandel, Sh P.C Katoch, Sh.B.C Bhardwaj, Sh P.C Kanwar, Sh T.R Kapoor and other officials from teaching and non teaching departments were also present. The program was coordinated by Sh B.C Bhardwaj, PS to Director

International Collaborations

INTERNATIONAL COLLABORATION WITH SHU, UK

National Institute of technology, Hamirpur (HP) has signed a Memorandum of Understanding with Sheffield Hallam University, UK in February 2008 in the presence of Prof Graham Button, Pro-VC and Prof Bob Harris, Head, International Development from SHU, UK. The memorandum relates to academic and cultural links to foster understanding between the two institutions and cooperate in – staff and student exchange and visits; academic seminars and co-operative research and exchange of information about courses and research activities. An Advanced Material Science Centre is to be established at National Institute of Technology Hamirpur (HP) as per the road map of the institute. A delegation from NIT Hamirpur led by Prof. Sunand Kumar, Coordinator International Collaboration is likely to visit Sheffield Hallam University, UK by the end of Feb 2010

INTERNATIONAL COLLABORATION WITH UB, UK

A delegation from National Institute of Technology Hamirpur consisting of Prof. I.K. Bhat, Director, Prof. Sunand Kumar , Coordinator International Collaboration and Prof. R.K Sharma, Dean (IRDC) had a meeting with Prof. N P Weatherill, Head of College of Engineering and Physical Sciences, Edgeaston Birmingham B15 2TT, United Kingdom in the presence of Mr. J.J.Nandi of MBEC at his office, 1007 Mercantile House, Kasturba Gandhi Marg, New Delhi on October 27, 2009 in connection with International Collaboration with the University of Birmingham, UK. It was nice to interact with Professor N P Weatherill knowing the strengths and areas of common interest on both sides. Issues like student and faculty exchange, joint seminars/conferences/ research and exchange of information about courses and research activities were deliberated in detail. The meeting was quite positive and we look forward for collaboration with University of Birmingham, UK soon.

INTERNATIONAL COLLABORATION WITH A 4U, SPAIN

A delegation from National Institute of Technology Hamirpur consisting of Prof. I.K. Bhat, Director, Prof. Sunand Kumar, Coordinator International Collaboration and Prof. R.K Sharma, Dean (IRDC), had a meeting with an International Delegation from Alliance 4 Universities (A 4U) SPAIN in the presence of MR. J.J.Nandi of MBEC New Delhi on October 27, 2009 at Instituto Cervantes, 48, Hanuman Road, New Delhi in connection with International Collaboration between NITH and A4 U Spain. Issues like student/faculty exchange, academic seminars and joint research and exchange of information about courses and research were deliberated. It was a fruitful discussion on all the issues of common interest and we look forward for collaboration with A 4 U of Spain in near future. The delegation has extended an invitation to visit Spain in connection with collaboration.

INTERNATIONAL COLLABORATION WITH FINLAND

Further on 26th November, 2009 during 15th Technology Summit and Technology Platform (India-Finland Partnership Forum FIND 2009 on 26th and 27th Nov, 2007)at Hotel Grand New Delhi, the consortium of NITs (Co-NIT) signed MoU with various Universities of Finland ,Helsinki University of Technology, University of Oulu, Tampere University of Technology, The University of Tampere and Laurea University of Applied sciences). These MoUs were signed by Her Highness Ms Terki Hakala, Ambassadar, Embassy of Finland in India and Prof. I.K.Bhat, Director NIT Hamirpur. The MoU seeks to facilitate collaborative activities in terms of exchange of faculty and research staff, exchange of students, students training, joint research, exchange of academic information and publication, collaborative financing of projects etc. It is expected that these collaboration shall provide both signatories immense benefits. Prof. Bhat also assured that an action plan will be soon prepared to give wings to the MoU



15 th Technology Summit and Technology Platform -09 India Finland Patenership Forum -FIND 2009



MoU Signed by Prof I.K Bhat, Director, NIT H and Ms Terki akala,, Ambassador Embassy of Finland

CONSORTIUM OF NATIONAL INSTITUTES OF TECHNOLOGY

On 26th and 27th November 2009, (20) National Institutes of Technology of India have come together to form a consortium (Co-NIT). The consortium plans to work together and strive to find solutions to various issues facing them. The consortium shall help in enhancing academic interchange between the participating members including Faculty and Student Exchanges. It shall also help in effective use of costly research infrastructure which has been developed in some of these institutions. It is also expected to promote delivery of specific programmes and training of faculty. It is expected that the consortium shall help in developing effective Faculty development system by pooling their resources. The consortium has been established under the dynamic leadership of Sh. Ashok Thakur, Additional Secretary, MHRD, Govt. of India. Presently NIT-Hamirpur has been chosen as the coordinating institution for the consortium (Co-NIT).

Research Publications

JOURNALS

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- Sunil and Amit Mahajan "A nonlinear stability analysis for rotating magnetized ferrofluid heated from below saturating a porous medium". "ZAMP" (Netherlands), 60, 344-362 (2009).
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- Yog Raj Sood, Prashant Kumar Tiwari, "Optimal Location of FACTS Devices in Power System Using Genetic Algorithm", "International Symposium on Biologically Inspired Computing and Application (BICA-2009), December 21-22, 2009

Courses, Seminars, Workshops and Training Programmes Attended

- Dr. Kuldeep Kumar Sharma attended Indian Nuclear Society Seminar on **"**Nuclear Technology for Sustainable Development (NTSD09)" during October 10-11, 2009 at Thapar University Patiala organized jointly by Indian Nuclear Society & Thapar University
- Dr. Yogesh Gupta attended workshop on Technology and Innovation Management" at Shimla w.e.f.11-11-09 to 12-11-09 , Organized by IHBT, Palampur (H.P.)
- Mr. S.K. Soni, Mr. Ashok Kumar, Mr. Gagnesh & Mr. Krishan Kumar attended two days workshop on "Research Issues in Modern VLSI Devices" w.e.f. Nov. 6-7, 2009 organized by E&CED NIT Hamirpur (HP).
- Ms. Meenakshi Sood attended Summer School on "Matematerial" at NITTTR Chandigarh w.e.f. 14-18 May, 2009.
- Sh. Gagnesh Kumar attended Short Term course on "FPGA Based Digital System Design" w.e.f. 12/10/2009 to 16/10/2009 at NITTTR Chandigarh
- Sh Surinder Soni attended STC on Advances in Optical and Wireless Technology in E& CE department.
- Dr. Narottam Chand attended short term course on "Cellular Technologies: 3G & Beyond" at IIT Kanpur, Nov 26-28, 2009.
- Dr. Lalit Awasthi and Dr. Narottam Chand attended Second Regional Workshop of MeLT Project under NMEICT organized by IIT Roorkee at PU Chandigarh, Dec 02, 2009.
- Sh Surinder Soni attended a STC on Cellular Technology : 3G and Beyond in IIT Kanpur on 26^{th}-28^{th} Nov. 2009
- Mr. Pardeep Singh, Mr. Naveen Chauhan and Mr. Rajeev Kumar attended five days short term course on "Internet Technologies-09" at NIT Hamirpur during Dec 21-25, 2009.
- Mr. Siddhartha Chauhan and Mr. Nitin Gupta attended five days short term course on "Linux System Administration & Programming-09" at NIT Hamirpur during Dec 14-18, 2009.
- Dr. (Mrs.) Kamlesh Dutta attended workshop on "IPv6" at IISc Banglore held during Oct 6-8, 2009.
- Dr. (Mrs.) Kamlesh Dutta attended workshop on "Indian Logic and epistemology" at Indian Institute of Advanced Studies Shimla during Nov 2-11 2009.
- Dr. (Mrs.) Kamlesh Dutta attended AICTE winter school on "Cloud Computing" held during Dec 28, 20009 to Jan 01 2010.
- Sh.Surender Soni attended a meeting with the US local Chapter of Alumni Association of NIT Hamirpur during his visit to United States of America in San – Francisco.
- Dr. Rajeevan Chandel and Dr. Ashwani Kumar Chandel attended AICTE winter School on Linux System Administration and Programming from 14-18 Dec 2009.
- Prof Y.R Sood attended International Technical Conference, on Emerging Technologies for Sustainable Development, IEEE TENCON, November 23-26, 2009, Singapore
- Prof S. Chandel attended and presented paper on Strategy for passive solar heating of buildings in Cold Regions of Heating at the International Congress on Renewable Energy at India Habitat Centre, New Delhi Oct 6-7 2009
- Prof. N.S Thakur attended International Conference on Advanced in Energy Research at IIT, Bombay, 9^{th} -11^{th} Dec, 2009
- Dr Mamta Awasthi attended International Summit on Algal Biofuels at New Delhi in September, 2009
- Dr Suresh Dhiman attended AICTE winter school on "Recent Trends in Renewable Energy System Technologies" held during Dec 21, 20009 to Dec 25, 2009

Expert Lectures Organized/ Delivered

- Dr. S. Das Gupta, Prof. IIT Roorkee delivered lectures on " MOSFET Basics", "Device Modeling", Double Gate MOSFET" & "Double Gate MOSFET" during RIMVD Workshop conducted by E&CED at NIT Hamirpur w.e.f. 6th & 7th Nov., 2009.
- Department of Physics, NIT Hamirpur (HP) organized an Institute Lecture on the Topic "400 Years of Astronomy: Telescope a tool to probe the universe. The Lecture was delivered on November 16, 2009 at 4:0 PM in the institute auditorium by Dr. Ravinder Banyal, Research Scientist from Indian Institute of Astrophysics, Bangalore.
- An expert lecture on "System Programming and Programming Libraries" was delivered by Mr. Rakesh Pandit, System Programmer, Red Hat Inc. Pune, Maharashtra on 30th October, 2009. The Talk was oriented towards how things work in an Operating System. Along with it, the lecture also focused on managing applications essentially package management.
- Mr. Raghav Abhi, SAP Consultant, CSC Noida, delivered an expert lecture on "Enterprise Resource Planning" on 1st October, 2009.
- Prof Ritu Barthwal, Head Deptt of Biotechnology and Central NMR Facility, IIT, Roorkee delieverd lecture on " Drug-DNA interactions using spectroscopic techniques on 25th Sep.09 at seminar hall of Computer Centre.
- GM, Corporate affairs from Universal Business School Bombay, Sh. Jagjit Singh delivered Lecture to MBA students on 17th October 2009.
- Prof. (Mrs.) Saroj Kaushik, from IIT Delhi delivered lecture on "Advances in Artificial Intelligence" on Aug 29, 2009.
- Prof. Ajay Sharma from NIT Jalandhar delivered lecture on "Mobile Computing" on Aug 29, 2009.
- An expert Lecture was delivered by Dr. Kamlesh Asotra, University of California, Oakland, CA 94162, USA on Third hand Smoke: An Unappreciated Health Hazard and ENVIRONMENTAL RESEARCH INITIATIVE: Air, Water and Soil Contamination with Tobacco Waste and Cigarette Butts- Effects on Aquatic Life and Humans to the faculty & students of NIT Hamirpur on Nov. 10, 2009.
- An expert lecture on curbing Ragging was delivered by Sh. Krishan Kumar.
- Prof I. K. Bhat Director NIT Hamirpur delivered an expert lecture on "Leaders and Leadership" on 13th October, 2009 in the Institute Auditorium during the organization of fresher's eve for the students of the department of Electrical Engineering.
- Prof. Rakesh Sehgal delivered expert lectures on topics Tribotesting and Tribosurfaces and their characterization during short term training program on Metallurgical aspects of tribology from 30 Nov 2009 -04 Dec 2009 at NIT Surat
- Dr Yogesh Gupta delivered expert lecture on Stress Management" at MIET, Jammu in November, 2009.
- Dr. Kuldeep Kumar Sharma, delivered expert lecture on " Physics of Lighting Devices" in "Training on Repair & Maintenance of Solar Photovoltaic Lighting & Solar Water Heating Systems" under Community Development Programme organized by Centre for Excellence in Energy and Environment, NIT Hamirpur (HP) during Oct. 26-30, 2009
- Dr Yogesh Gupta delivered expert lecture on ,"Business Skill Development" organised by MSME Solan in association with NIT Hamirpur w.ef.11-12-2009 to 24-12-2009
- Dr. Ashwani Kumar Chandel delivered an expert lecture on 24th October 2009 on 'Modern Cooling Methods in Transformers', in STTP conducted by TIFAC CORE
- Prof. Lalit Awasthi delivered lecture on "Multicore Architecture" and Dr. Narottam Chand on "Power issues in Mobile devices"delivered lecture on during RIMVD Workshop conducted by E&CED at NIT Hamirpur w.e.f. 6th & 7th Nov., 2009.
- Sh. Ashwani Rana delivered lecture on "Non Conventional VLSI Devices and Dr. Prem Flex delivered lecture on "Nanomaterials for VLSI devices" during RIMVD Workshop conducted by E&CED at NIT Hamirpur w.e.f. 6th & 7th Nov., 2009.
- Prof. Vinod Kapoor delivered lecture on "Motivation & HRM" during workshop on Motivation & Innovation for Group-D on 14th Nov., 2009
- Prof.L.K. Awasthi delivered an lecture on Active Learning in AICTE Winter School MAT-09,18-22 Dec 2009, EED NIT Hamirpur HP.
- Dr. Rajeevan Chandel delivered an expert lecture on "Engineering Applications of Linux" in AICTE Winter School LSAP-09 held from 14-18 Dec 2009, CSED NIT Hamirpur HP.
- Sh Surender Soni delivered lecture in STC on "Internet Technology" organized by CSE Department of NIT Hamirpur.
- Prof. L K Awasthi delivered expert lecture on "Routing Algorithms in MANETs, Dr. Narottam Chand on Internetworking Technologies, Wireless & Mobile Computing , Dr. (Mrs.) Kamlesh Dutta on "IPv6", Er. T P Sharma on "Wireless Sensor Network Er. Naveen Chauhan on "Mobile IP" Er. Nitin Gupta on "Network Algorithm in Winter School IT-09, Dec 21-25, 2009.
- Dr. Narottam Chand delivered expert lecture on "Computer Networking, Dr. (Mrs.) Kamlesh Dutta on "Networking in Education Er. T P Sharma on "Next Generation Wireless Computer Er. Siddhartha Chauhan on "Internet and its Application, TCP IP and OSI model Er. Pardeep Singh on "WAN Technology in community development program NF-09, Dec 14-18, 2009.
- Dr. (Mrs.) Kamlesh Dutta and Meera H.R. gave presentation on "Knowledge-Representation based on Models presented in Tarka-Samgraha" in the Study week on " Indian Logic and epistemology" at Indian Institute of Advanced Studies Shimla during Nov 2-11, 2009.
- Dr.(Mrs.) Kamlesh Dutta delivered lecture on "Digital Image Processing" in the AICTE summer School on "Transportation Systems Planning & GIS Application in Engineering" during Dec 19-23, 2009.
- Dr. Ashwani Kumar Chandel delivered expert lectures on MATLAB Programming, Graphics in MATLAB and ANN applications in Engineering Problems and Er. O.P. Rahi on **"**Fuzzy Logic" in in AICTE Winter School MAT-09 held from 18-22 Dec 2009.
- Dr. Rajeevan Chandel delivered an expert lecture on **"**DSP Toolbox in MATLAB and its Applications" in AICTE Winter School MAT-09 held from 18-22 Dec 2009, EED NIT Hamirpur HP.
- Prof Y.R Sood delivered lecture on Transmission Tariff for Restructured Indian Power Sector with Special Consideration to Promotion of Renewable Energy Sources" on December 22, 2009
- Dr. Y.R. Sood delivered an expert lecture on GA ToolBox in MATLAB and Dr. R.N. Sharma on Optimization ToolBox in AICTE Winter School MAT-09 held from 18-22 Dec 2009, EED NIT Hamirpur HP
- Prof. Ravi kumar delivered lecture on Role of Ion in Engineering Syntheziation of functional oxide materials in 18 National Symposium on Radiation Physics 19-21 Nov09
- Dr Umesh Kumar Pandey delivered an expert lecture titled '"Application of MATLAB in Civil Engineering" during a AICTE sponsored winter school on "Application of MATLAB in Engineering MAT-2009"

- Prof. L K Awasthi delivered expert lecture on What is Cloud Computing & Cloud Computing Architecture, Dr. Narottam Chand on "Resource Management in Cloud Computing" Dr. T P Sharma on "Sensor Clouds" , Dr. Kamlesh Dutta on "IPv6 in Cloud Computing in Winter School CC-09, Dec 28, 2009 - Jan 1st, 2010
- Dr. Narottam Chand delivered expert lecture on "Networking in Linux", Dr. K S Pandey on "Shell Programming Er. Pardeep Singh on "Unix Editors" Er.Rajeev Kumar on Basic Utility of Linux Winter School LSAP-09, Dec 14-18, 2009
- Dr Ravi kumar delivered Invited talk on Synthesis of spintronic materials using ion implantation and swift heavy ion irradiation at Thapar university Patiala, Symposium on "Nuclear Technology for Sustaniable development" from 10-11Oct 09.
- Dr Ravi kumar delivered Invited talk on Exposition on Bismuth based multiferrite materials and their radiation studies at International symposium on Nanostructure Materilas 28-29 Oct 2009
- Dr.Jaspreet Kaur Randhawa delivered invited talk on"Nanotechnology and its application" in Research Issues in modern VLSI devices

Recognition and Awards

- Dr. Rajiv Kumar Sharma has been elected as a member of Editorial Board of ISST Journal of Mechanical Engineering
- Dr. Sunil and Dr. Pawan Kumar Sharma have been elected as members of Editorial Board of ISST Journal of Mathematics and Computer Science.
- Dr. Sunil guided his 7th Ph.D. student Mr. Amit Mahajan on the topic "Non- Linear Stability Analysis of Ferrofluids" from NIT Hamirpur (HP).
- Dr. R.K.Dutta, appointed as Editor-in-Chief of International Journal of Geotechnics and Environment
- Dr. R.K.Dutta, has been appointed as Reviewer for Waste Management Journal
- 100th research paper of Dr. Sunil entitled "The effect of suspended particles on Marginal stability of magnetized ferrofluid with internal angular momentum" has been accepted for publications in "Heat Transfer Research" (USA).
- Professor A.S. Singha has been elected as a member of Editorial Board of ISST Journal of Applied Chemistry.
- Prof. Sunand Kumar has been nominated as a member of the editorial board of International Journal on Mechanical and Automobile Engineering (IJMAE) ISSN 0974-231 X , 2009
- Dr Subhash Chand, elected as member of the Editorial Board of ISST Journal of Applied Physics (IJAP).
- National MEMS Design Centre is accorded to NIT Hamirpur under NPMASS Project of Govt. of India. Such centers are being set up in 60 different sites in India under the guidance of Prof. Navakanta Bhat, IISc Bangalore under NPMASS Project. Dr. Rajeevan Chandel, Asst. Prof. E&CE Department is the Coordinator of the same.
- Prof Y.R Sood became Senior Member International Association of Computer Science and Information Technology (IACSIT).
- Prof Y.R Sood visited "Singapore" November 23-26, 2009, regarding participation in International Conference IEEE TENCON
- Dr.Zakir Husain, Chaired a technical session on Power System in the International Conference on Recent Advances in Electric Power Systems, High Voltages, Electric Machines (POWER'09), held in University of Genava, Genava, Italy, Oct. 17-19, 2009.

CENTRAL LIBRARY WORKSHOP/ BOOKS EXHIBITION

- Two days workshop on Automation of Library " was organised during 11-12 December, 2009. Participants were acquainted with Library automation systems . Dr J.N Sharma inaugurated the workshop. Course Coordinator Sh D.S Jaswal
- The Central Library organized a Books Exhibition on 8-10 Sept,09. Twenty Books Suppliers/Publishers from Hamirpur, Chandigarh and New Delhi participated in it. Prof. I. K. Bhat, Director, NIT Hamirpur inaugurated the books Exhibition. Faculty members /Research Scholars and students visited the Exhibition and selected/ recommended books for library
- The central Library organized a "Workshop on Motivation and Innovation" on 14 11.09 for Group D Employees of Institute.

Workshop on Automation of Library



Books Exhibition



Student Activities – *Hillffair, Abhyudaya , Challenge Chatney……..*



Lamp lighting Inaugral Function Hillffair'09





"Challenge Chatney", Department of Science and Technology program, Government of India

Hillffair'09 the annual cultural festival of institute started from 30th Oct-01st Nov 2009. This was the 21st annual festival being celebrated at NITH. The theme of this Hill'ffair was "Reverb"which calls to encore aloud in a joyous way. Hill'ffair was officially declared open by the Hon'ble Director Prof I.K Bhat and was presided over by the DC Hamirpur and Ms. Urmila Thakur, MLA . Beginning with the saraswati vandana gradually gave way to heart thumping dance numbers. Humour and emotion explicitly fiddled with the sentiments of the denizens of the institute and the guests as students performed their main choreo.This Hill'ffair saw participation from various colleges around the region and a gathering of approximately 2000 students. Mr. Surinder Sharma, one of renowned poet was the main attraction of the evening. He entertained the audience with his witty and humorous prose's. Beginning with the elemental sufi songs and ghazals, the evening of second day dawned on to rock beats and the flaming performances by students. The final day of the three day fest was an concoction of exquisite beauty and smart brains, as the Adam and Eve of the college were chosen. Presidency of Industry Minister Govt of HP , Sh. Kishan Kapoor, as the Chief Guest , Director, Vigilance, Department of Telecommunication, Sh. OP Minhas, and the , MLA, Ghumarvi ,Sh. Rajesh Dharmani as the Guests of Honour , and Nodal officer, Vodafone SR, Mr. Sandeep Tuli, as special guest, made the day memorable. Engrossed in the exquisite panorama of the winter falls in the backdrop of the southern Himalayan ranges, the college danced away to the merry tunes of music of all genere.

Technical Quiz Contest organised by SOME(Society of Mechanical Engineering) on October 23, 2009 at Department of Mechanical Engineering for students of Mechanical Engineering .

In the honour of mother language, Hindi, three day event ***"Abhyudaya '09"*** was celebrated in National Institute of Technology, Hamirpur from September 19, 2009 to September 21, 2009.

Challenge Chatney, a Department of Science and Technology , Government of India initiative was shot at NIT, Hamirpur on November 24 - 25, 2009. More than 100 students enthusiastically participated in this extravaganza which will be presented as a reality television programme on the National television (DD-1). The students worked on very intuitive and basic engineering problems and came out with very innovative solutions. The semi-finals would be shot at Bangalore where it would be inaugurated by the Union Minister of Science and Technology, Government of India. The entire proceedings was coordinated by Prof. L.K. Awasthi.. Student representatives- Mr. Udit Bhatia, Miss. Pankhuri Sen, Mr. Sumeet Biswas, Mr. N. Shasank , Mr. Shashank Singh and Mr. L.Vishal

Alumni Meet 2009

Inaugral of Second Alumni Meet -09



Snap shot of Kolkata-North East Alumni Local Chapter



Snapshot of US local Chapter of Alumni Association

2nd Alumni Meet of NIT Hamirpur was organized on Oct 02. 2009. Chief guest Prof. I.K. Bhat Hon'ble Director NIT Hamirpur have graced the occasion by his valuable presence.The General boy meeting of Association was attended by 139 members from batches graduating since 1990. This included 48 alumni from 1990-1995 batches, 28 alumni from 1996-2000 batches, 22 alumni from 2001-2005 batches and 41 from 2006-2009 batches. The Dean (SW &AA) Dr Lalit Awasthi, Coordinator Alumni Affairs, Sh. Surender Kumar Soni and Former Dean (SW&AA) were also invited to attend the proceedings and give valuable suggestions

The Kolkata-North East Alumni Local Chapter of NIT Hamirpur Alma matter was constituted in a function under the Chairmanship of Prof. I.K Bhat on 26th December, 2009. Prof. Lalit Awasthi (Dean SW & AA) and Mr. Surender Soni (Coordinator Alumni Affairs) NIT Hamirpur were also present. It was attended by more than 16 alumnus of NIT Hamirpur and their families. Mr. Shankar Das and Amitabh Dutta were elected the President and the General Secretary



Sports Activities

-*All India inter NIT football tournament* was organized at NIT Hamirpur from 12th to 14th december 2009. In total 08 teams NIT Jalandhar, NIT Rourkela, NIT Kurukshetra, NIT Warangal, NIT Surathkal, NIT Allahabad, NIT Durgapur and host team NIT Hamirpur participated in the tournament. All the matchaes were played on league basis. NIT Kurukshetra and NIT Surathkal met in the finals and NIT Surthakal emerged as the winners.

-*Inter Engineering Deemed University Basket Ball Tournament* was organized at NIT Hamirpur from 13th November 2009 to 14th November 2009. In total four teams PEC Chandigarh, NIT Jalandhar, SLIET Longowal and the host team NIT Hamirpur participated in the tournament. The final match was held between PEC Chandigarh and NIT Jalandhar in which PEC Chandigarh were the winners.

All India inter NIT football tournament



Inter Engineering Deemed Univ Basket Ball Tournament



NIT Hamirpur Year Round Up-2009



New Joinings

Centre of Material Sc	Dr.Ravi Kumar, Professor	Civil Engg Deptt	Dr .Vijay Bansal AP
Administration Branch	Sh.Vikas Dogra, Junior Asstt Sh.Ashwani Soni, Junior Asstt Sh Vishal Narota, Junior Asstt Sh.Vipan Kumar-I, Junior Asstt	Sh. Vipin Kumar-II, Junior Asstt Sh. Shashi Kant Ratnakar, Junior Asstt Sh. Ravinder Kumar, Junior Assistant Sh. V.K Tippan , Junior Assistant	Sh. Surinder Pal, Driver Sh.Sanjeev Kumar, Driver Sh .Ashok Kumar, Driver Sh .Shameem Ahmed ,Driver

Training and Placement B.TECH PLACEMENT FOR 2009-2010 (TILL JANUARY 7, 2010)

Sr. No.	Discipline	No. of students in final year		Total No. of students placed	Percentage of placement
		Total	Eligible		
1.	Elect. & Comm. Engg.	60	60	24	40.00
2.	Comp.Sc. & Engg.	61	61	31	50.81
3.	Electrical Engg	56	56	26	46.42
4.	Mechanical Engg	60	60	26	43.33
5.	Civil Engineering.	43	43	20	48.78

Forthcoming Programs -Conferences/Workshops/ STC

- Annual technical festival of NIT Hamirpur- **NIMBUS 2010** from March 12-14 ,2010
- Workshop on Identifying Competent International Marketing Strategies for Indian Defence Systems [CIMS-10] 22nd-23rd February, 2010 Coordinator Dr. Somesh Sharma
- Intelligent Building System for the Urban and Rural area February 22-26, 2010 Coordinator Ar. I.P.Singh
- Community Development Program on E-com Communication 20-24 April 2010 Coordinator Mrs Gargi Khanna
- For details Please visit institute website www.nith.ac.in

From Chief Editor's desk

On the behalf of Editorial team I thank all the Deans, Heads, Coordinators, Faculty, Non-teaching staff and students who have been associated with the Institute NEWSLETTER in past and all those who are associated with it in present for their efforts in bringing out the 3rd Volume of Year 2009 Newsletter in the best possible manner
Dr. Rajiv Kumar Sharma, AP, MED NIT Hamirpur

Team *NITH Newsletter* wishes to all NITHians past, present readers
"Happy and Prosperous New Year- 2010"

Editorial Board
Patron
Prof. I.K, Bhat, Director
Editor-in-Chief
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